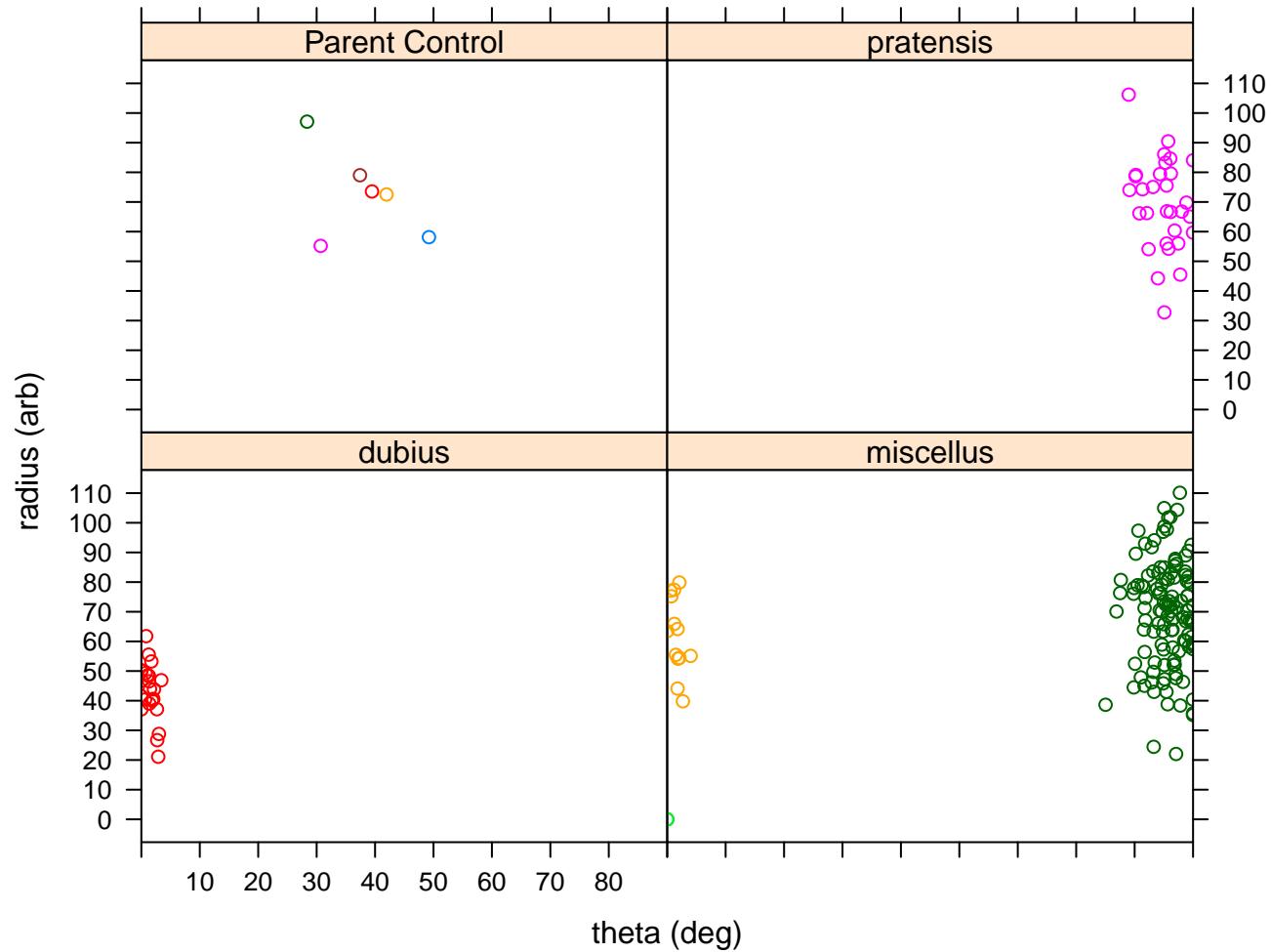


V_2_5_contig01934_433 gDNA

Call

Bad_Spectrum	○	PM3_1_1	○
HH	○	PM3_1_2	○
HHHH	○	PM3_2_1	○
LL	○	PM4	○
LLLL	○	PM5	○
No_Alleles	○	PM6	○

10 20 30 40 50 60 70 80



V_2_5_contig01934_433 cDNA

Call

HH	○	PM3_1_2	○
HHHH	○	PM3_2_1	○
LH	○	PM4	○
LL	○	PM5	○
LLLL	○	PM6	○
PM3_1_1	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

140
130
120
110
100
90
80
70
60
50
40
30

radius (arb)

dubius

miscellus

140
130
120
110
100
90
80
70
60
50
40
30

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_contig02957_216 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

180
160
140
120
100
80
60
40

dubius

miscellus

180
160
140
120
100
80
60
40

radius (arb)

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_contig02957_216 cDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

200
180
160
140
120
100
80
60
40
20

dubius

miscellus

radius (arb)

200
180
160
140
120
100
80
60
40
20

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_contig02957_303 cDNA

Call

Bad_Spectrum	LLLL
HH	No_Alleles
HHHH	PM3_1_1
LH	PM3_1_2
LHHH	PM3_2_1
LL	PM4
LLHH	PM5
LLLH	PM6

10 20 30 40 50 60 70 80

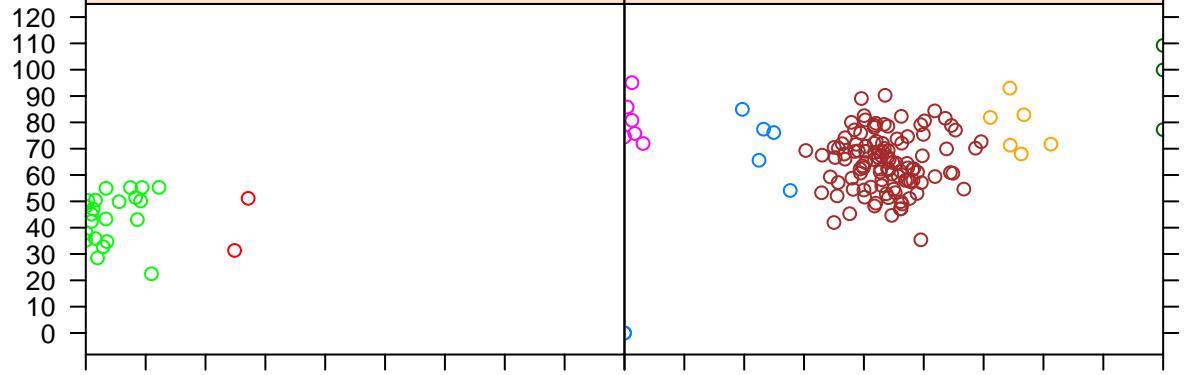
Parent Control

pratensis

120
110
100
90
80
70
60
50
40
30
20
10
0

dubius

miscellus

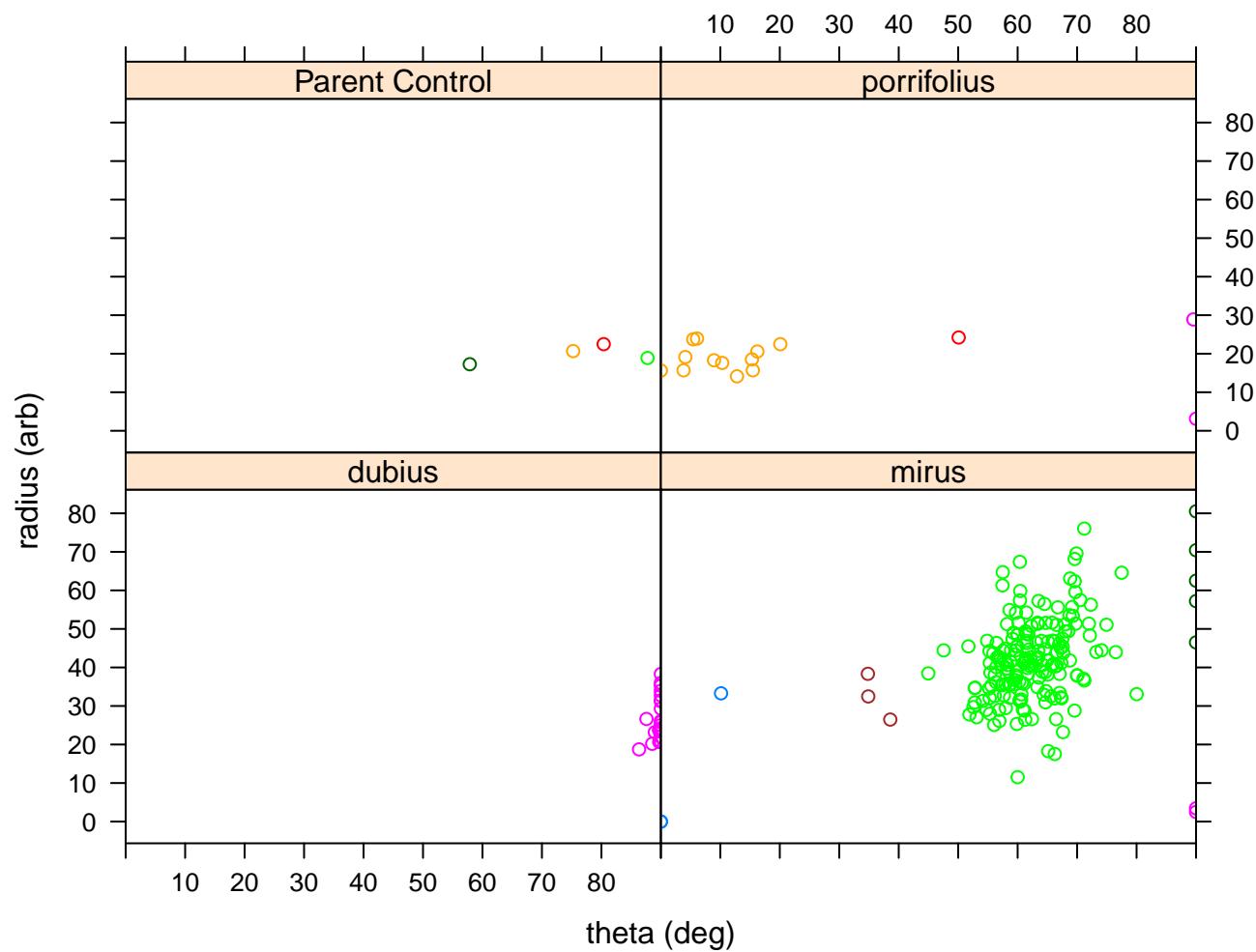


theta (deg)

V_2_5_contig14070_43 gDNA

Call

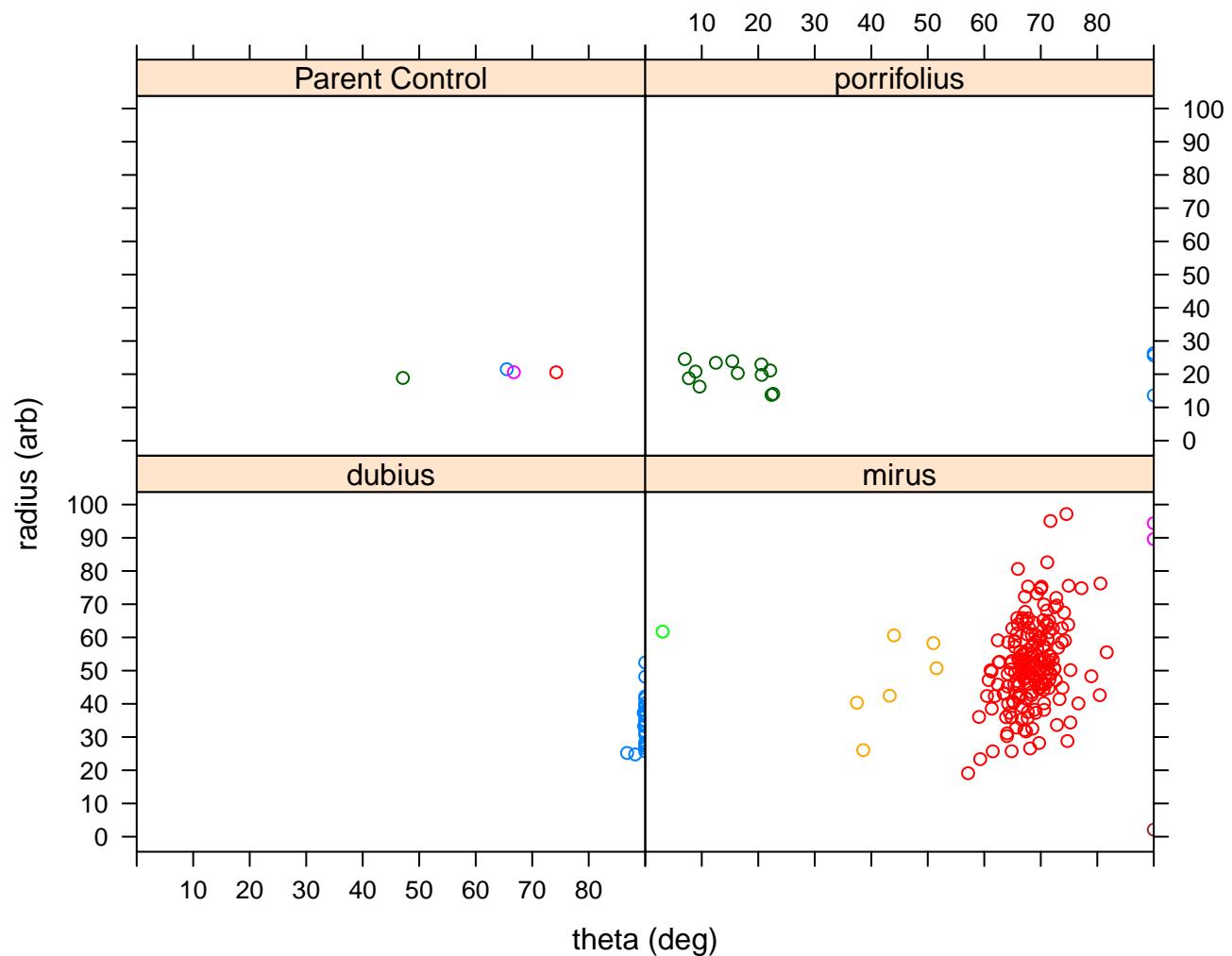
Bad_Spectrum	○	LLLL	○
HH	○	No_Aleles	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_contig14070_43 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○
LLLL	○		



V_2_5_contig14070_62 gDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

porrifolius

60
55
50
45
40
35
30
25
20
15
10
5
0

dubius

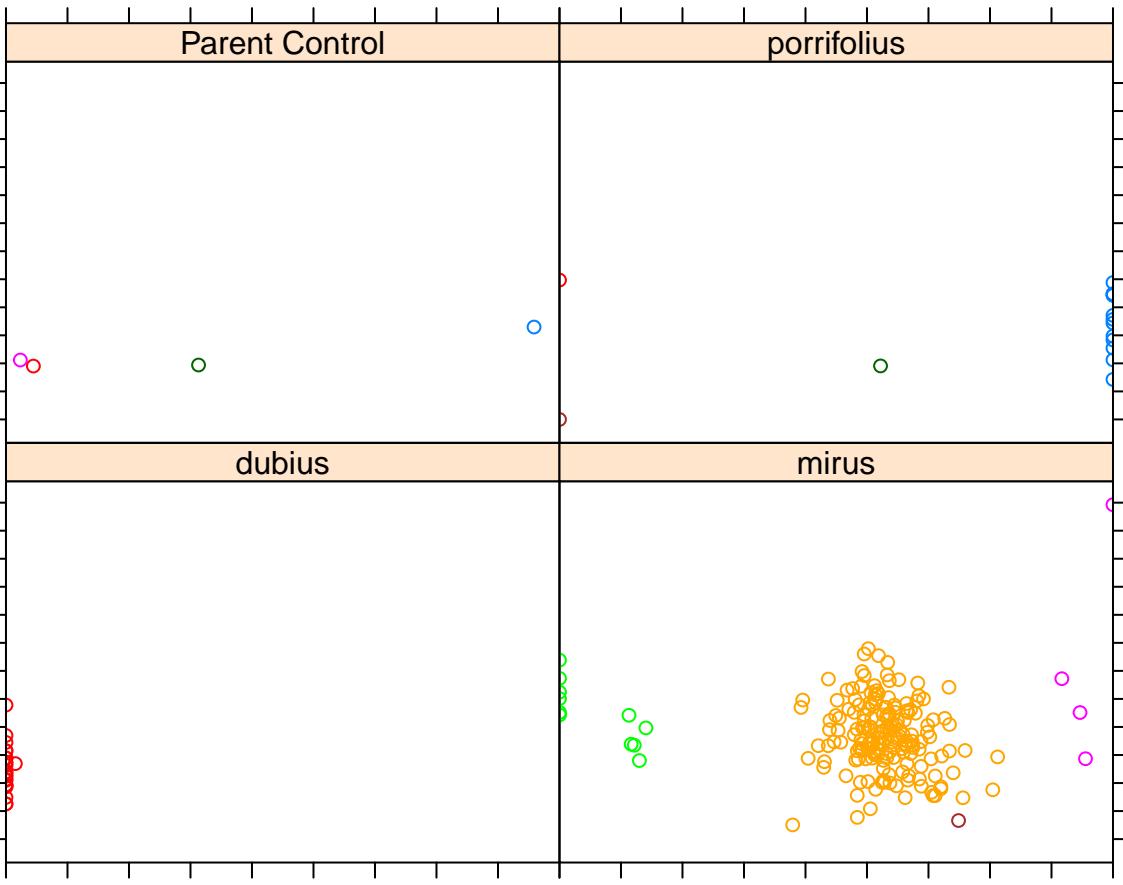
mirus

radius (arb)

60
55
50
45
40
35
30
25
20
15
10
5
0

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_contig14070_62 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LHHH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

70
60
50
40
30
20
10
0

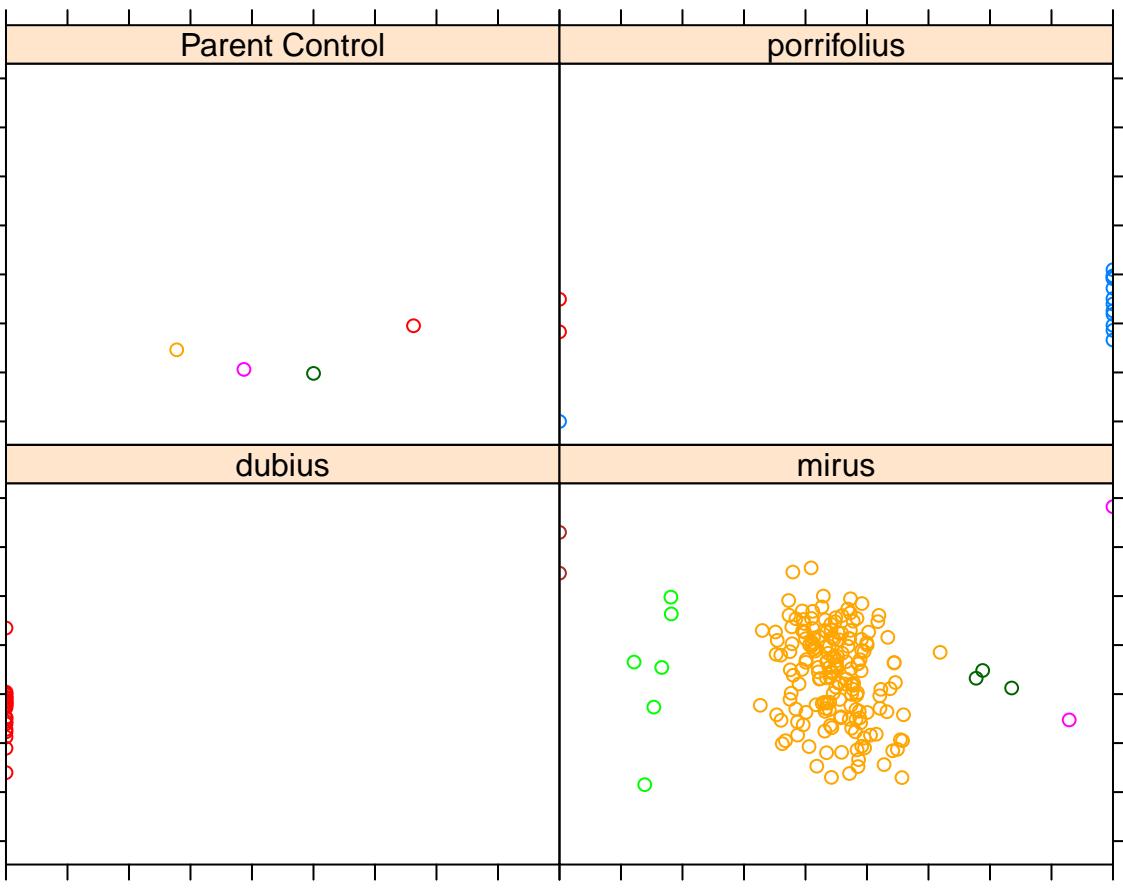
dubius

mirus

radius (arb)

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig00277_1843 gDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLL	○		○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

160
140
120
100
80
60
40
20
0

radius (arb)

dubius

mirus

160
140
120
100
80
60
40
20
0

10 20 30 40 50 60 70 80

theta (deg)

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLL	○		○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

160
140
120
100
80
60
40
20
0

radius (arb)

dubius

mirus

160
140
120
100
80
60
40
20
0

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLL	○		○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

160
140
120
100
80
60
40
20
0

radius (arb)

dubius

mirus

160
140
120
100
80
60
40
20
0

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLL	○		○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

160
140
120
100
80
60
40
20
0

radius (arb)

dubius

mirus

160
140
120
100
80
60
40
20
0

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLL	○		○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

160
140
120
100
80
60
40
20
0

radius (arb)

dubius

mirus

160
140
120
100
80
60
40
20
0

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLL	○		○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

160
140
120
100
80
60
40
20
0

radius (arb)

dubius

mirus

160
140
120
100
80
60
40
20
0

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLL	○		○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

160
140
120
100
80
60
40
20
0

radius (arb)

dubius

mirus

160
140
120
100
80
60
40
20
0

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLL	○		○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

160
140
120
100
80
60
40
20
0

radius (arb)

dubius

mirus

160
140
120
100
80
60
40
20
0

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLL	○		○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

160
140
120
100
80
60
40
20
0

radius (arb)

dubius

mirus

160
140
120
100
80
60
40
20
0

V_2_5_isotig00277_1843 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LHHH	○	PM2_1_2	○
LL	○	PM2_2_1	○
LLLL	○		

10 20 30 40 50 60 70 80

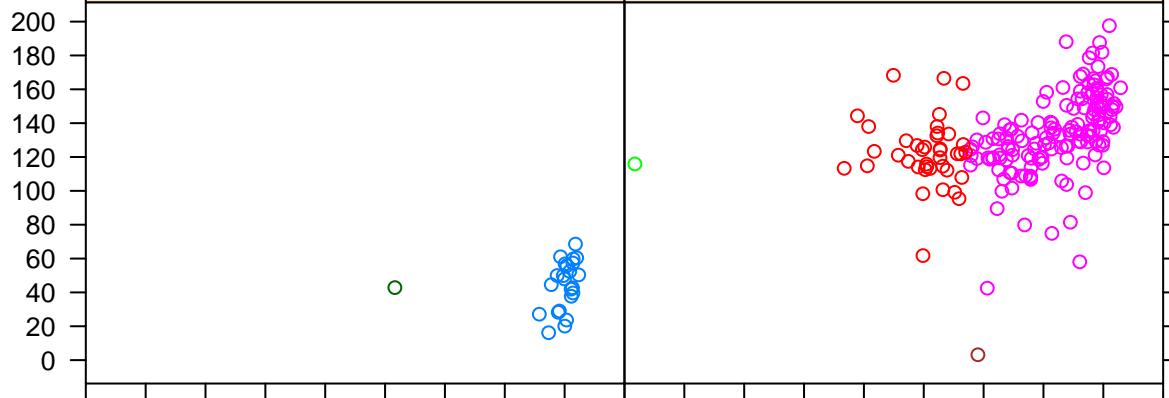
Parent Control

porrifolius

200
180
160
140
120
100
80
60
40
20
0

dubius

mirus



theta (deg)

V_2_5_isotig00348_2103 gDNA

Call

HH	○	PM3_1_2	○
HHHH	○	PM3_2_1	○
LL	○	PM4	○
LLLL	○	PM5	○
PM3_1_1	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

90
80
70
60
50
40
30

dubius

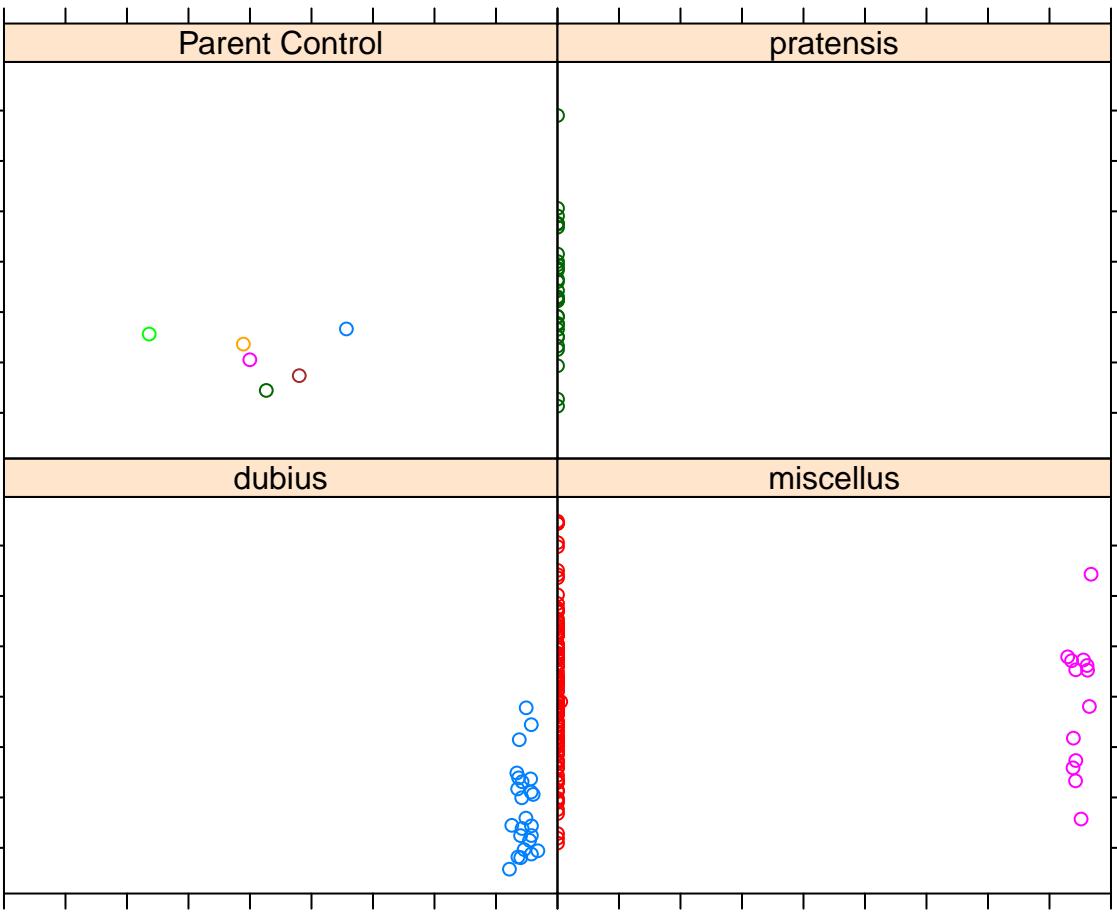
miscellus

radius (arb)

90
80
70
60
50
40
30

10 20 30 40 50 60 70 80

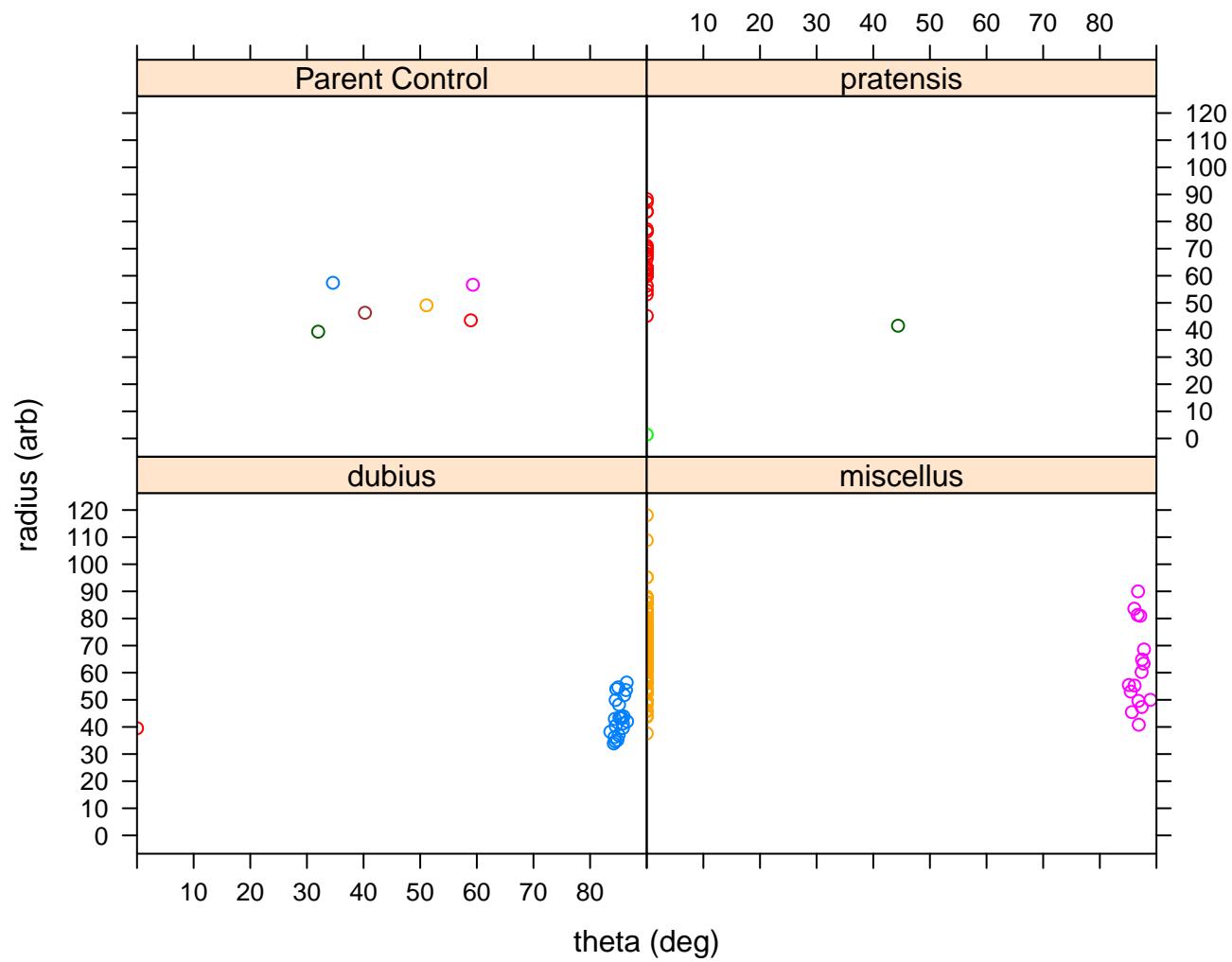
theta (deg)



V_2_5_isotig00348_2103 cDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLLL	○	PM5	○
No Alleles	○	PM6	○



V_2_5_isotig00348_4041 gDNA

Call

HH	○	PM3_1_2	○
HHHH	○	PM3_2_1	○
LL	○	PM4	○
LLLL	○	PM5	○
PM3_1_1	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

140
130
120
110
100
90
80
70
60
50
40
30
20
10

radius (arb)

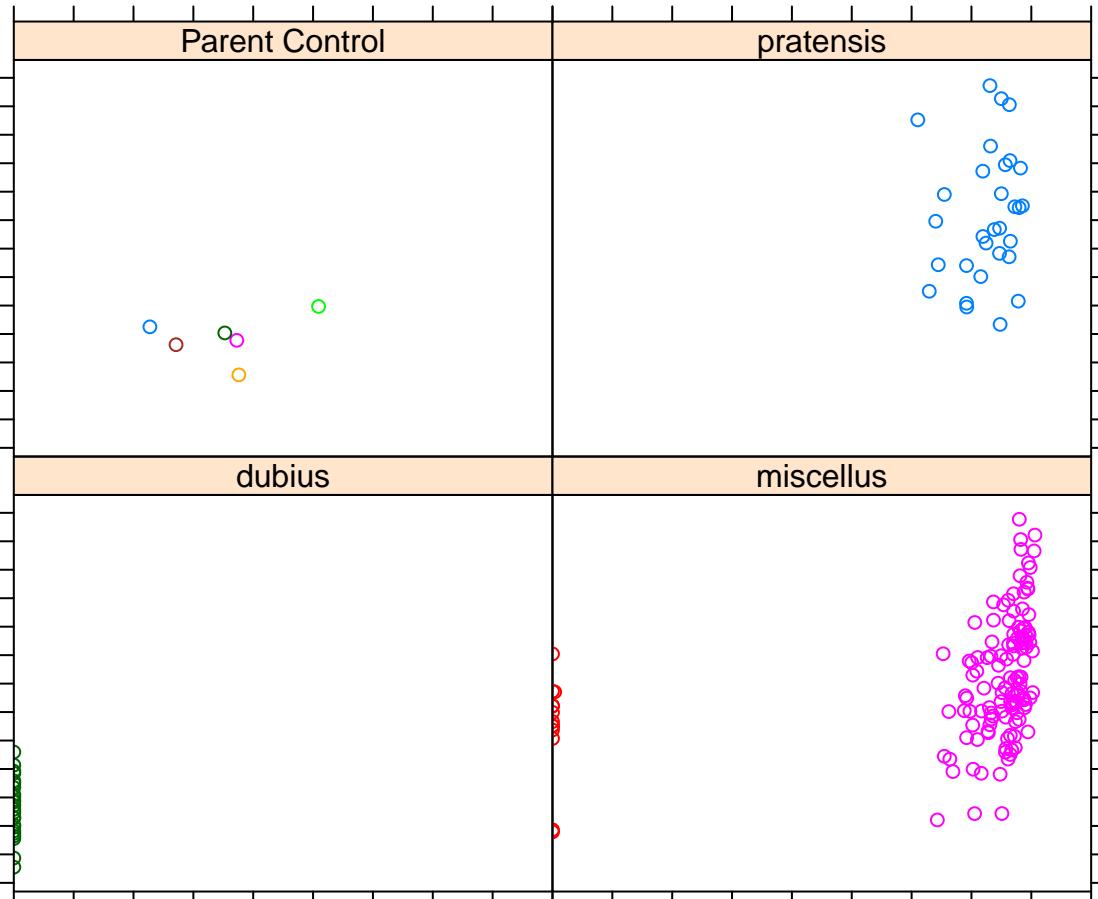
dubius

miscellus

140
130
120
110
100
90
80
70
60
50
40
30
20
10

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig00348_4041 cDNA

Call

HH	○	PM3_1_2	○
HHHH	○	PM3_2_1	○
LH	○	PM4	○
LL	○	PM5	○
LLLL	○	PM6	○
PM3_1_1	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

radius (arb)

140
120
100
80
60
40
20

dubius

miscellus

10 20 30 40 50 60 70 80

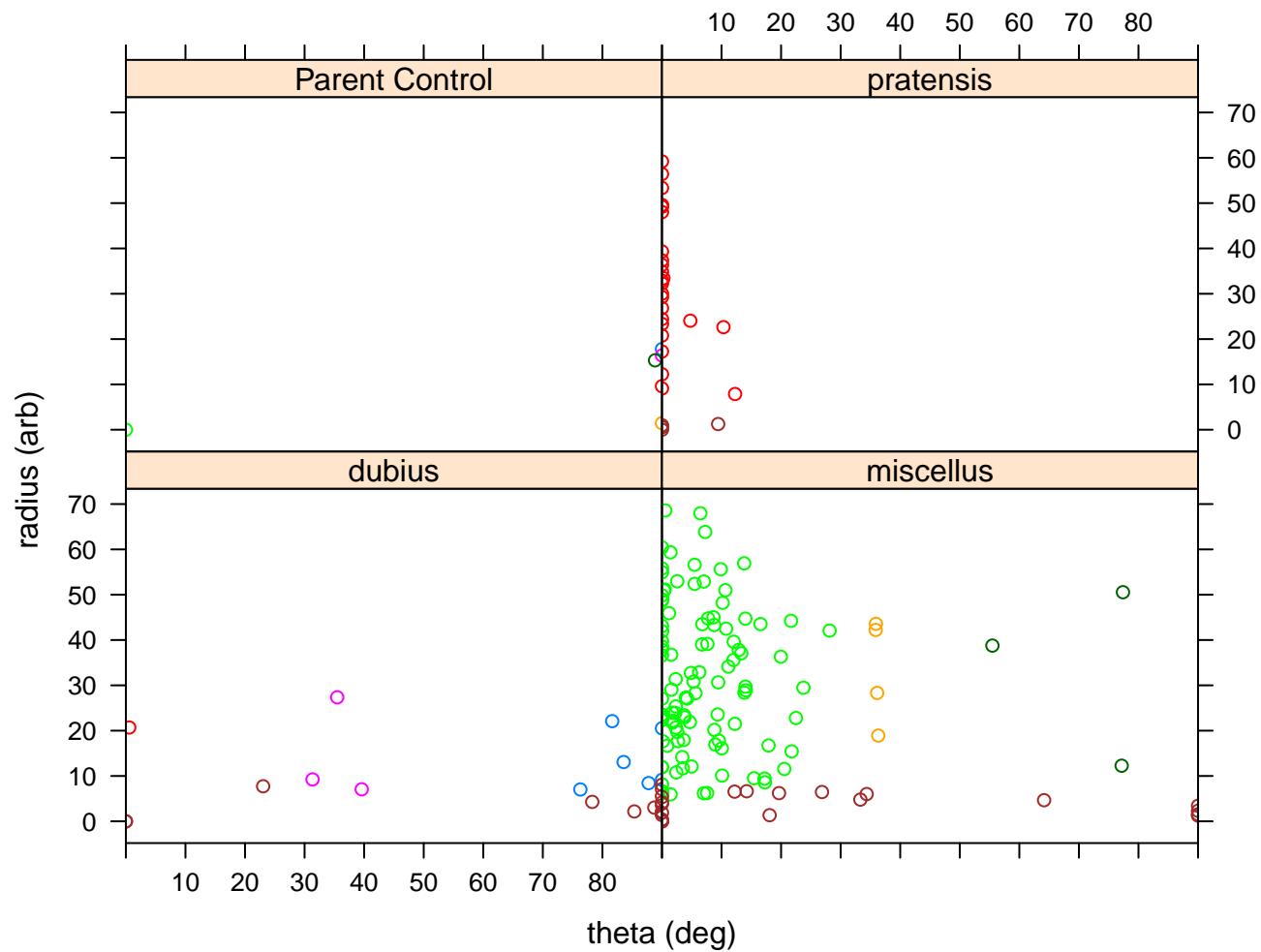
theta (deg)

140
120
100
80
60
40
20

V_2_5_isotig00424_594 cDNA

Call

HH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○
No_Alleles	○		



V_2_5_isotig00449_2109 gDNA

Call

HH	○	PM1	○
HHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLLL	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

120
110
100
90
80
70
60
50
40
30
20
10
0

radius (arb)

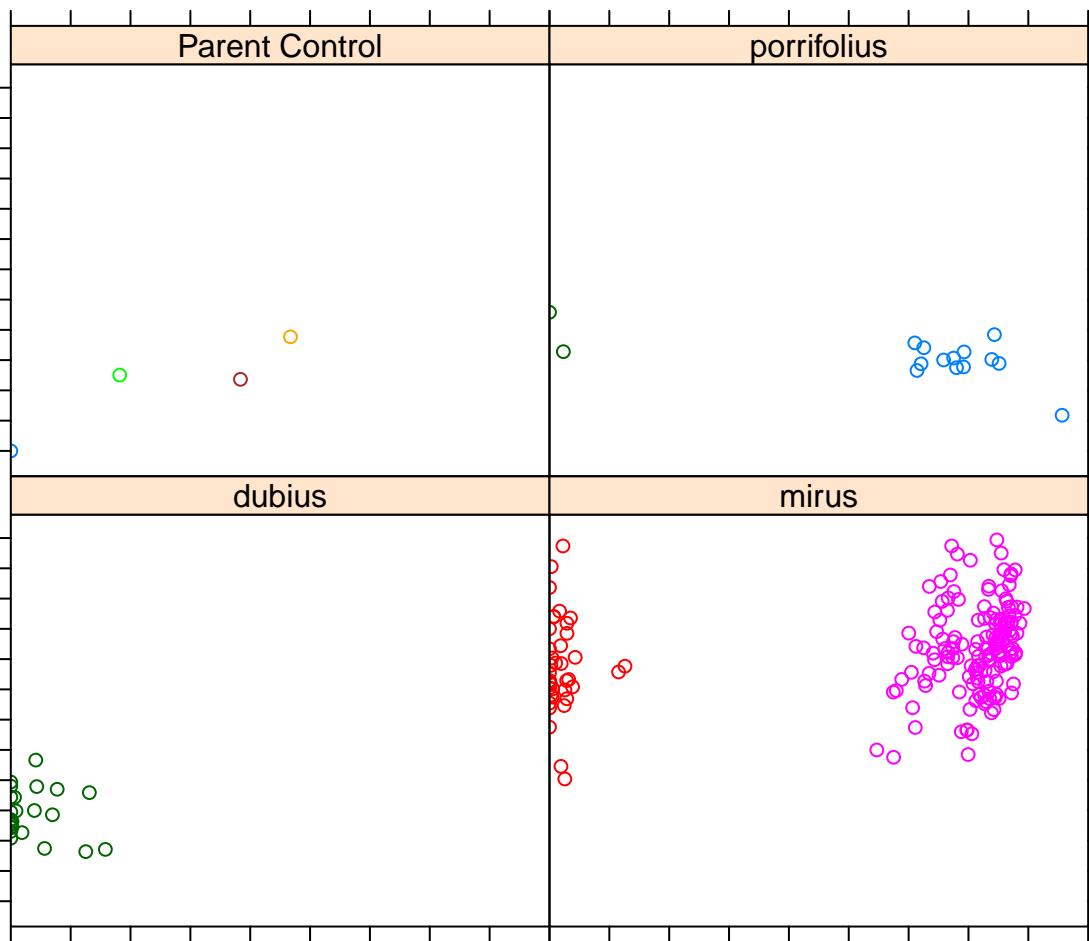
dubius

mirus

120
110
100
90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig00500_1255 cDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

45
40
35
30
25
20
15
10

dubius

miscellus

45
40
35
30
25
20
15
10

radius (arb)

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig01027_1332 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LHHH	○	PM2_1_2	○
LL	○	PM2_2_1	○
LLLH	○		

10 20 30 40 50 60 70 80

Parent Control

porrifolius

110
100
90
80
70
60
50
40
30
20
10
0

radius (arb)

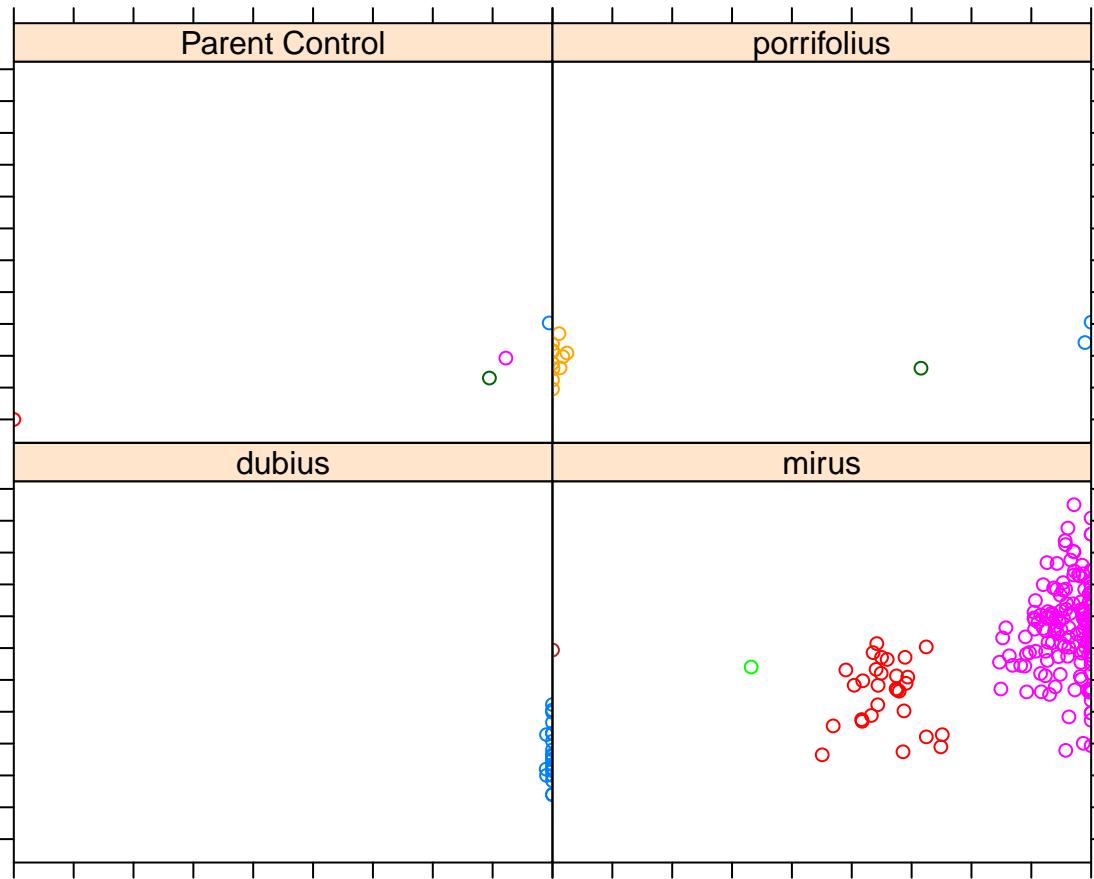
dubius

mirus

110
100
90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig01027_1332 cDNA

Call

Bad_Spectrum	LLHH	○	○
HH	LLLH	○	○
HHHH	PM1	○	○
LH	PM2_1_1	○	○
LHHH	PM2_1_2	○	○
LL	PM2_2_1	○	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

120
100
80
60
40
20
0

dubius

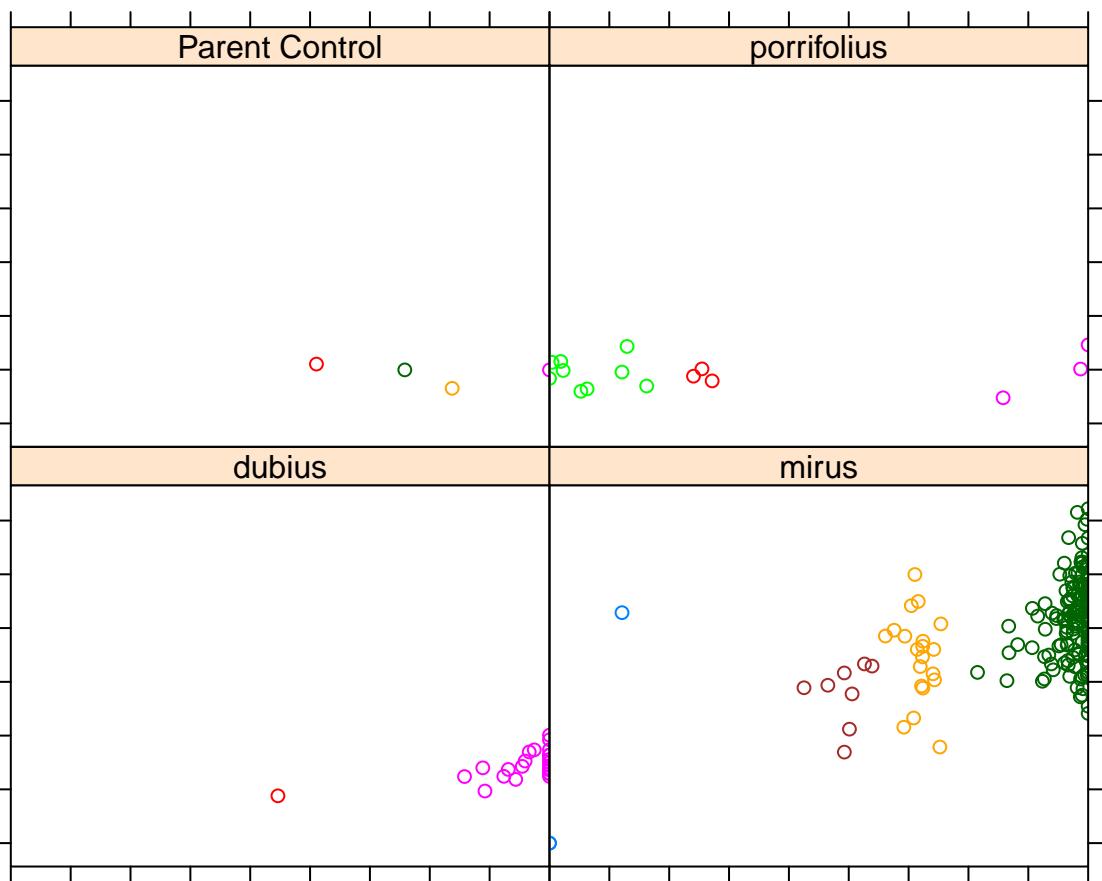
mirus

120
100
80
60
40
20
0

10 20 30 40 50 60 70 80

theta (deg)

radius (arb)



V_2_5_isotig01150_297 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

50
45
40
35
30
25
20
15
10
5

dubius

mirus

50
45
40
35
30
25
20
15
10
5

10 20 30 40 50 60 70 80

theta (deg)

radius (arb)

V_2_5_isotig01150_297 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LHHH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

90
80
70
60
50
40
30
20
10
0

dubius

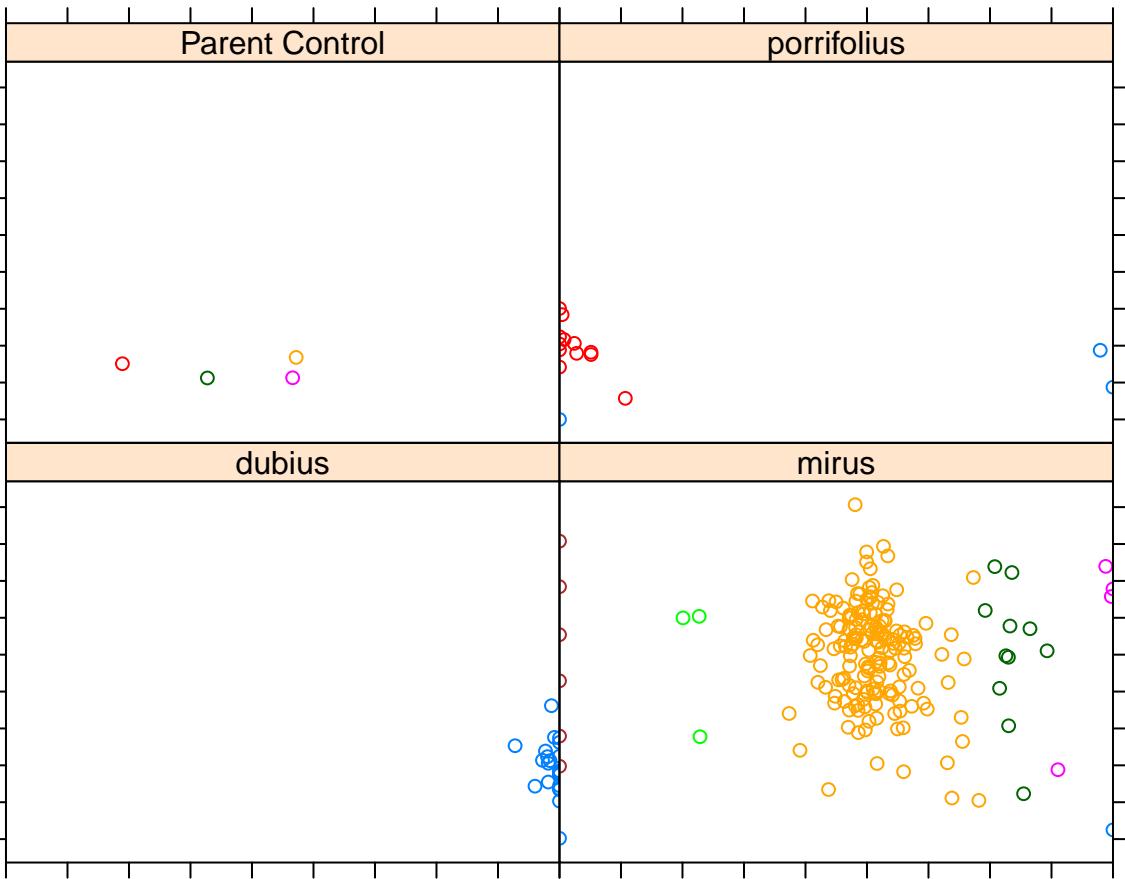
mirus

90
80
70
60
50
40
30
20
10
0

radius (arb)

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig01150_74 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		

10 20 30 40 50 60 70 80

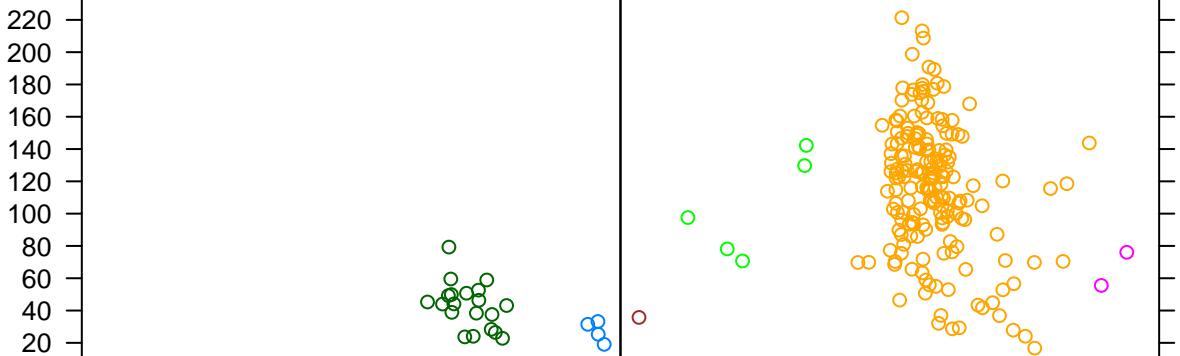
Parent Control

porrifolius

220
200
180
160
140
120
100
80
60
40
20

dubius

mirus



theta (deg)

V_2_5_isotig01150_74 cDNA

Call

HH	○	LLLH	○
HHHH	○	LLLL	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

260
240
220
200
180
160
140
120
100
80
60
40
20

dubius

mirus

260
240
220
200
180
160
140
120
100
80
60
40
20

10 20 30 40 50 60 70 80

theta (deg)

radius (arb)

V_2_5_isotig01241_269 gDNA

Call

Bad_Spectrum	LLLL
HH	No_Alleles
HHHH	PM3_1_1
LH	PM3_1_2
LHHH	PM3_2_1
LL	PM4
LLHH	PM5
LLLH	PM6

10 20 30 40 50 60 70 80

Parent Control

pratensis

45
40
35
30
25
20
15
10
5
0

dubius

miscellus

radius (arb)

45
40
35
30
25
20
15
10
5
0

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig01241_269 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

60
50
40
30
20
10
0

dubius

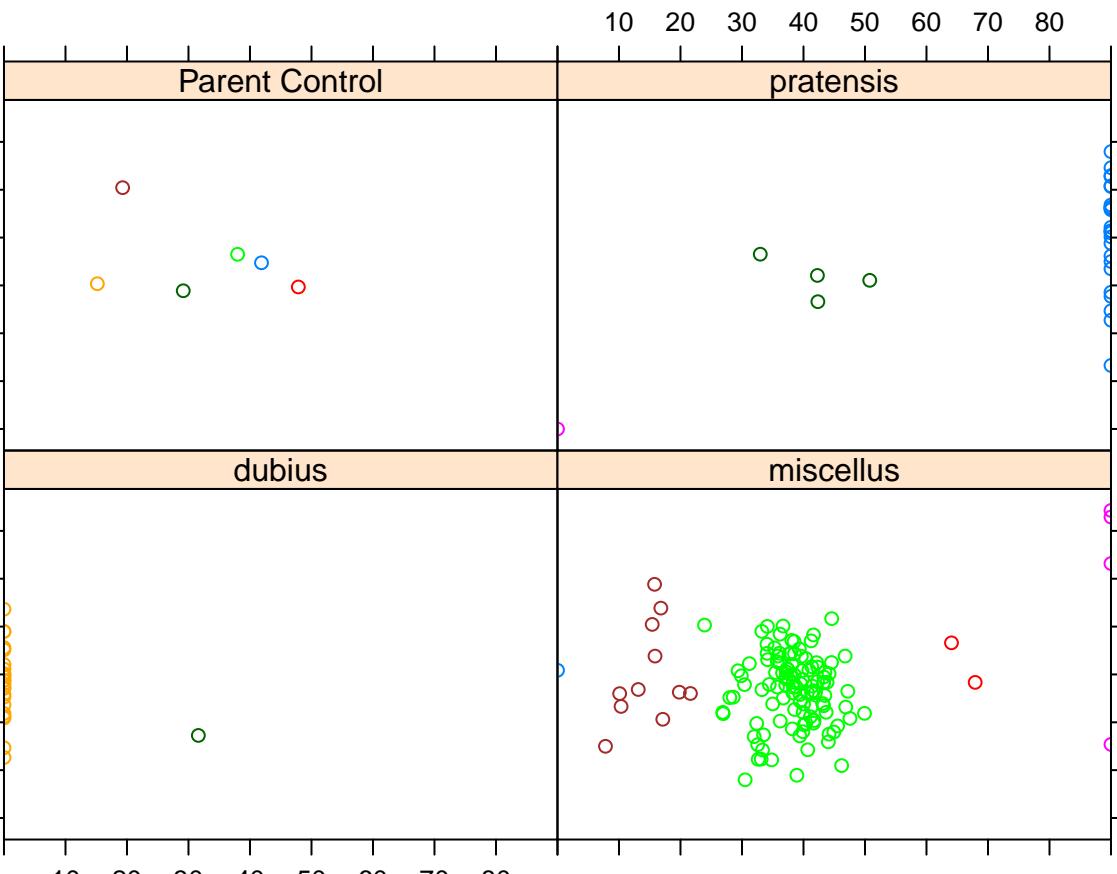
miscellus

60
50
40
30
20
10
0

radius (arb)

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig01859_224 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

90
80
70
60
50
40
30
20
10
0

dubius

mirus

radius (arb)

90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig01859_224 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

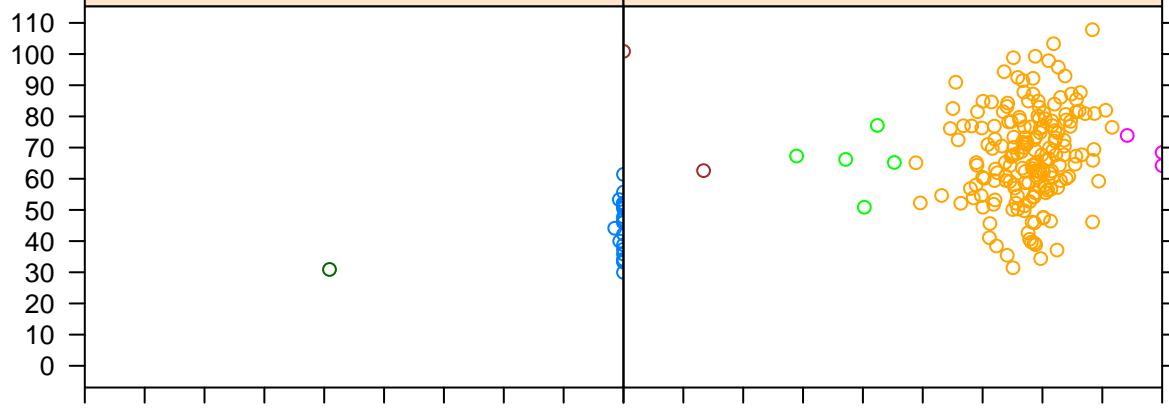
Parent Control

porrifolius

110
100
90
80
70
60
50
40
30
20
10
0

dubius

mirus



theta (deg)

V_2_5_isotig01982_127 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

100
90
80
70
60
50
40
30
20

dubius

miscellus

radius (arb)

100
90
80
70
60
50
40
30
20

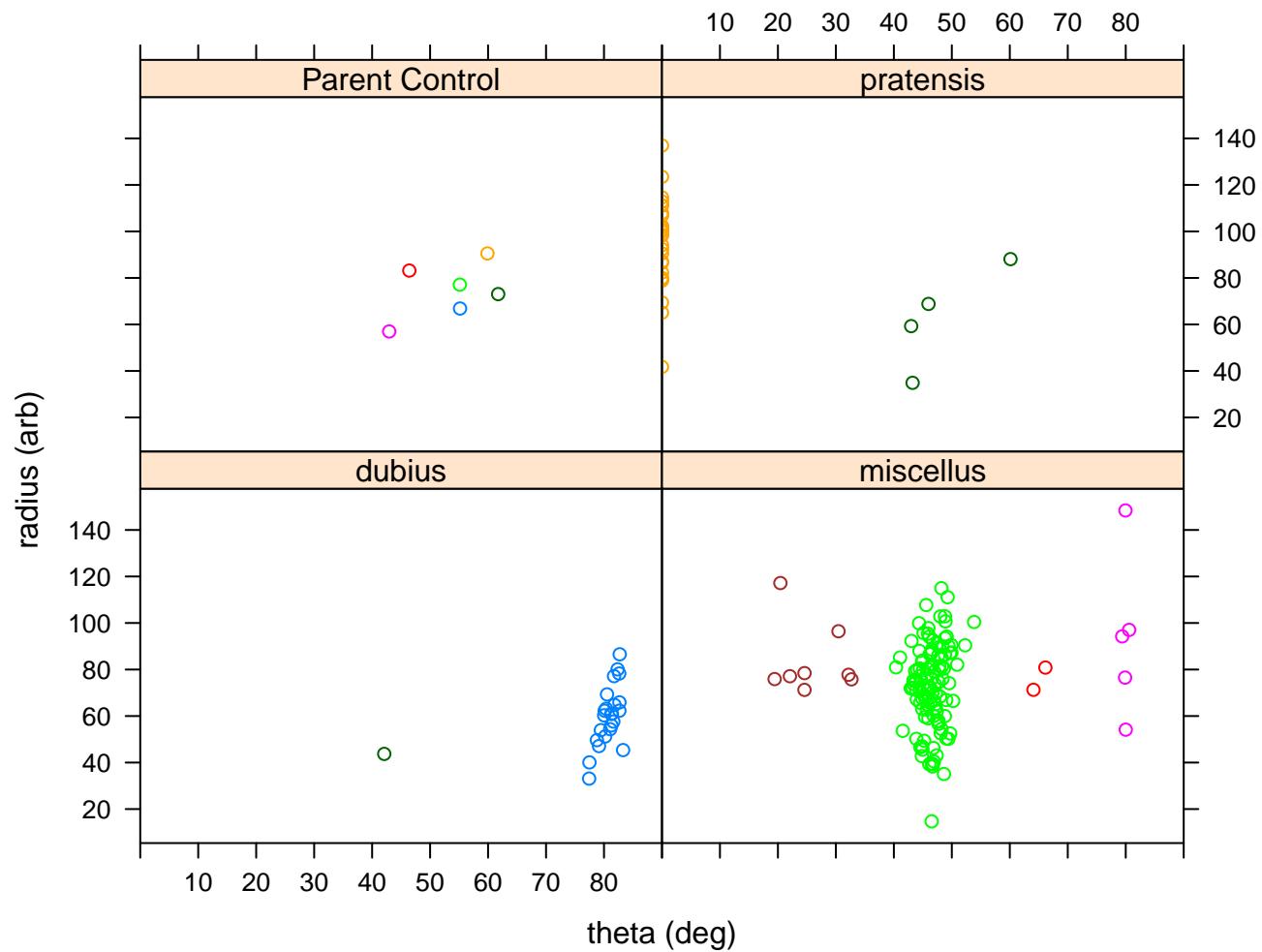
10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig01982_127 cDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LHHH	○	PM4	○
LL	○	PM5	○
LLHH	○	PM6	○
LLLH	○		



V_2_5_isotig01982_81 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

radius (arb)

70
65
60
55
50
45
40
35
30
25
20
15

dubius

miscellus

70
65
60
55
50
45
40
35
30
25
20
15

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig01982_81 cDNA

Call

HH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

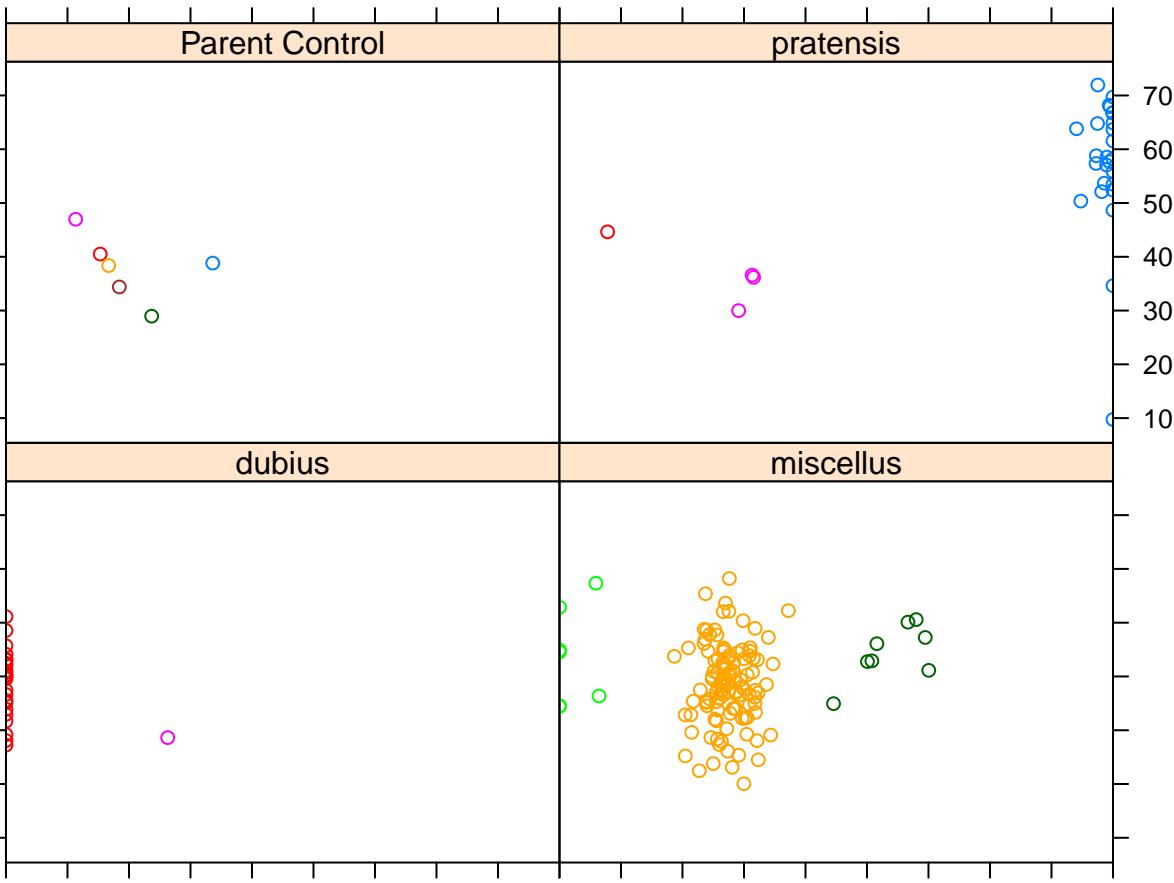
pratensis

radius (arb)

dubius

miscellus

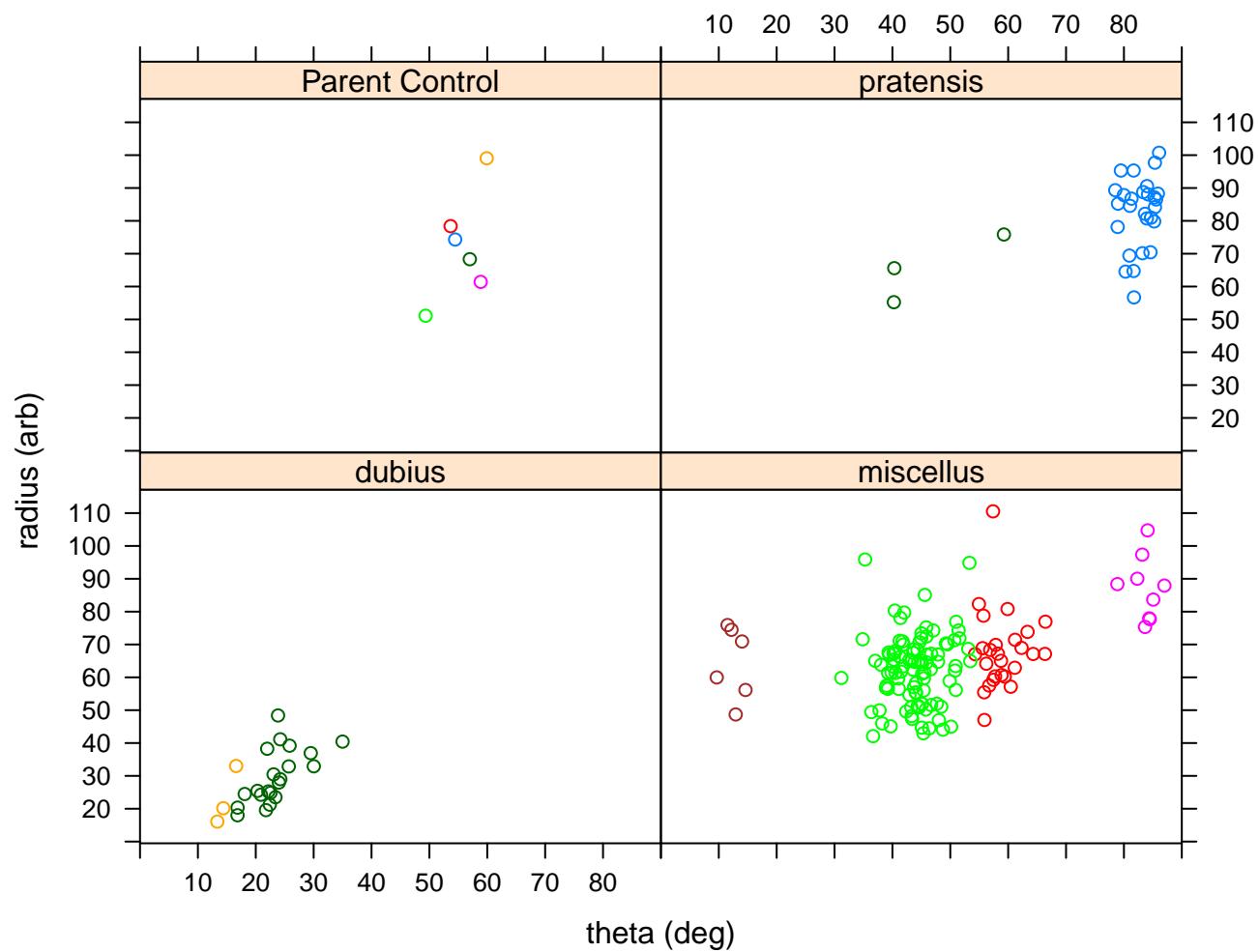
theta (deg)



V_2_5_isotig02086_413 gDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LHHH	○	PM4	○
LL	○	PM5	○
LLHH	○	PM6	○
LLLL	○		



V_2_5_isotig02086_413 cDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

110
100
90
80
70
60
50
40
30
20

dubius

miscellus

110
100
90
80
70
60
50
40
30
20

10 20 30 40 50 60 70 80

theta (deg)

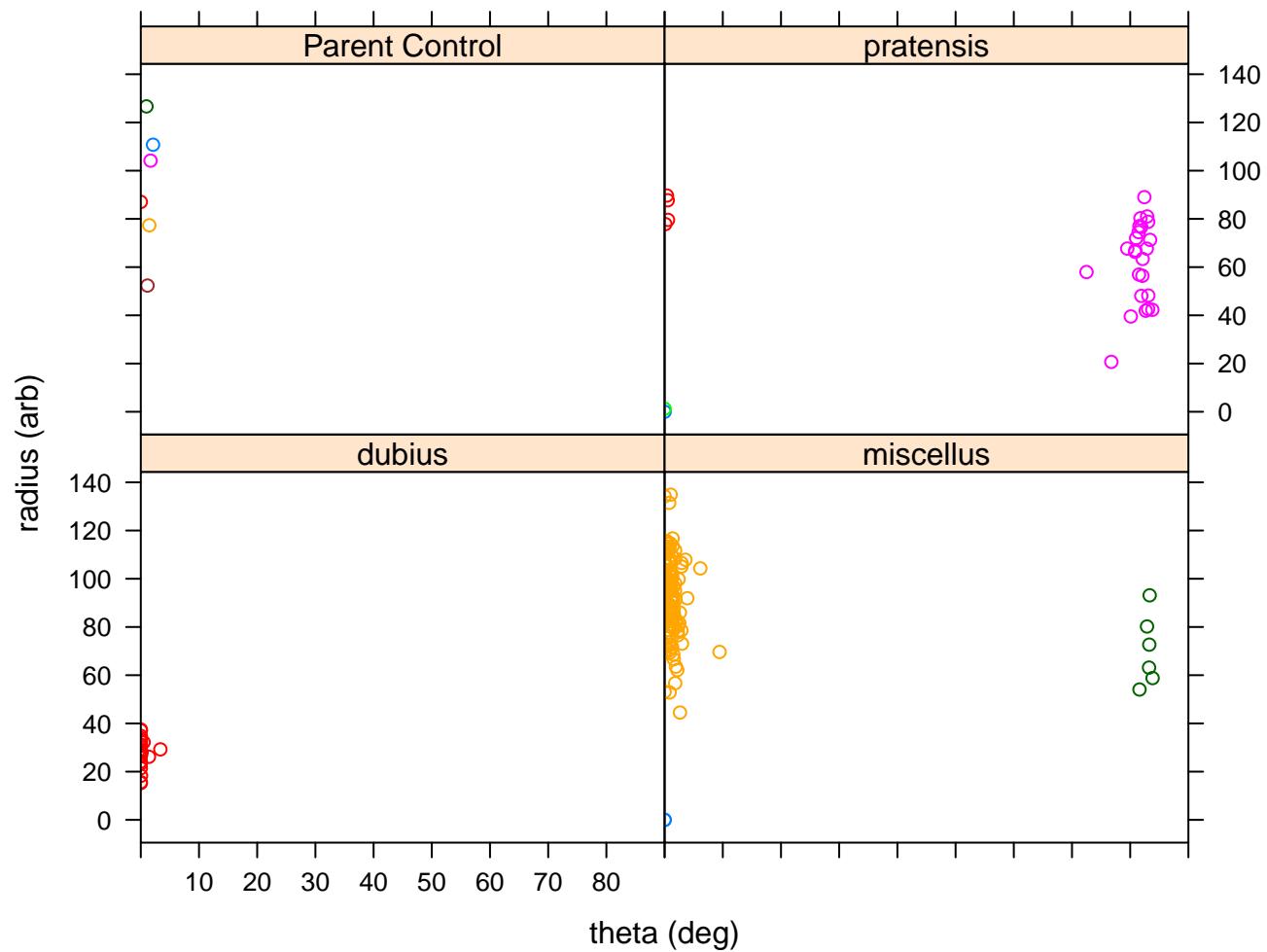
radius (arb)

V_2_5_isotig02118_68 cDNA

Call

Bad_Spectrum	○	PM3_1_1	○
HH	○	PM3_1_2	○
HHHH	○	PM3_2_1	○
LL	○	PM4	○
LLLL	○	PM5	○
No_Alleles	○	PM6	○

10 20 30 40 50 60 70 80



V_2_5_isotig02130_557 cDNA

Call

Bad Spectrum

1

10

LH

LL

LLHH

PM3 1 1

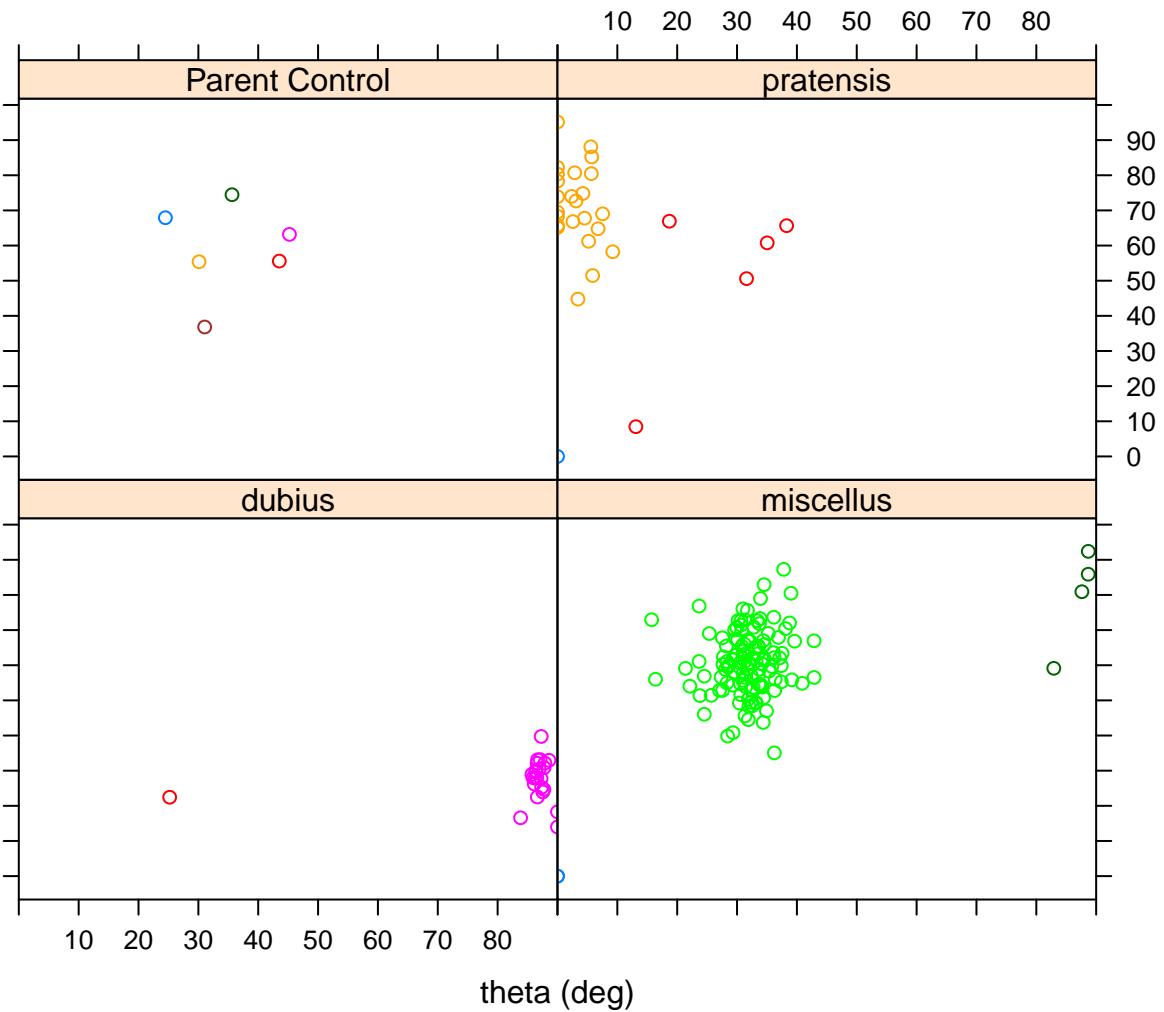
PM3 1 2

PM3-2-1

PM4

PM5

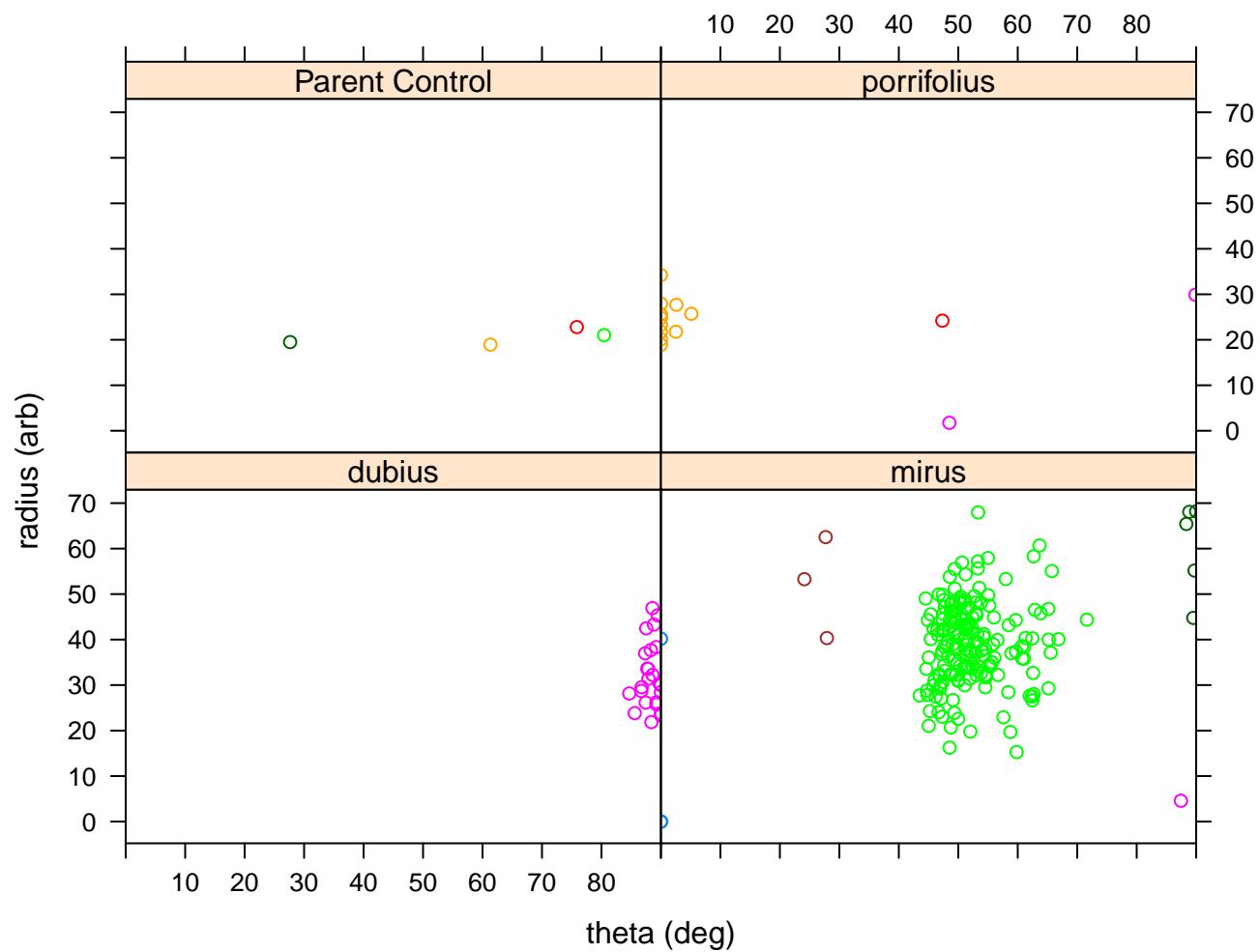
PM6



V_2_5_isotig02268_626 gDNA

Call

Bad_Spectrum	○	LLLL	○
HH	○	No_Aleles	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig02268_626 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

porrifolius

90
80
70
60
50
40
30
20
10

dubius

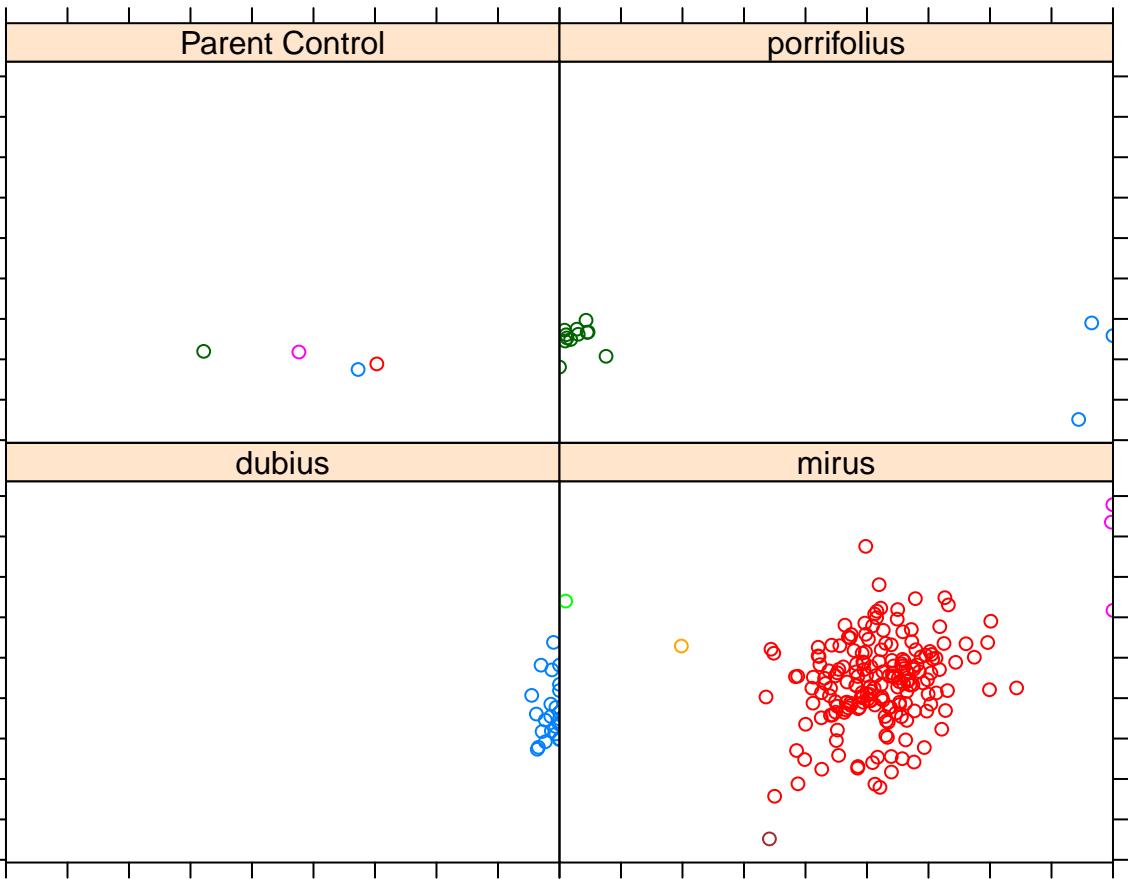
mirus

radius (arb)

90
80
70
60
50
40
30
20
10

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig02532_376 cDNA

Call

Bad_Spectrum	○	LL	○
HH	○	PM1	○
HHHH	○	PM2_1_1	○
LH	○	PM2_1_2	○
LHHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

radius (arb)

90
80
70
60
50
40
30
20
10
0

dubius

mirus

90

80

70

60

50

40

30

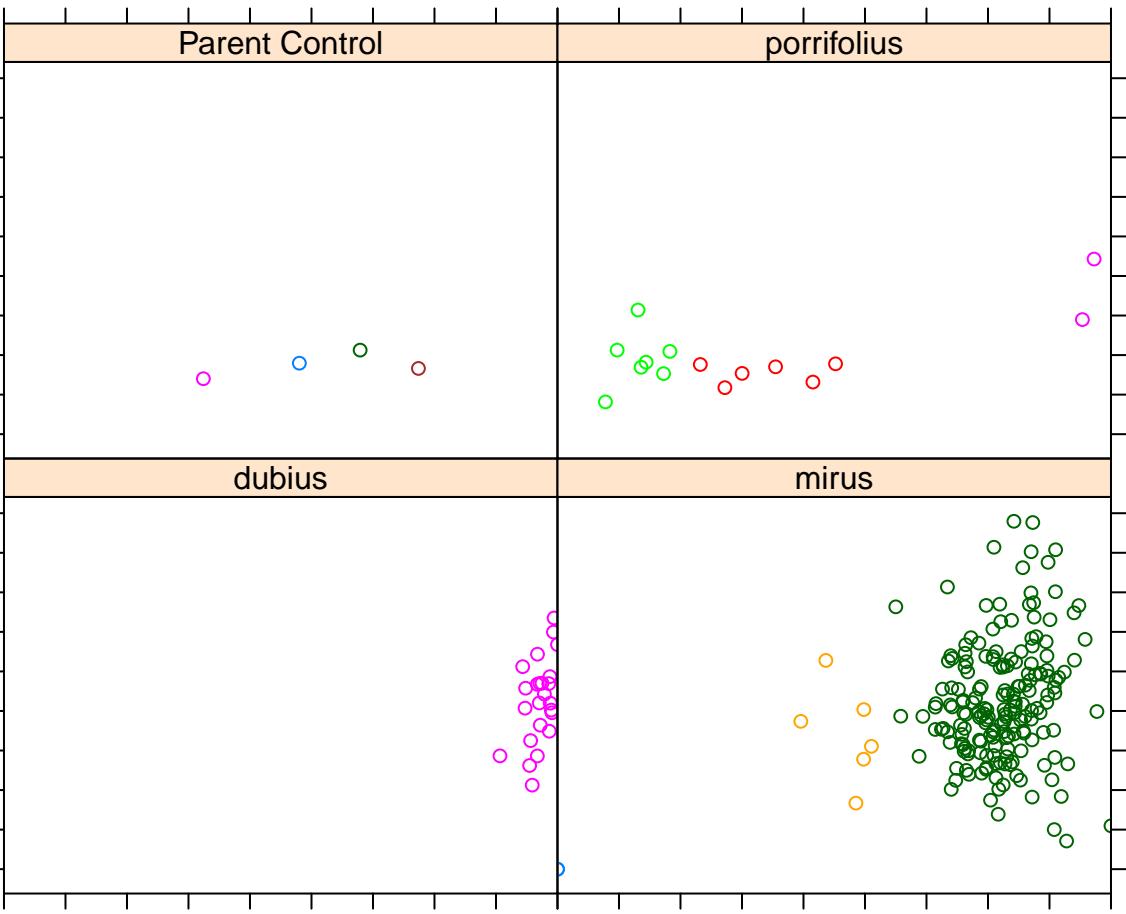
20

10

0

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig02559_334 gDNA

Call

HH	○	LLLH	○
HHHH	○	LLLL	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

90
80
70
60
50
40
30
20

dubius

mirus

radius (arb)

90

80

70

60

50

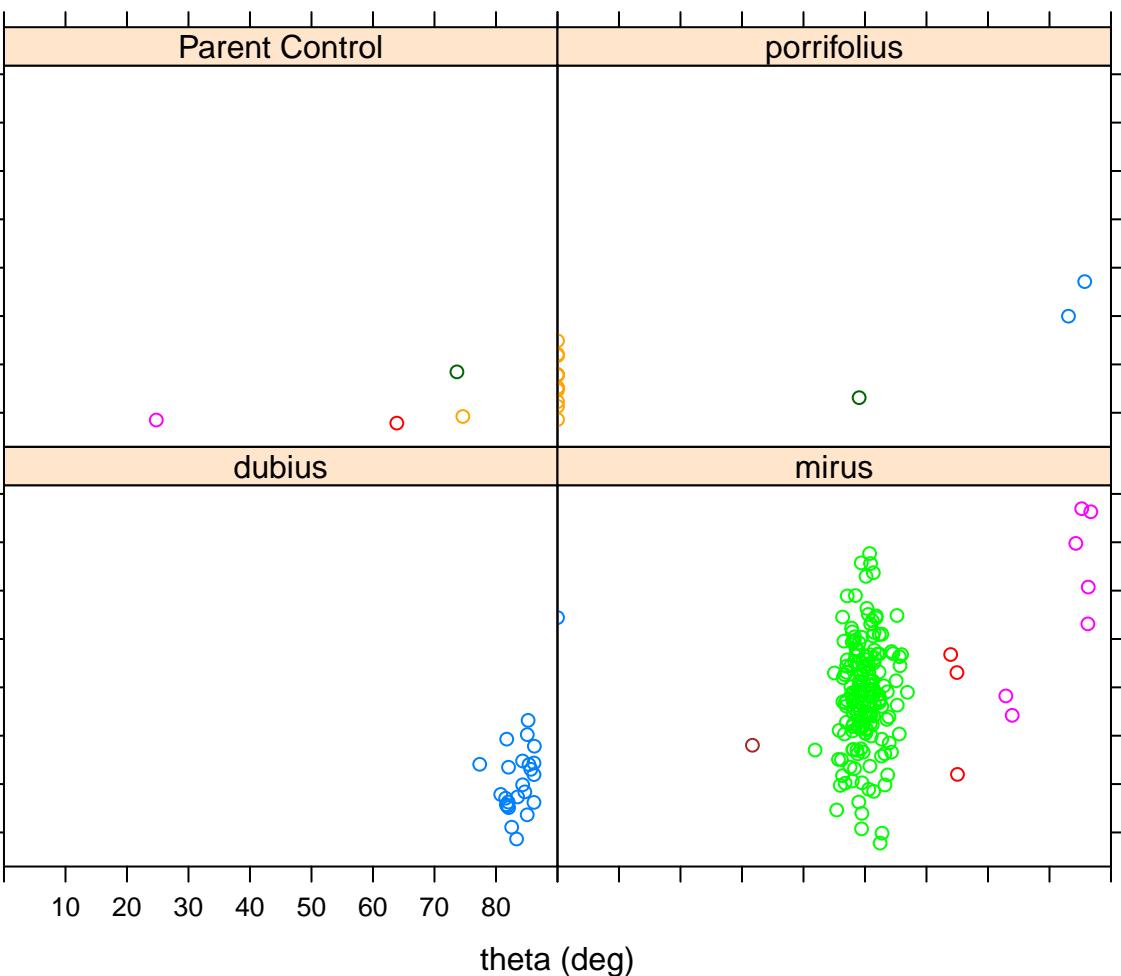
40

30

20

10 20 30 40 50 60 70 80

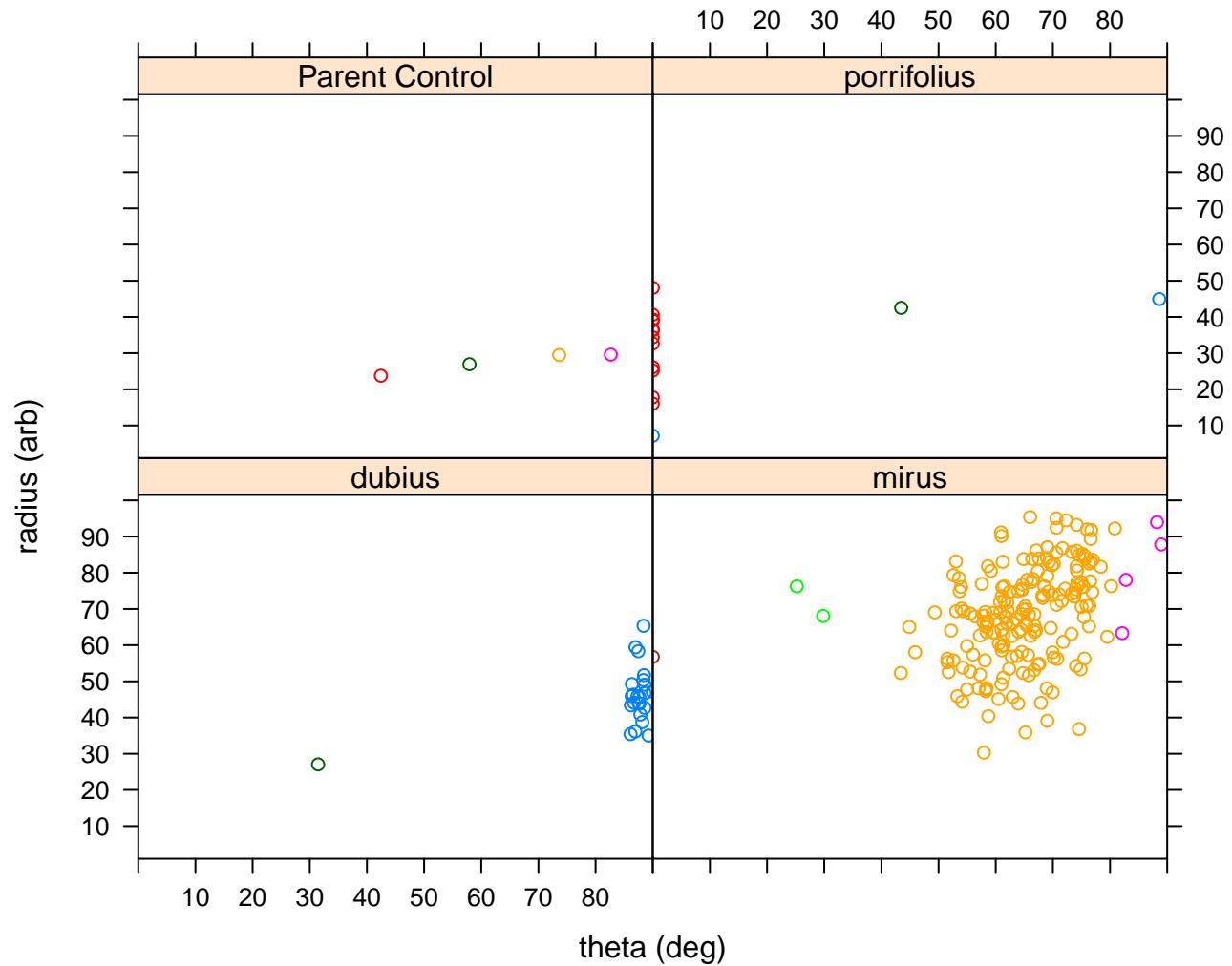
theta (deg)



V_2_5_isotig02559_334 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○



V_2_5_isotig02559_533 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

20
18
16
14
12
10
8
6
4
2
0

dubius

mirus

20
18
16
14
12
10
8
6
4
2
0

10 20 30 40 50 60 70 80

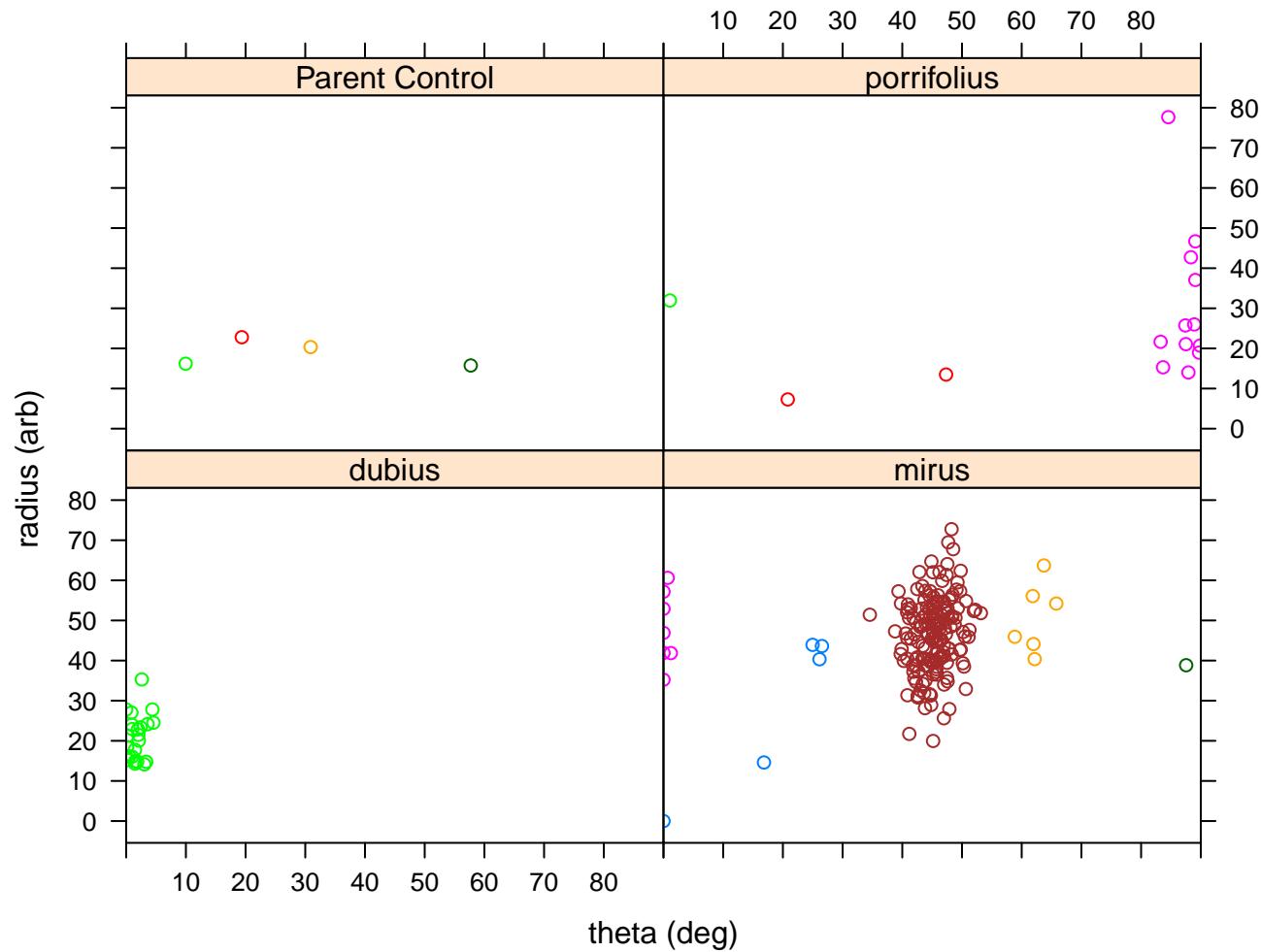
theta (deg)

radius (arb)

V_2_5_isotig02607_563 gDNA

Call

Bad_Spectrum	LLLH	Bad_Spectrum	LLLH
HH	LLLL	HH	LLLL
HHHH	PM1	HHHH	PM1
LH	PM2_1_1	LH	PM2_1_1
LHHH	PM2_1_2	LHHH	PM2_1_2
LL	PM2_2_1	LL	PM2_2_1
LLHH		LLHH	



V_2_5_isotig02607_563 cDNA

Call

HH	○	LLLL	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		

10 20 30 40 50 60 70 80

Parent Control

porrifolius

110
100
90
80
70
60
50
40
30
20
10
0

dubius

mirus

110
100
90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)

radius (arb)

V_2_5_isotig02607_602 cDNA

Call

HH	○	LLLL	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

240
220
200
180
160
140
120
100
80
60
40
20

dubius

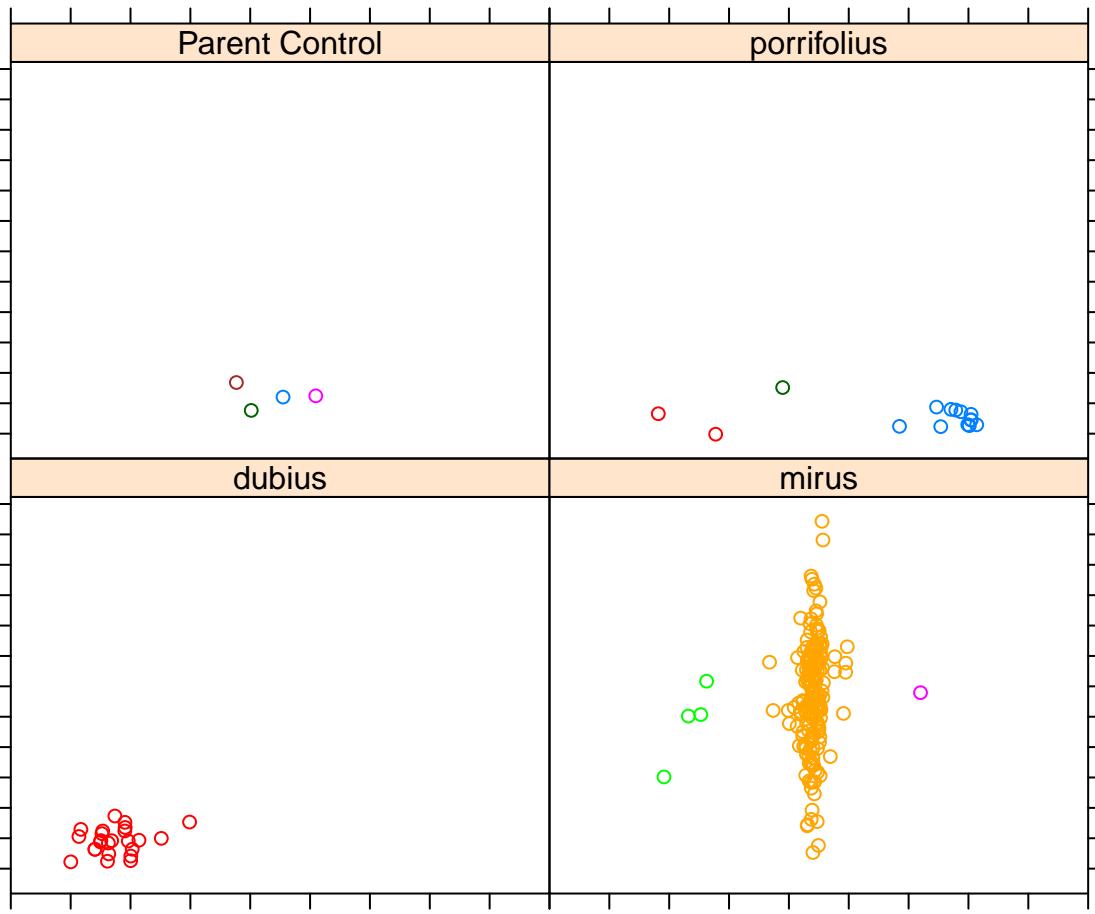
mirus

radius (arb)

240
220
200
180
160
140
120
100
80
60
40
20

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig02618_797 gDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

50
45
40
35
30
25
20
15
10
5

dubius

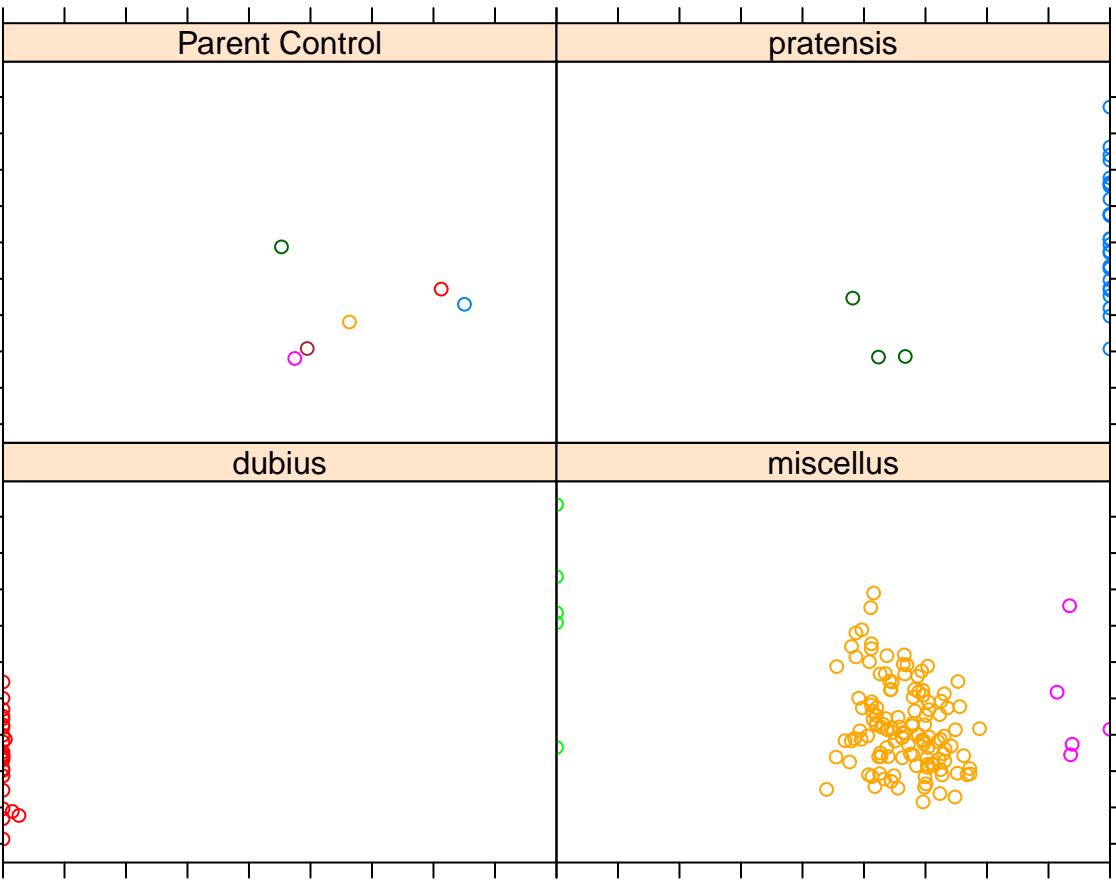
miscellus

50
45
40
35
30
25
20
15
10
5

radius (arb)

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig02618_797 cDNA

Call

HH	○	No_Aleles	○
LH	○	PM3_1_1	○
LHHH	○	PM3_1_2	○
LL	○	PM3_2_1	○
LLHH	○	PM4	○
LLLH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

160
140
120
100
80
60
40
20
0

dubius

miscellus

160
140
120
100
80
60
40
20
0

radius (arb)

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig02677_679 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		

10 20 30 40 50 60 70 80

Parent Control

porrifolius

60
55
50
45
40
35
30
25
20
15
10
5

dubius

mirus

60
55
50
45
40
35
30
25
20
15
10
5

10 20 30 40 50 60 70 80

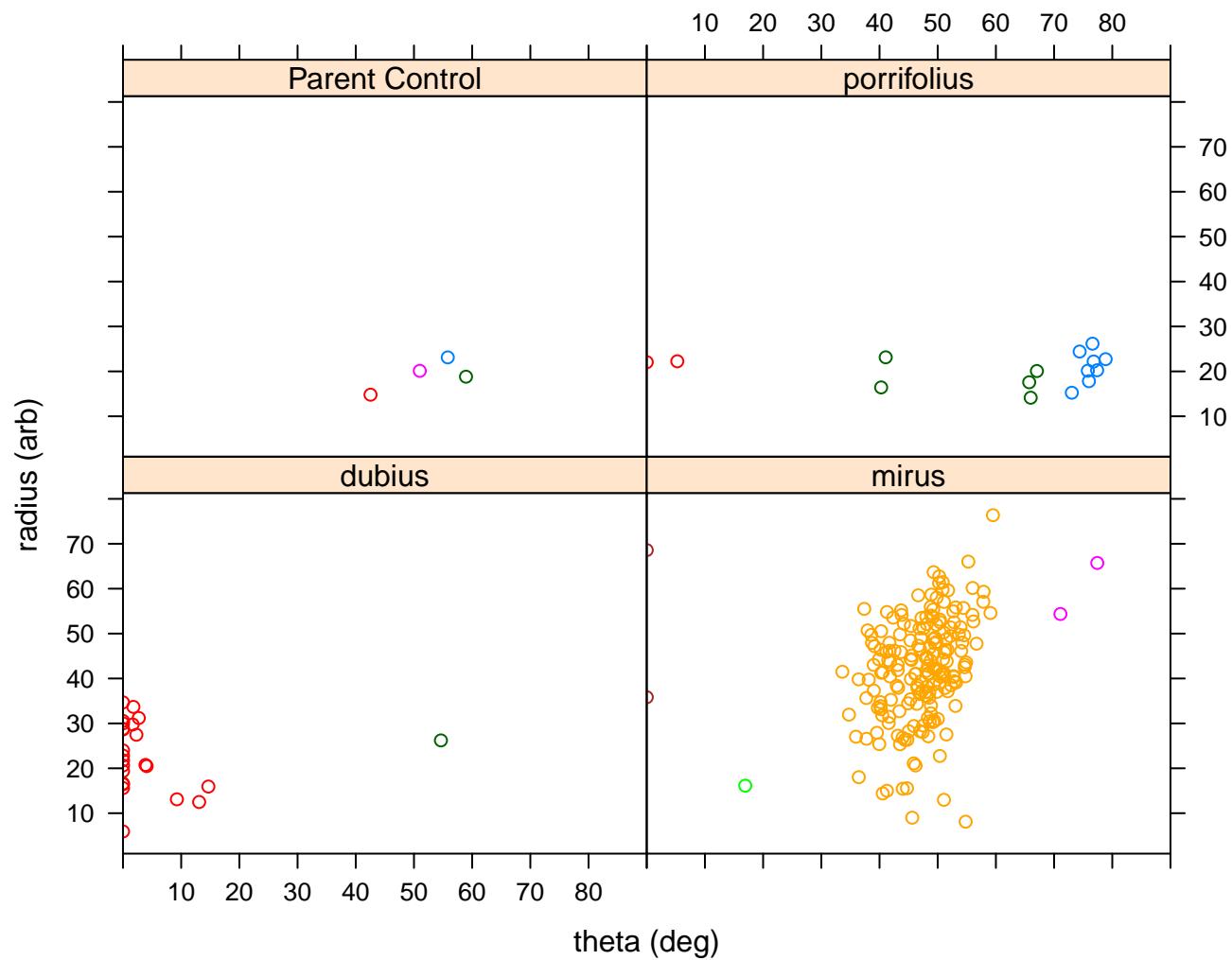
theta (deg)

radius (arb)

V_2_5_isotig02677_679 cDNA

Call

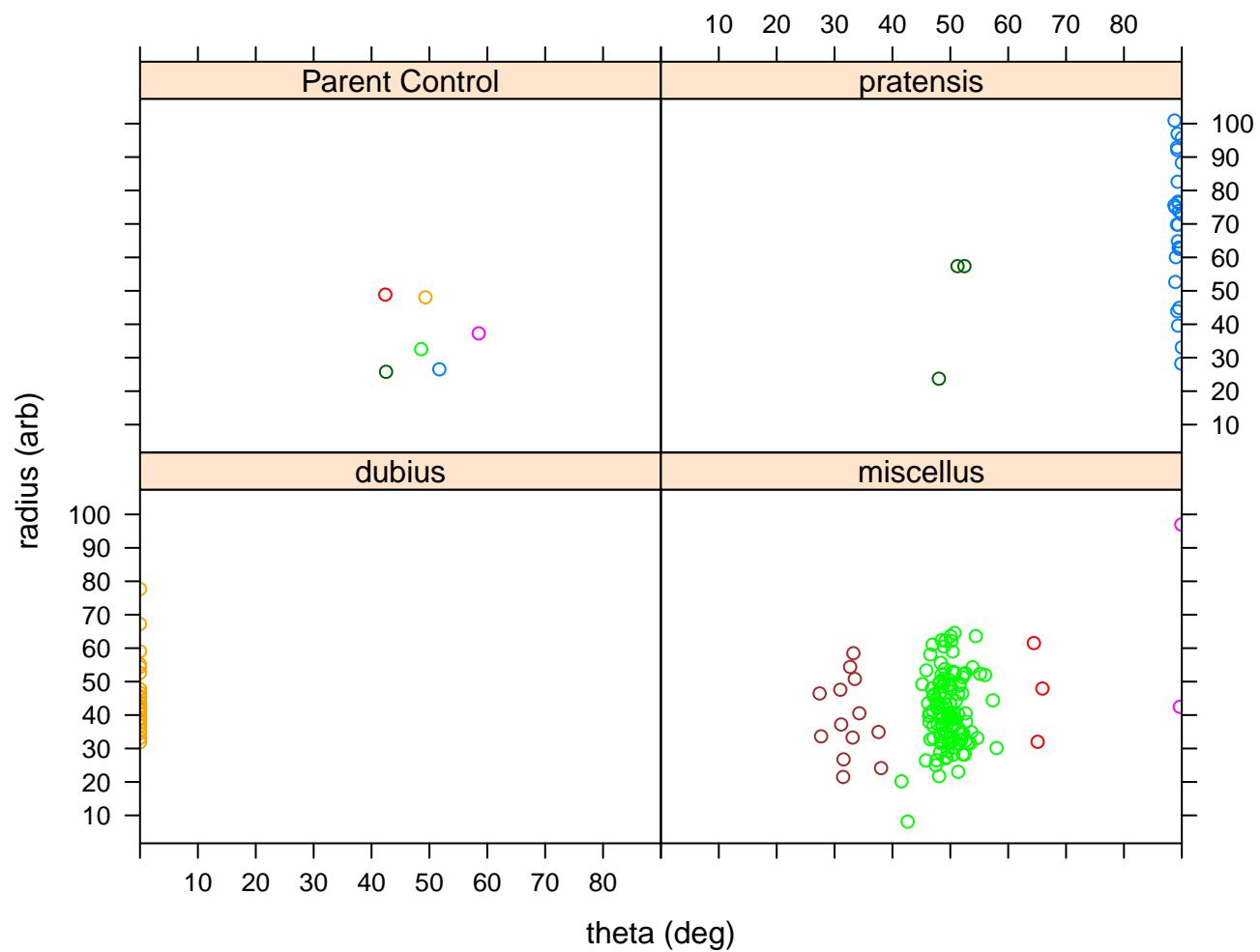
HH	○	LLLL	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig02818_278 gDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LHHH	○	PM4	○
LL	○	PM5	○
LLHH	○	PM6	○
LLLH	○		



V_2_5_isotig02818_278 cDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

radius (arb)

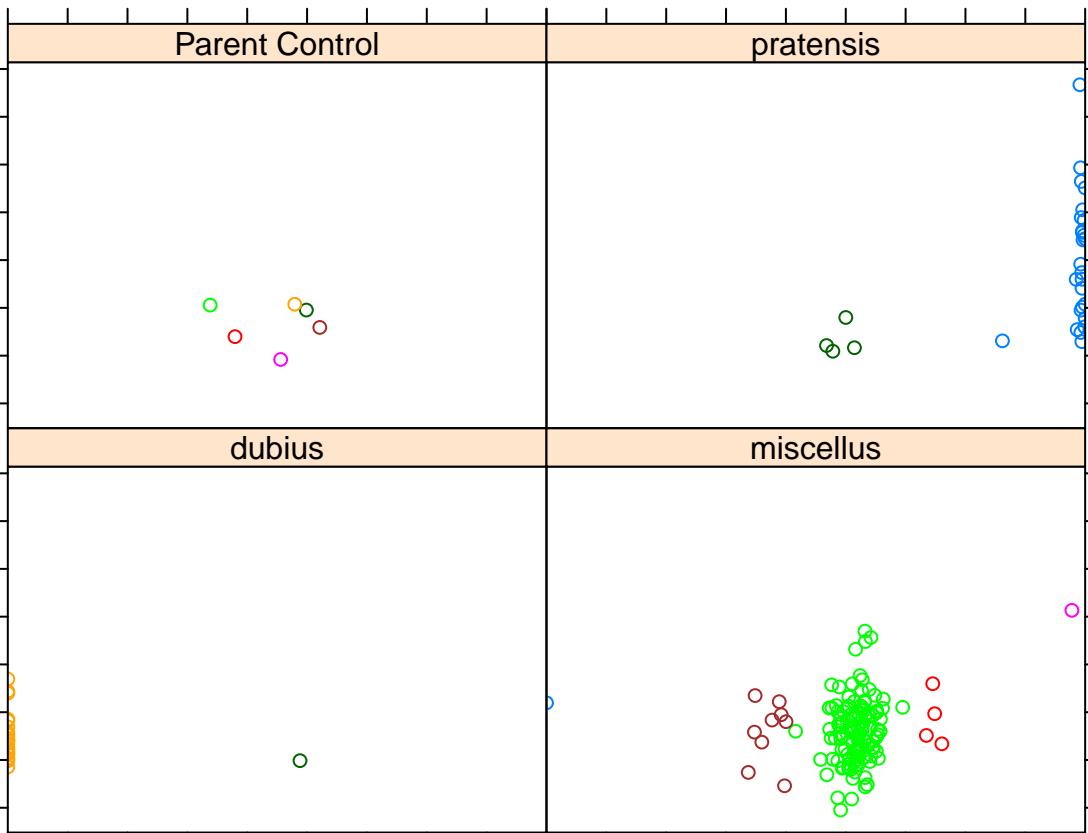
dubius

miscellus

140
120
100
80
60
40
20

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig02818_68 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

radius (arb)

80
70
60
50
40
30
20
10
0

dubius

miscellus

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig02818_68 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

100
90
80
70
60
50
40
30
20
10
0

dubius

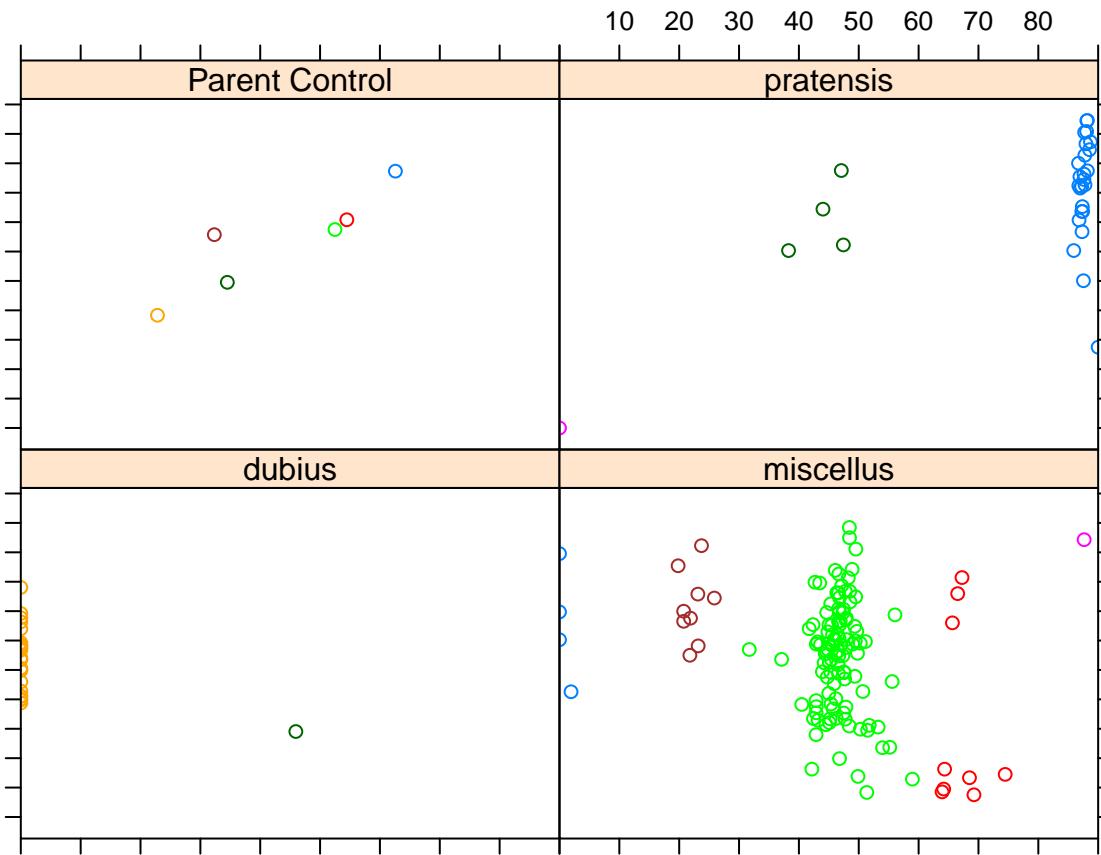
miscellus

radius (arb)

100
90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

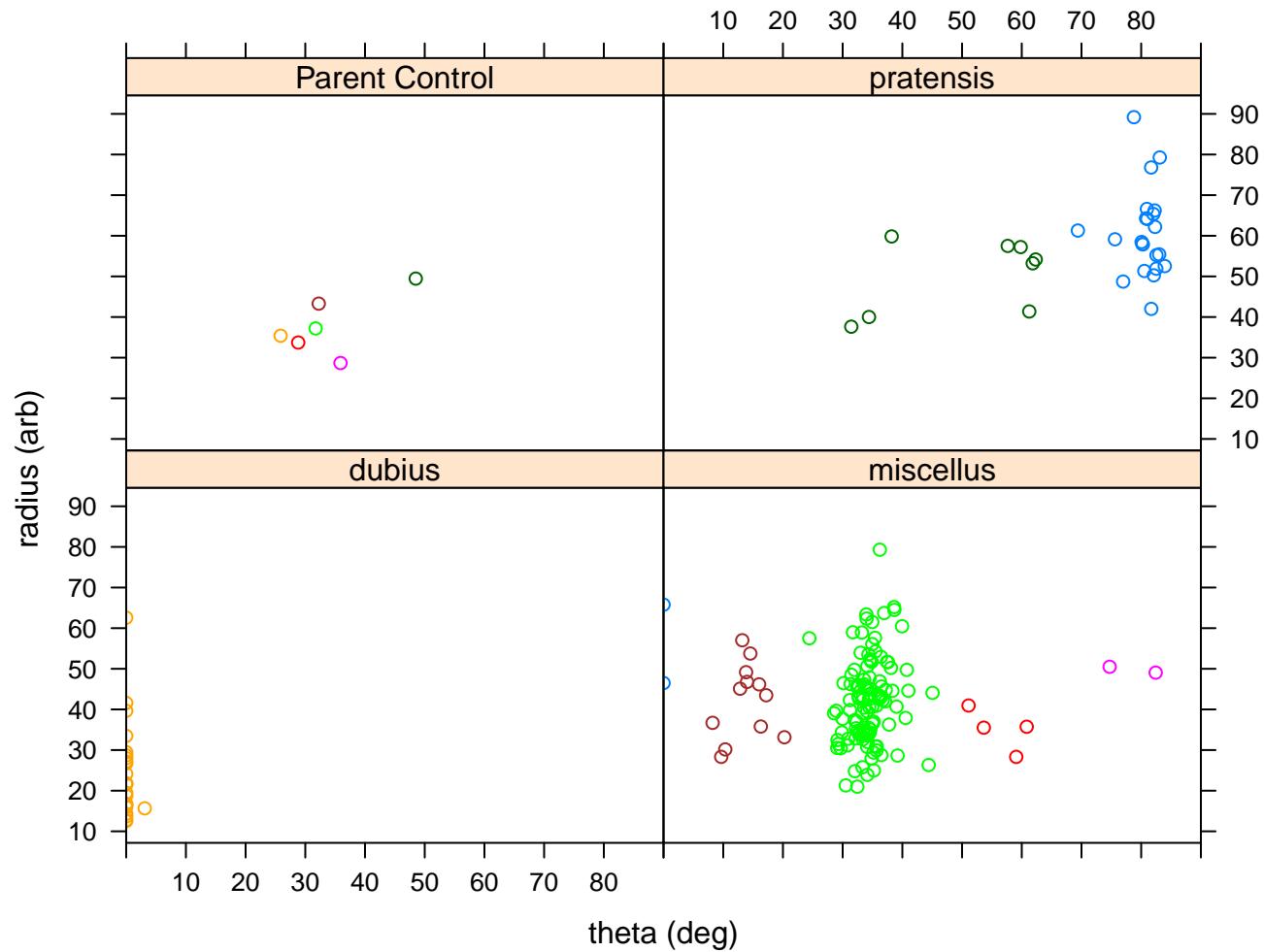
theta (deg)



V_2_5_isotig02818_69 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○



V_2_5_isotig02818_69 cDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

radius (arb)

100
90
80
70
60
50
40
30
20
10

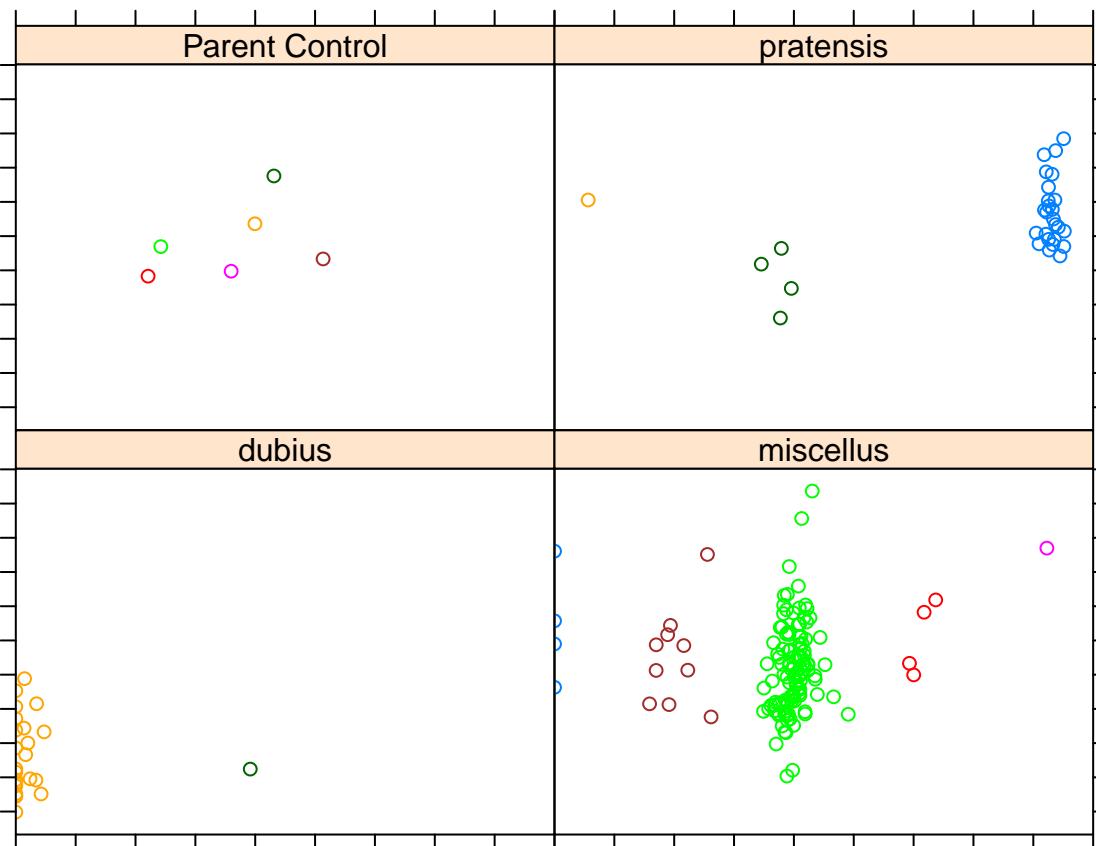
dubius

miscellus

100
90
80
70
60
50
40
30
20
10

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig03218_72 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

radius (arb)

Parent Control

pratensis

dubius

miscellus

110
100
90
80
70
60
50
40
30
20
10

110
100
90
80
70
60
50
40
30
20
10

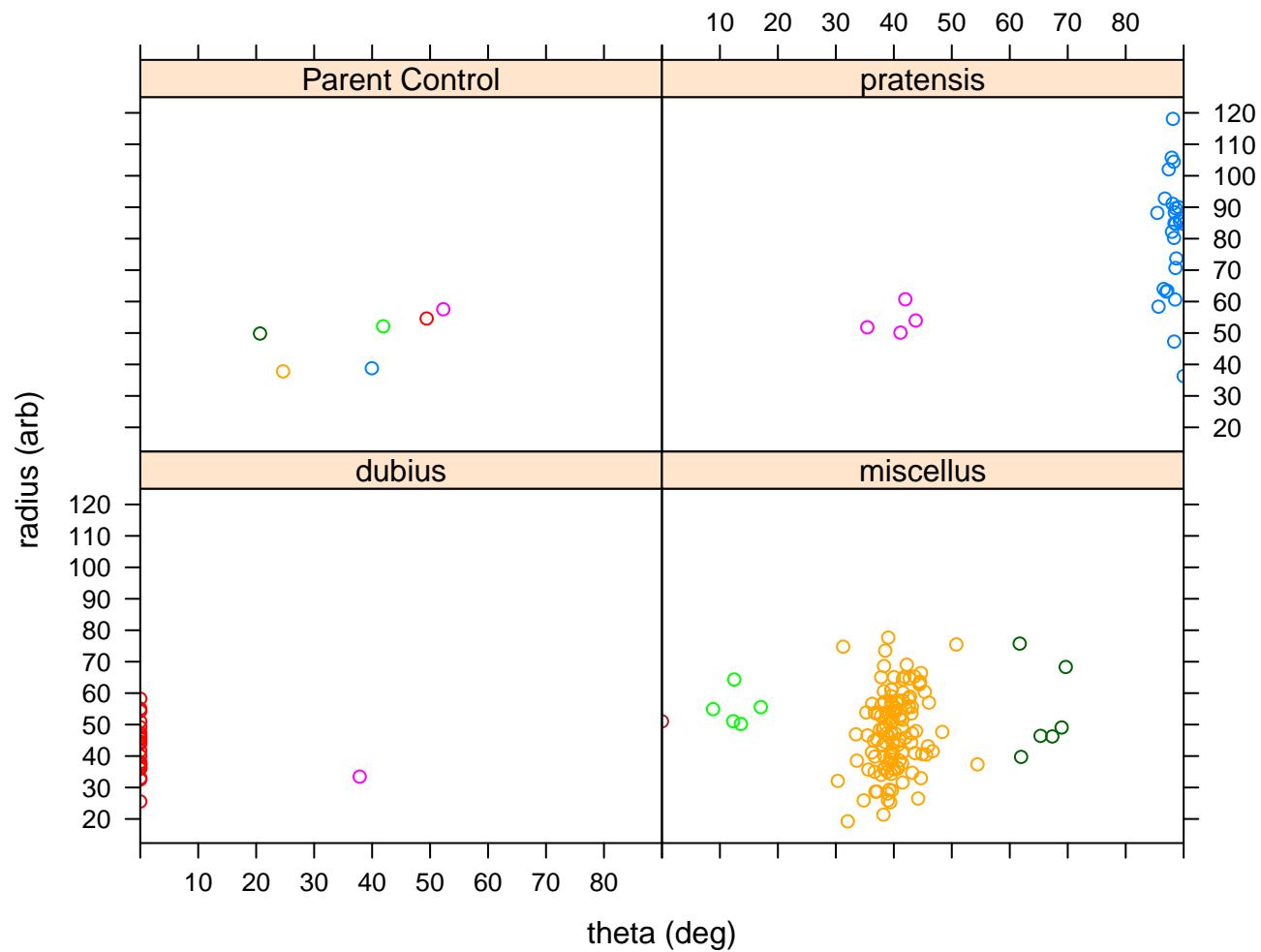
10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig03218_72 cDNA

Call

HH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		



V_2_5_isotig03302_933 gDNA

Call

HH	○	PM3_1_2	○
HHHH	○	PM3_2_1	○
LL	○	PM4	○
LLLL	○	PM5	○
PM3_1_1	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

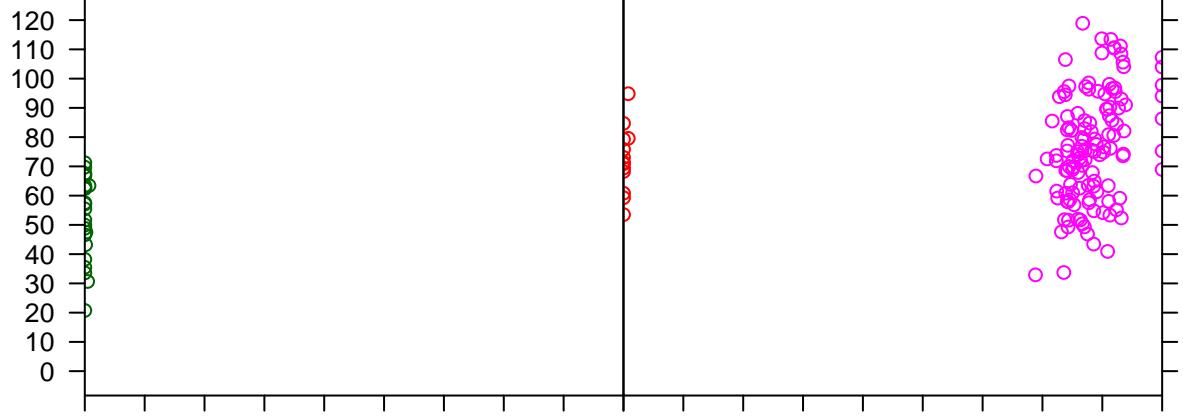
pratensis

120
110
100
90
80
70
60
50
40
30
20
10
0

radius (arb)

dubius

miscellus



theta (deg)

V_2_5_isotig03302_933 cDNA

Call

HH	○	PM3_1_2	○
HHHH	○	PM3_2_1	○
LL	○	PM4	○
LLLL	○	PM5	○
PM3_1_1	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

radius (arb)

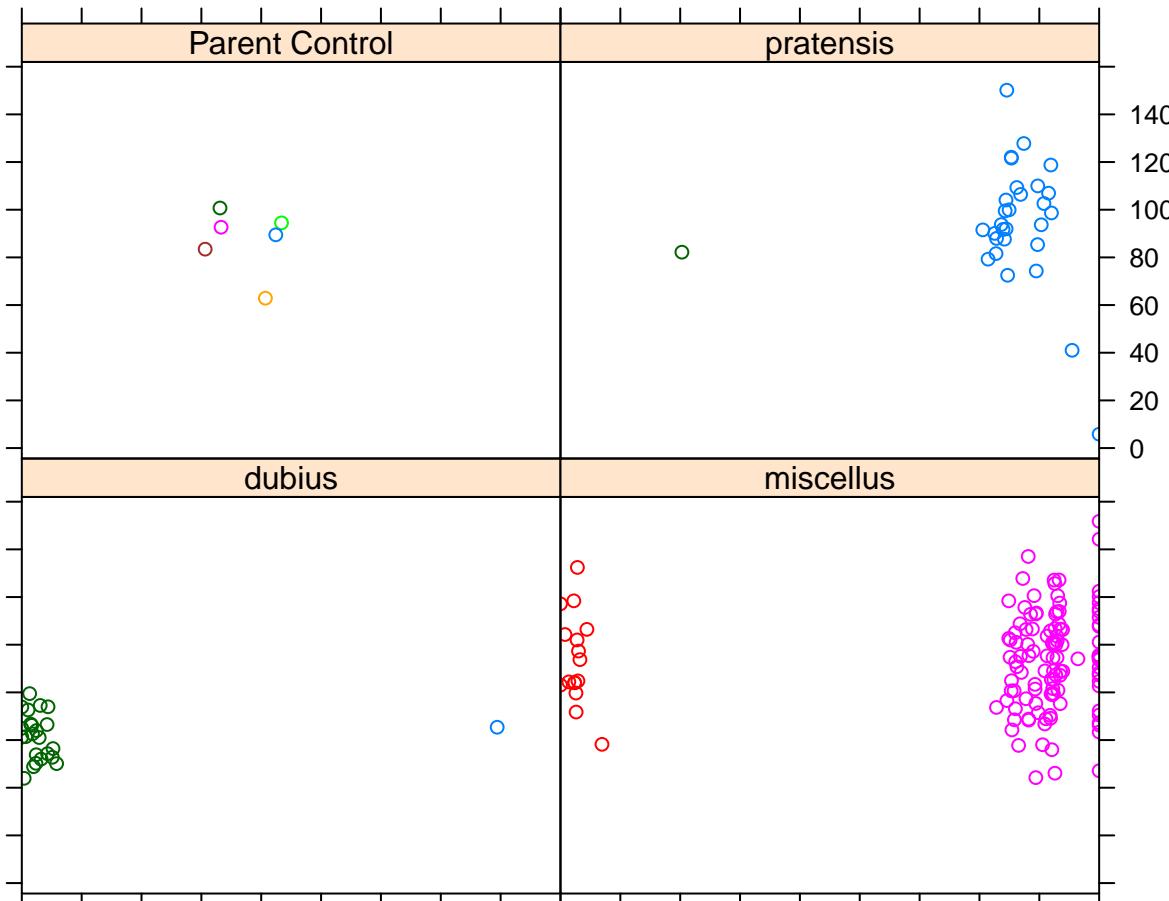
dubius

miscellus

140
120
100
80
60
40
20
0

10 20 30 40 50 60 70 80

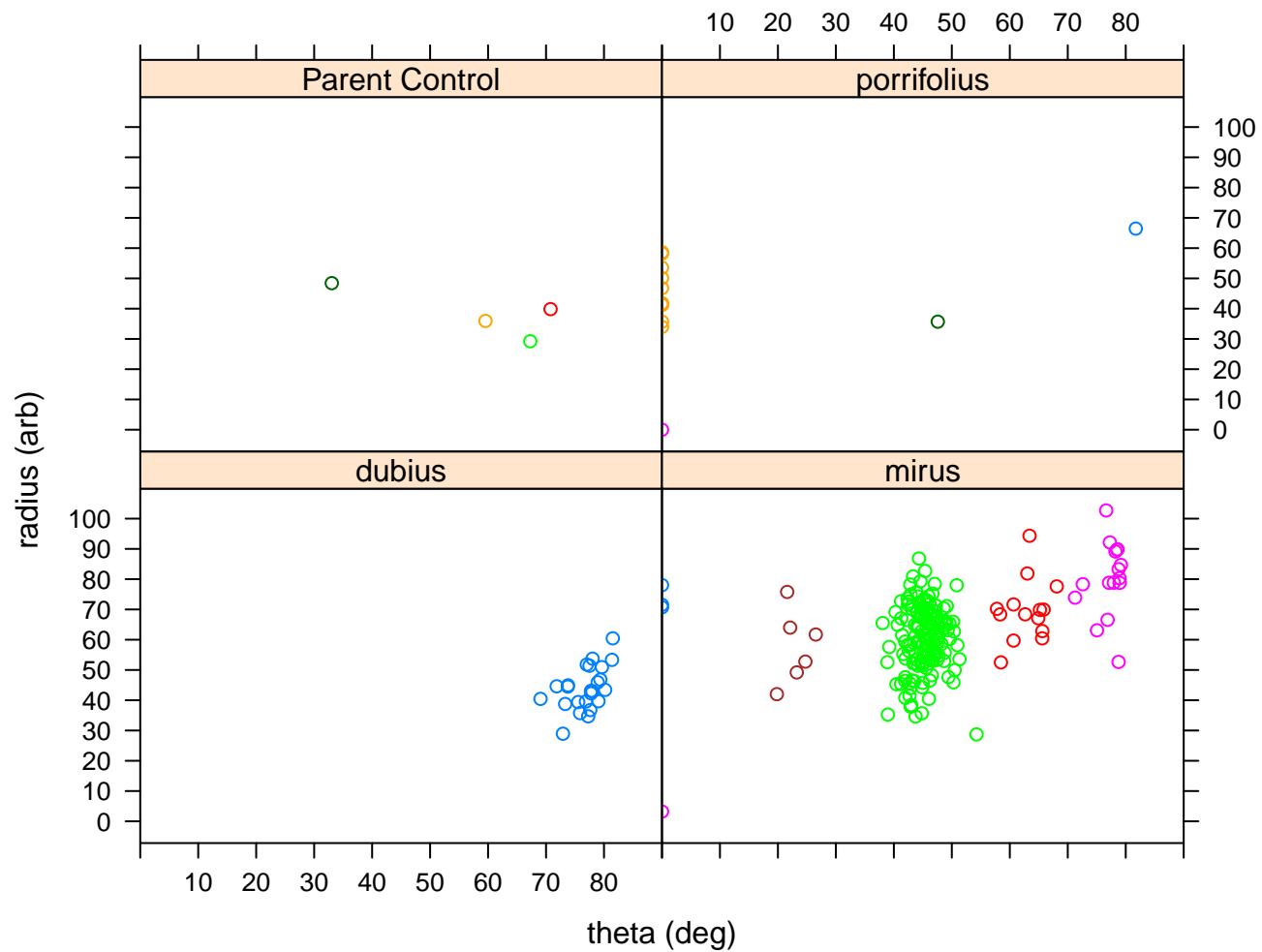
theta (deg)



V_2_5_isotig03453_628 gDNA

Call

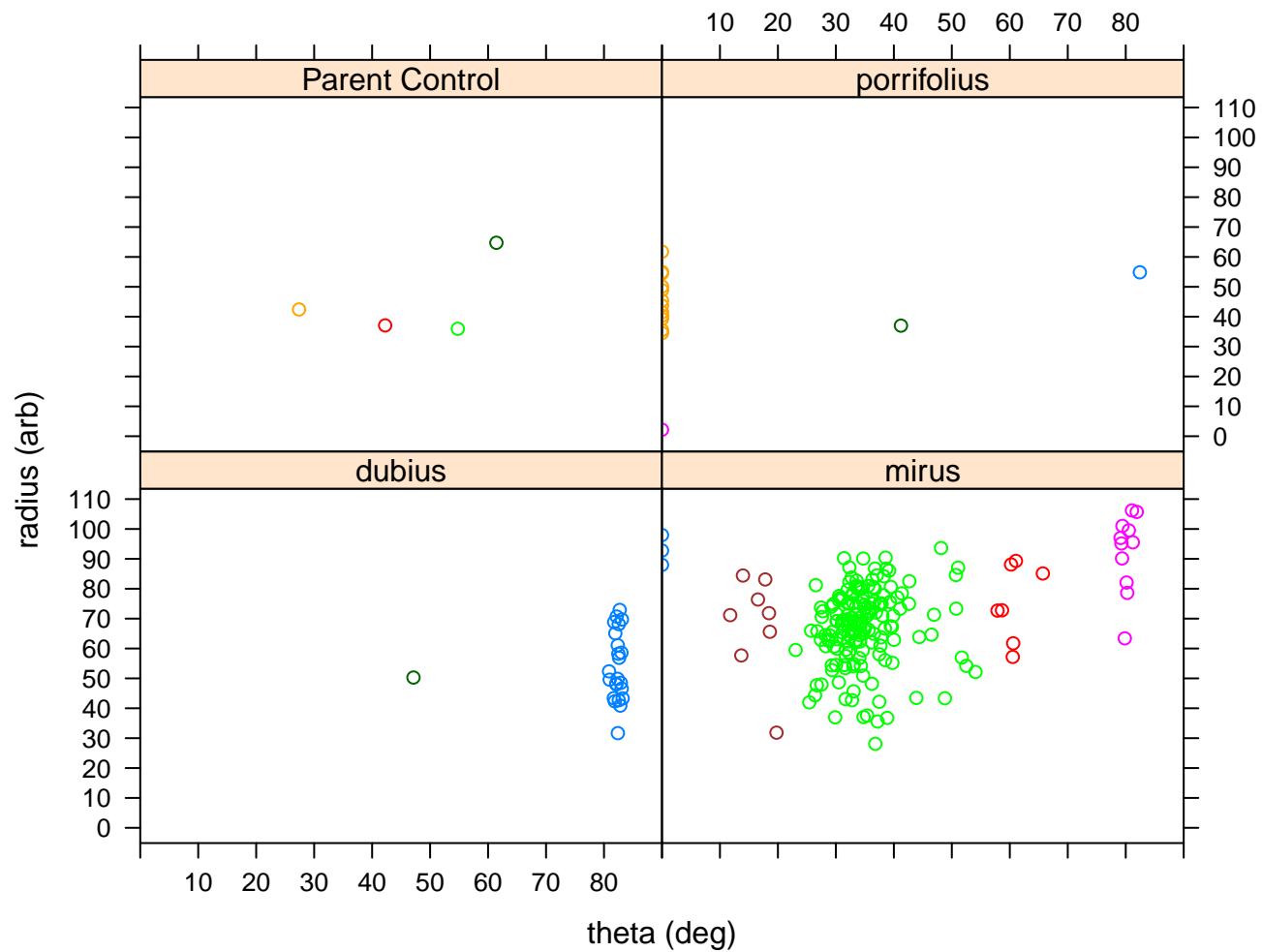
HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig03453_628 cDNA

Call

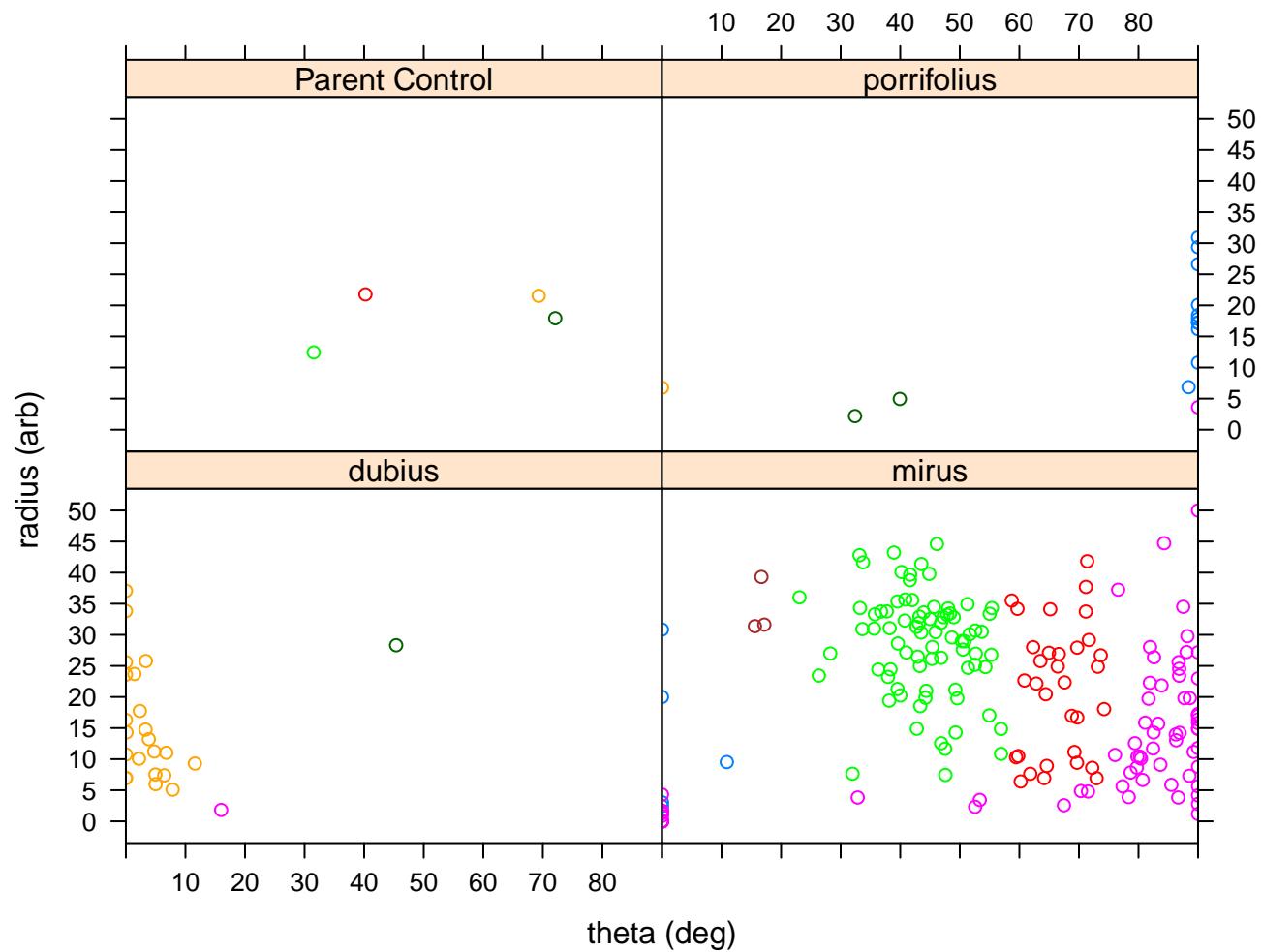
HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig03494_170 cDNA

Call

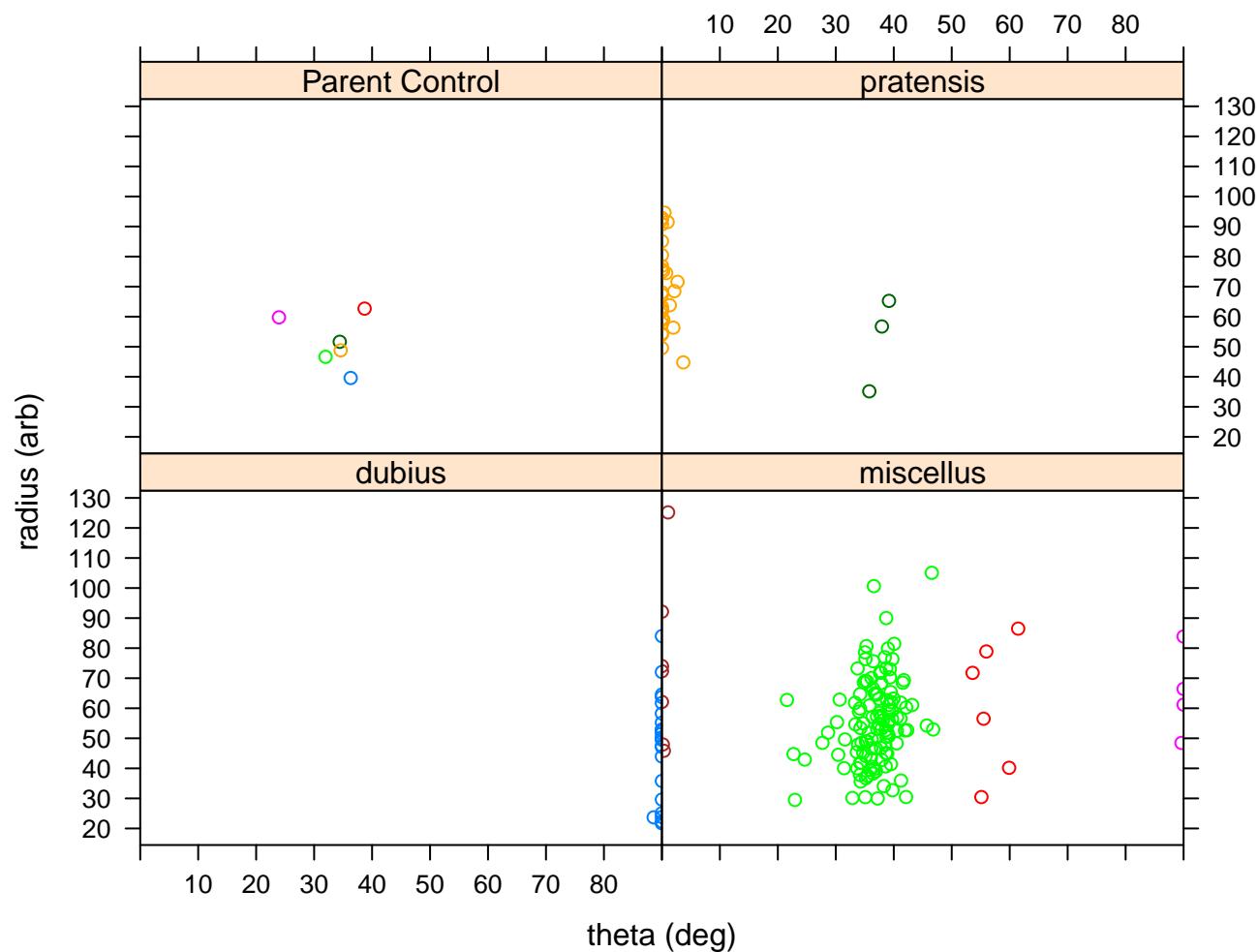
HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig03497_453 gDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LHHH	○	PM4	○
LL	○	PM5	○
LLHH	○	PM6	○
LLLL	○		



V_2_5_isotig03497_453 cDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

120
110
100
90
80
70
60
50
40
30
20
10

radius (arb)

dubius

miscellus

120
110
100
90
80
70
60
50
40
30
20
10

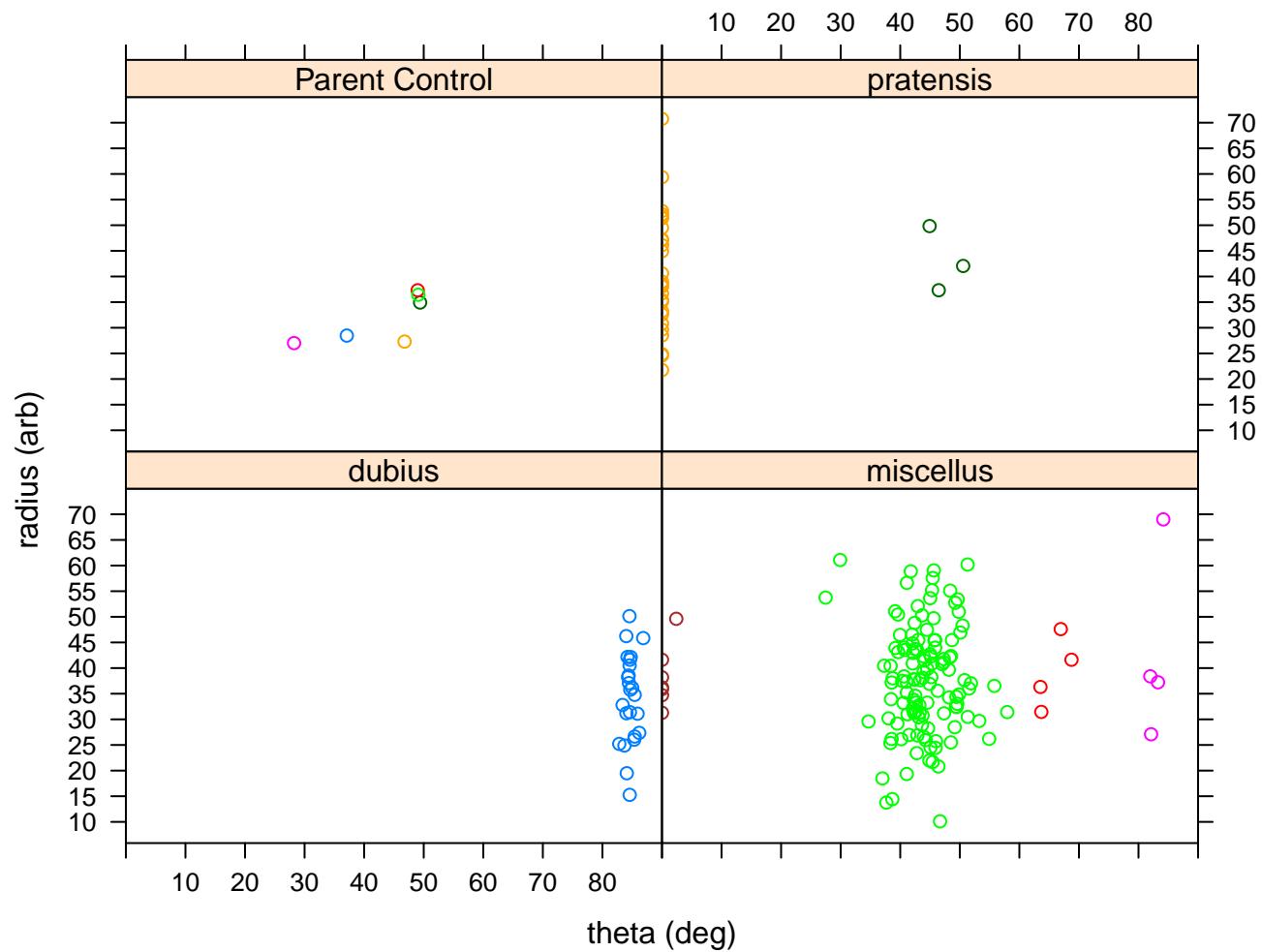
10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig03497_475 gDNA

Call

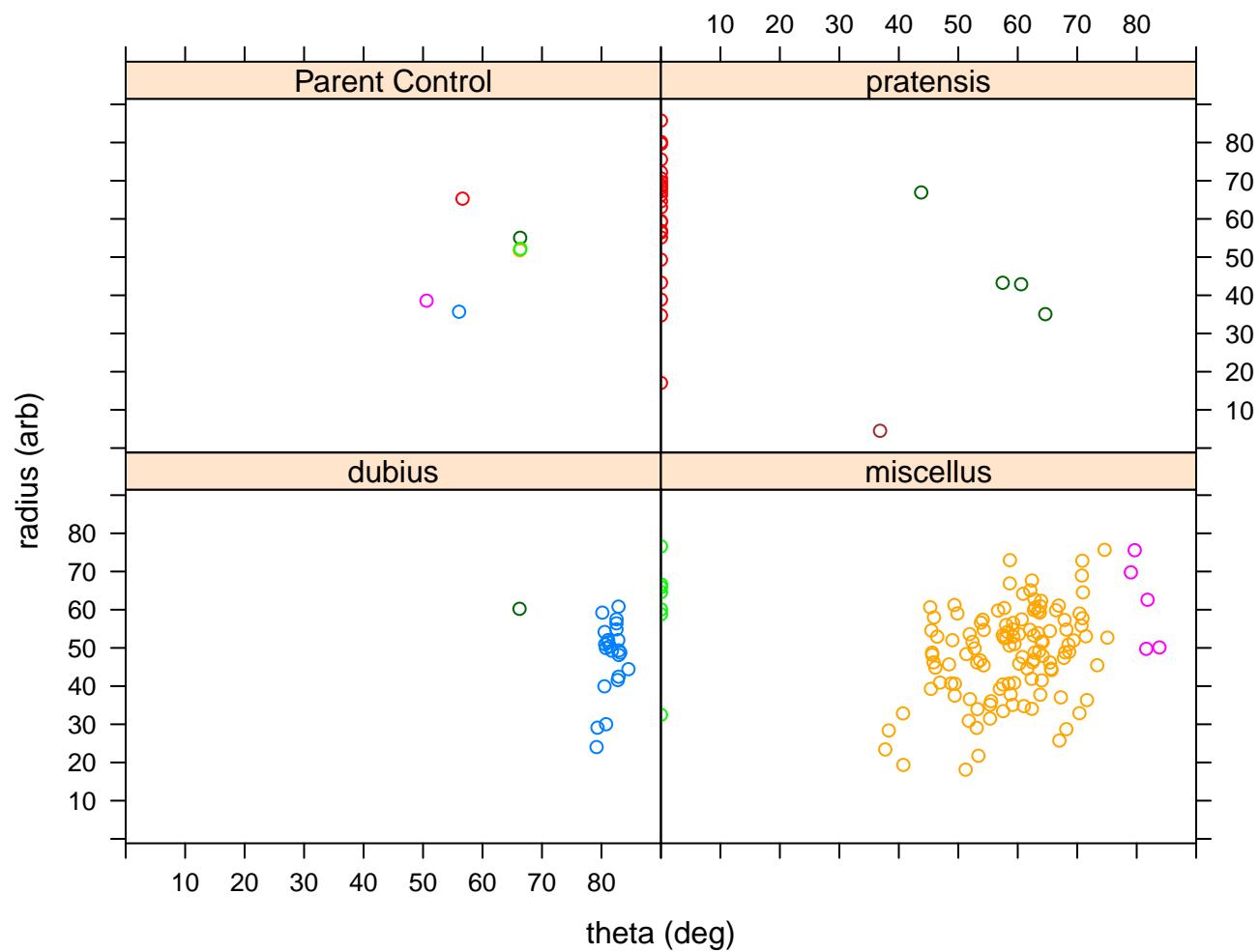
HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LHHH	○	PM4	○
LL	○	PM5	○
LLHH	○	PM6	○
LLLL	○		



V_2_5_isotig03497_475 cDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○
No_Aleles	○		



V_2_5_isotig03508_34 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

110
100
90
80
70
60
50
40
30
20
10

dubius

miscellus

110
100
90
80
70
60
50
40
30
20
10

radius (arb)

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig03508_34 cDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

130
120
110
100
90
80
70
60
50
40
30
20

dubius

miscellus

130
120
110
100
90
80
70
60
50
40
30
20

10 20 30 40 50 60 70 80

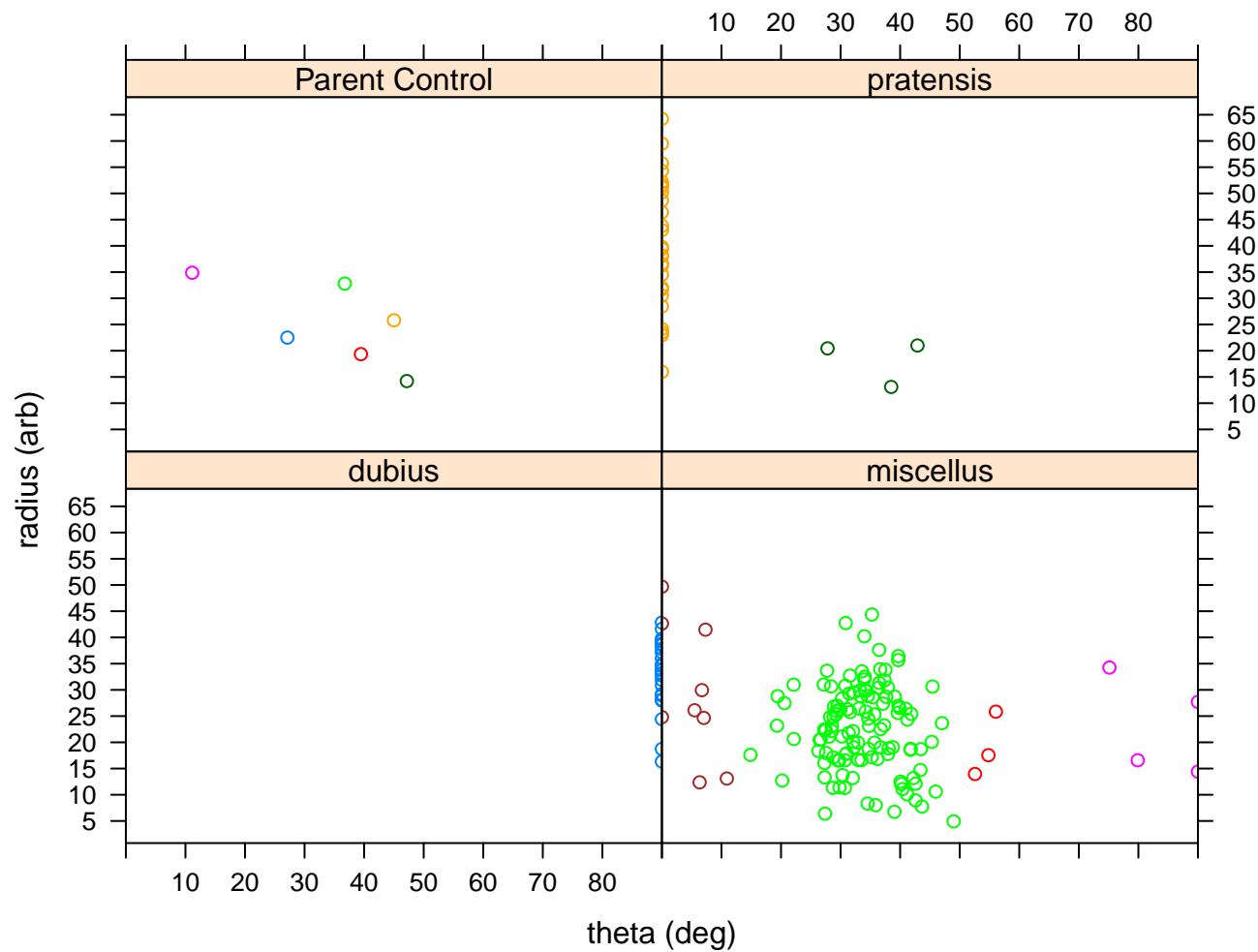
theta (deg)

radius (arb)

V_2_5_isotig03626_548 gDNA

Call

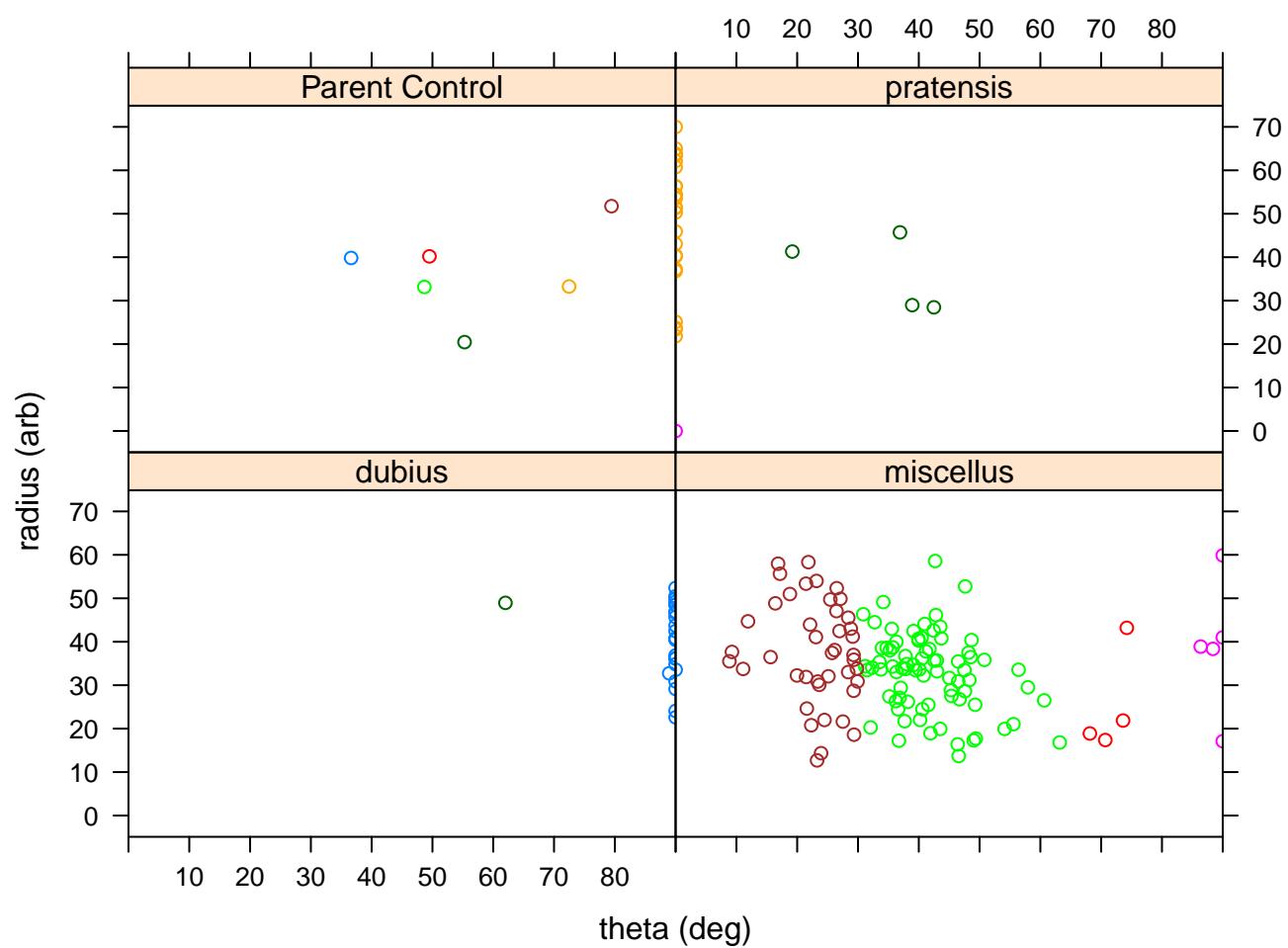
HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LHHH	○	PM4	○
LL	○	PM5	○
LLHH	○	PM6	○
LLLL	○		



V_2_5_isotig03626_548 cDNA

Call

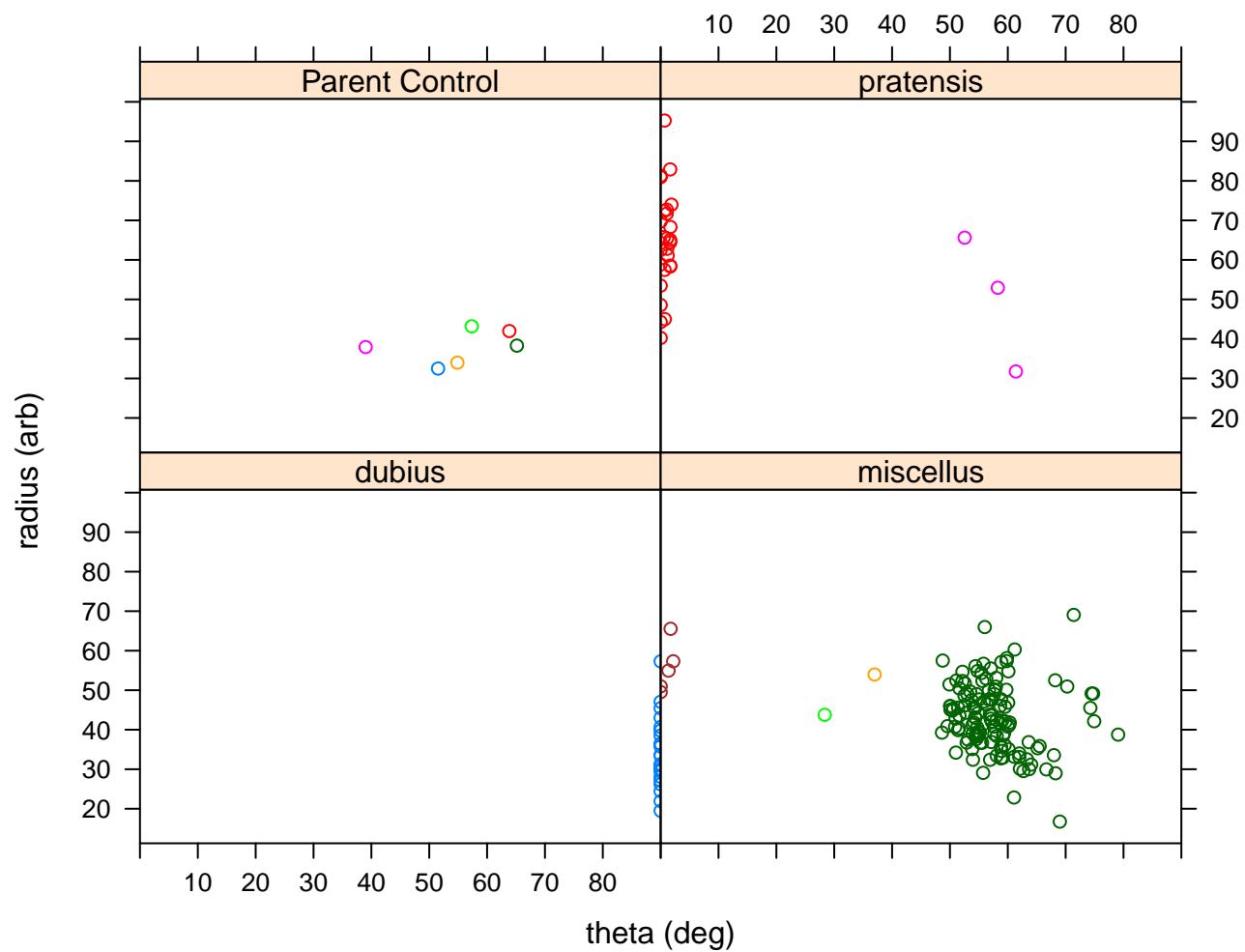
HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		



V_2_5_isotig03814_142 gDNA

Call

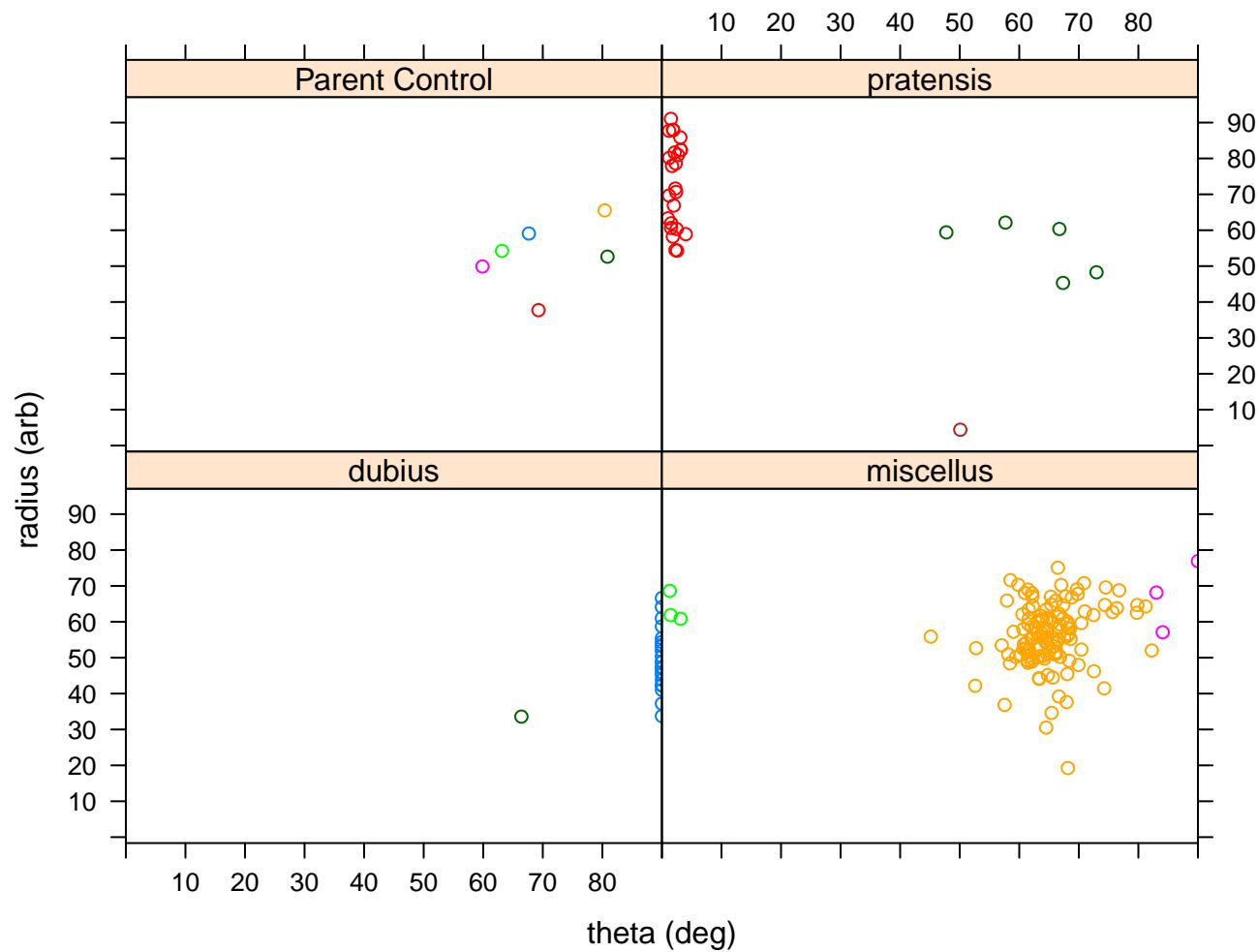
HH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		



V_2_5_isotig03814_142 cDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○
No_Alleles	○		



V_2_5_isotig03838_197 gDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

70
65
60
55
50
45
40
35
30
25
20
15

dubius

miscellus

70
65
60
55
50
45
40
35
30
25
20
15

10 20 30 40 50 60 70 80

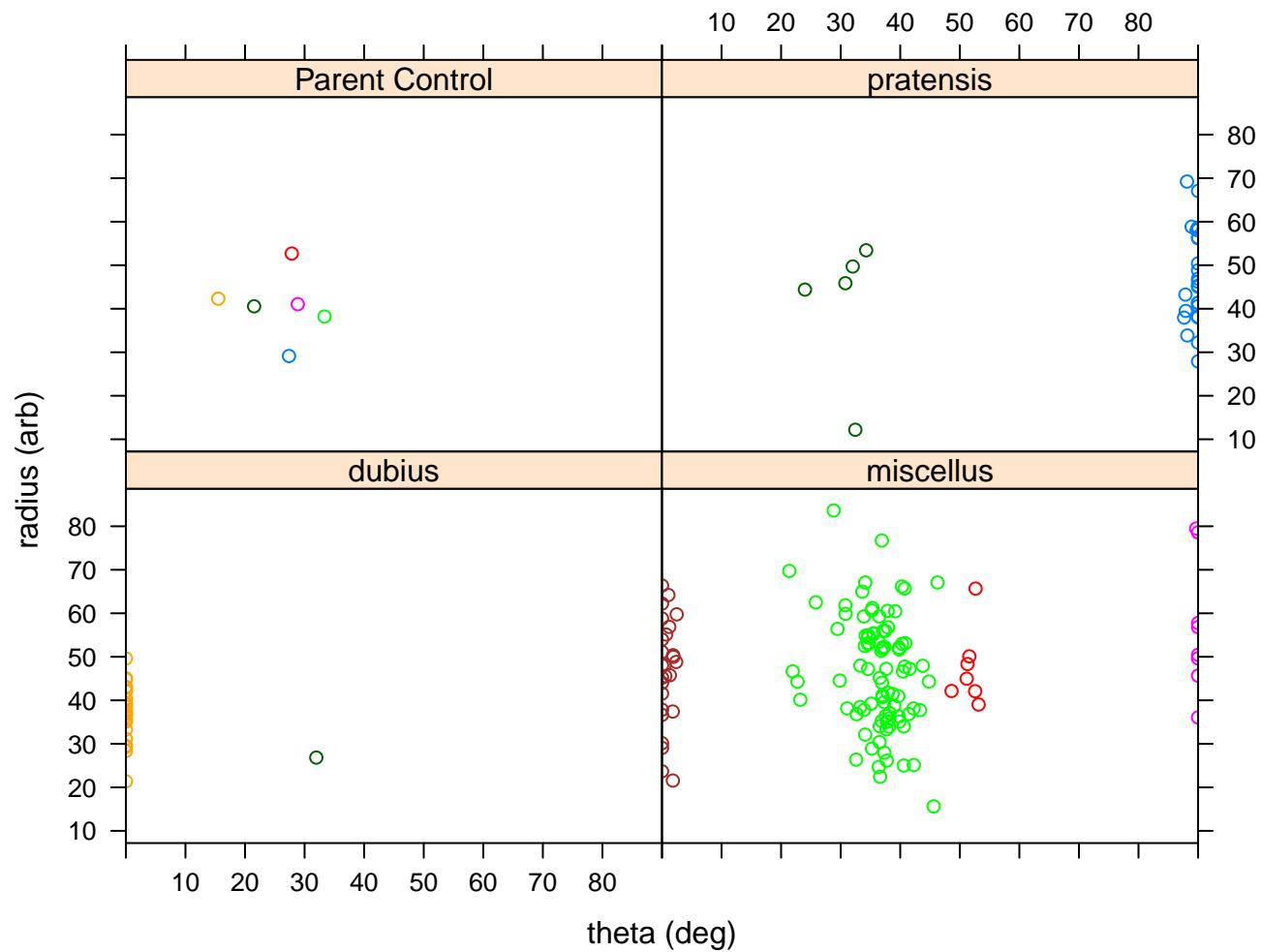
theta (deg)

radius (arb)

V_2_5_isotig03838_197 cDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LHHH	○	PM4	○
LL	○	PM5	○
LLHH	○	PM6	○
LLLL	○		



V_2_5_isotig03838_230 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

60
55
50
45
40
35
30
25
20
15
10

dubius

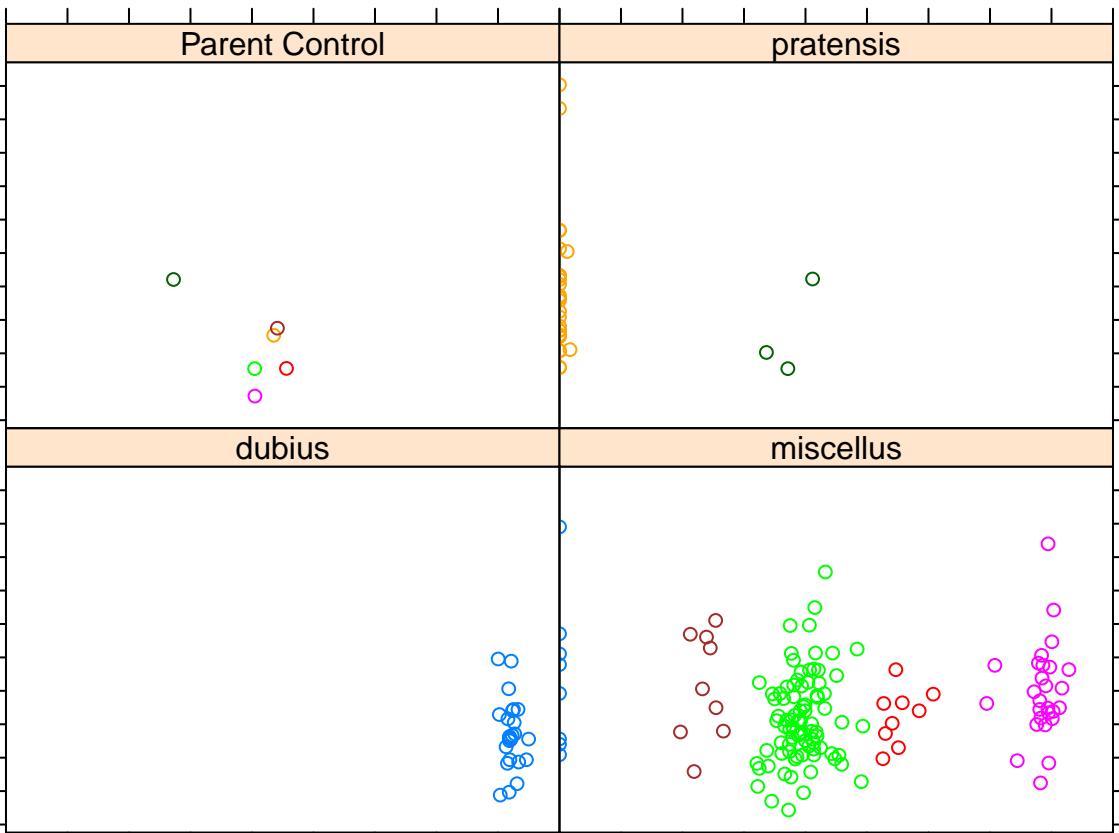
miscellus

radius (arb)

60
55
50
45
40
35
30
25
20
15
10

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig03838_230 cDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

75
70
65
60
55
50
45
40
35
30
25
20
15

dubius

miscellus

radius (arb)

75
70
65
60
55
50
45
40
35
30
25
20
15

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig03850_1318 gDNA

Call

Bad_Spectrum	LLLH	○
HH	PM3_1_1	○
HHHH	PM3_1_2	○
LH	PM3_2_1	○
LHHH	PM4	○
LL	PM5	○
LLHH	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

radius (arb)

90
80
70
60
50
40
30
20
10
0

dubius

miscellus

90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig03850_1318 cDNA

Call

Bad Spectrum

HH

11

11

LHHL

11

11

11

1

PM3

PM3

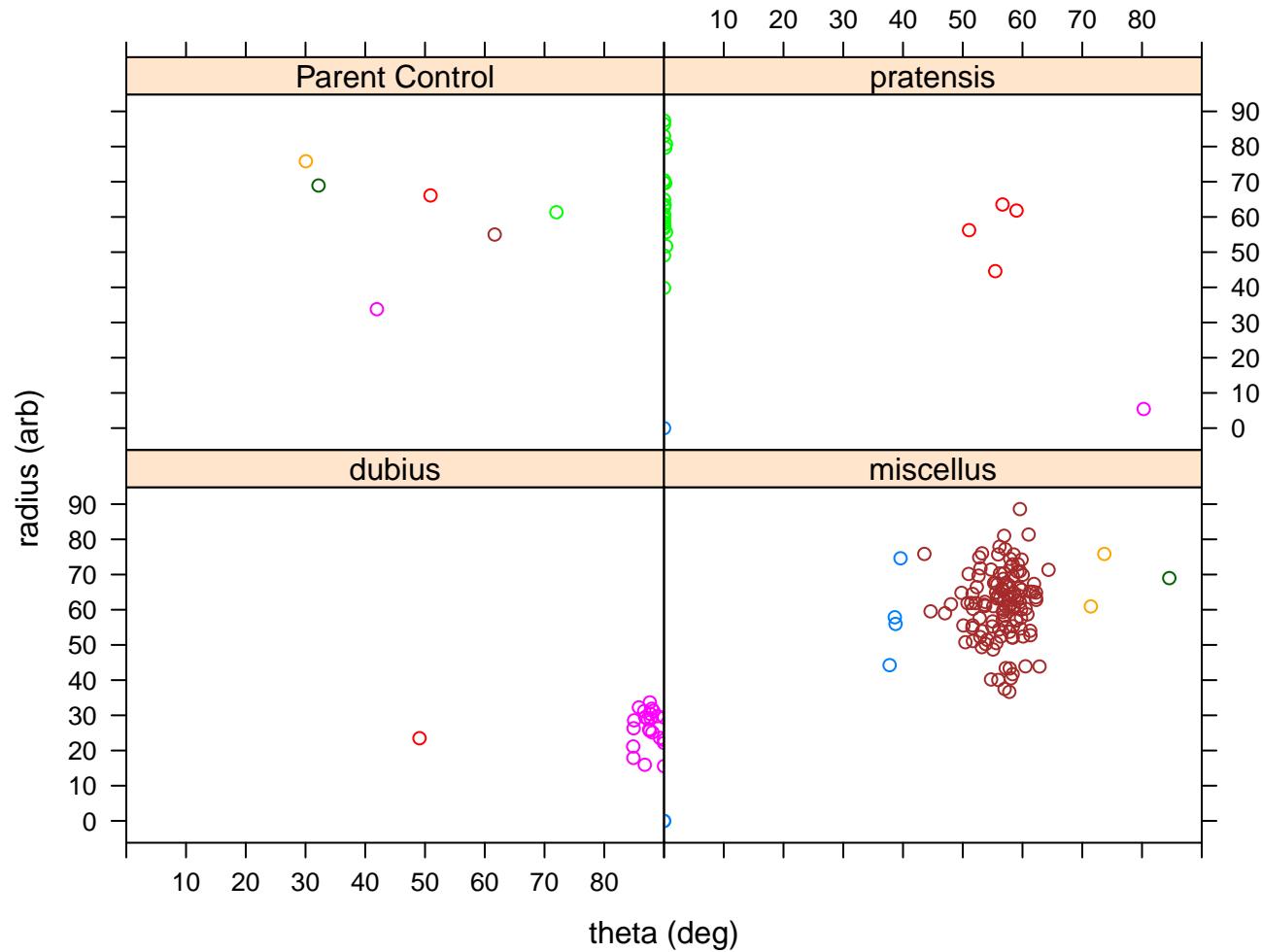
PM3

PM4

PM1
PM5

PM6

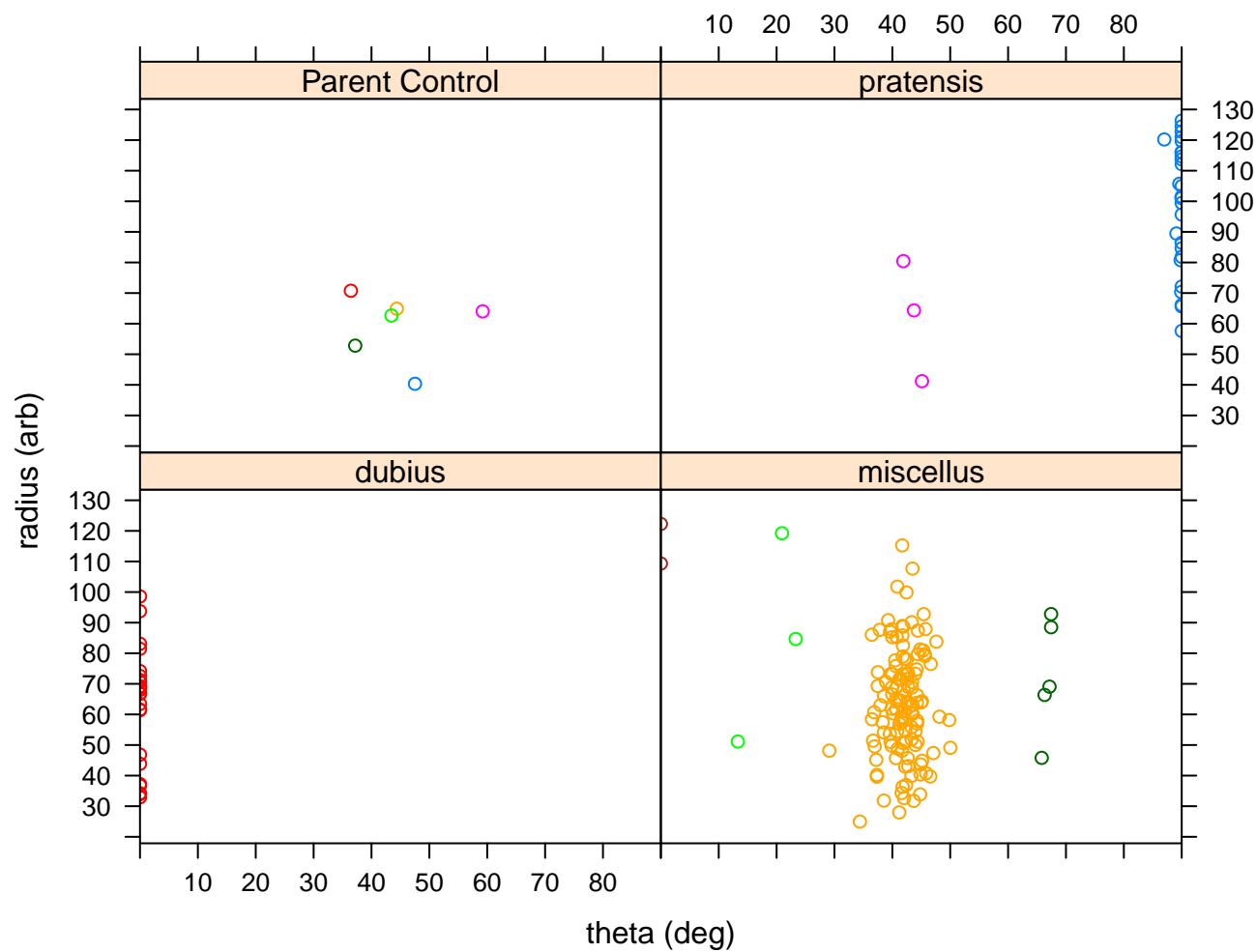
FIMO



V_2_5_isotig03850_1764 gDNA

Call

HH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		



V_2_5_isotig03850_1764 cDNA

Call

HH	○	No_Aleles	○
LH	○	PM3_1_1	○
LHHH	○	PM3_1_2	○
LL	○	PM3_2_1	○
LLHH	○	PM4	○
LLLH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

160
140
120
100
80
60
40
20
0

dubius

miscellus

160
140
120
100
80
60
40
20
0

10 20 30 40 50 60 70 80

theta (deg)

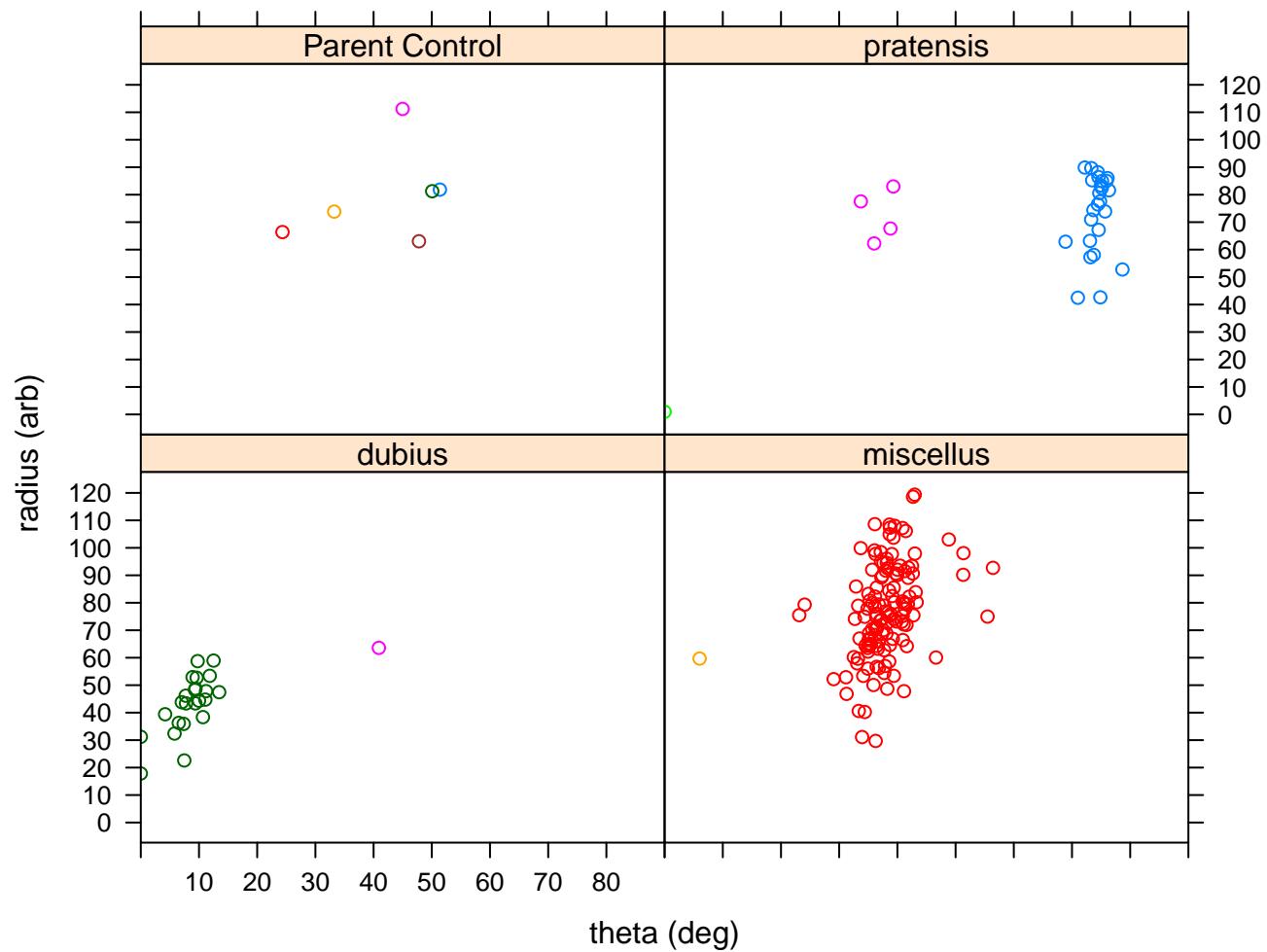
radius (arb)

V_2_5_isotig03850_817 cDNA

Call

HH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LL	○	PM3_2_1	○
LLHH	○	PM4	○
LLLL	○	PM5	○
No_Aleles	○	PM6	○

10 20 30 40 50 60 70 80



V_2_5_isotig03877_1049 gDNA

Call

Bad_Spectrum	LLLL
HH	No_Alleles
HHHH	PM3_1_1
LH	PM3_1_2
LHHH	PM3_2_1
LL	PM4
LLHH	PM5
LLLH	PM6

10 20 30 40 50 60 70 80

Parent Control

pratensis

16
14
12
10
8
6
4
2
0

dubius

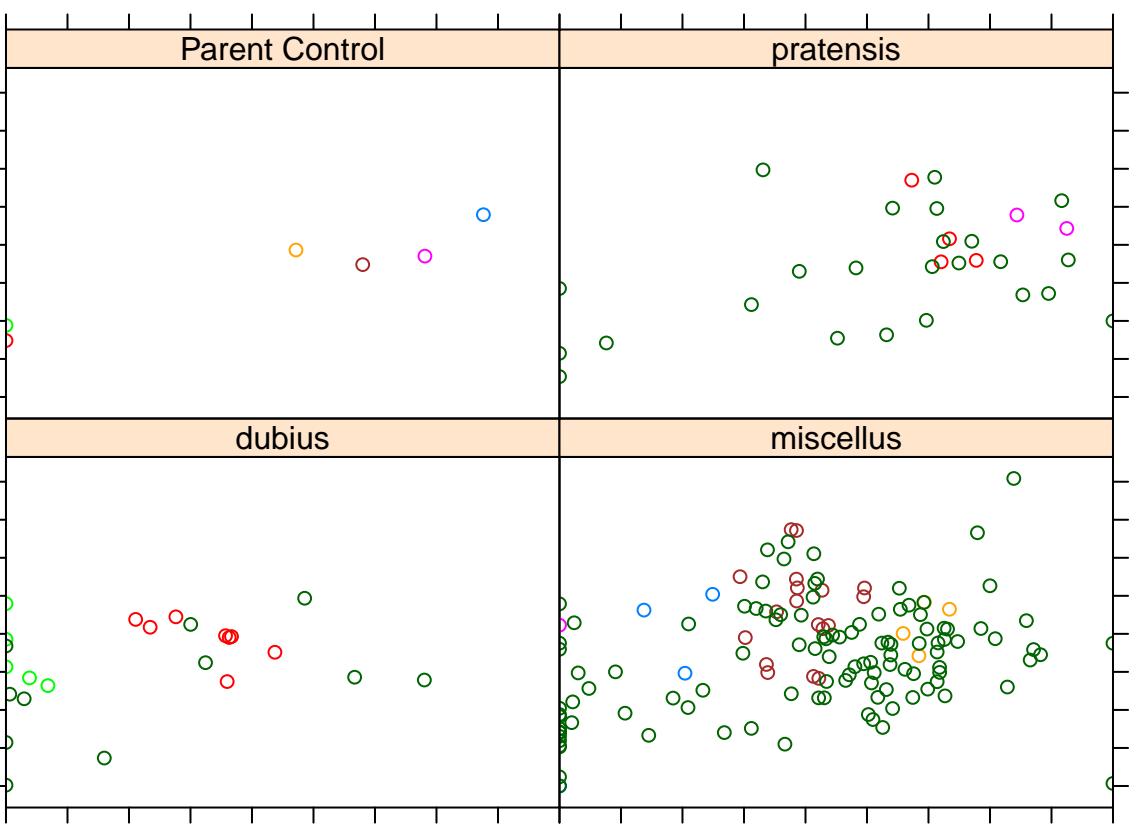
miscellus

16
14
12
10
8
6
4
2
0

radius (arb)

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig03877_1049 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LL	○	PM3_2_1	○
LLHH	○	PM4	○
LLLH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

radius (arb)

100
90
80
70
60
50
40
30
20
10
0

dubius

miscellus

10 20 30 40 50 60 70 80

theta (deg)

100
90
80
70
60
50
40
30
20
10
0

○

V_2_5_isotig03877_1213 gDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
No_Alleles	○	PM6	○

10 20 30 40 50 60 70 80

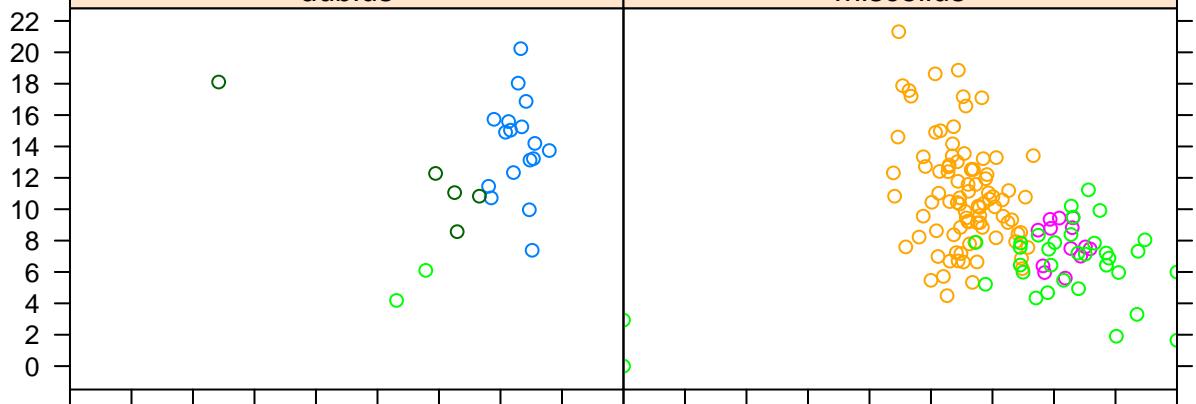
Parent Control

pratensis

22
20
18
16
14
12
10
8
6
4
2
0

dubius

miscellus



theta (deg)

V_2_5_isotig03877_1213 cDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

60
55
50
45
40
35
30
25
20
15
10
5

radius (arb)

dubius

miscellus

60
55
50
45
40
35
30
25
20
15
10
5

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig03877_1368 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

140
120
100
80
60
40
20
0

dubius

miscellus

radius (arb)

140
120
100
80
60
40
20
0

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig03877_624 gDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

50
45
40
35
30
25
20
15
10
5

dubius

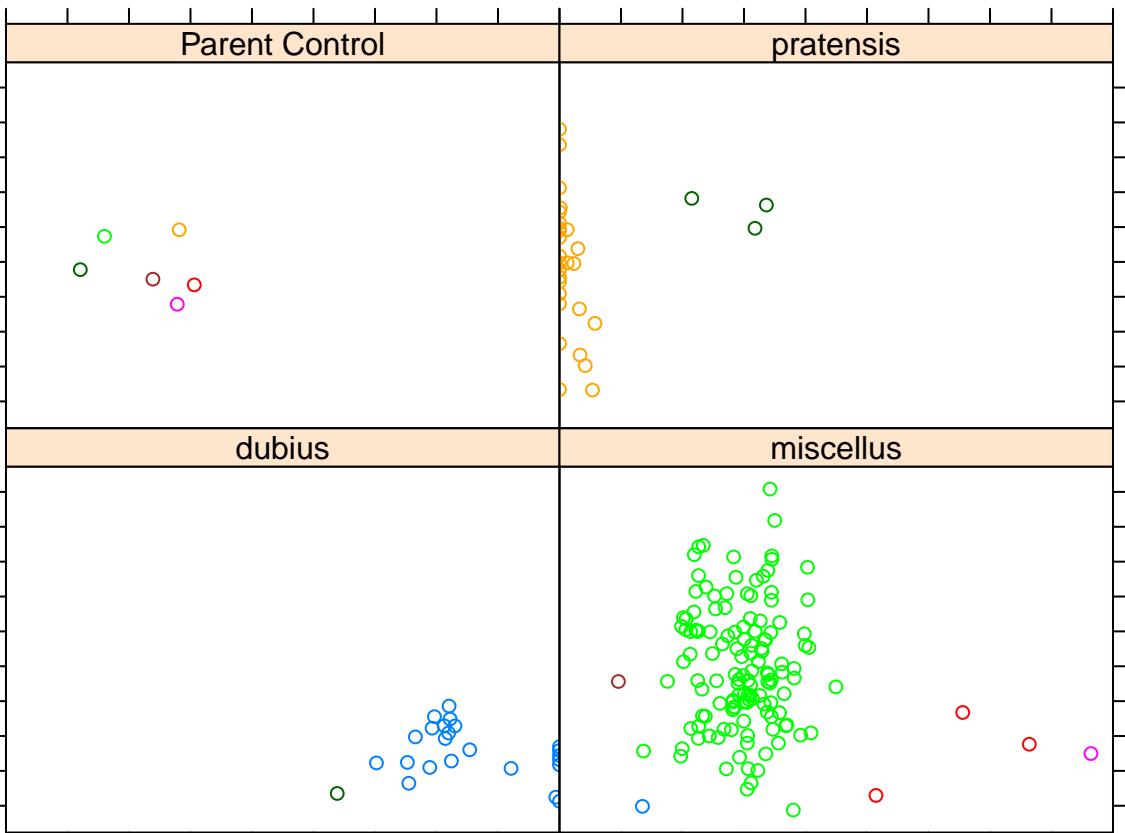
miscellus

radius (arb)

50
45
40
35
30
25
20
15
10
5

10 20 30 40 50 60 70 80

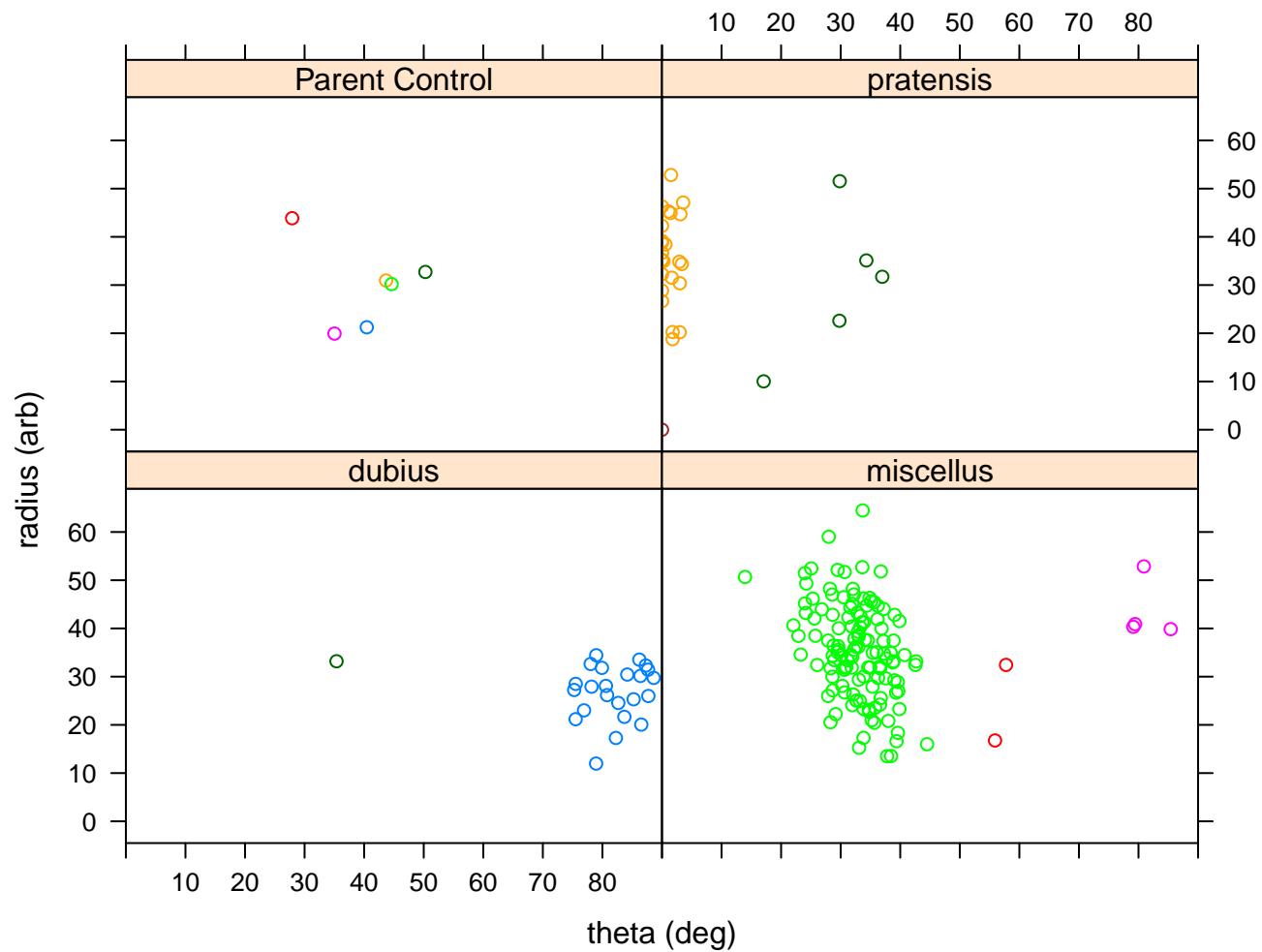
theta (deg)



V_2_5_isotig03877_624 cDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LHHH	○	PM4	○
LL	○	PM5	○
LLHH	○	PM6	○
No_Alleles	○		



V_2_5_isotig04217_925 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

60
50
40
30
20
10

dubius

mirus

radius (arb)

60

50

40

30

20

10

10 20 30 40 50 60 70 80

theta (deg)

10 20 30 40 50 60 70 80

V_2_5_isotig04217_925 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

70
60
50
40
30
20
10

dubius

mirus

radius (arb)

70

60

50

40

30

20

10

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig04332_190 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

65
60
55
50
45
40
35
30
25
20
15
10
5

dubius

mirus

65
60
55
50
45
40
35
30
25
20
15
10
5

10 20 30 40 50 60 70 80

theta (deg)

radius (arb)

V_2_5_isotig04332_190 cDNA

Call

Bad_Spectrum	○	LLLL	○
HH	○	No_Alleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

50
45
40
35
30
25
20
15
10
5
0

dubius

mirus

radius (arb)

50
45
40
35
30
25
20
15
10
5
0

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig04332_65 gDNA

Call

HH	○	LLLH	○
HHHH	○	LLLL	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

70
60
50
40
30
20
10
0

dubius

mirus

radius (arb)

70

50

30

10

20

40

60

80

0

10 20 30 40 50 60 70 80

theta (deg)

20
10
0

20
10
0

20
10
0

20
10
0

20
10
0

20
10
0

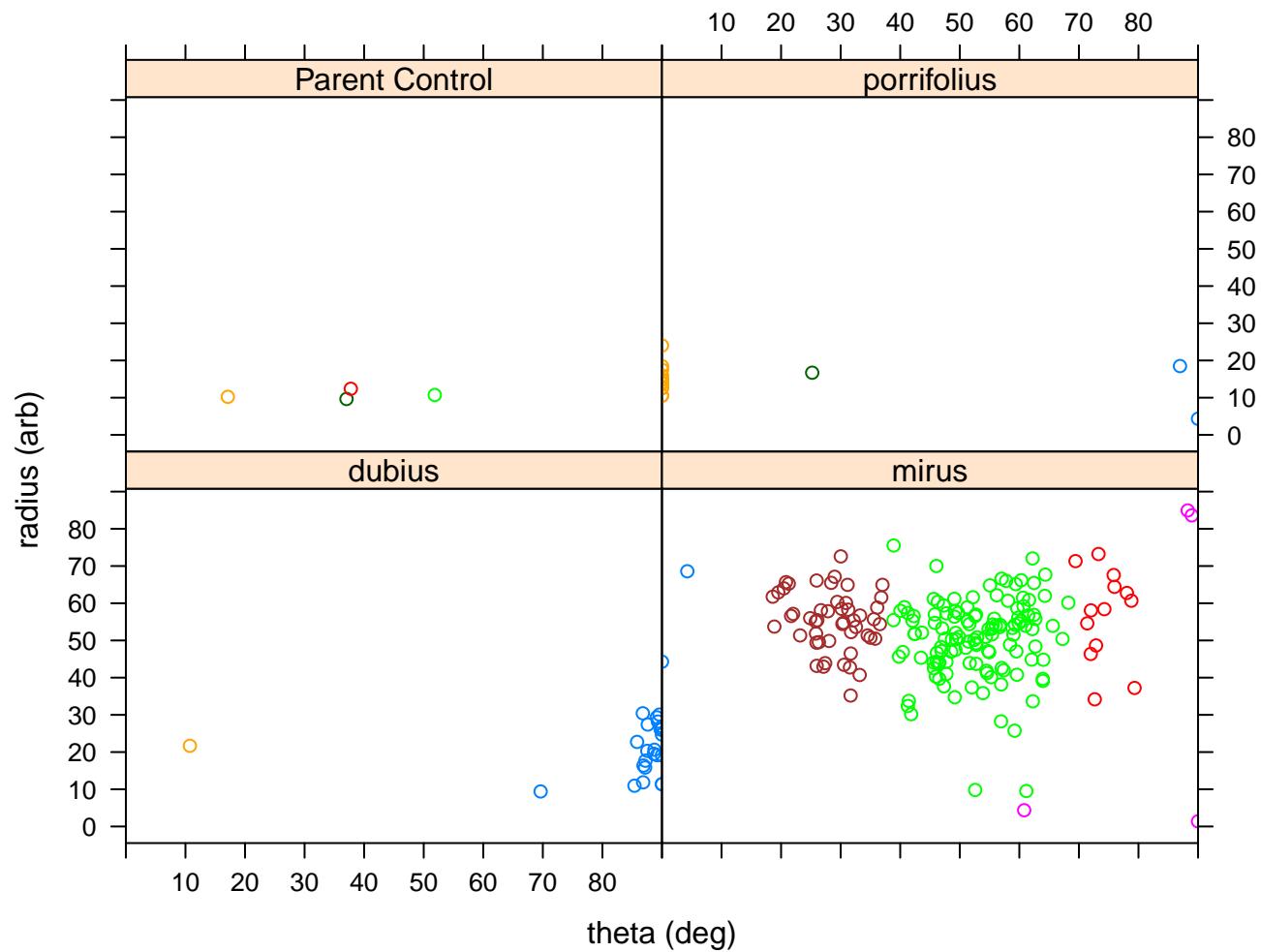
20
10
0

20
10
0

V_2_5_isotig04332_65 cDNA

Call

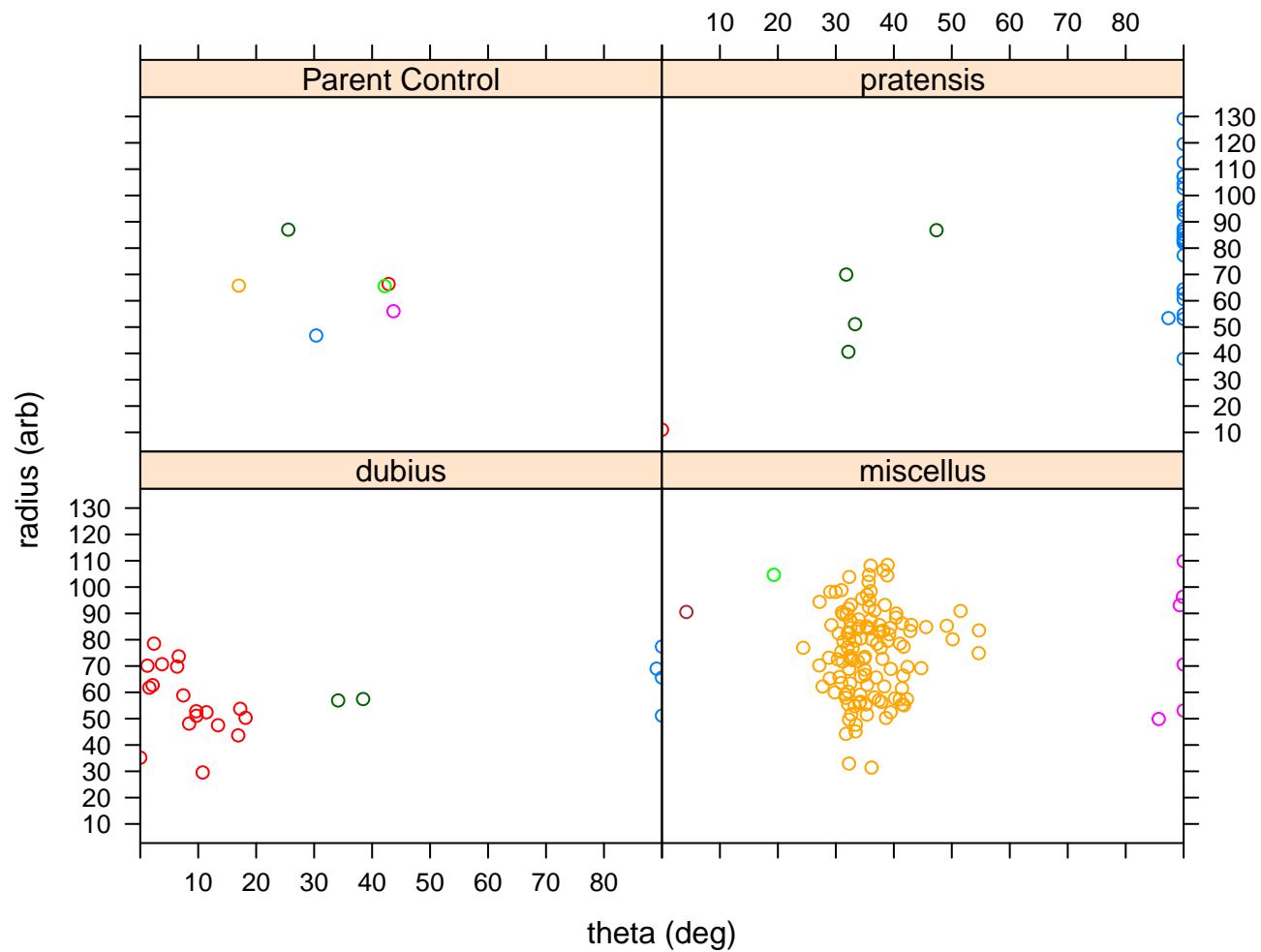
HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig04400_619 cDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		



V_2_5_isotig04404_1510 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

140
120
100
80
60
40
20
0

dubius

mirus

radius (arb)

140
120
100
80
60
40
20
0

10 20 30 40 50 60 70 80

theta (deg)

10 20 30 40 50 60 70 80

V_2_5_isotig04423_167 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LL	○	PM3_2_1	○
LLHH	○	PM4	○
LLLH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

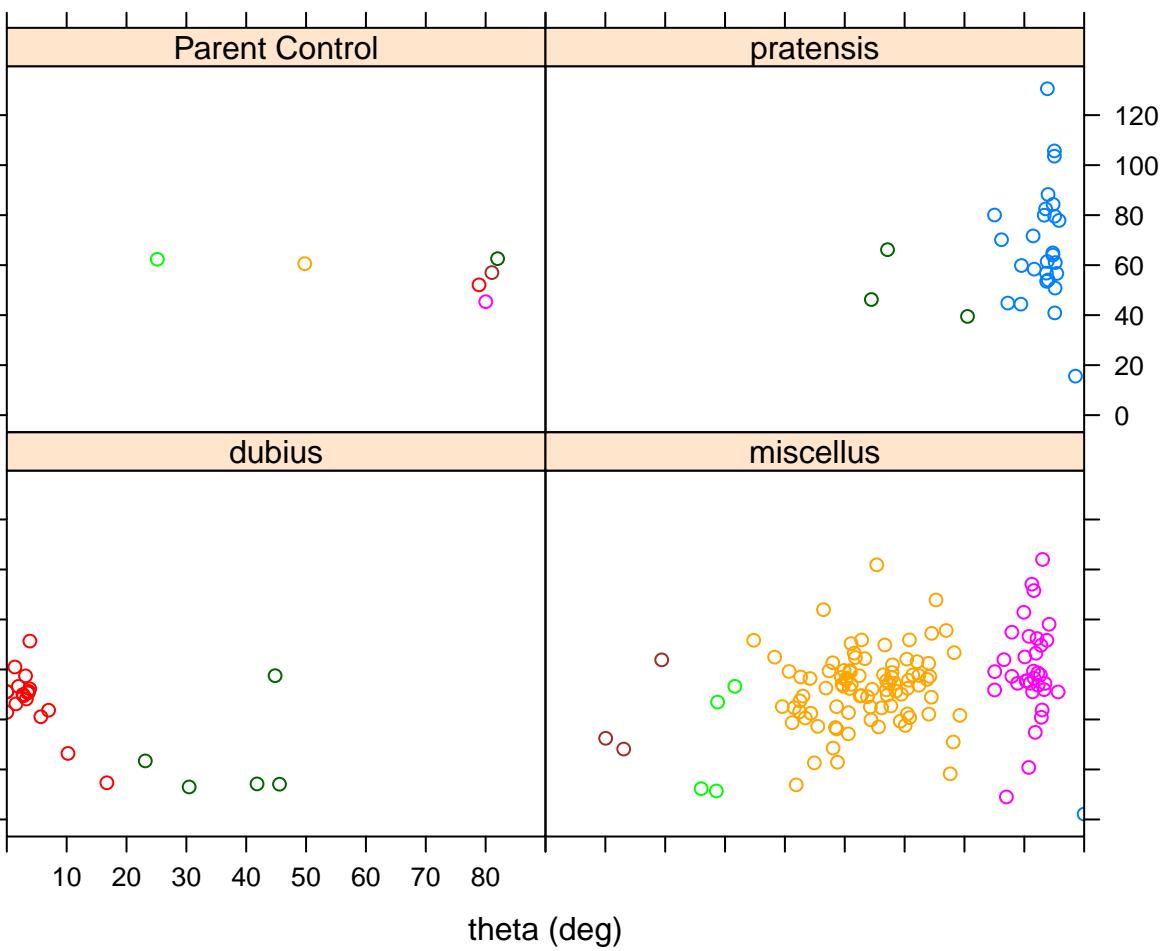
radius (arb)

Parent Control

pratensis

dubius

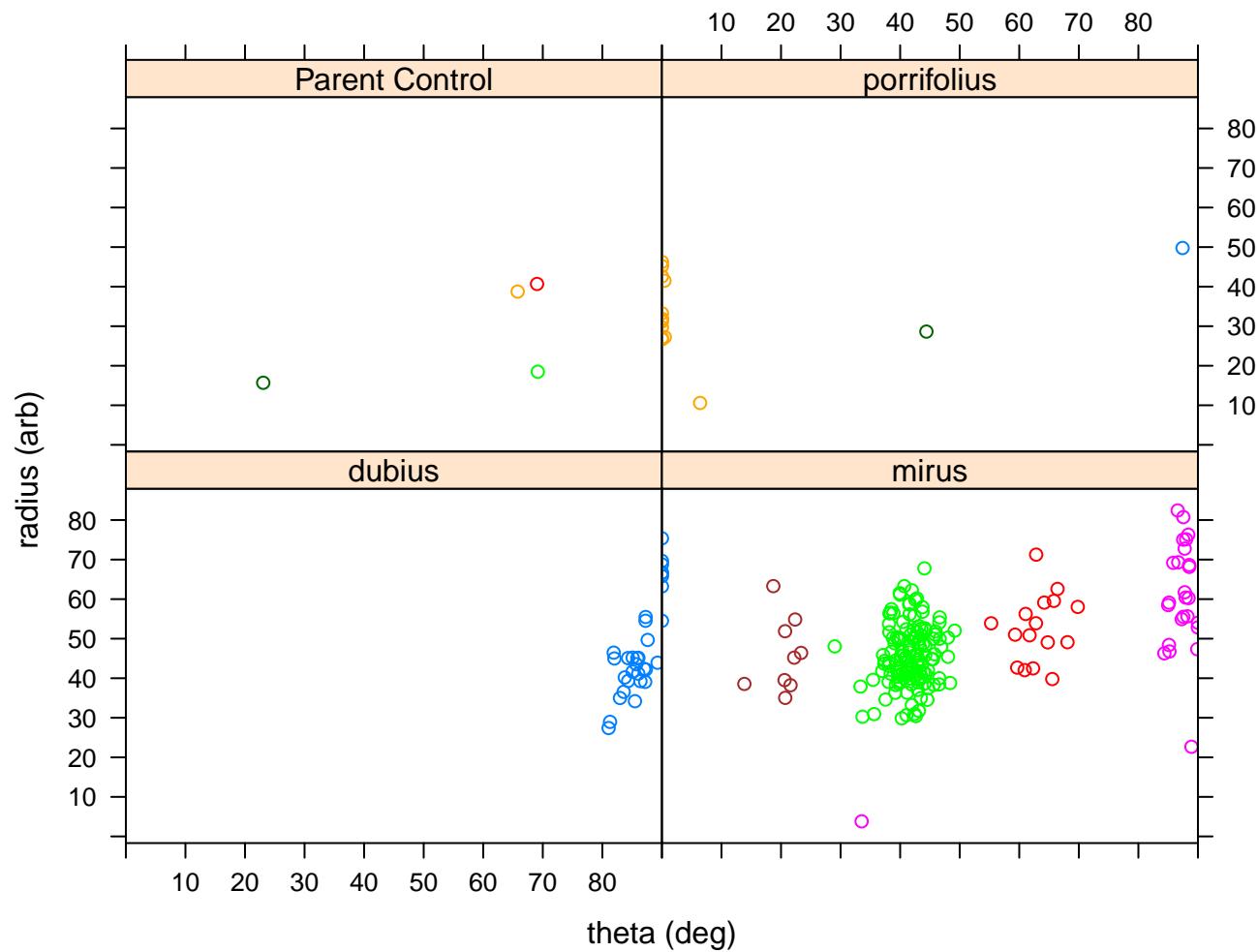
miscellus



V_2_5_isotig04427_803 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig04427_803 cDNA

Call

HH	○	LLLH	○
HHHH	○	LLLL	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

90
80
70
60
50
40
30
20
10

dubius

mirus

radius (arb)

90
80
70
60
50
40
30
20
10

10 20 30 40 50 60 70 80

theta (deg)

50

40

30

20

10

V_2_5_isotig04610_451 gDNA

Call

HH	○	PM3_1_1	○
LHHH	○	PM3_1_2	○
LL	○	PM3_2_1	○
LLHH	○	PM4	○
LLLL	○	PM5	○
No_Alleles	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

22
20
18
16
14
12
10
8
6
4
2
0

dubius

miscellus

22
20
18
16
14
12
10
8
6
4
2
0

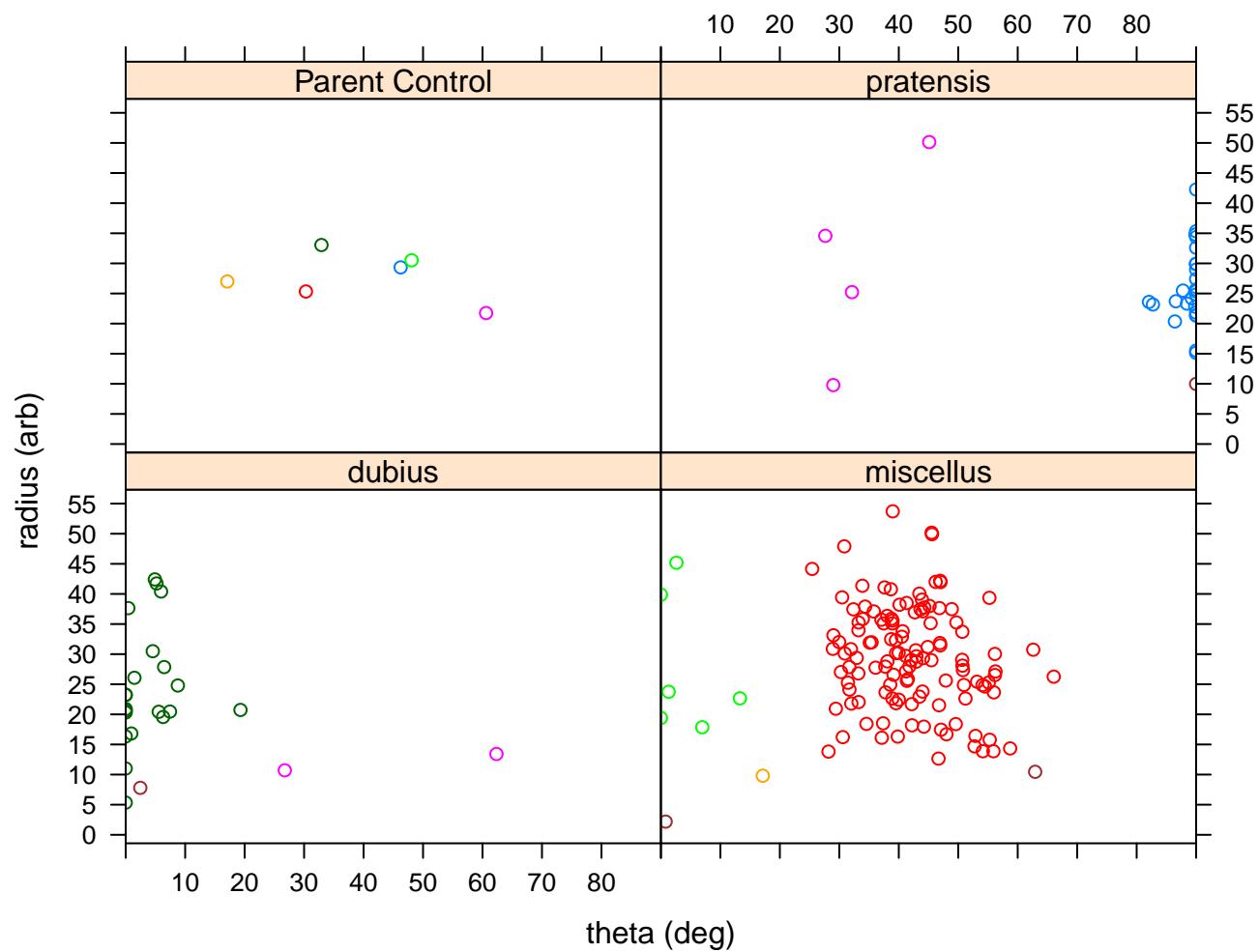
radius (arb)

theta (deg)

V_2_5_isotig04610_451 cDNA

Call

HH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LL	○	PM3_2_1	○
LLHH	○	PM4	○
LLLH	○	PM5	○
LLLL	○	PM6	○
No_Alleles	○		



V_2_5_isotig04702_1015 gDNA

Call

HH	○	PM3_1_2	○
HHHH	○	PM3_2_1	○
LHHH	○	PM4	○
LL	○	PM5	○
LLLL	○	PM6	○
PM3_1_1	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

110
100
90
80
70
60
50
40
30
20
10

dubius

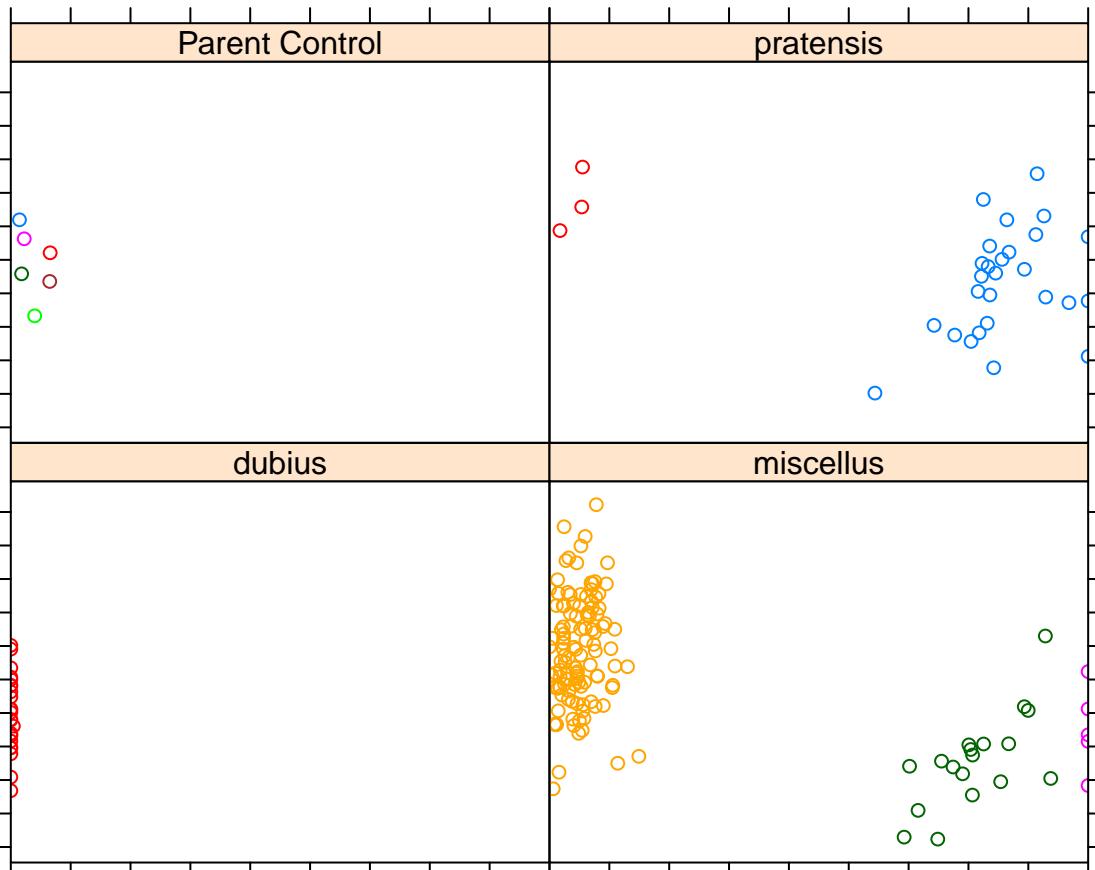
miscellus

110
100
90
80
70
60
50
40
30
20
10

radius (arb)

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig04702_1015 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLLH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

90
80
70
60
50
40
30
20
10
0

dubius

miscellus

radius (arb)

90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig04839_480 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

90
80
70
60
50
40
30
20
10
0

dubius

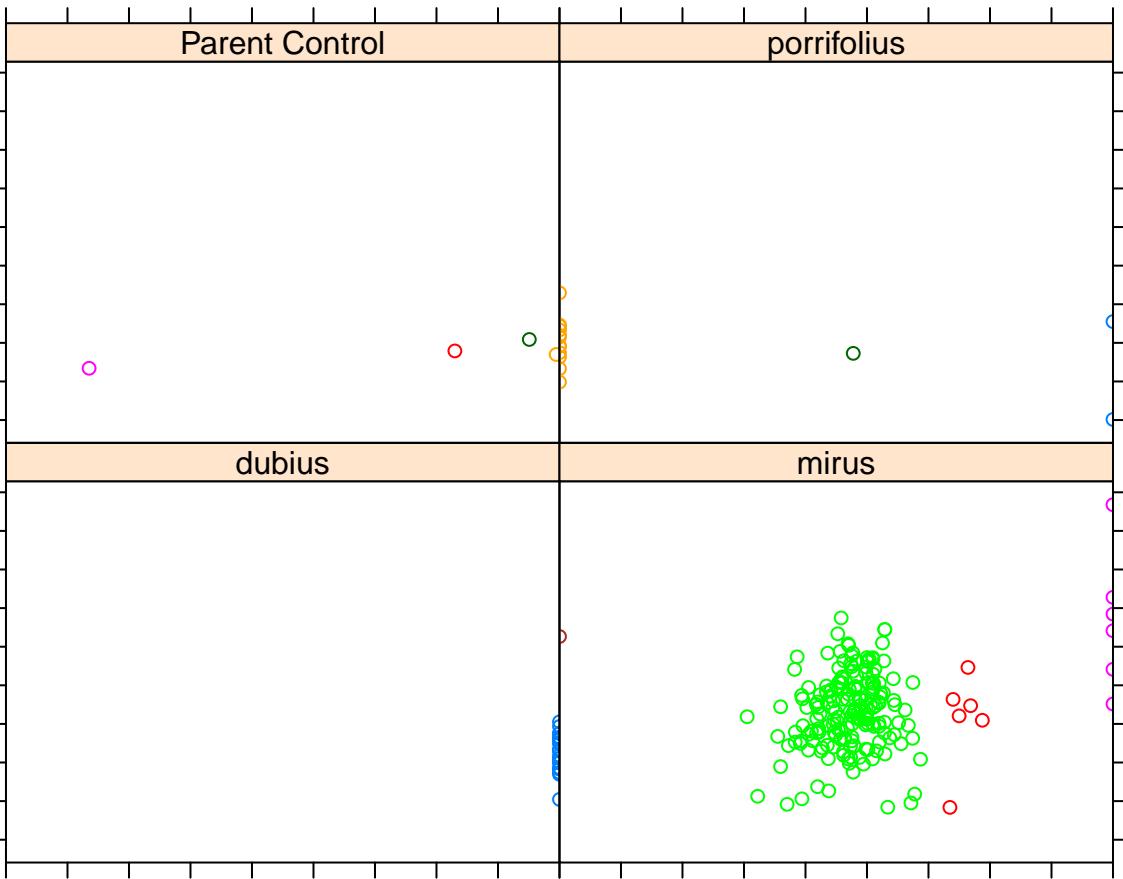
mirus

radius (arb)

90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig04839_480 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLL	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

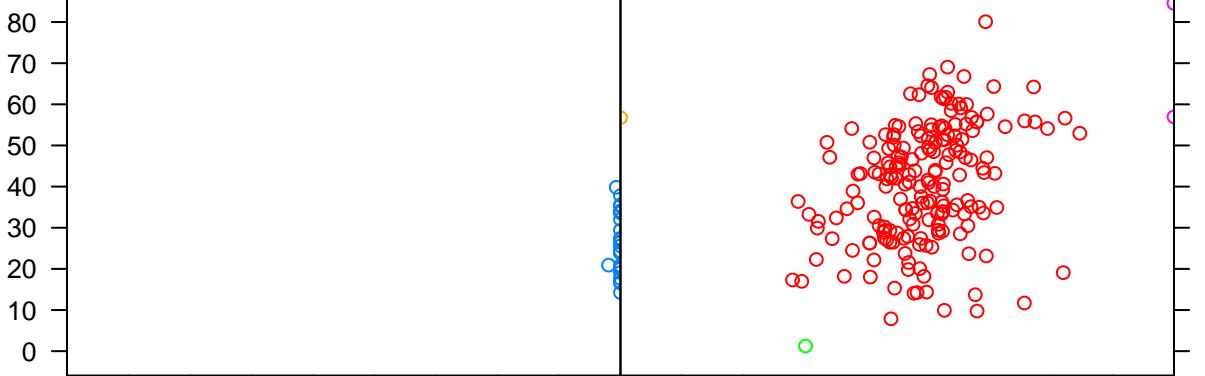
porrifolius

80
70
60
50
40
30
20
10
0

radius (arb)

dubius

mirus



theta (deg)

V_2_5_isotig04980_1080 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LL	○	PM3_2_1	○
LLHH	○	PM4	○
LLLH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

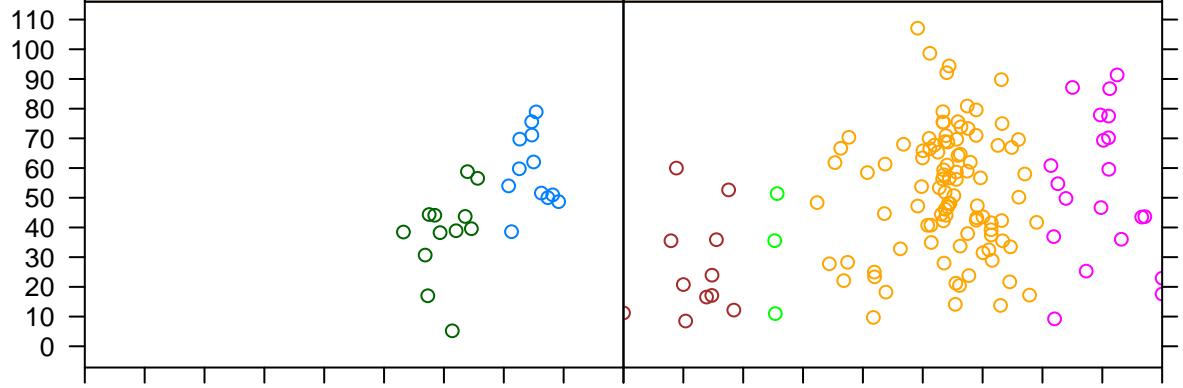
Parent Control

pratensis

110
100
90
80
70
60
50
40
30
20
10
0

dubius

miscellus



theta (deg)

V_2_5_isotig05050_517 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

radius (arb)

110
100
90
80
70
60
50
40
30
20
10

dubius

mirus

110
100
90
80
70
60
50
40
30
20
10

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig05050_517 cDNA

Call

HH	○	LLLH	○
HHHH	○	LLLL	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

110
100
90
80
70
60
50
40
30
20

dubius

mirus

110
100
90
80
70
60
50
40
30
20

10 20 30 40 50 60 70 80

theta (deg)

radius (arb)

V_2_5_isotig05050_728 gDNA

Call

Bad_Spectrum	LLLL	○
HH	No_Alleles	○
HHHH	PM1	○
LH	PM2_1_1	○
LL	PM2_1_2	○
LLHH	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

20
18
16
14
12
10
8
6
4
2
0

dubius

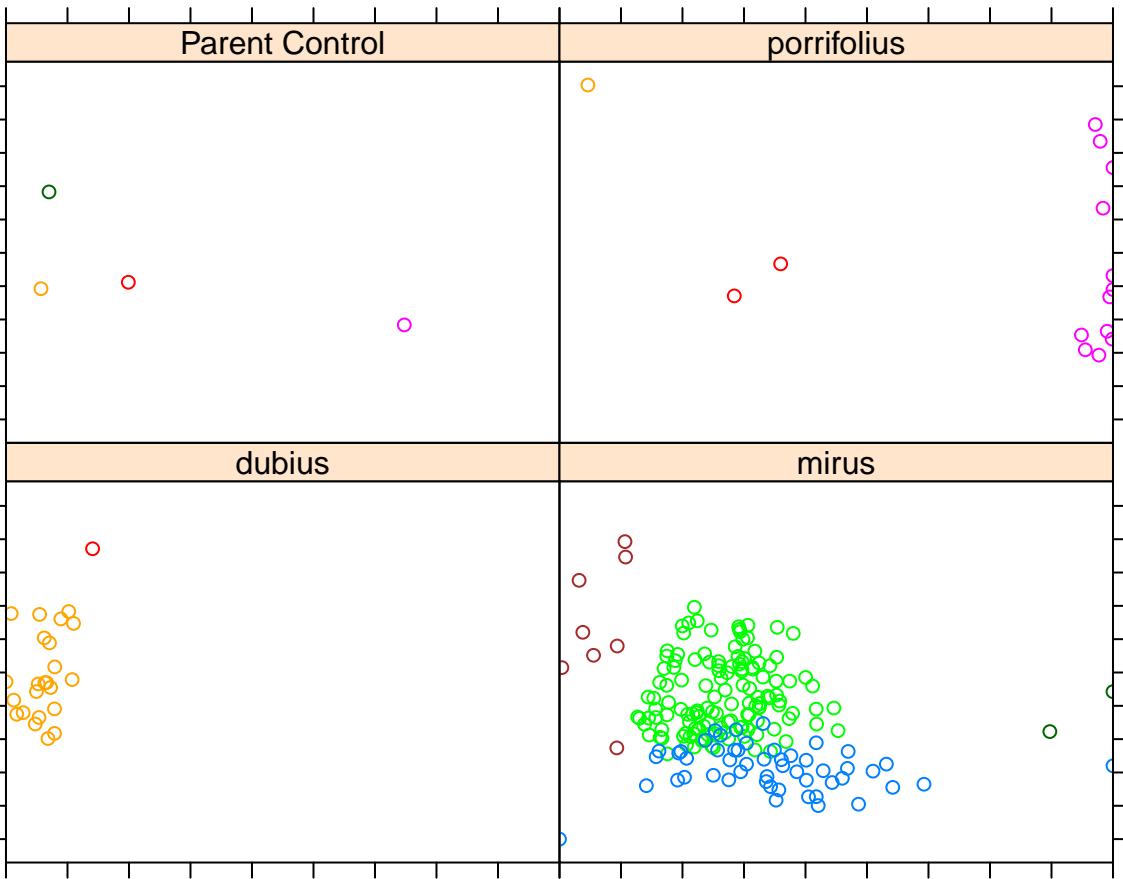
mirus

20
18
16
14
12
10
8
6
4
2
0

10 20 30 40 50 60 70 80

theta (deg)

radius (arb)



V_2_5_isotig05050_728 cDNA

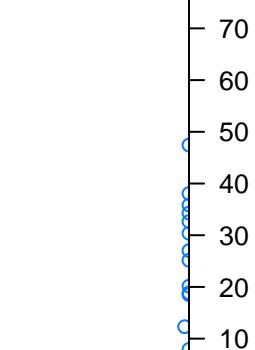
Call

HH	○	LLLH	○
HHHH	○	LLLL	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius



radius (arb)

theta (deg)

V_2_5_isotig05054_228 gDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

porrifolius

55
50
45
40
35
30
25
20
15
10
5
0

dubius

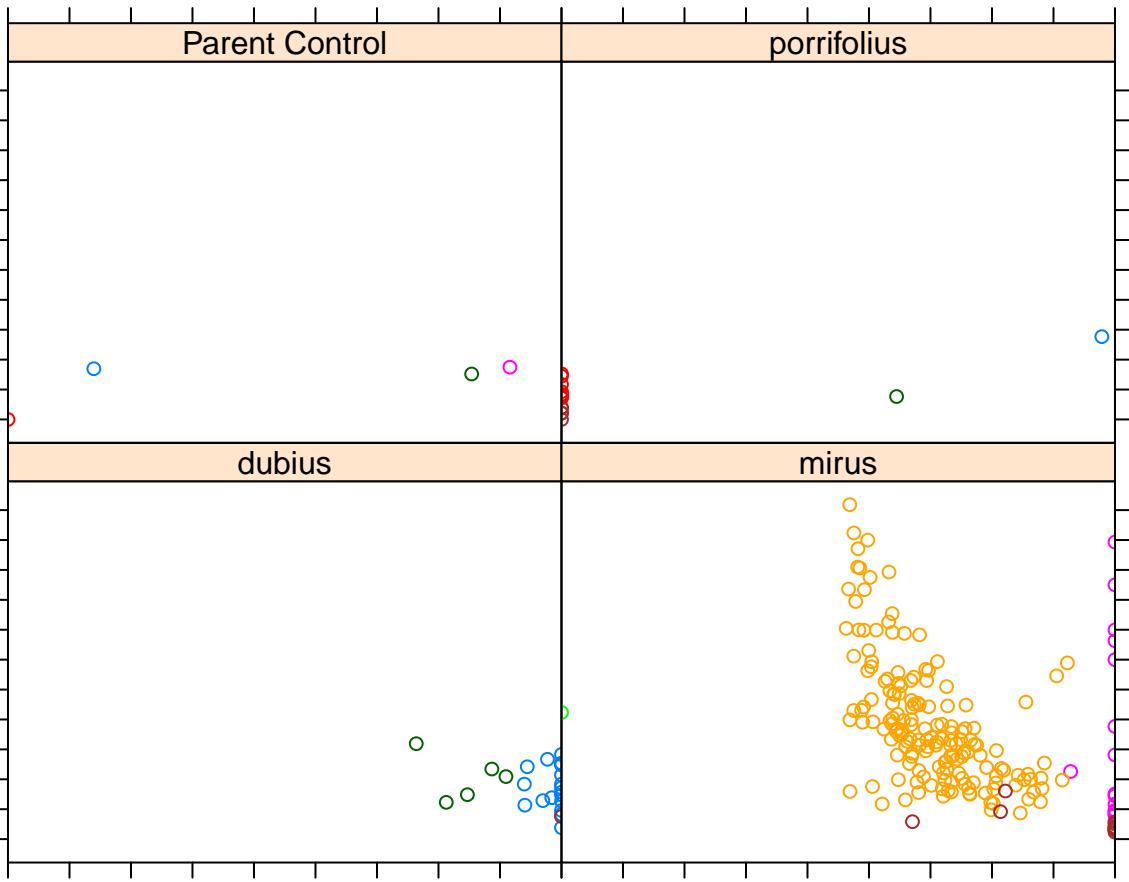
mirus

radius (arb)

55
50
45
40
35
30
25
20
15
10
5
0

10 20 30 40 50 60 70 80

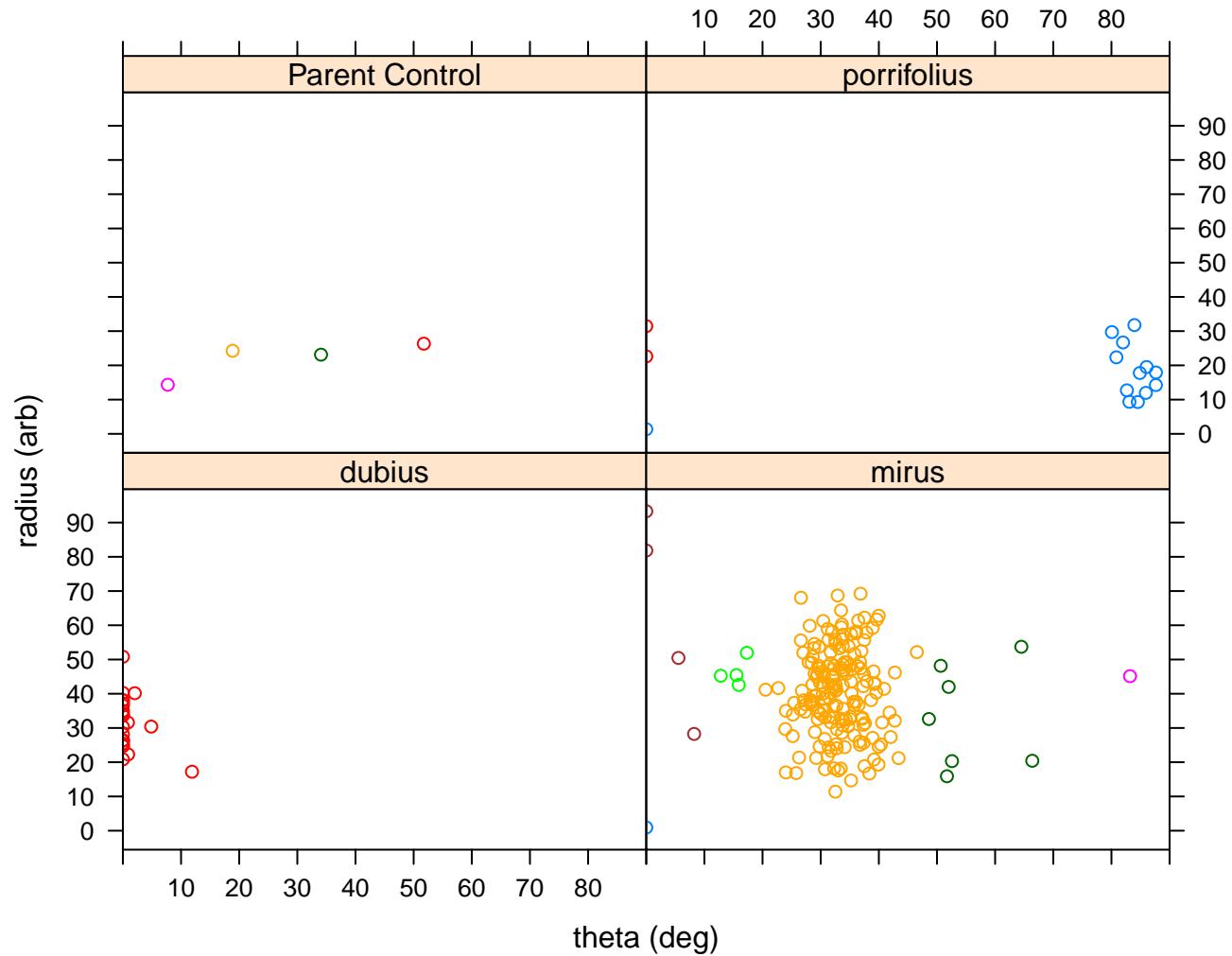
theta (deg)



V_2_5_isotig05111_345 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LHHH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○



V_2_5_isotig05157_623 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LHHH	○	PM2_1_2	○
LL	○	PM2_2_1	○
LLHH	○		

10 20 30 40 50 60 70 80

Parent Control

porrifolius

90
80
70
60
50
40
30
20
10

dubius

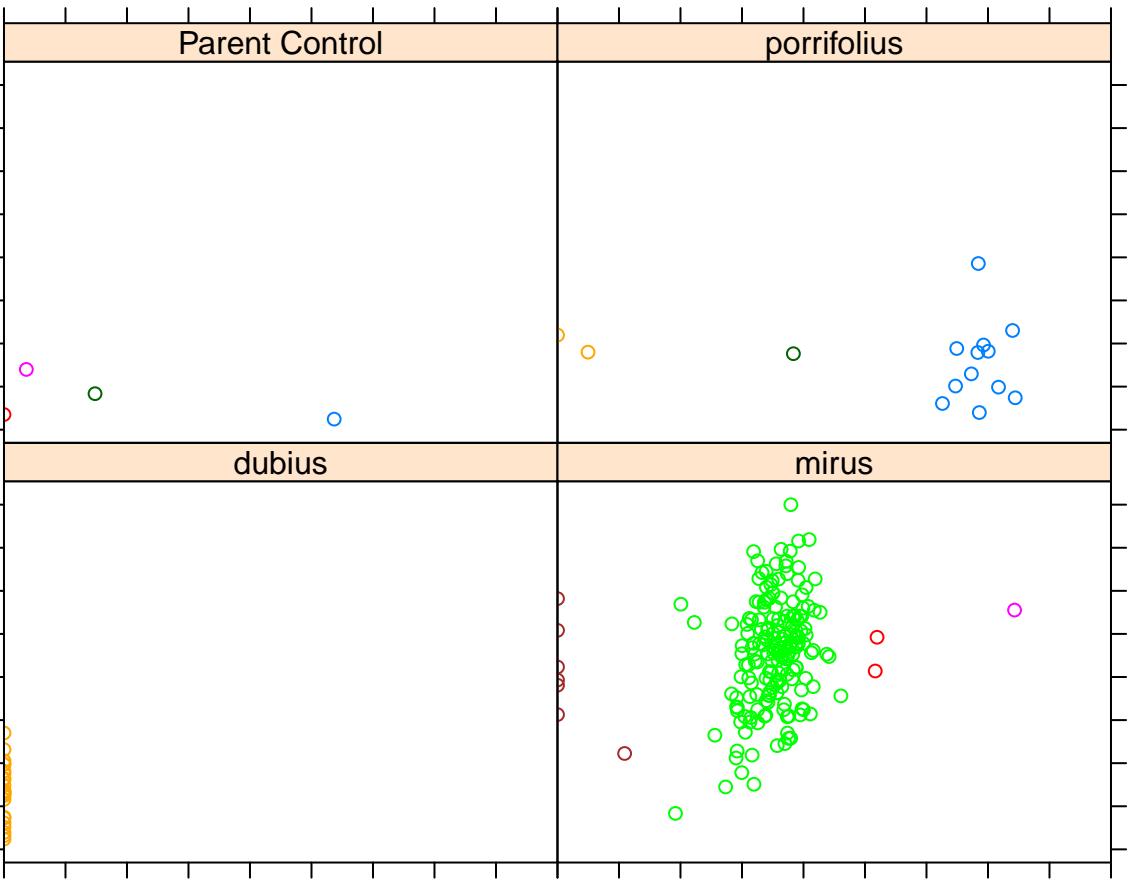
mirus

radius (arb)

90
80
70
60
50
40
30
20
10

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig05210_439 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

radius (arb)

110
100
90
80
70
60
50
40
30
20

dubius

miscellus

110
100
90
80
70
60
50
40
30
20

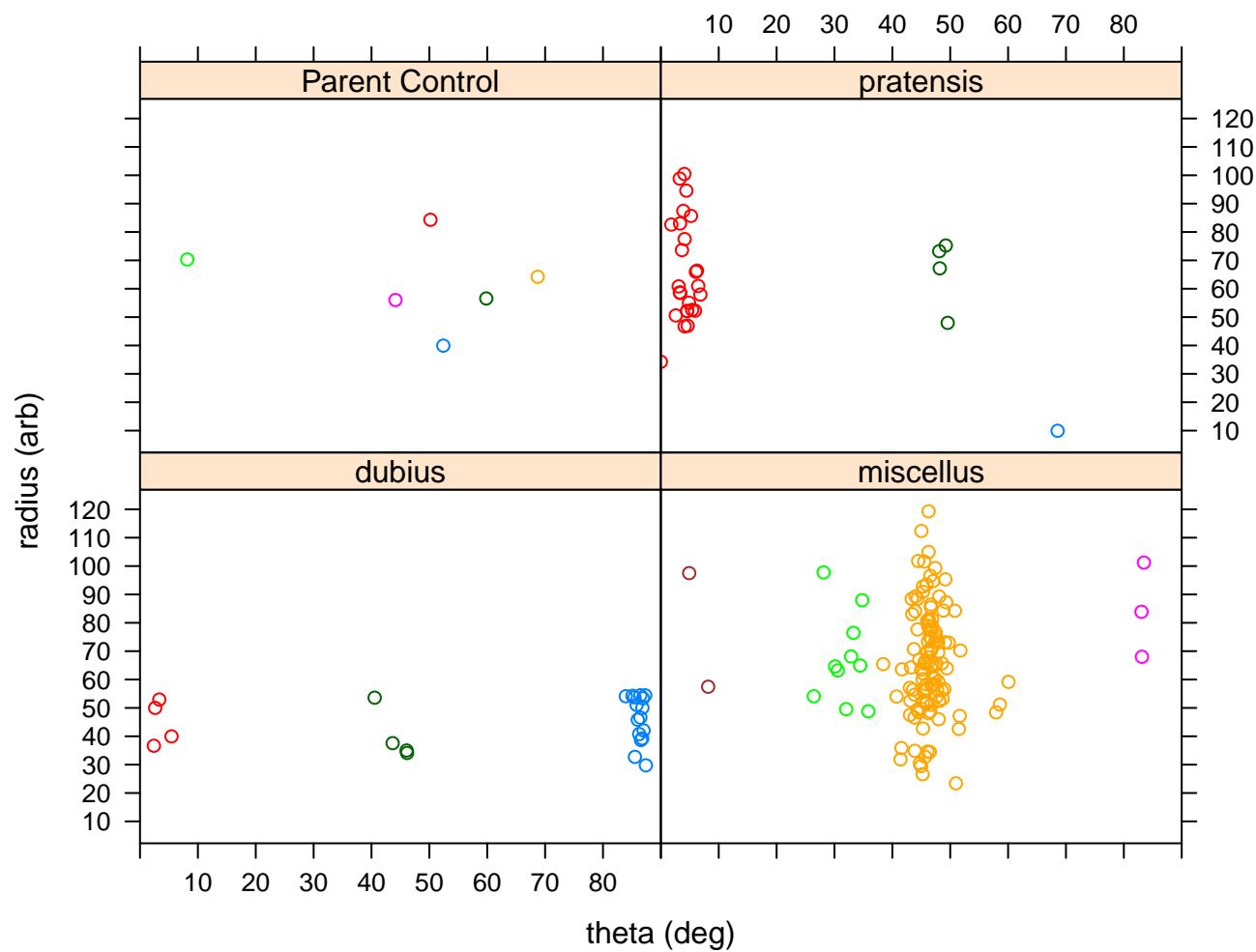
10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig05210_439 cDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		



V_2_5_isotig05249_767 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LHHH	○	PM2_1_2	○
LL	○	PM2_2_1	○
LLHH	○		

10 20 30 40 50 60 70 80

Parent Control

porrifolius

70
60
50
40
30
20
10
0

dubius

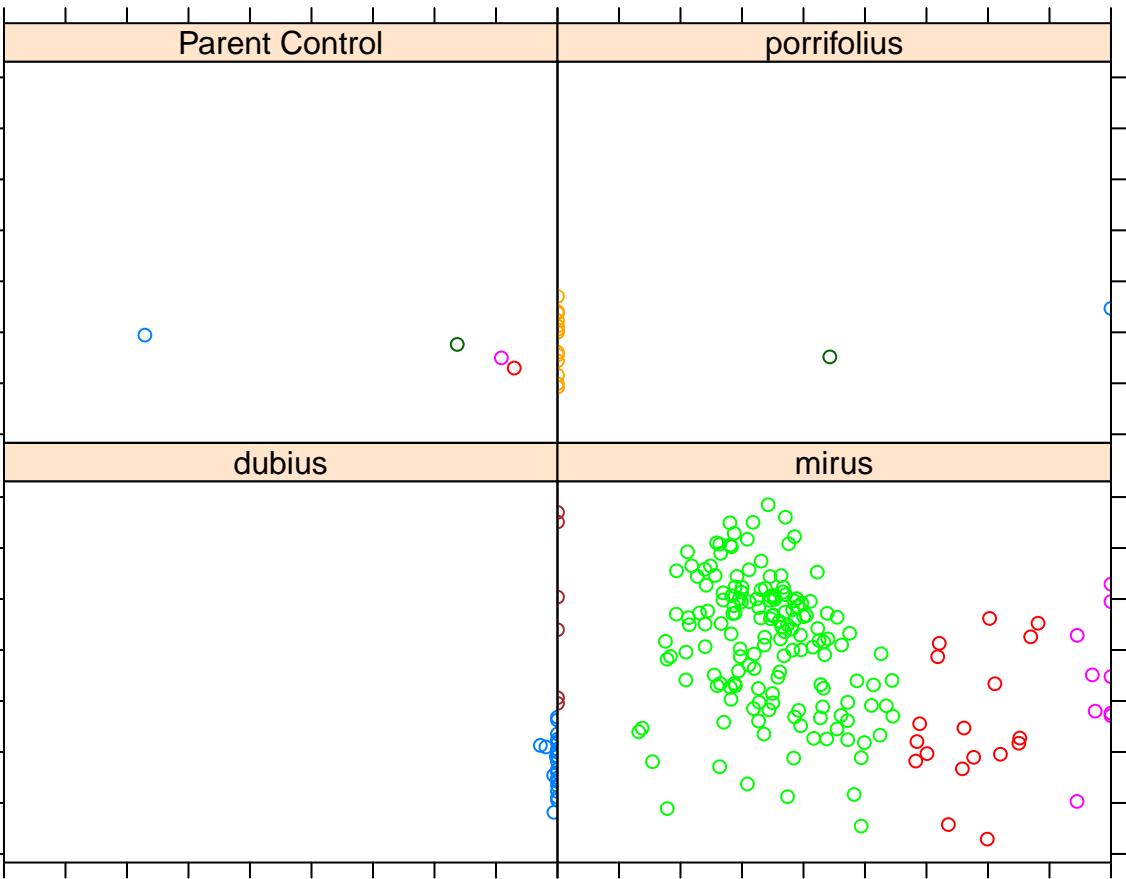
mirus

70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)

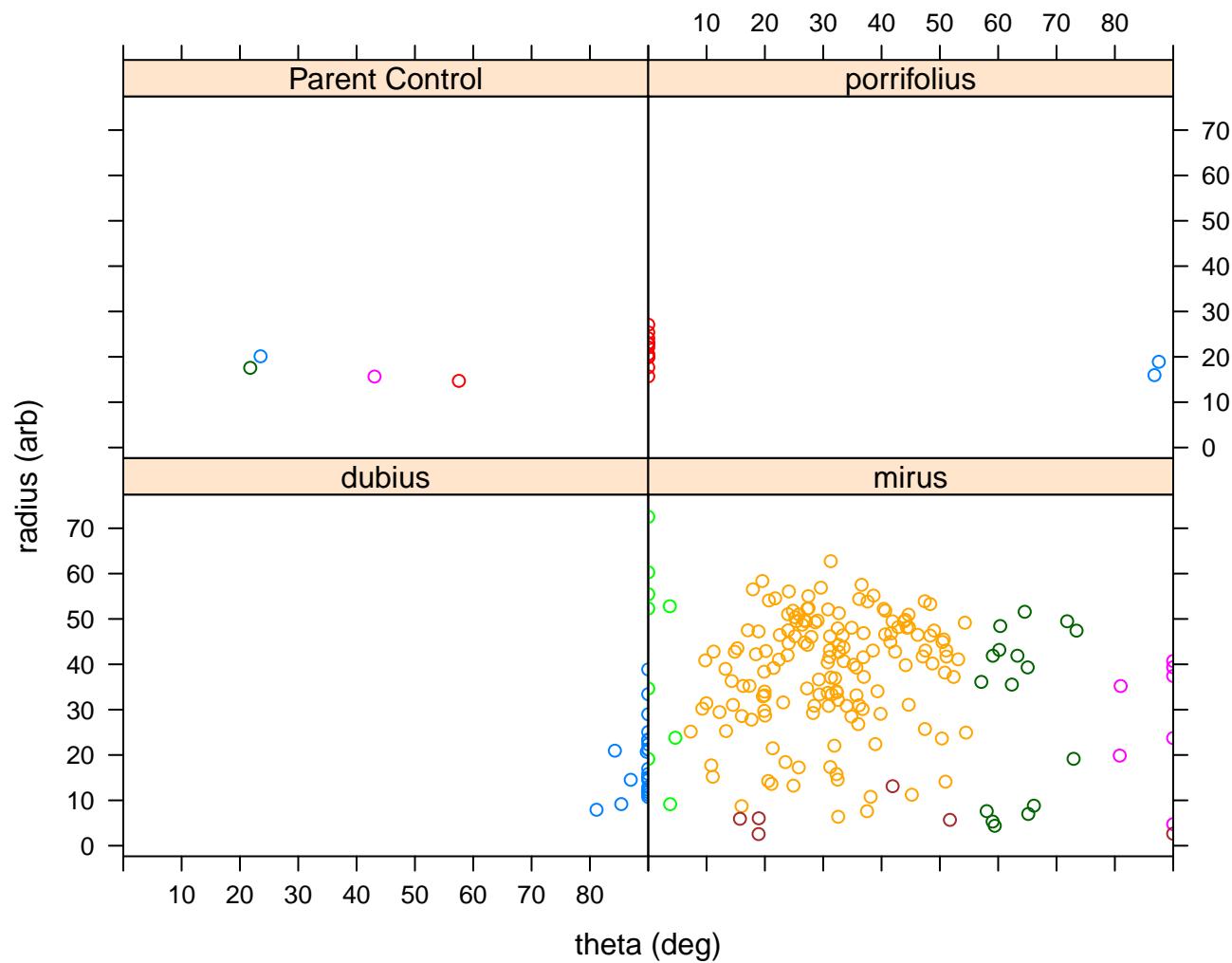
radius (arb)



V_2_5_isotig05249_767 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLL	○		



V_2_5_isotig05315_404 gDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLLL	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

140
120
100
80
60
40
20
0

dubius

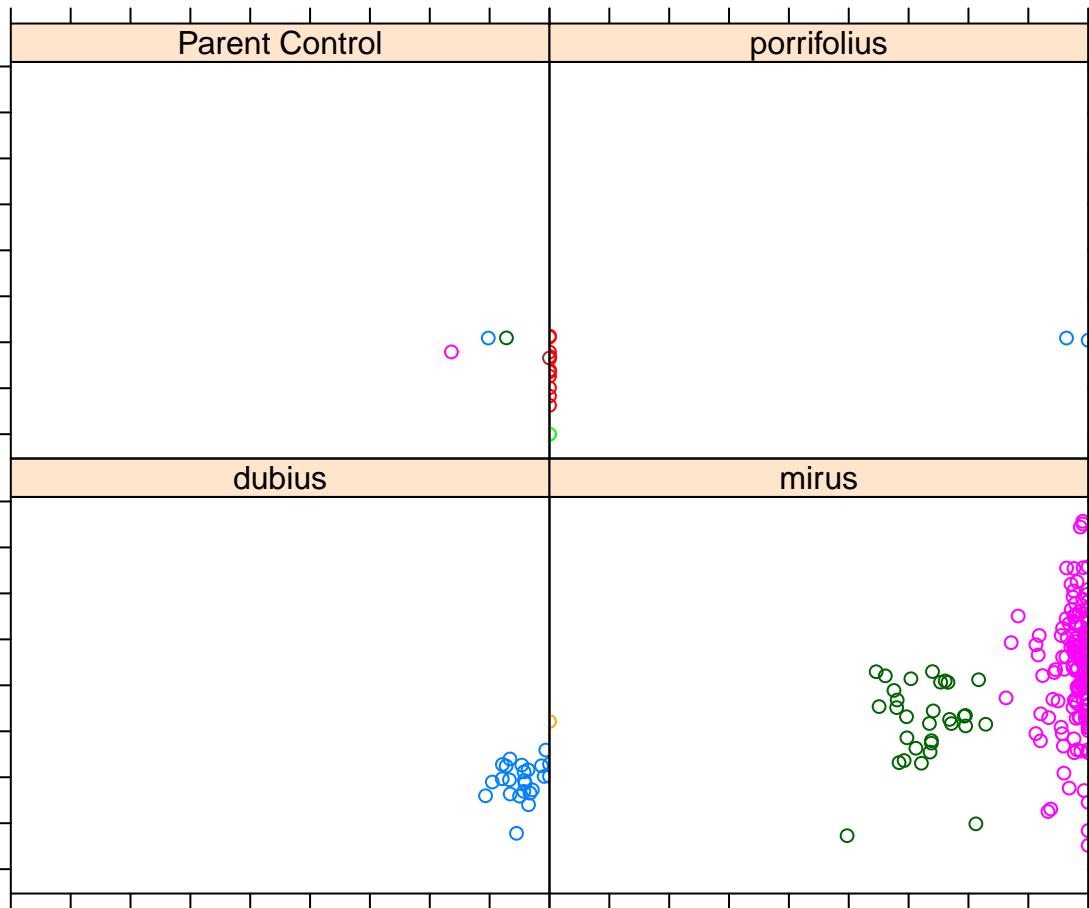
mirus

radius (arb)

140
120
100
80
60
40
20
0

10 20 30 40 50 60 70 80

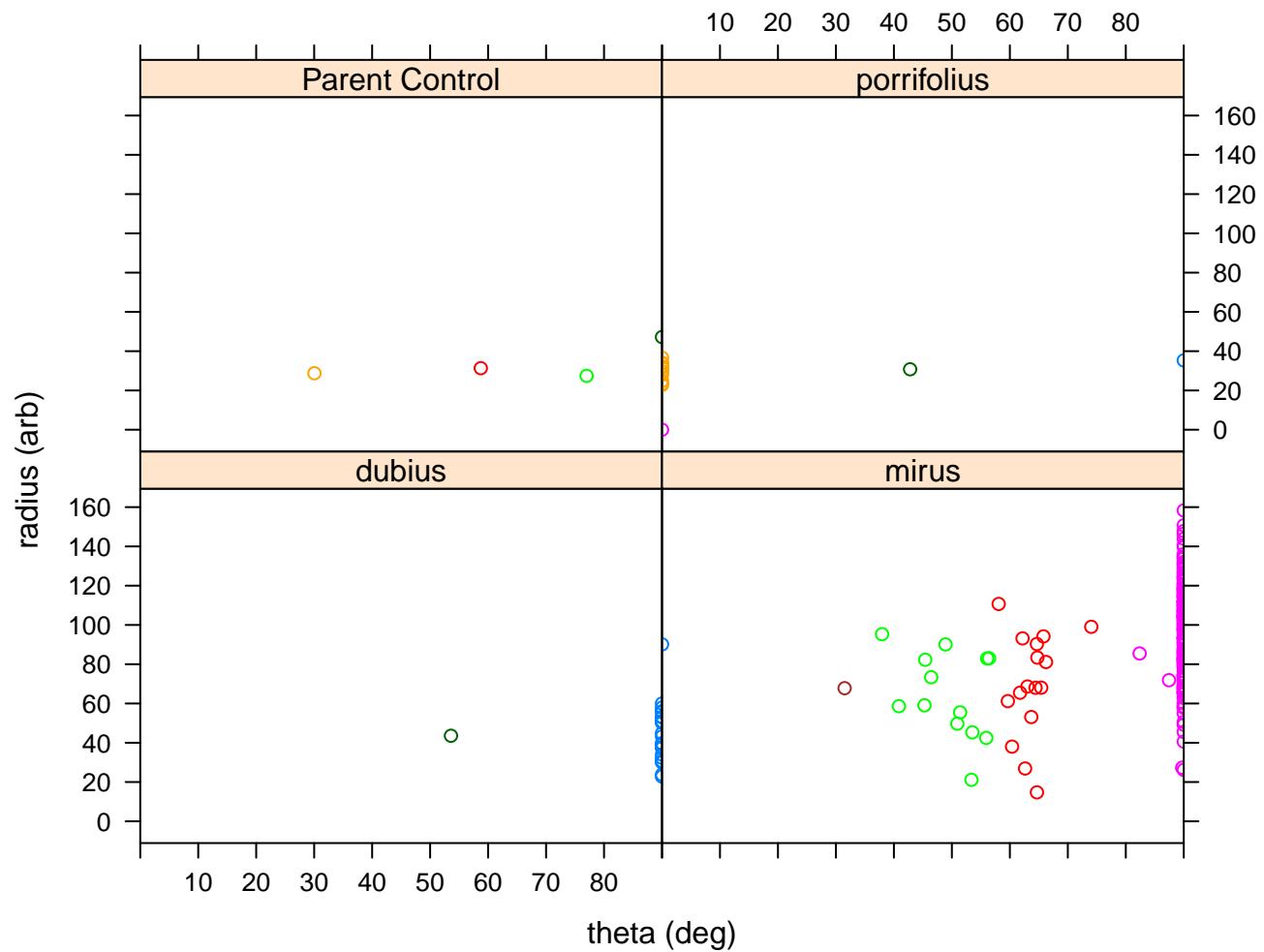
theta (deg)



V_2_5_isotig05315_404 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig05419_200 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

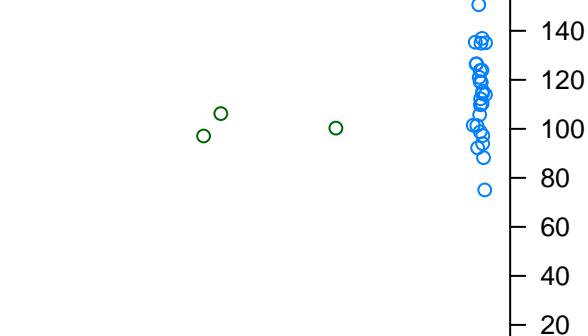
Parent Control

pratensis

radius (arb)

dubius

miscellus



10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig05419_200 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LL	○	PM3_2_1	○
LLHH	○	PM4	○
LLLH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

160
140
120
100
80
60
40
20

dubius

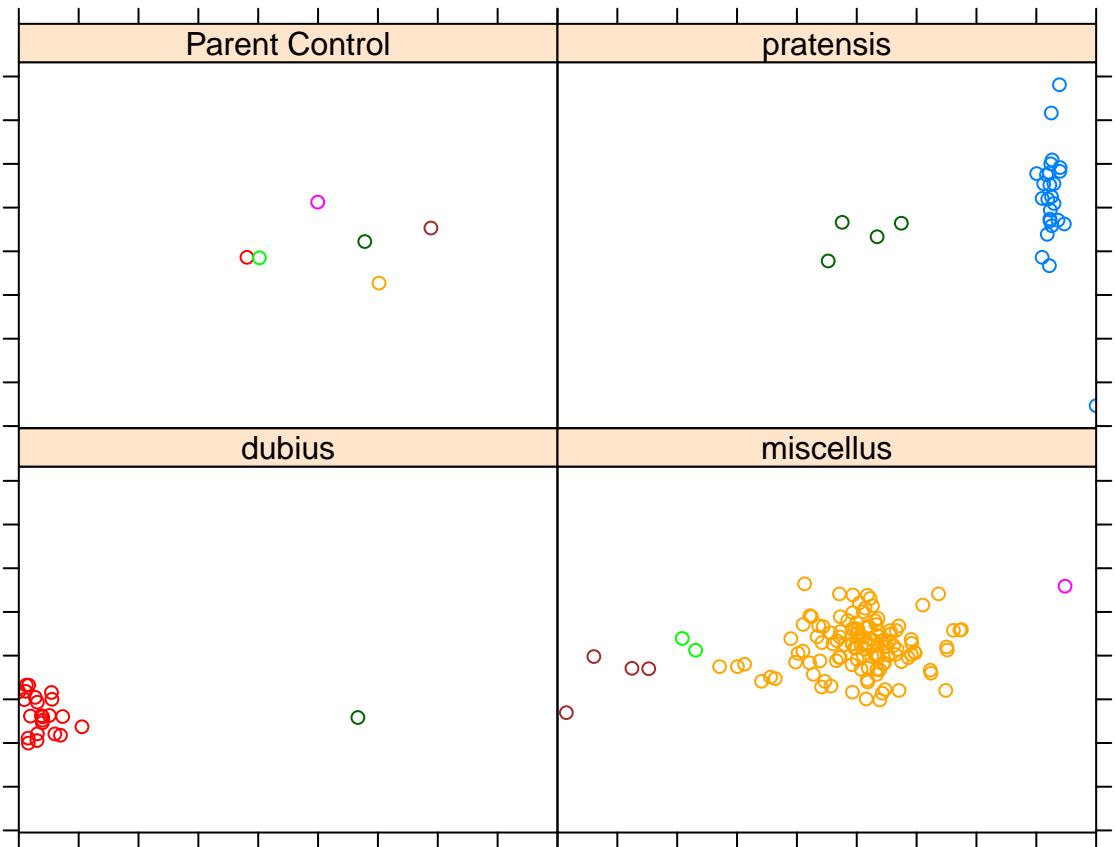
miscellus

160
140
120
100
80
60
40
20

radius (arb)

10 20 30 40 50 60 70 80

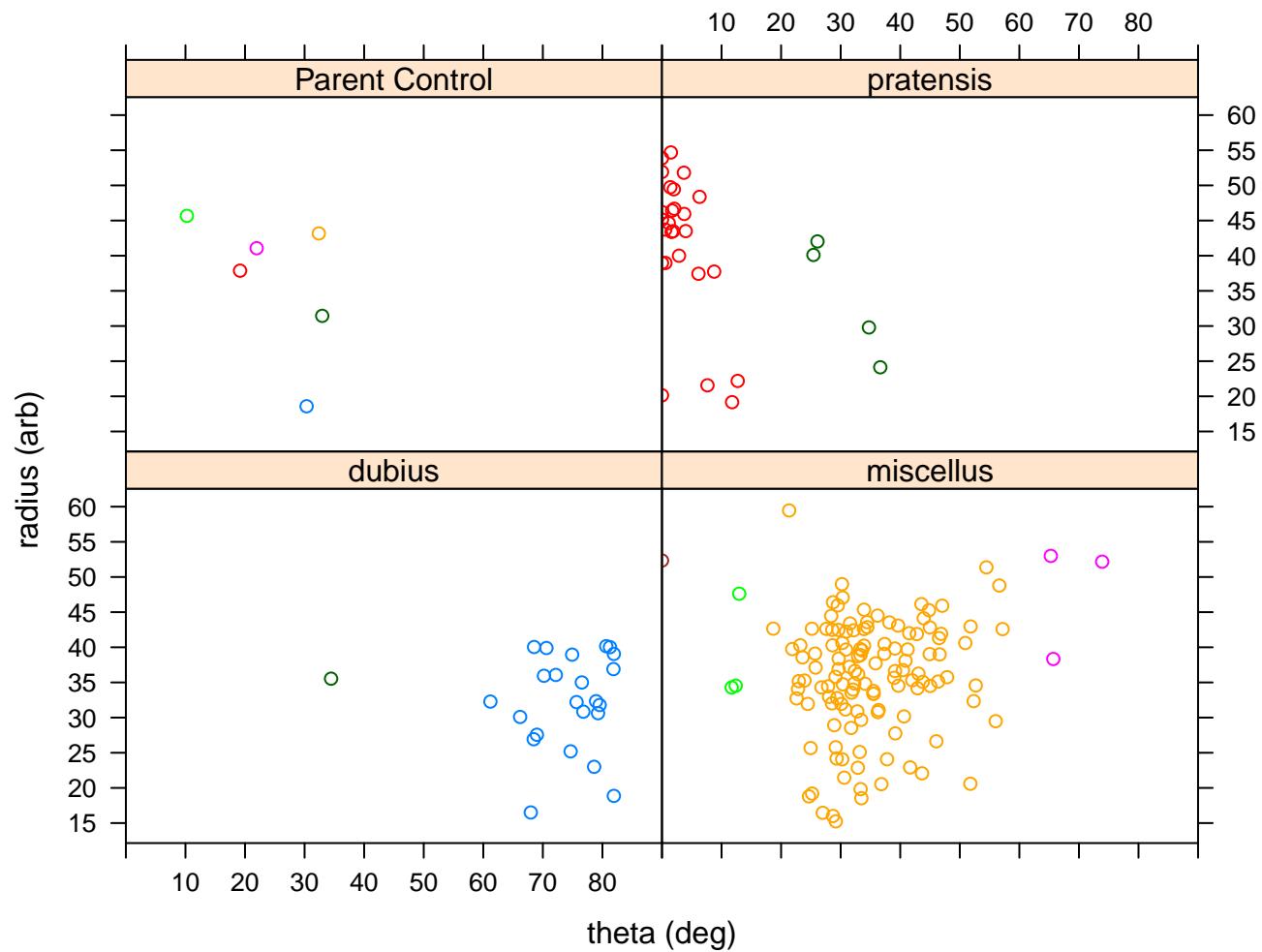
theta (deg)



V_2_5_isotig05419_324 cDNA

Call

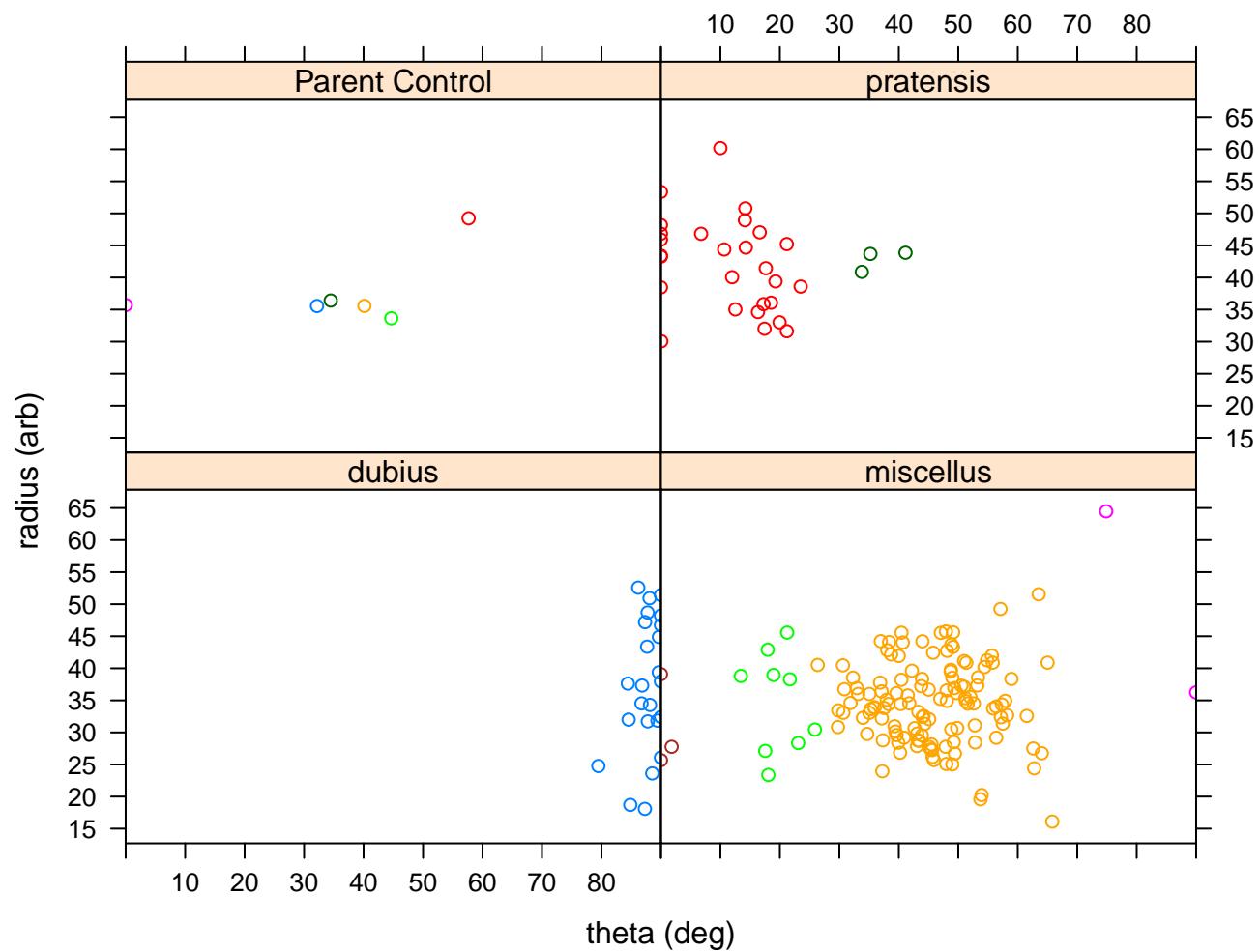
HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		



V_2_5_isotig05419_426 gDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		



V_2_5_isotig05419_426 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

80
70
60
50
40
30
20
10

dubius

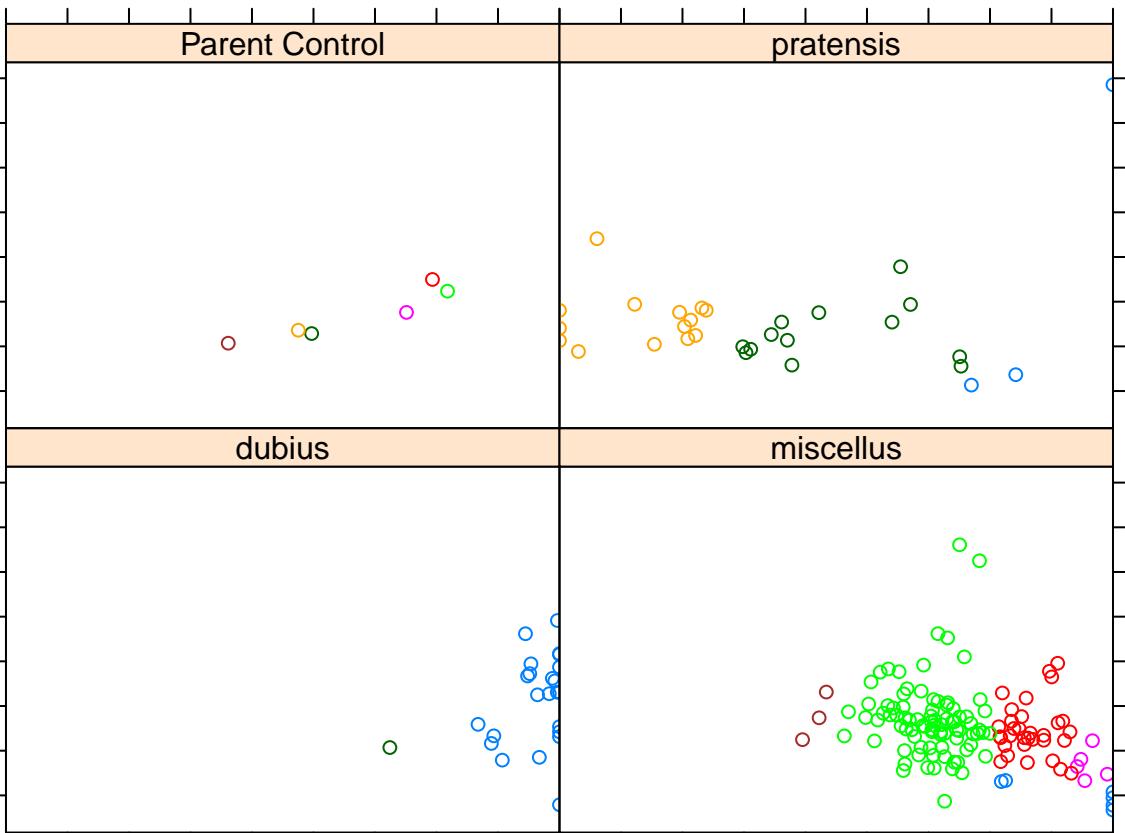
miscellus

radius (arb)

80
70
60
50
40
30
20
10

10 20 30 40 50 60 70 80

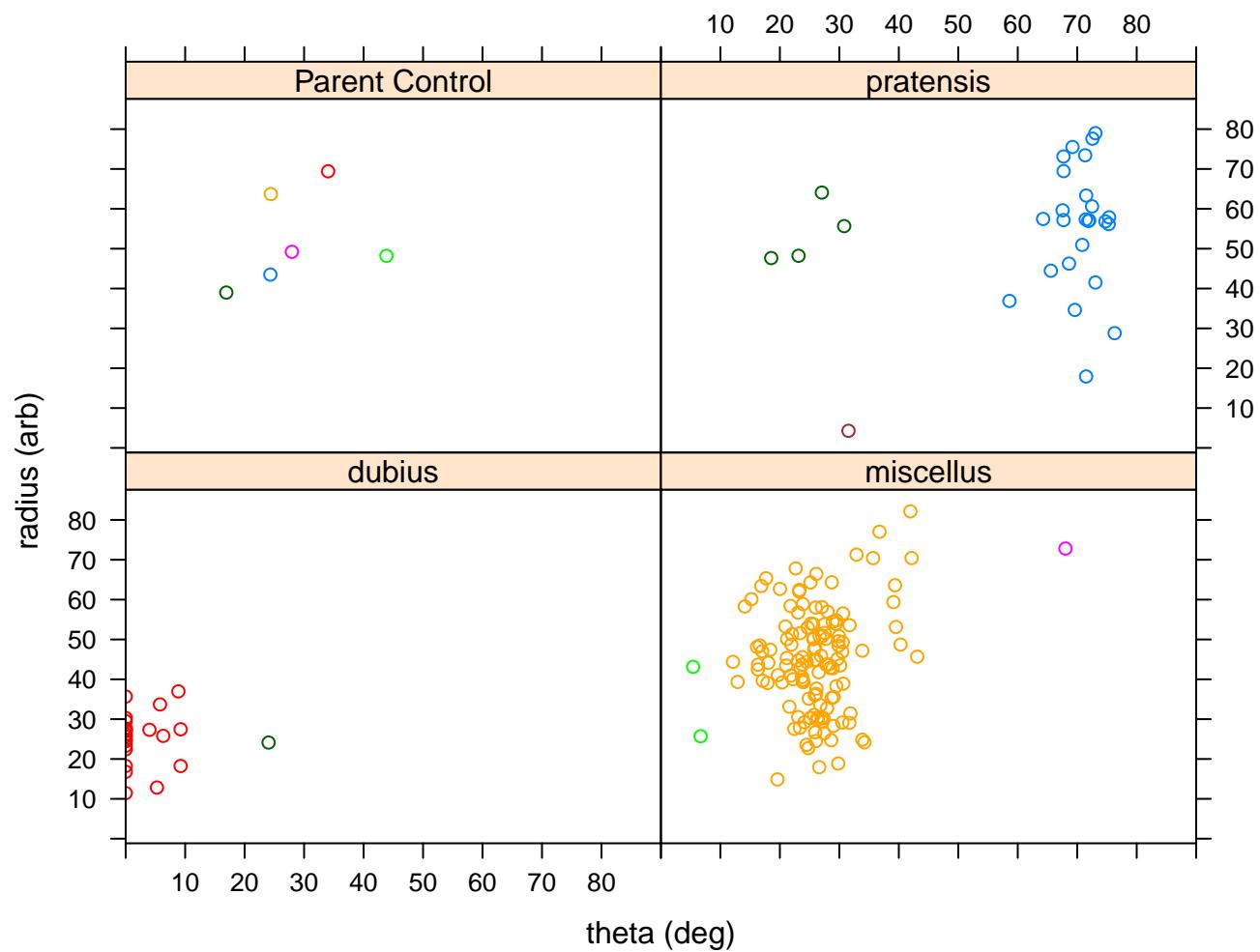
theta (deg)



V_2_5_isotig05419_568 cDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○
No_Alleles	○		



V_2_5_isotig05419_83 gDNA

Call

Bad_Spectrum
HH
HHHH
LH
LHHH
LL
LLHH
LLLH

LLLL
PM3_1_1
PM3_1_2
PM3_2_1
PM4
PM5
PM6

purple

green

red

yellow

green

red

blue

Parent Control

pratensis

dubius

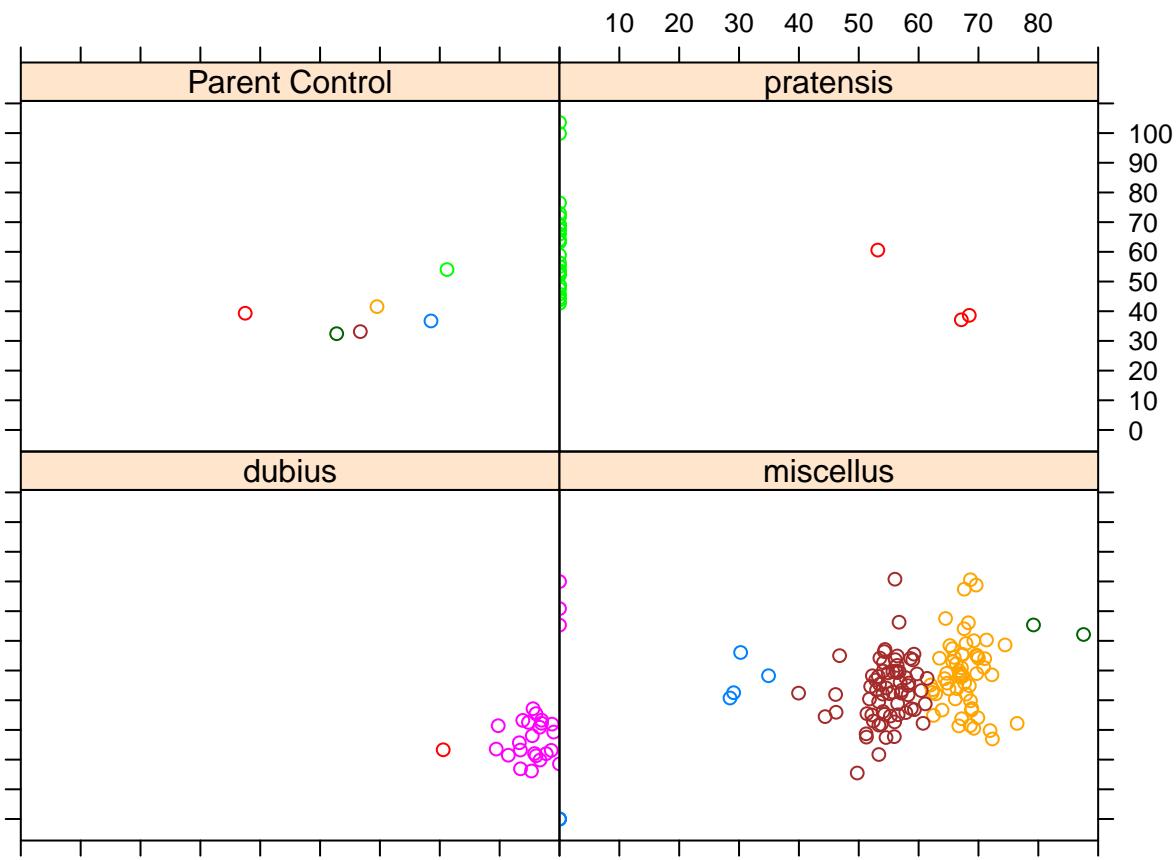
miscellus

radius (arb)

100
90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig05419_83 cDNA

Call

Bad_Spectrum	○	No_Aleles	○
HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

100
90
80
70
60
50
40
30
20
10
0

radius (arb)

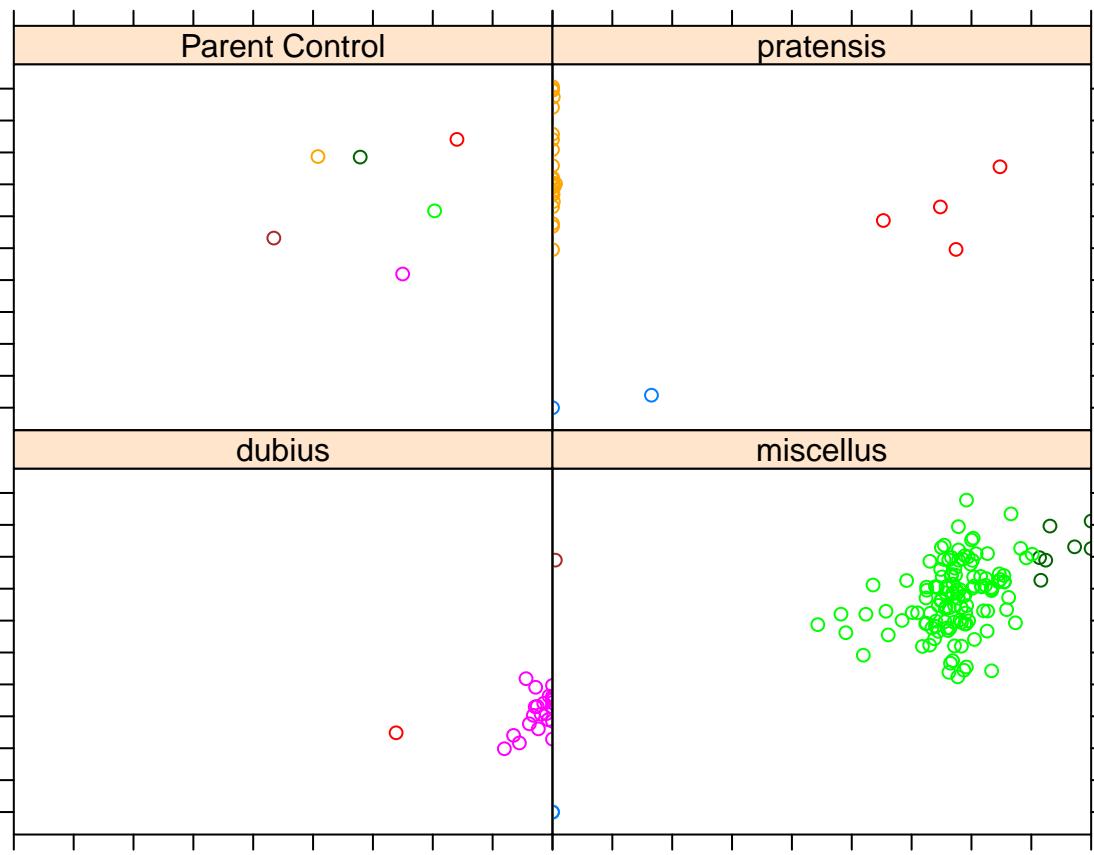
dubius

miscellus

100
90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

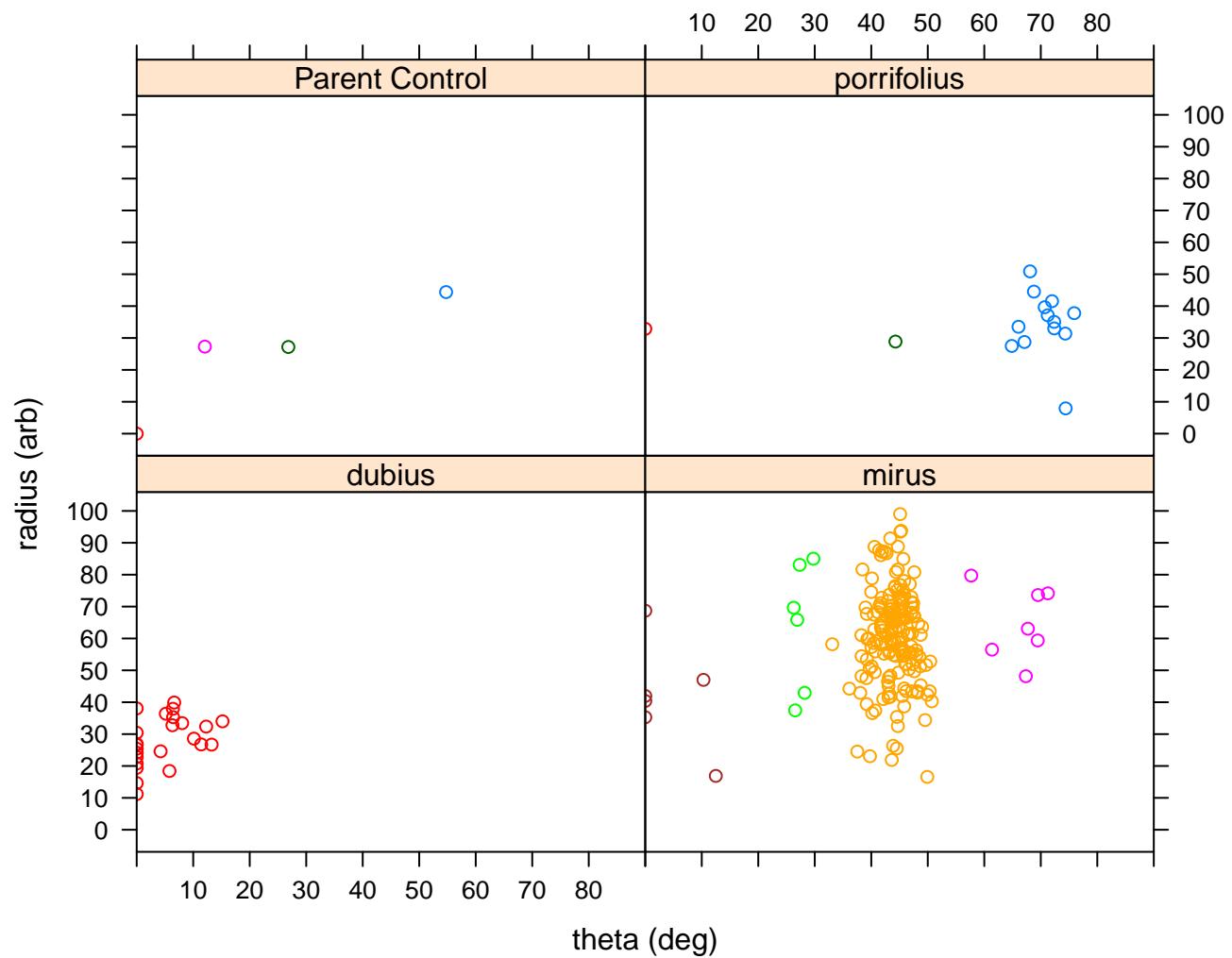
theta (deg)



V_2_5_isotig05450_44 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig05512_847 cDNA

Call

HH	○	LLLH	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

radius (arb)

dubius

mirus

10 20 30 40 50 60 70 80

theta (deg)

120
100
80
60
40
20
0

V_2_5_isotig05522_386 gDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LHHH	○	PM4	○
LL	○	PM5	○
LLHH	○	PM6	○
LLLH	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

radius (arb)

180
160
140
120
100
80
60
40
20

dubius

miscellus

180
160
140
120
100
80
60
40
20

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig05580_138 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		

10 20 30 40 50 60 70 80

Parent Control

porrifolius

130
120
110
100
90
80
70
60
50
40
30
20
10

dubius

mirus

130
120
110
100
90
80
70
60
50
40
30
20
10

10 20 30 40 50 60 70 80

theta (deg)

radius (arb)

V_2_5_isotig05580_138 cDNA

Call

HH	○	LLLL	○
HHHH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

160
140
120
100
80
60
40
20

dubius

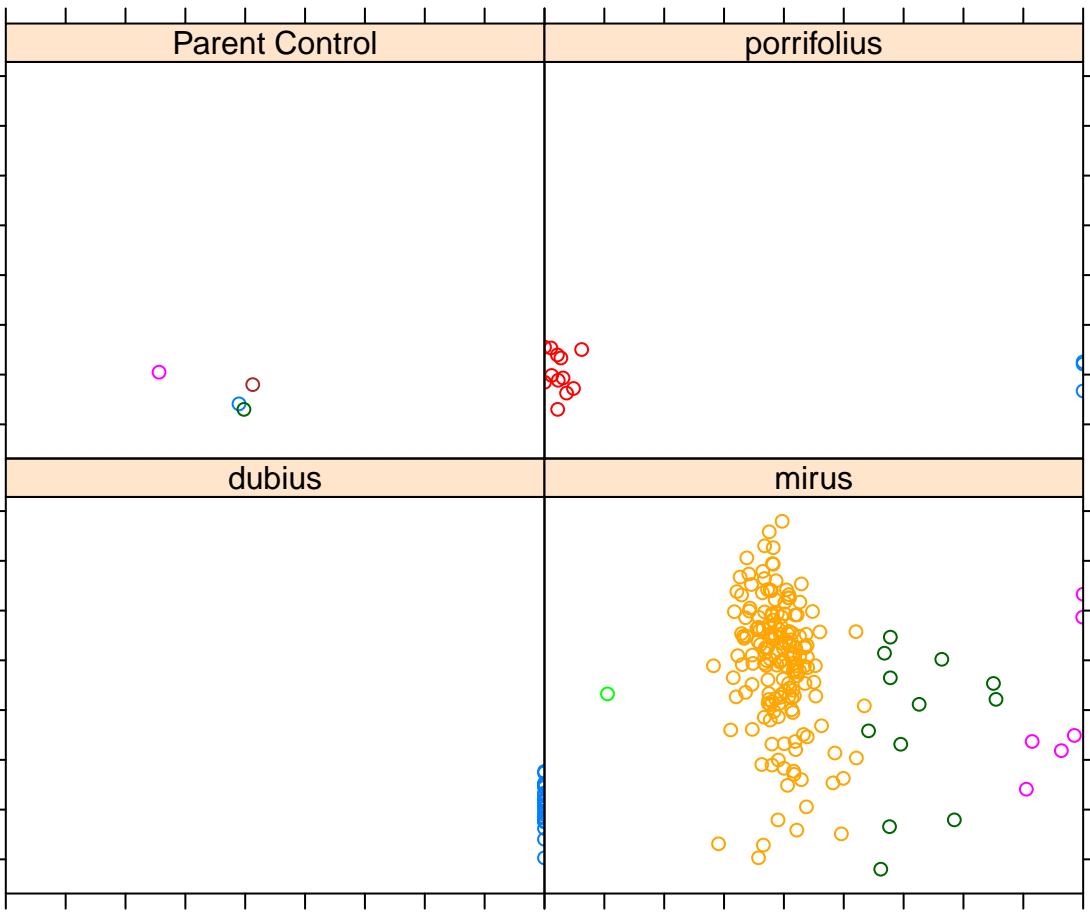
mirus

160
140
120
100
80
60
40
20

10 20 30 40 50 60 70 80

theta (deg)

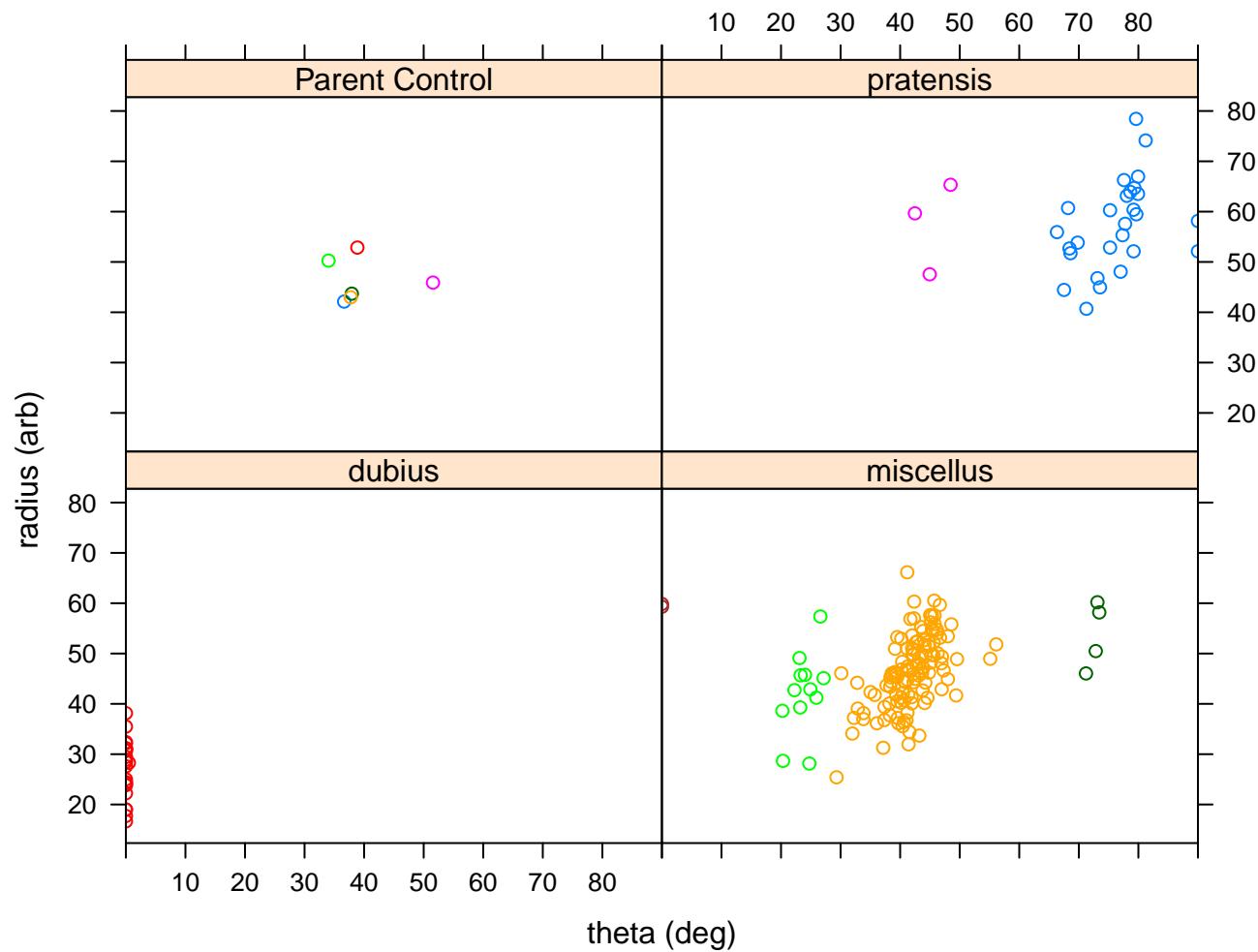
radius (arb)



V_2_5_isotig05586_160 gDNA

Call

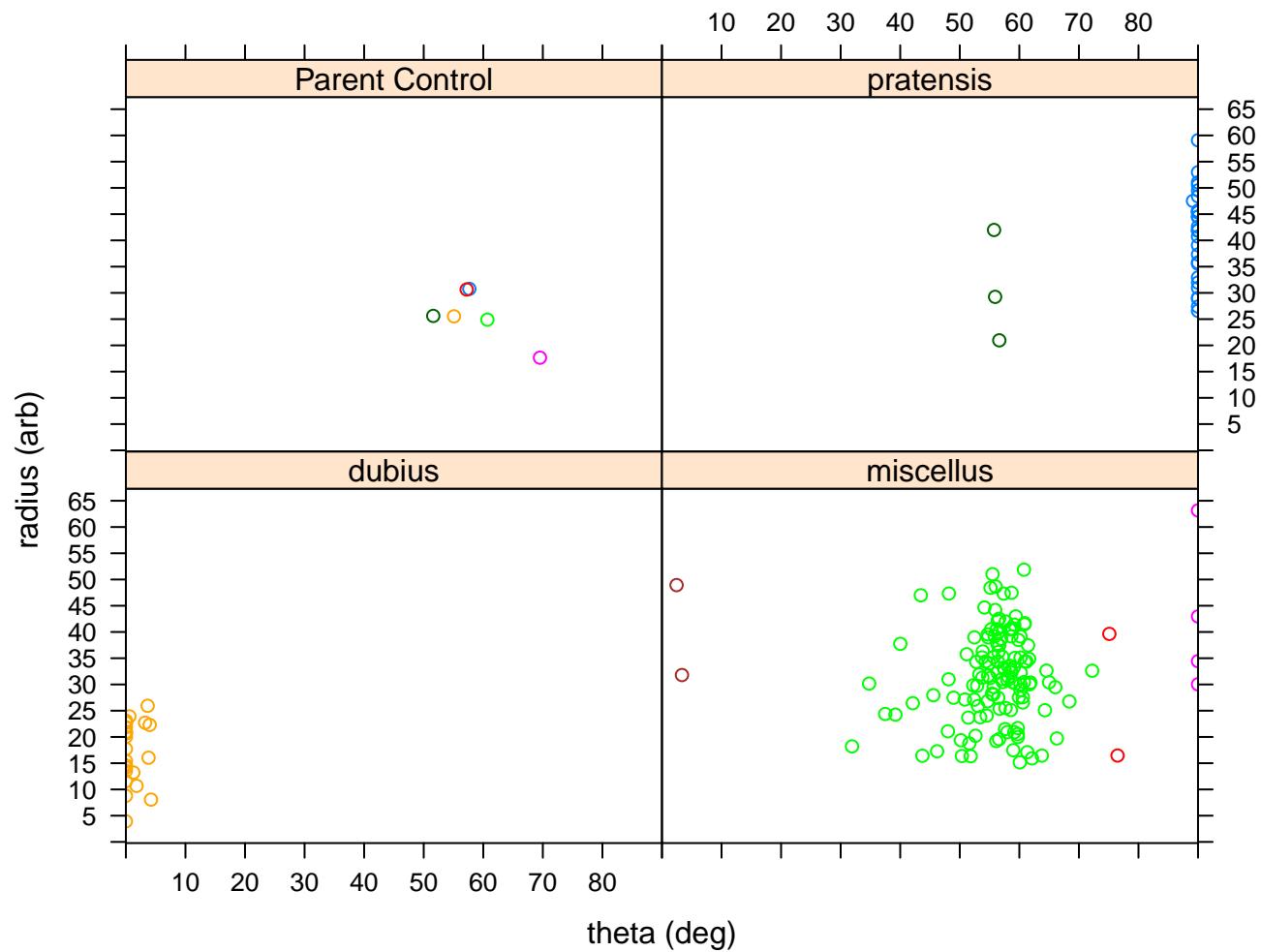
HH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		



V_2_5_isotig05586_259 gDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LHHH	○	PM4	○
LL	○	PM5	○
LLHH	○	PM6	○
LLLL	○		



V_2_5_isotig05586_259 cDNA

Call

Bad_Spectrum	LLLL	Bad_Spectrum
HH	PM3_1_1	HH
HHHH	PM3_1_2	HHHH
LH	PM3_2_1	LH
LHHH	PM4	LHHH
LL	PM5	LL
LLHH	PM6	LLHH
LLLH		LLLH

10 20 30 40 50 60 70 80

Parent Control

pratensis

100
90
80
70
60
50
40
30
20
10
0

dubius

miscellus

radius (arb)

100
90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)

10 20 30 40 50 60 70 80

V_2_5_isotig05586_376 gDNA

Call

Bad_Spectrum	○	LLLH	○
HH	○	LLLL	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

100
90
80
70
60
50
40
30
20
10
0

dubius

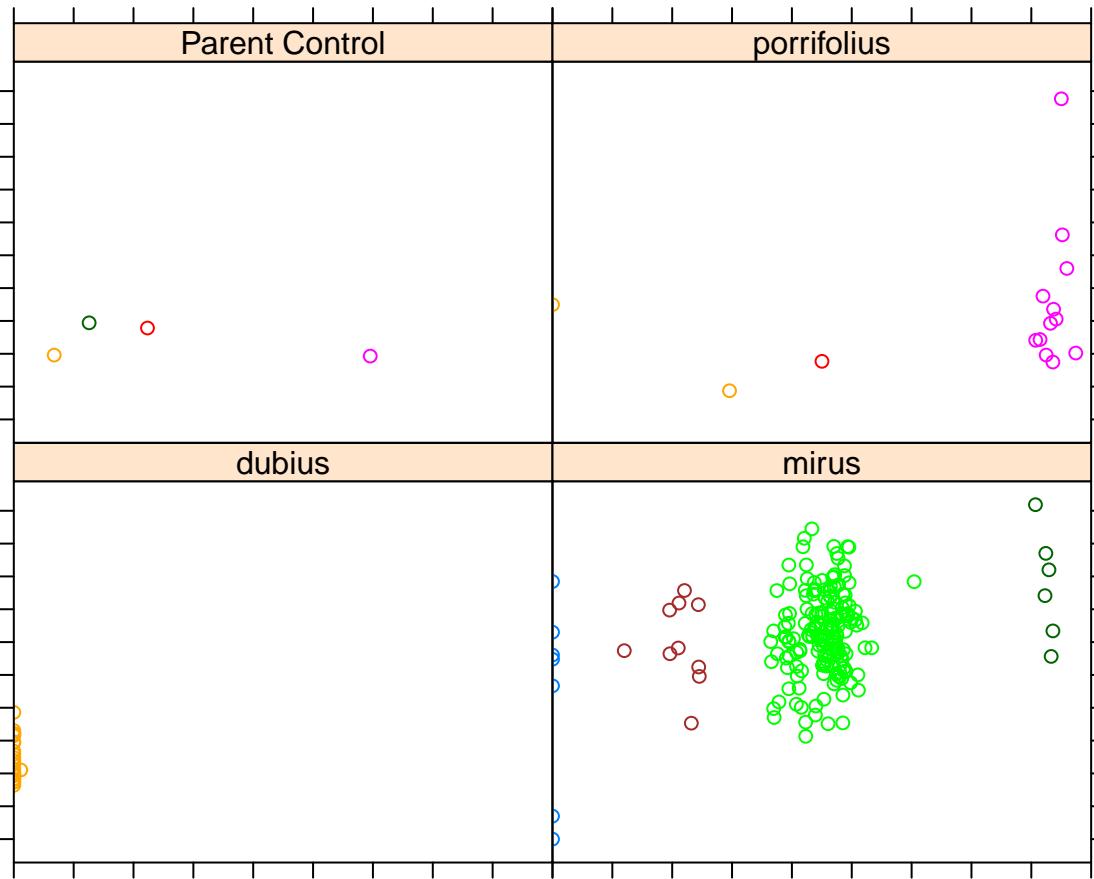
mirus

100
90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)

radius (arb)



V_2_5_isotig05586_376 cDNA

Call

HH	○	LLLL	○
HHHH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

120
110
100
90
80
70
60
50
40
30
20
10
0

radius (arb)

dubius

mirus

120
110
100
90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)

120
110
100
90
80
70
60
50
40
30
20
10
0

V_2_5_isotig05610_96 gDNA

Call

Bad_Spectrum	LLL	No_Alleles	○
HH	○	PM1	○
HHHH	○	PM2_1_1	○
LHHH	○	PM2_1_2	○
LL	○	PM2_2_1	○
LLLH	○		

10 20 30 40 50 60 70 80

Parent Control

porrifolius

55
50
45
40
35
30
25
20
15
10
5
0

radius (arb)

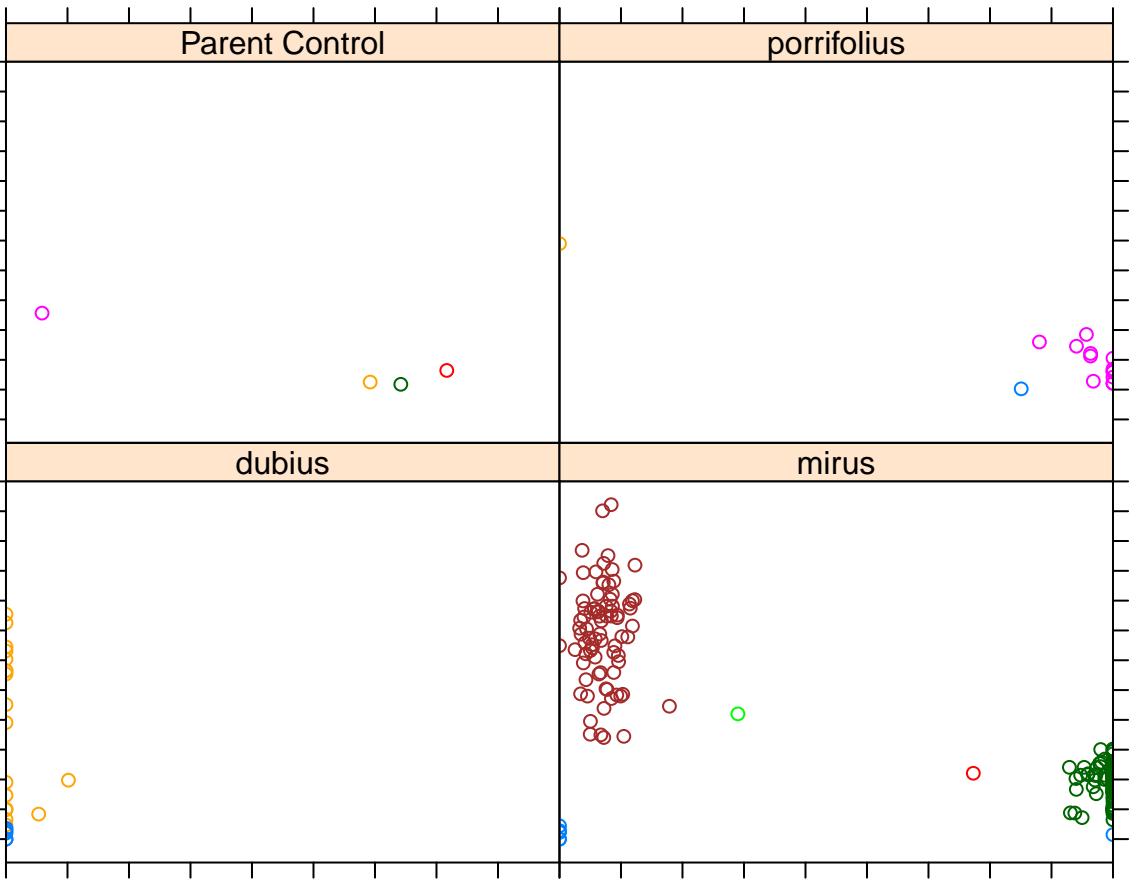
dubius

mirus

55
50
45
40
35
30
25
20
15
10
5
0

10 20 30 40 50 60 70 80

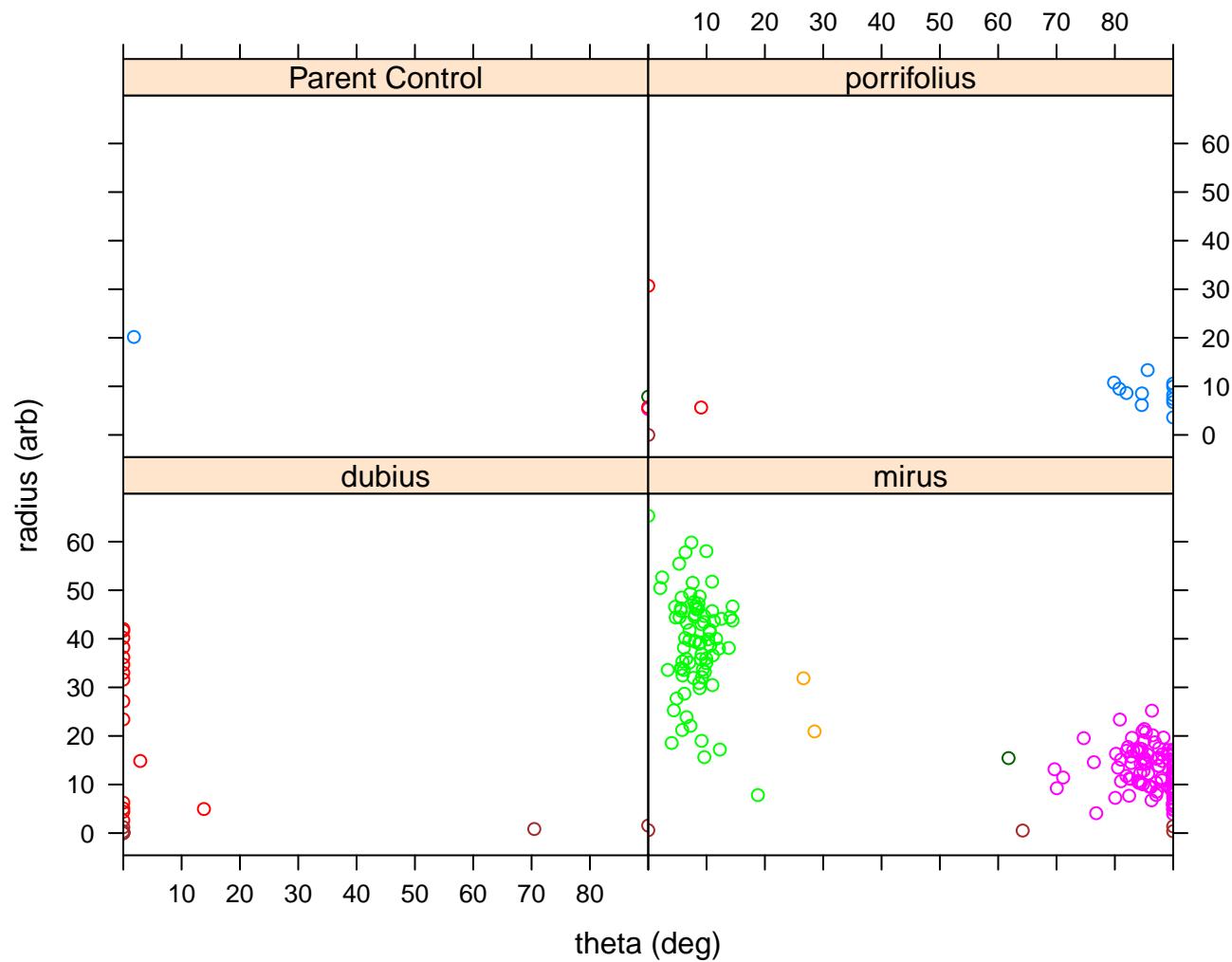
theta (deg)



V_2_5_isotig05610_96 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLLH	○	PM2_2_1	○
LLLL	○		



V_2_5_isotig05632_398 gDNA

Call

HH	○	PM2_1_1	○
HHHH	○	PM2_1_2	○
LH	○	PM2_2_1	○
LL	○	PM3_1_1	○
LLHH	○	PM3_1_2	○
LLLH	○	PM3_2_1	○
LLLL	○	PM4	○
No_Alleles	○	PM5	○
PM1	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

radius (arb)

80
70
60
50
40
30
20
10
0

dubius

mirus

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig05632_398 cDNA

Call

HH	○	PM2_1_1	○
HHHH	○	PM2_1_2	○
LH	○	PM2_2_1	○
LHHH	○	PM3_1_1	○
LL	○	PM3_1_2	○
LLHH	○	PM3_2_1	○
LLLL	○	PM4	○
No_Alleles	○	PM5	○
PM1	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

30
25
20
15
10
5
0

dubius

miscellus

radius (arb)

30
25
20
15
10
5
0

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig05632_455 gDNA

Call

HH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

90
80
70
60
50
40
30
20

dubius

miscellus

90
80
70
60
50
40
30
20

10 20 30 40 50 60 70 80

theta (deg)

radius (arb)

V_2_5_isotig05632_455 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

100
90
80
70
60
50
40
30
20
10
0

dubius

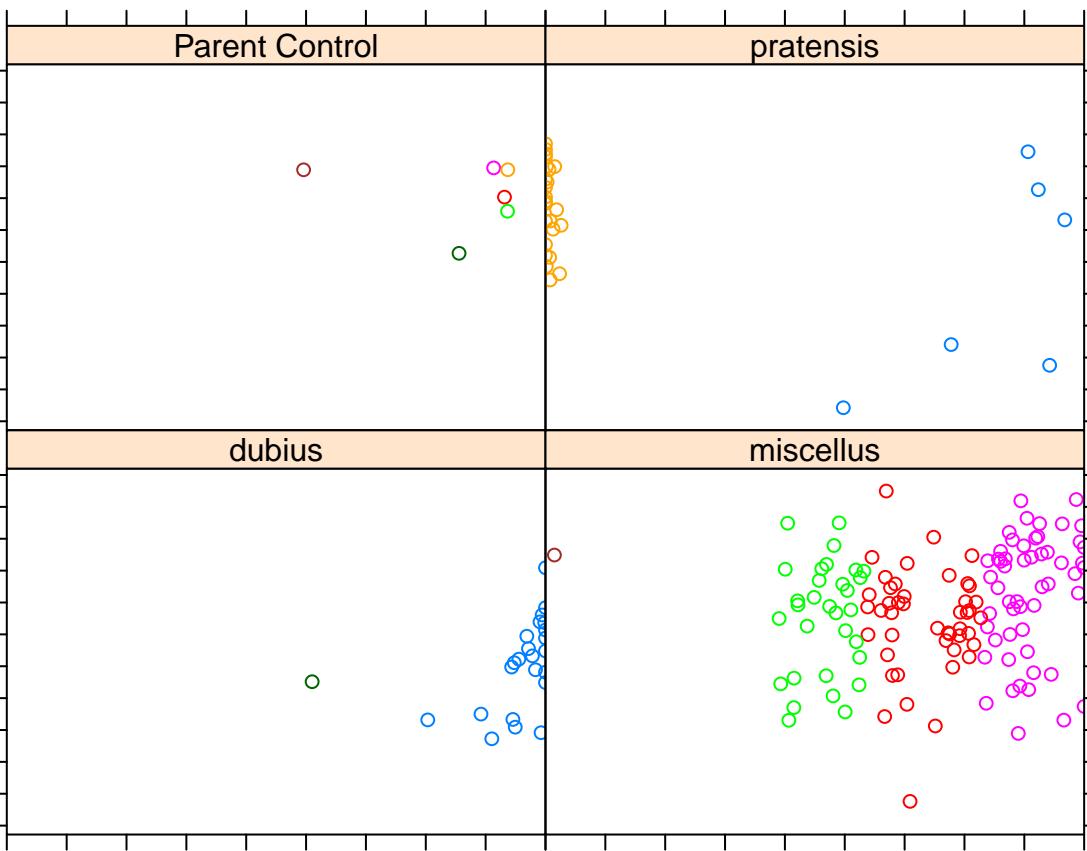
miscellus

radius (arb)

100
90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

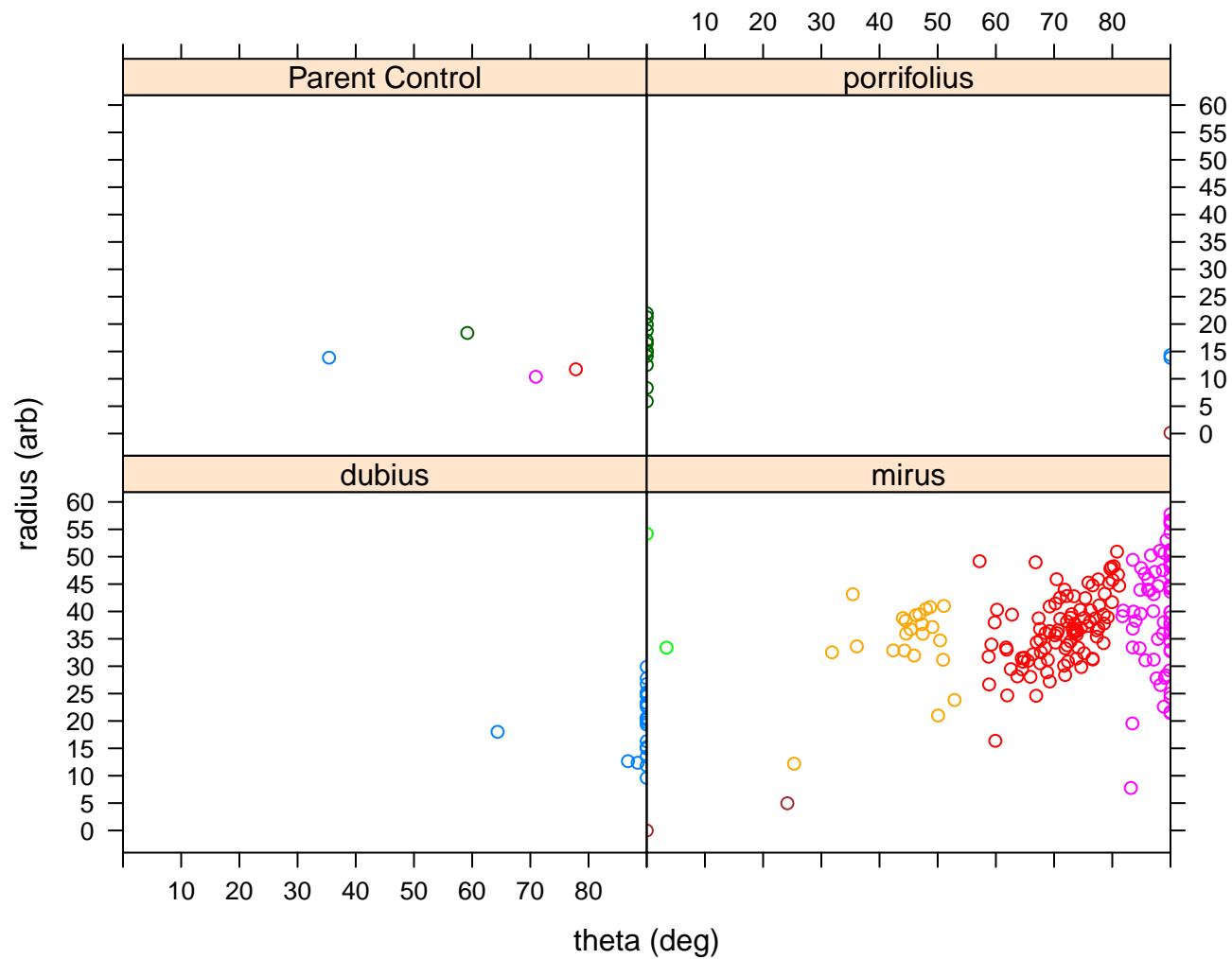
theta (deg)



V_2_5_isotig05775_454 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○
LLLL	○		

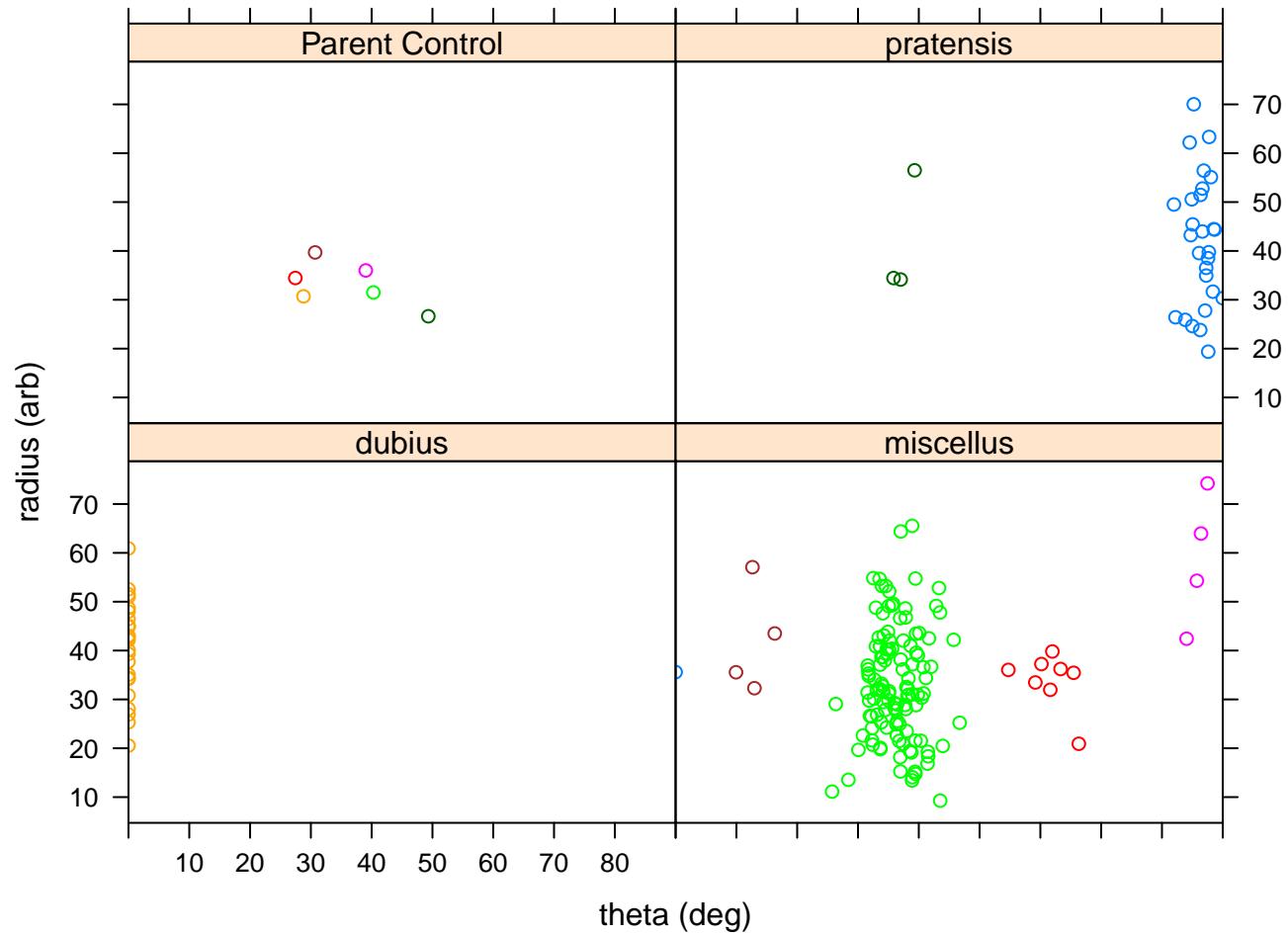


V_2_5_isotig05833_463 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80



V_2_5_isotig05833_463 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

110
100
90
80
70
60
50
40
30
20
10
0

dubius

miscellus

radius (arb)

110
100
90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

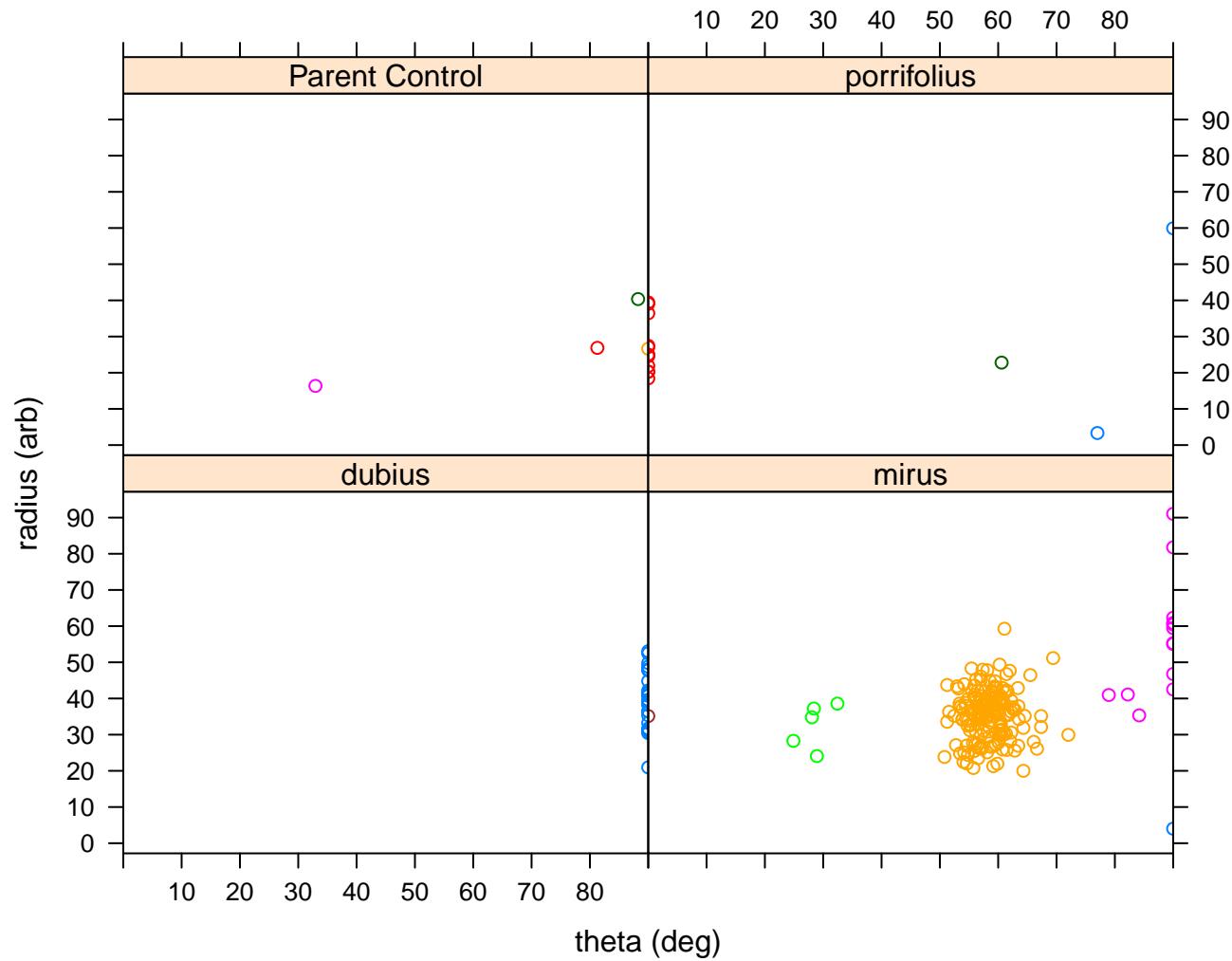
theta (deg)

10 20 30 40 50 60 70 80

V_2_5_isotig05857_117 gDNA

Call

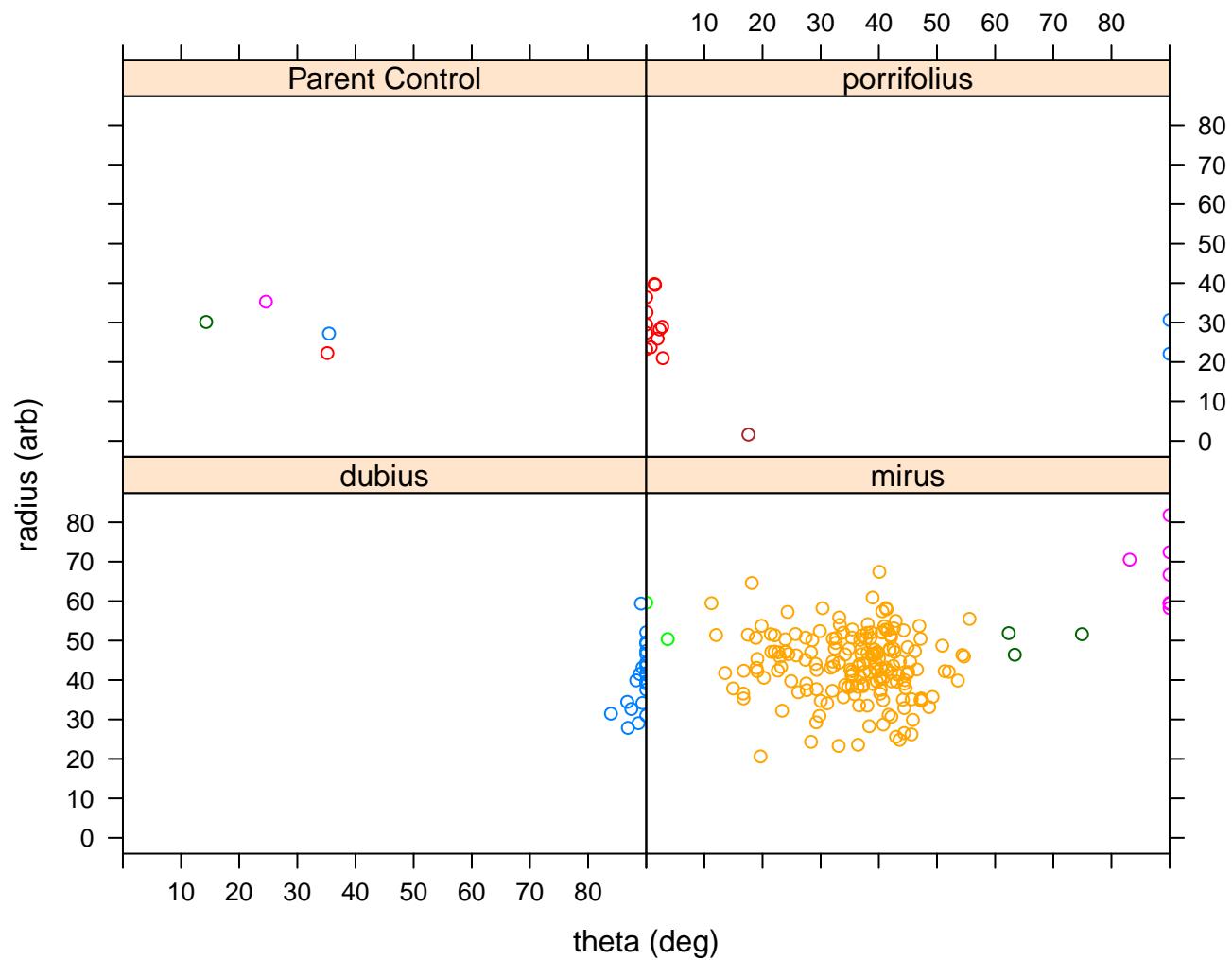
HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○



V_2_5_isotig05857_117 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLL	○		○



V_2_5_isotig05933_316 cDNA

Call

Bad_Spectrum	○	LLLL	○
HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

60
55
50
45
40
35
30
25
20
15
10
5
0

dubius

miscellus

radius (arb)

60
55
50
45
40
35
30
25
20
15
10
5
0

10 20 30 40 50 60 70 80

theta (deg)

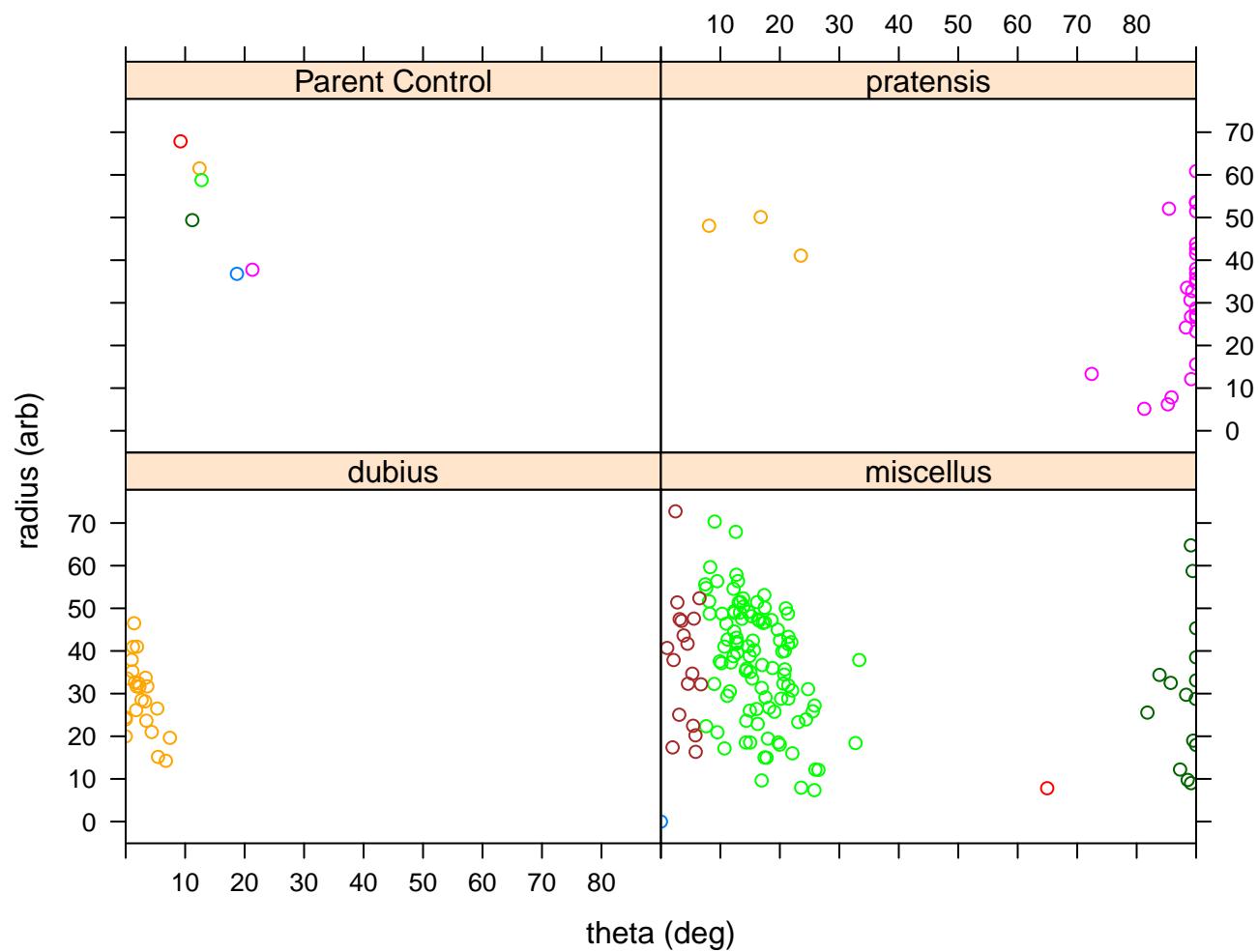
60
55
50
45
40
35
30
25
20
15
10
5
0

V_2_5_isotig05933_320 gDNA

Call

Bad_Spectrum
HH
HHHH
LHHH
LL
LLLH
LLLL

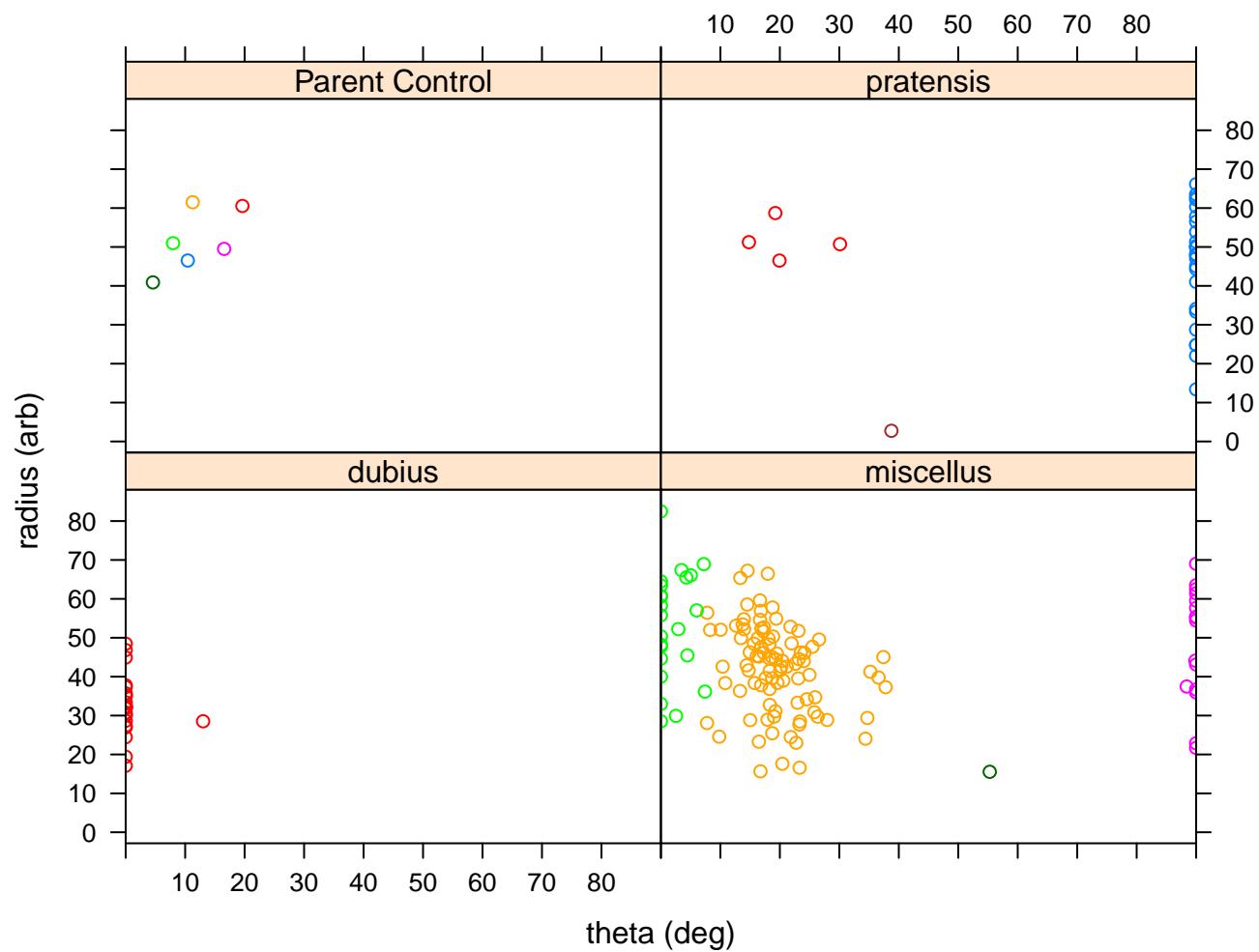
PM3_1_1
PM3_1_2
PM3_2_1
PM4
PM5
PM6



V_2_5_isotig05933_320 cDNA

Call

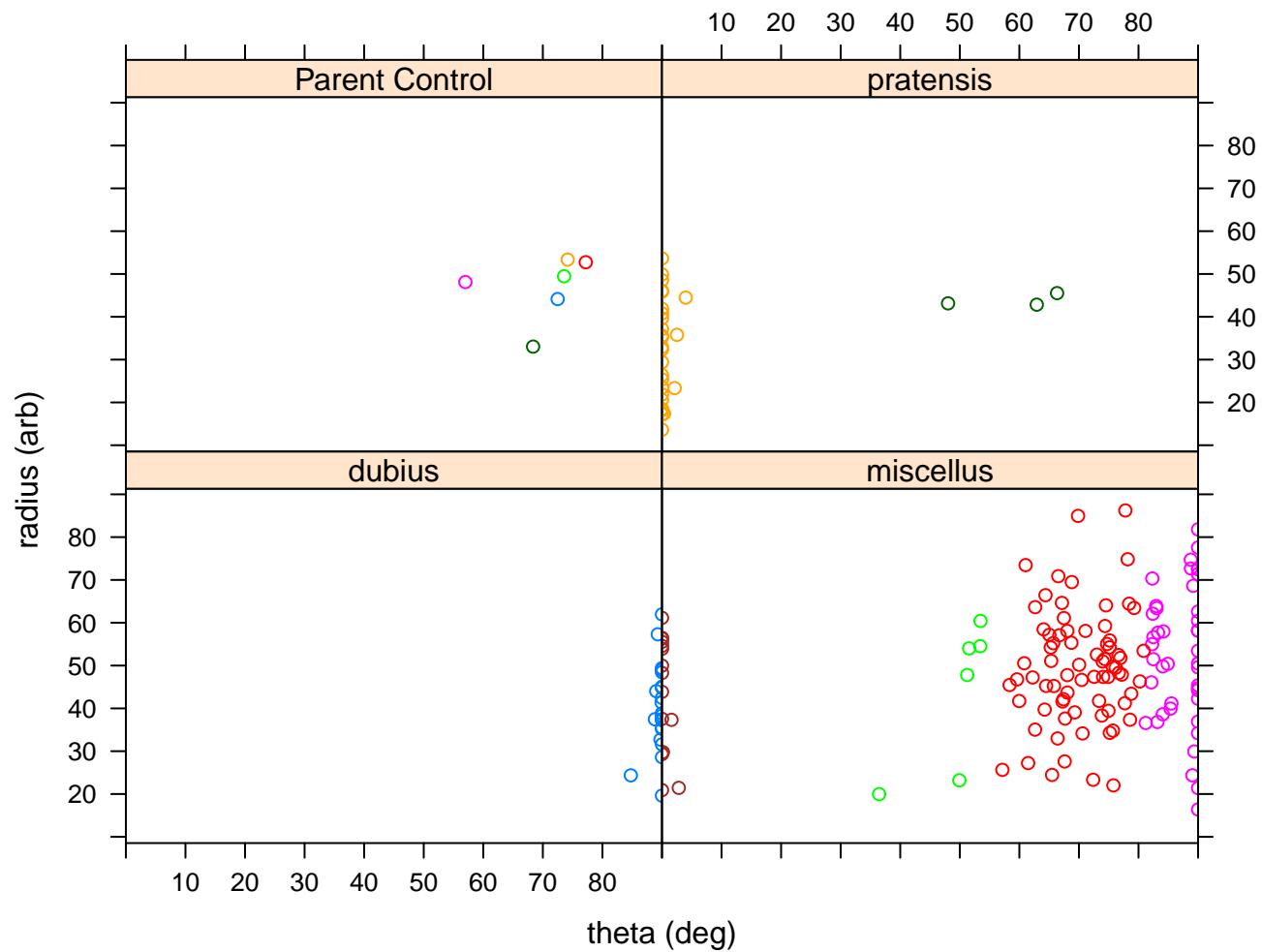
HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○
No_Alleles	○		



V_2_5_isotig05933_342 gDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LHHH	○	PM4	○
LL	○	PM5	○
LLHH	○	PM6	○
LLLL	○		



V_2_5_isotig05933_342 cDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

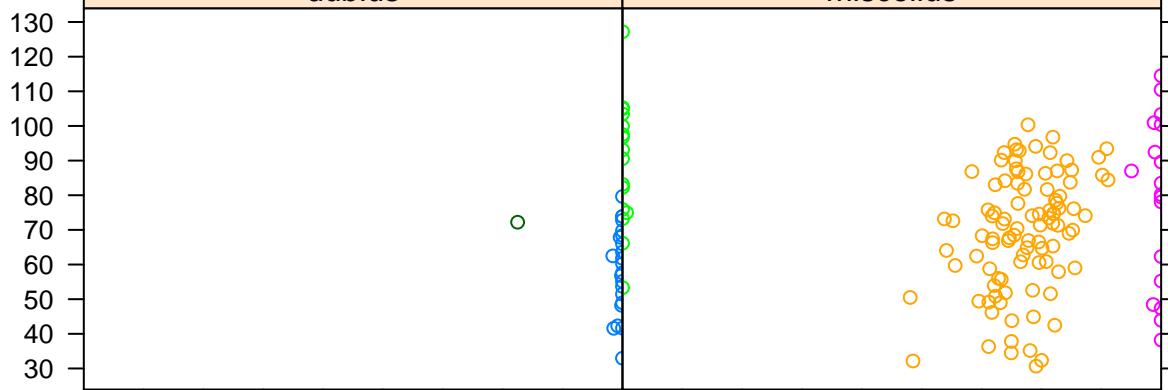
Parent Control

pratensis

130
120
110
100
90
80
70
60
50
40
30

dubius

miscellus



10 20 30 40 50 60 70 80

radius (arb)

theta (deg)

V_2_5_isotig05933_408 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

radius (arb)

70
60
50
40
30
20
10
0

dubius

miscellus

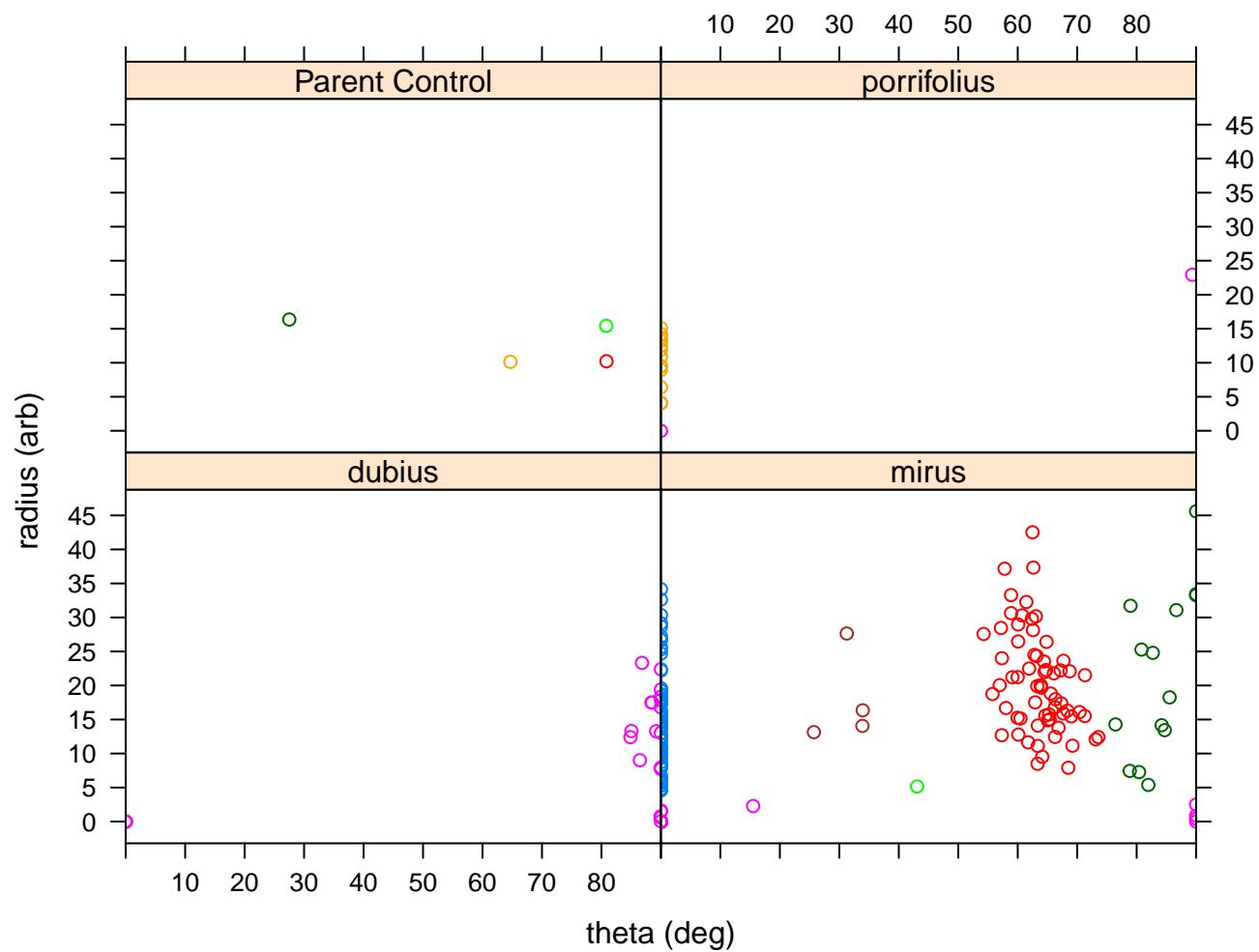
10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig05961_580 gDNA

Call

Bad_Spectrum	○	LLLL	○
HH	○	No_Alleles	○
HHHH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig05961_580 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

porrifolius

30
25
20
15
10
5
0

dubius

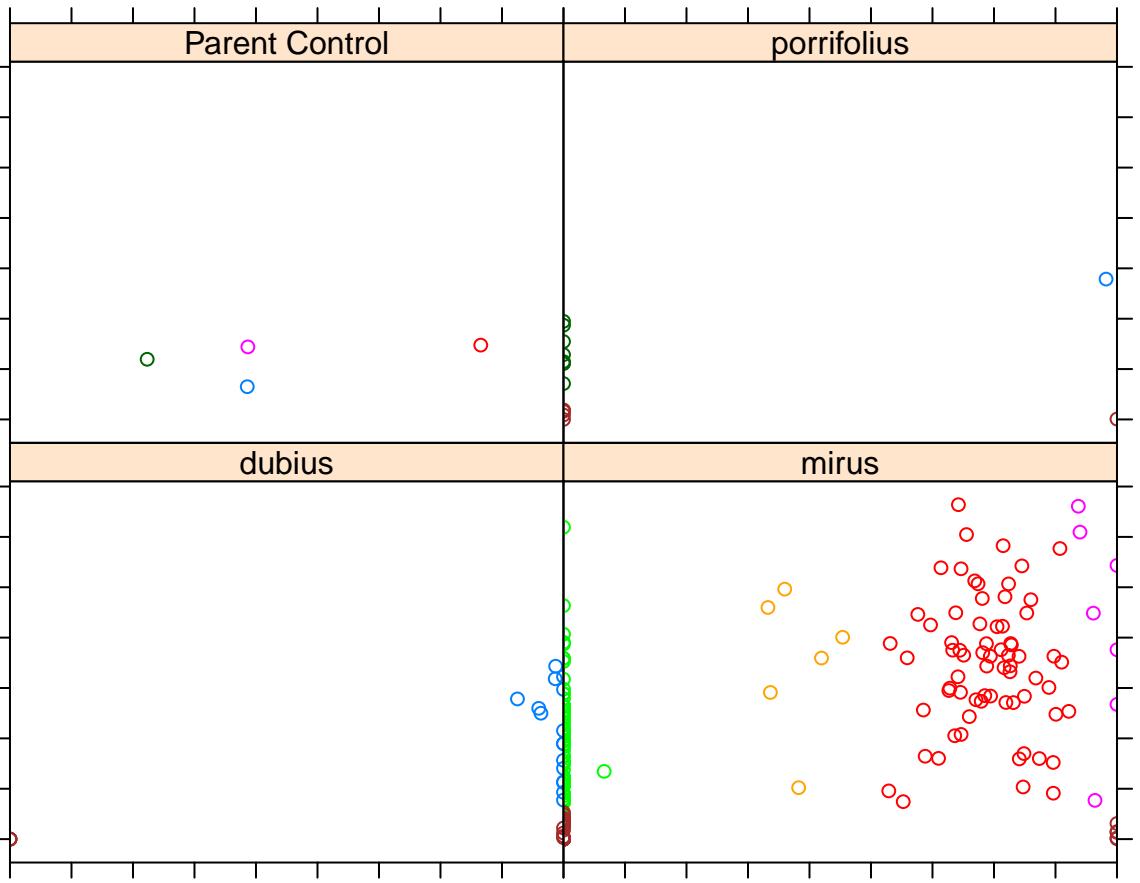
mirus

radius (arb)

30
25
20
15
10
5
0

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig05997_356 cDNA

Call

HH	○	LLLL	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LHHH	○	PM2_1_2	○
LL	○	PM2_2_1	○
LLHH	○		

10 20 30 40 50 60 70 80

Parent Control

porrifolius

80
70
60
50
40
30
20
10

dubius

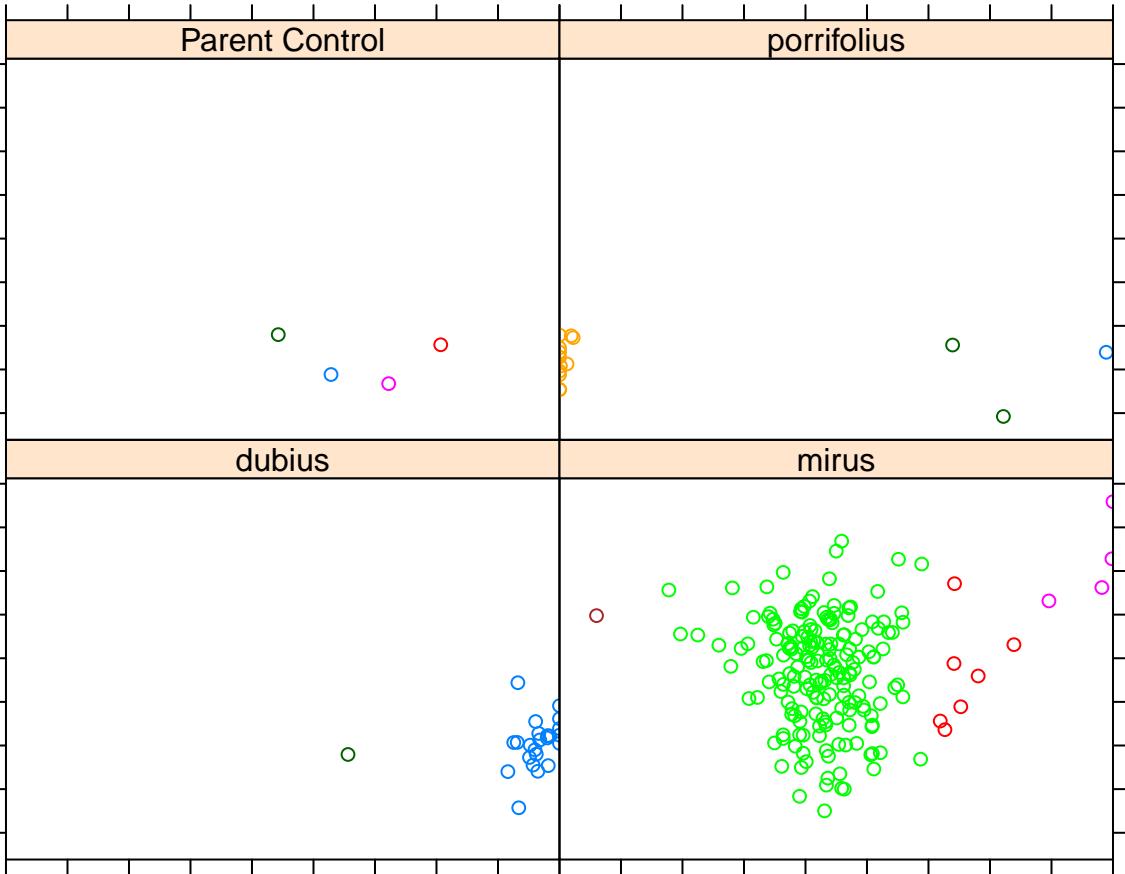
mirus

radius (arb)

80
70
60
50
40
30
20
10

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig05999_228 gDNA

Call

Bad_Spectrum	LLLL
HH	PM3_1_1
HHHH	PM3_1_2
LH	PM3_2_1
LHHH	PM4
LL	PM5
LLHH	PM6

10 20 30 40 50 60 70 80

Parent Control

pratensis

radius (arb)

dubius

miscellus

10 20 30 40 50 60 70 80

theta (deg)

120
100
80
60
40
20
0

V_2_5_isotig05999_228 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LL	○	PM3_2_1	○
LLHH	○	PM4	○
LLLH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

radius (arb)

140
120
100
80
60
40
20
0

dubius

miscellus

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig05999_234 gDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

radius (arb)

70
60
50
40
30
20
10

dubius

miscellus

70
60
50
40
30
20
10

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig05999_234 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LL	○	PM3_2_1	○
LLHH	○	PM4	○
LLLH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

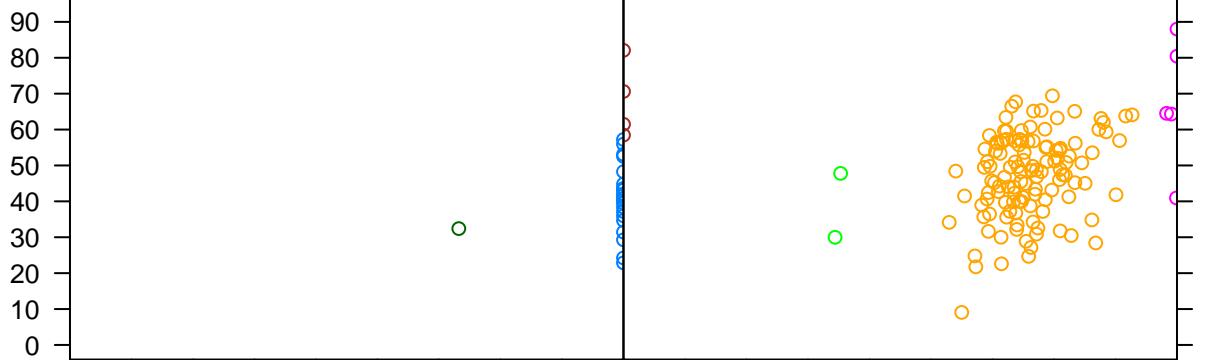
pratensis

90
80
70
60
50
40
30
20
10
0

radius (arb)

dubius

miscellus

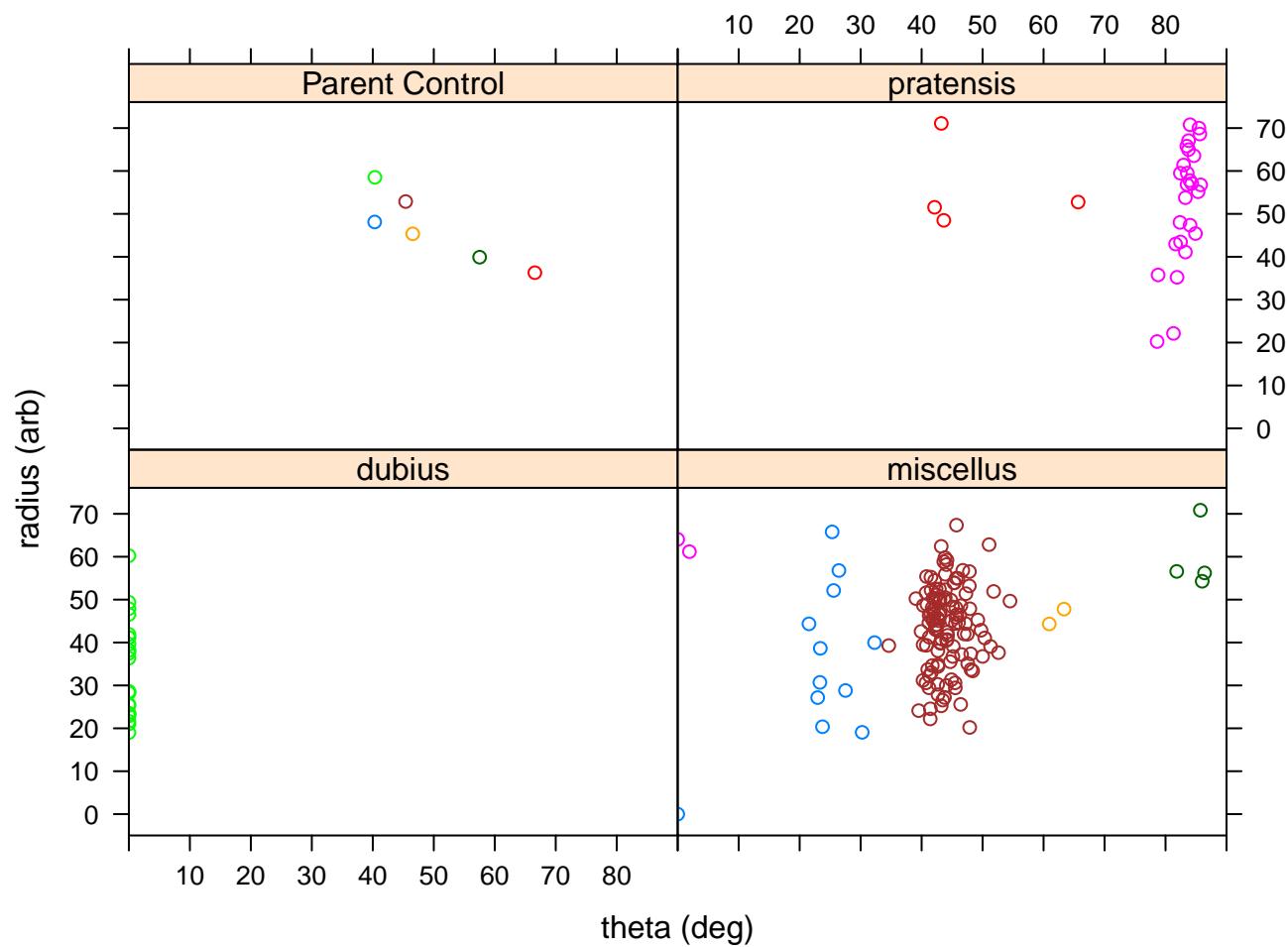


theta (deg)

V_2_5_isotig05999_339 gDNA

Call

Bad_Spectrum	LLLL	Bad_Spectrum
HH	PM3_1_1	HH
HHHH	PM3_1_2	HHHH
LH	PM3_2_1	LH
LHHH	PM4	LHHH
LL	PM5	LL
LLHH	PM6	LLHH
LLLH		LLLH



V_2_5_isotig05999_339 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

90
80
70
60
50
40
30
20
10
0

dubius

miscellus

radius (arb)

90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig06090_118 cDNA

Call

HH	○	LLLL	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LHHH	○	PM2_1_2	○
LL	○	PM2_2_1	○
LLHH	○		

10 20 30 40 50 60 70 80

Parent Control

porrifolius

100
90
80
70
60
50
40
30
20
10

dubius

mirus

100
90
80
70
60
50
40
30
20
10

10 20 30 40 50 60 70 80

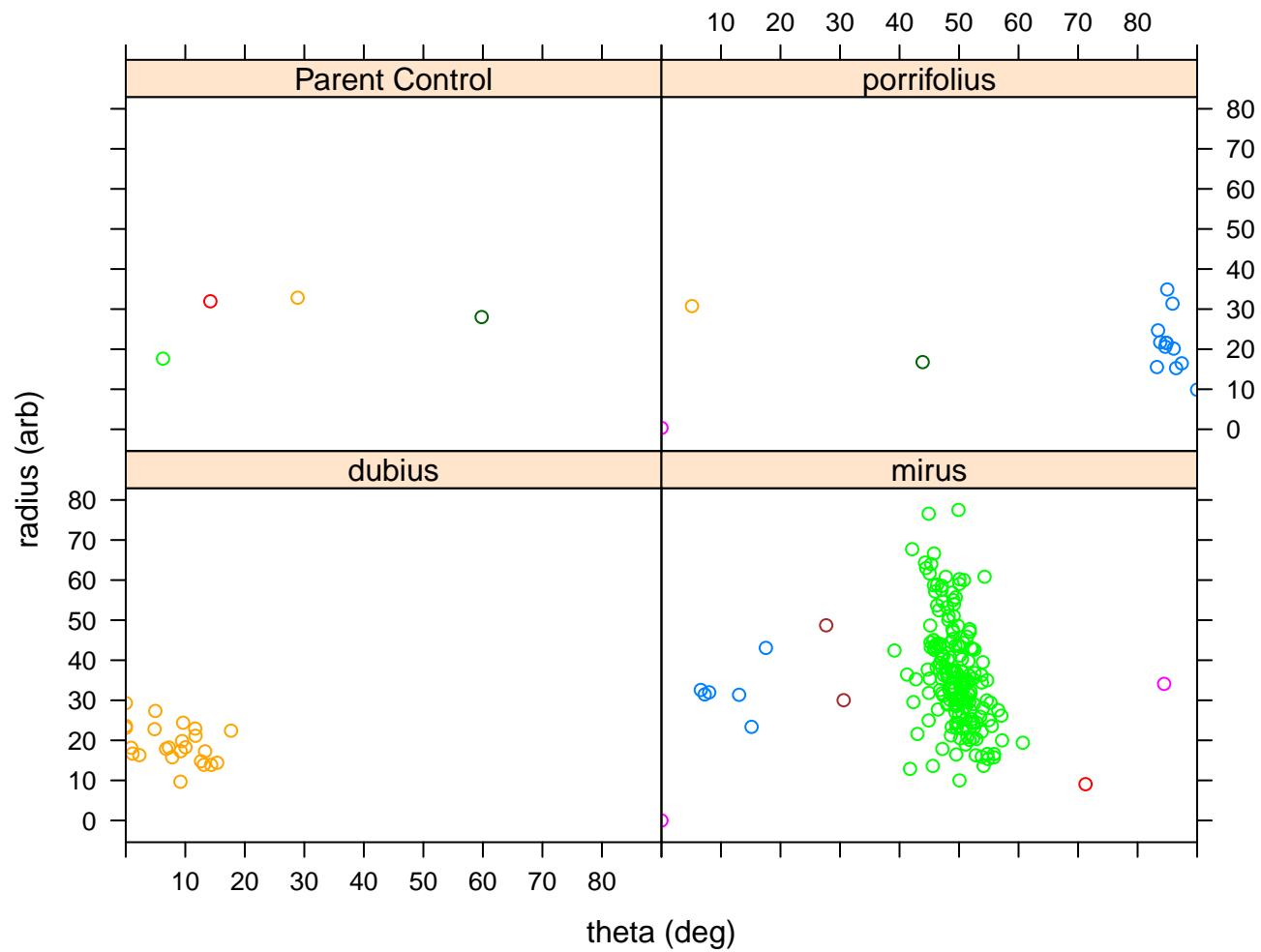
theta (deg)

radius (arb)

V_2_5_isotig06151_132 gDNA

Call

HH	○	LLLL
HHHH	○	No_Aleles
LH	○	PM1
LHHH	○	PM2_1_1
LL	○	PM2_1_2
LLHH	○	PM2_2_1
LLLH	○	



V_2_5_isotig06151_57 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

70
60
50
40
30
20
10
0

dubius

mirus

radius (arb)

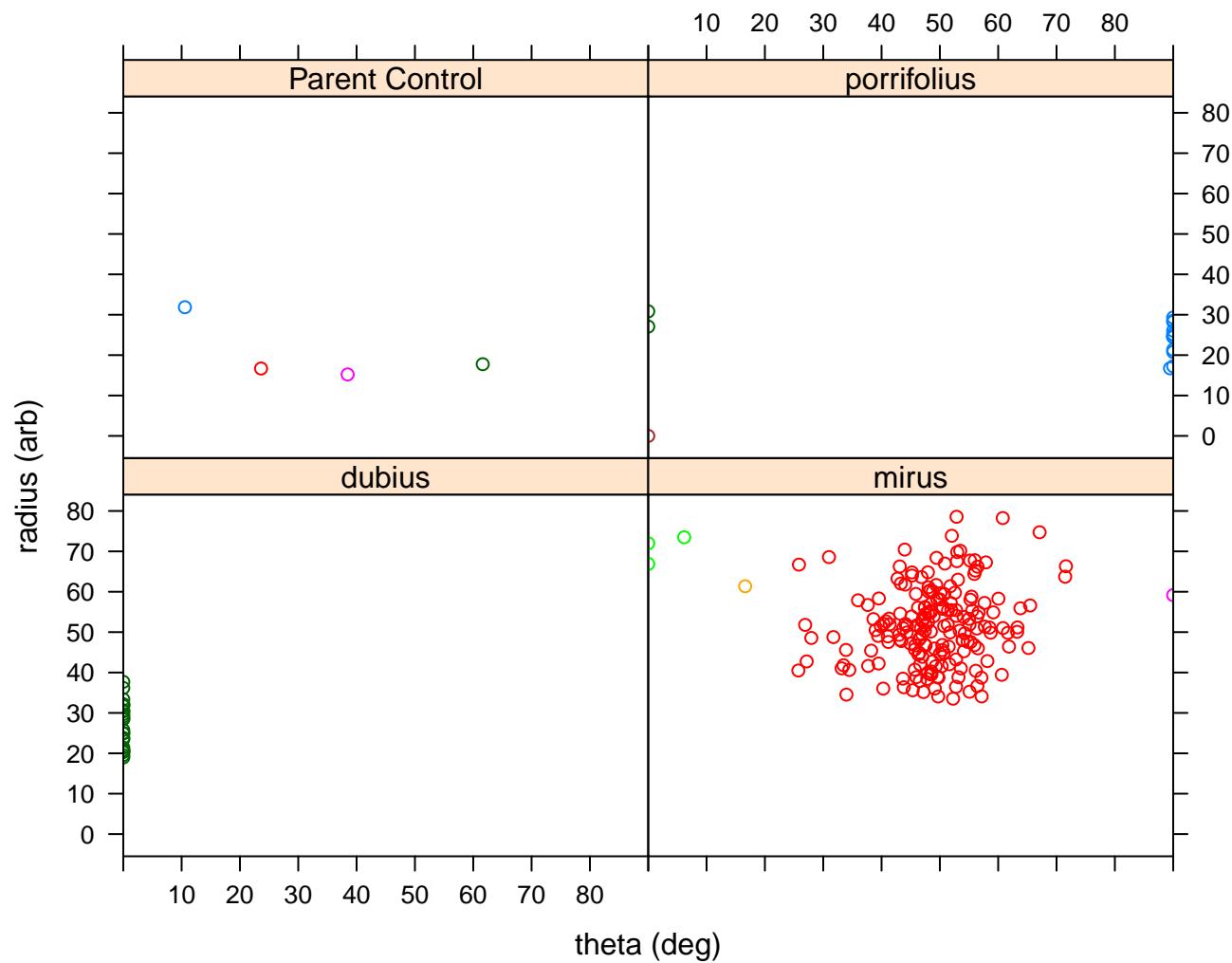
10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig06151_57 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○
LLLL	○		



V_2_5_isotig06155_38 cDNA

Call

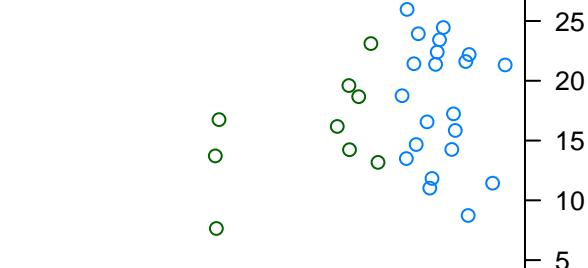
HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

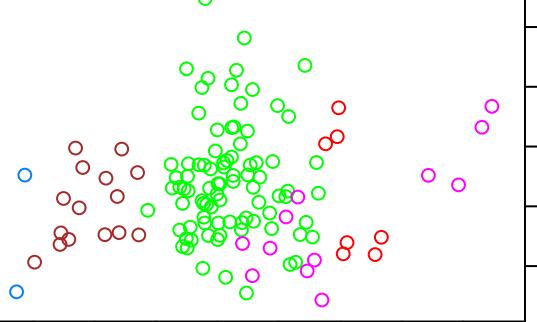
pratensis

radius (arb)



dubius

miscellus

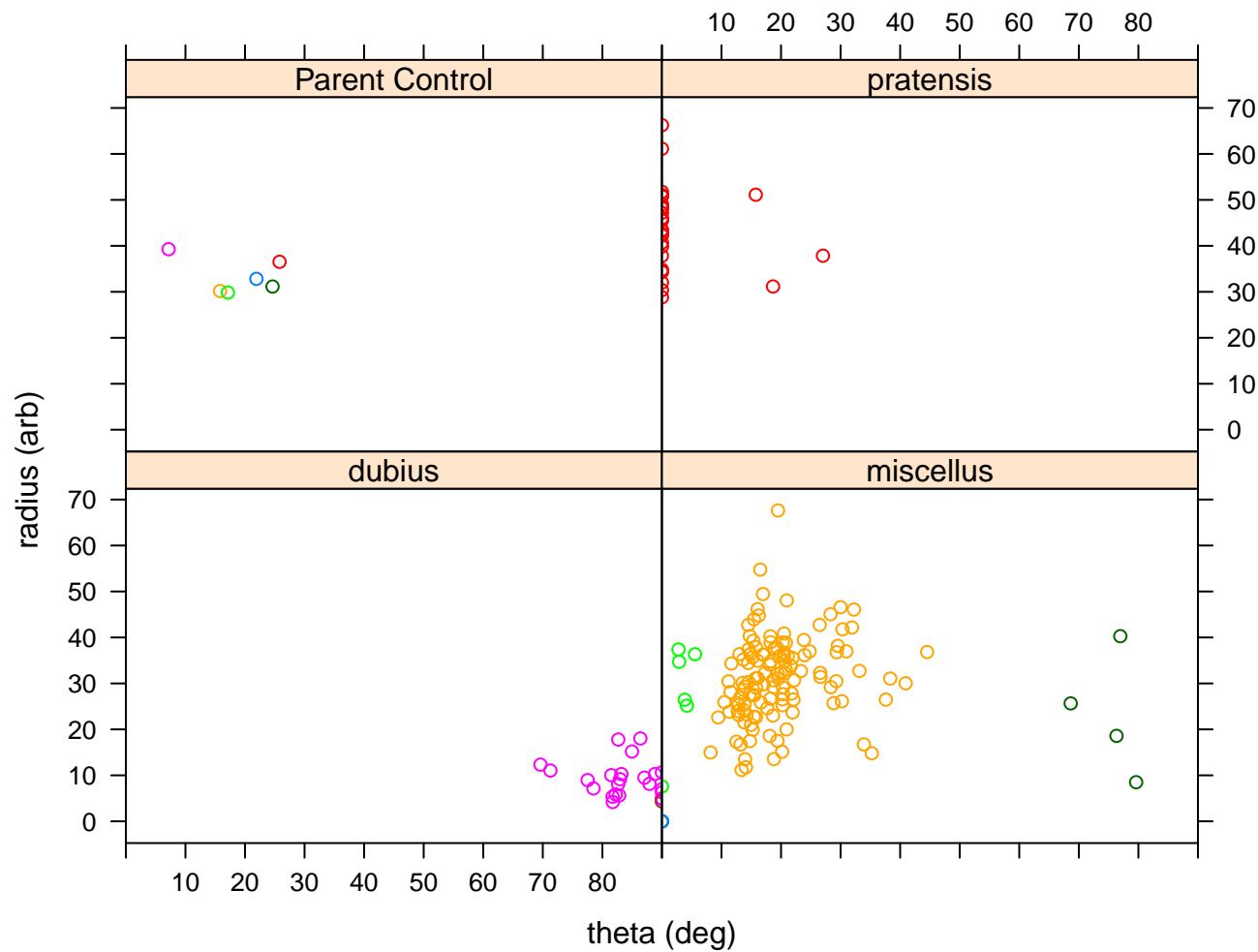


theta (deg)

V_2_5_isotig06171_134 gDNA

Call

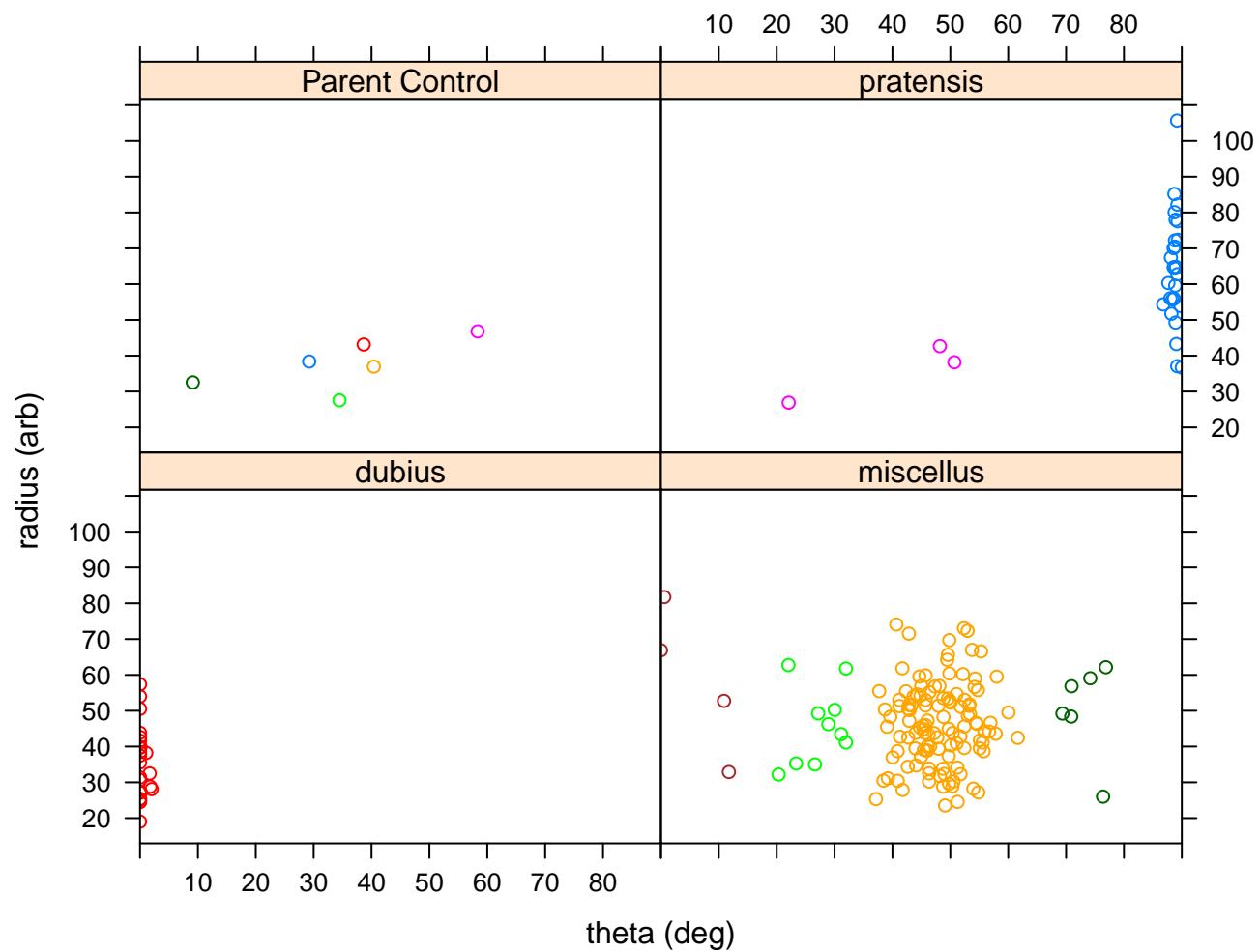
Bad_Spectrum	○	PM3_1_1	○
HH	○	PM3_1_2	○
HHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○
No_Alleles	○		



V_2_5_isotig06171_183 gDNA

Call

HH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		



V_2_5_isotig06171_183 cDNA

Call

HH	○	PM3_1_2	○
HHHH	○	PM3_2_1	○
LL	○	PM4	○
LLLL	○	PM5	○
PM3_1_1	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

100
90
80
70
60
50
40
30
20
10

radius (arb)

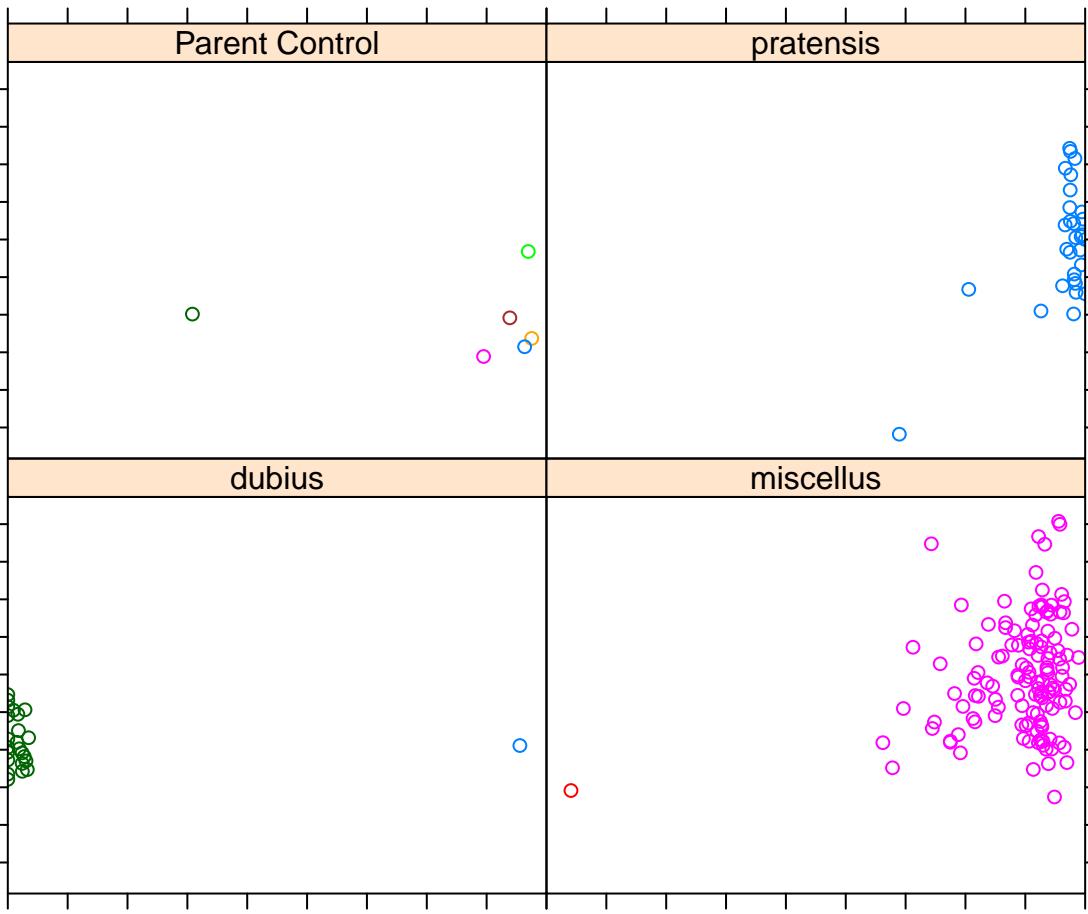
dubius

miscellus

100
90
80
70
60
50
40
30
20
10

10 20 30 40 50 60 70 80

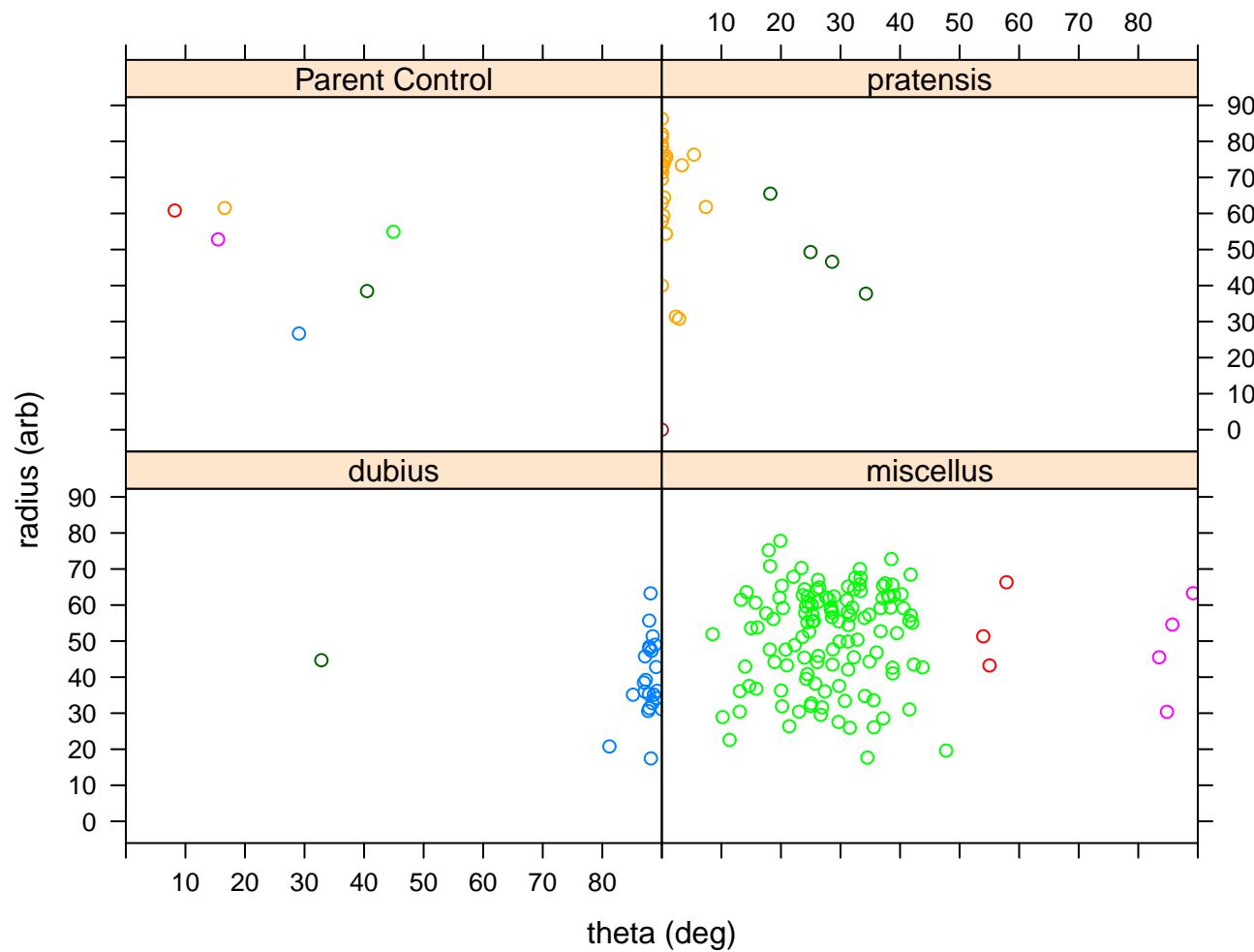
theta (deg)



V_2_5_isotig06171_275 cDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LHHH	○	PM4	○
LL	○	PM5	○
LLLH	○	PM6	○
No_Alleles	○		



V_2_5_isotig06235_275 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

90
80
70
60
50
40
30
20
10
0

radius (arb)

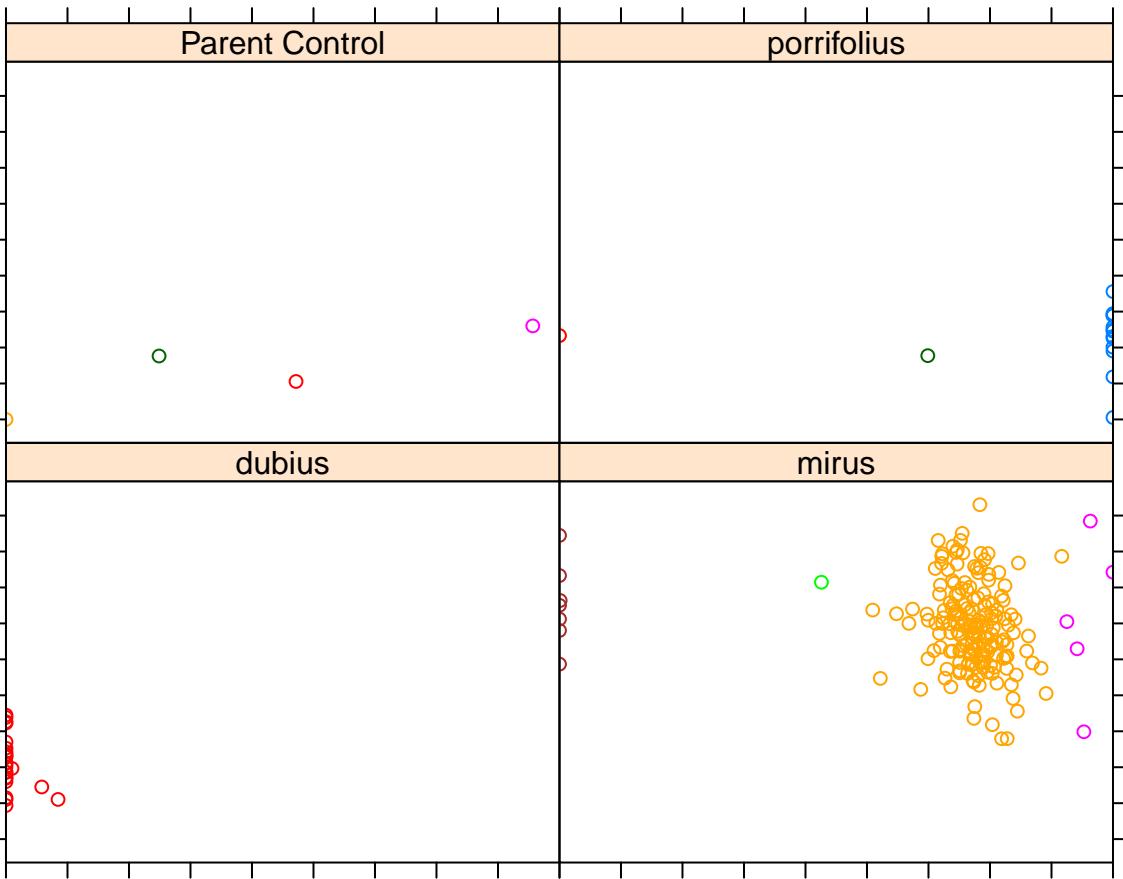
dubius

mirus

90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig06291_324 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

radius (arb)

120
110
100
90
80
70
60
50
40
30
20

dubius

miscellus

120
110
100
90
80
70
60
50
40
30
20

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig06291_324 cDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

radius (arb)

120
110
100
90
80
70
60
50
40
30
20

dubius

miscellus

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig06345_171 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LHHH	○	PM2_1_2	○
LL	○	PM2_2_1	○
LLHH	○		

10 20 30 40 50 60 70 80

Parent Control

porrifolius

radius (arb)

80
70
60
50
40
30
20
10

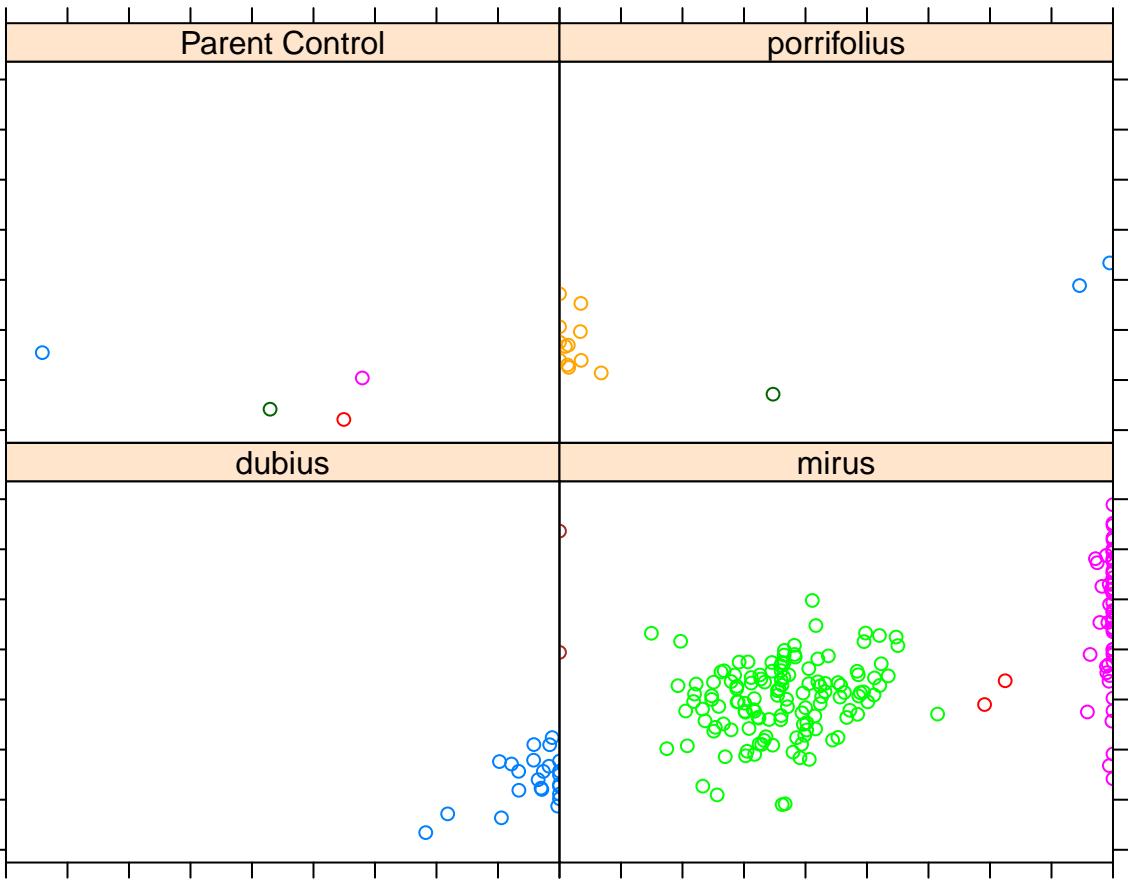
dubius

mirus

80
70
60
50
40
30
20
10

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig06345_171 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLL	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

100
90
80
70
60
50
40
30
20
10

radius (arb)

dubius

mirus

100
90
80
70
60
50
40
30
20
10

10 20 30 40 50 60 70 80

theta (deg)

100
90
80
70
60
50
40
30
20
10

V_2_5_isotig06808_692 gDNA

Call

HH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

55
50
45
40
35
30
25
20
15
10

dubius

miscellus

55
50
45
40
35
30
25
20
15
10

10 20 30 40 50 60 70 80

theta (deg)

radius (arb)

V_2_5_isotig06808_692 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

60
50
40
30
20
10
0

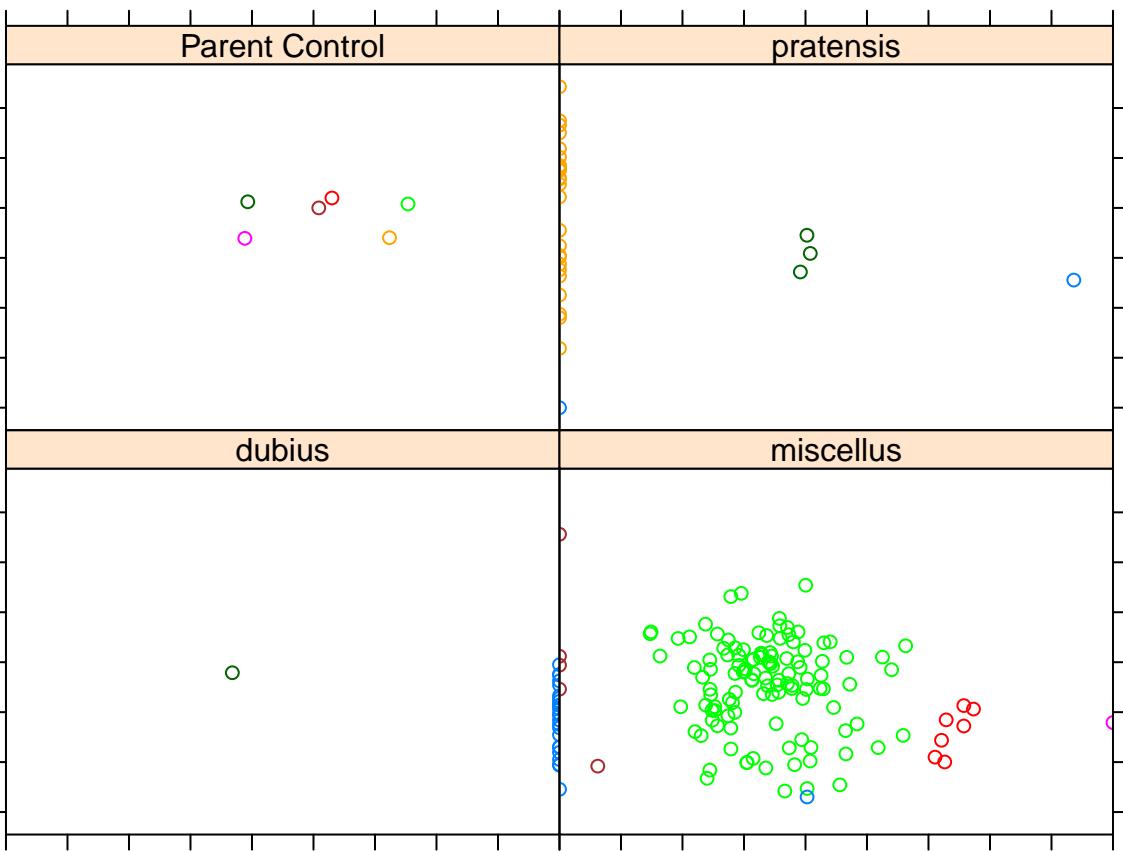
dubius

miscellus

radius (arb)

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig06868_1049 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

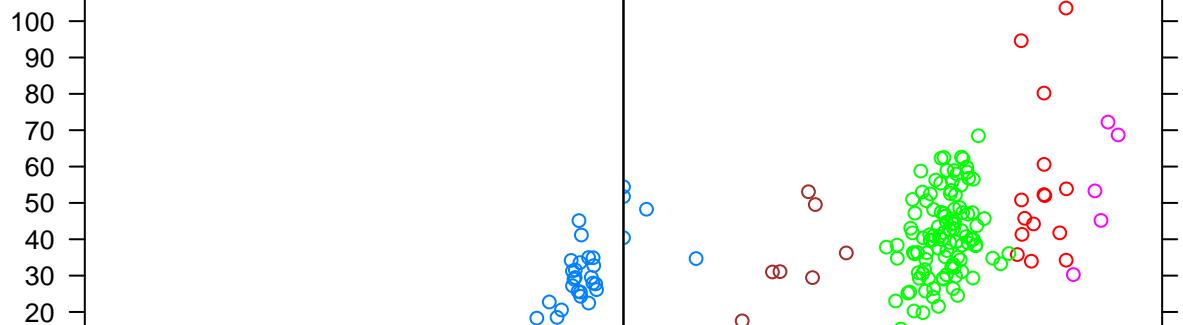
pratensis

100
90
80
70
60
50
40
30
20

dubius

miscellus

radius (arb)



10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig06868_1049 cDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○
No_Alleles	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

90
80
70
60
50
40
30
20
10
0

dubius

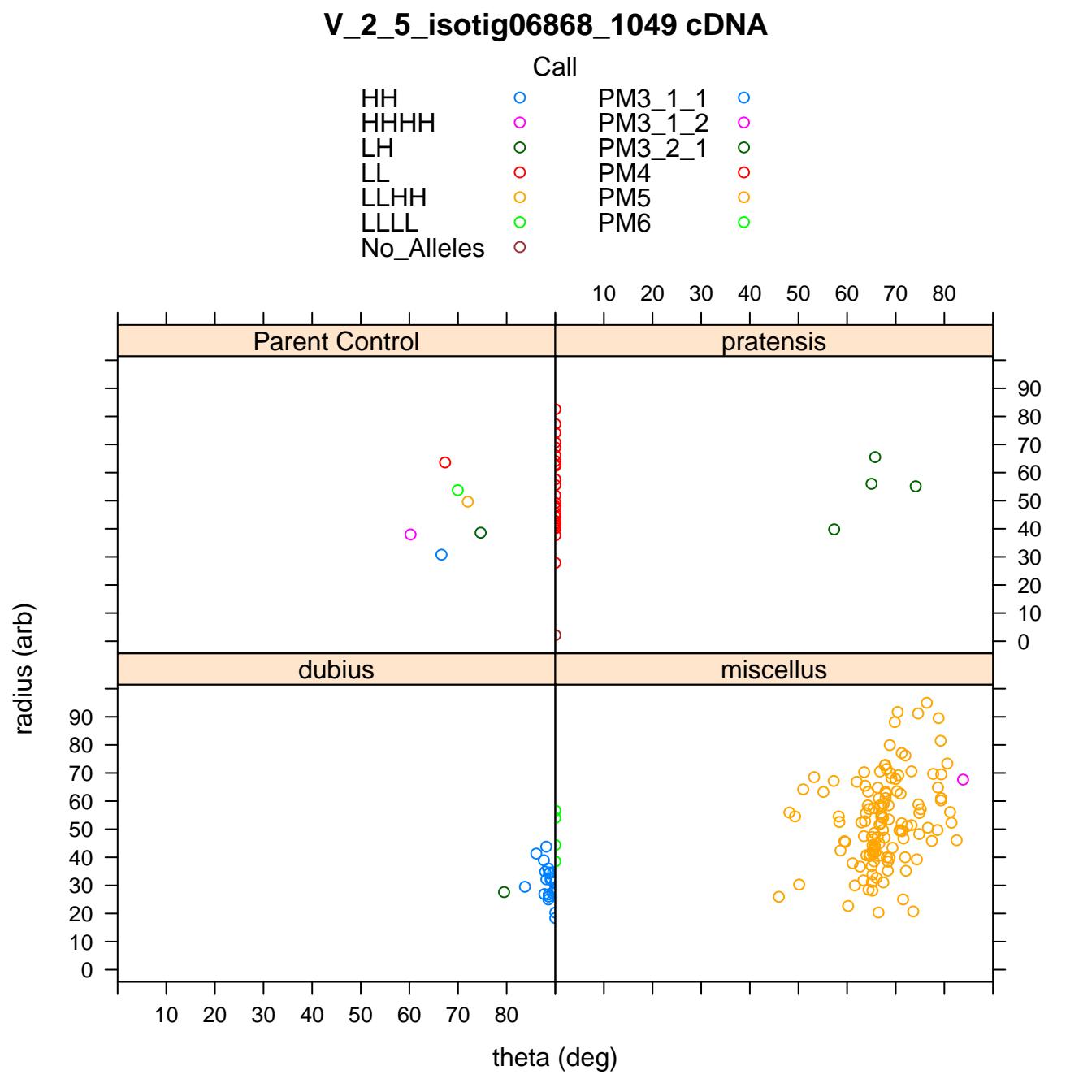
miscellus

radius (arb)

90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig06964_378 gDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

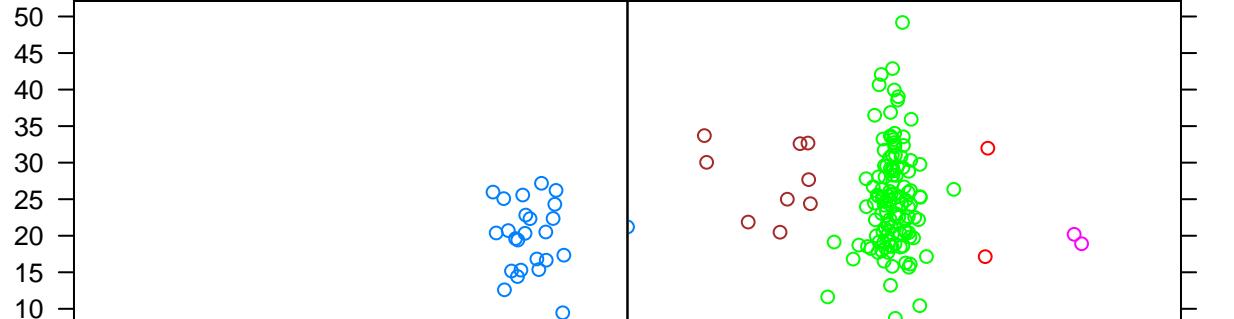
pratensis

50
45
40
35
30
25
20
15
10

dubius

miscellus

radius (arb)

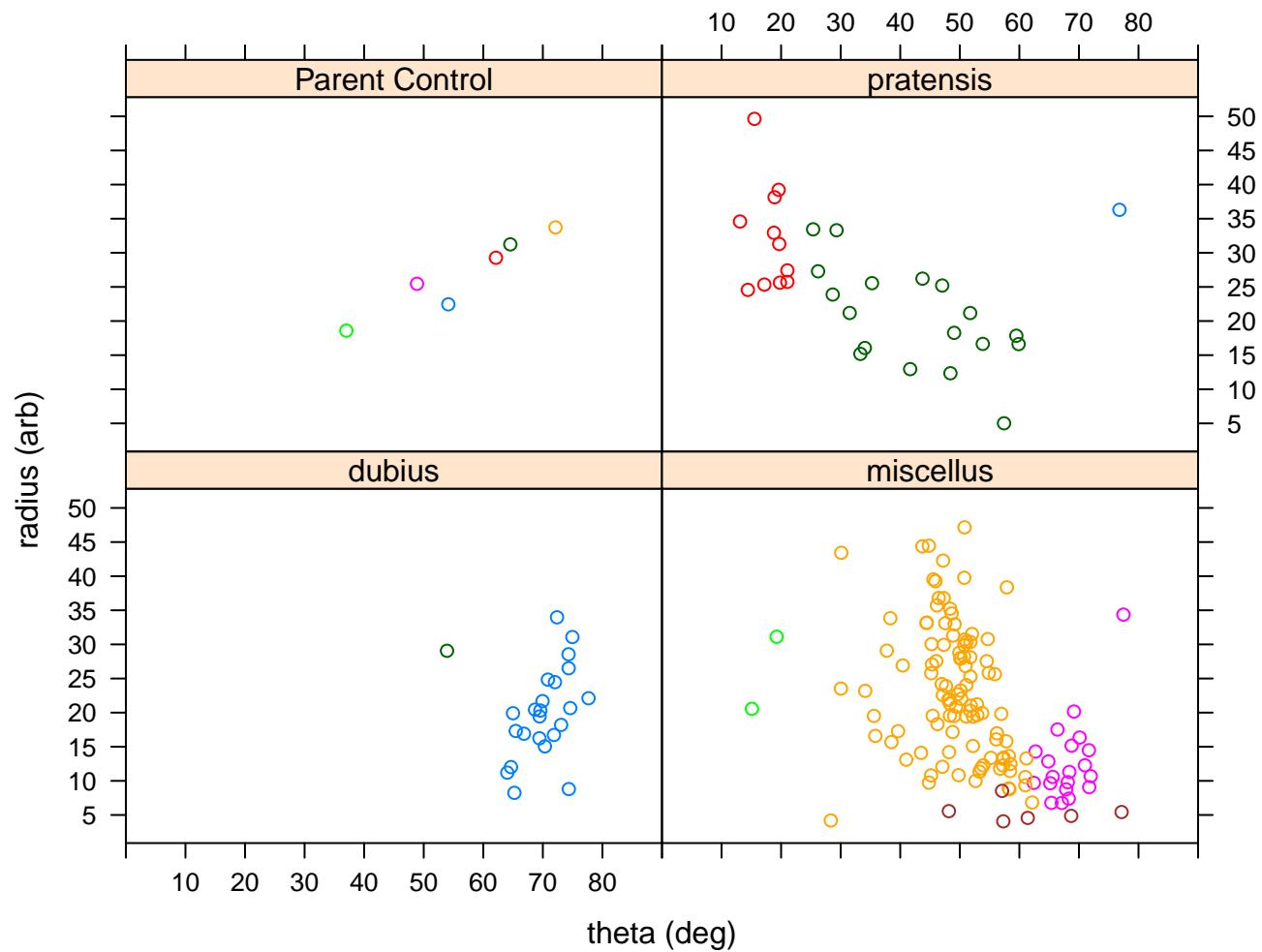


theta (deg)

V_2_5_isotig06964_378 cDNA

Call

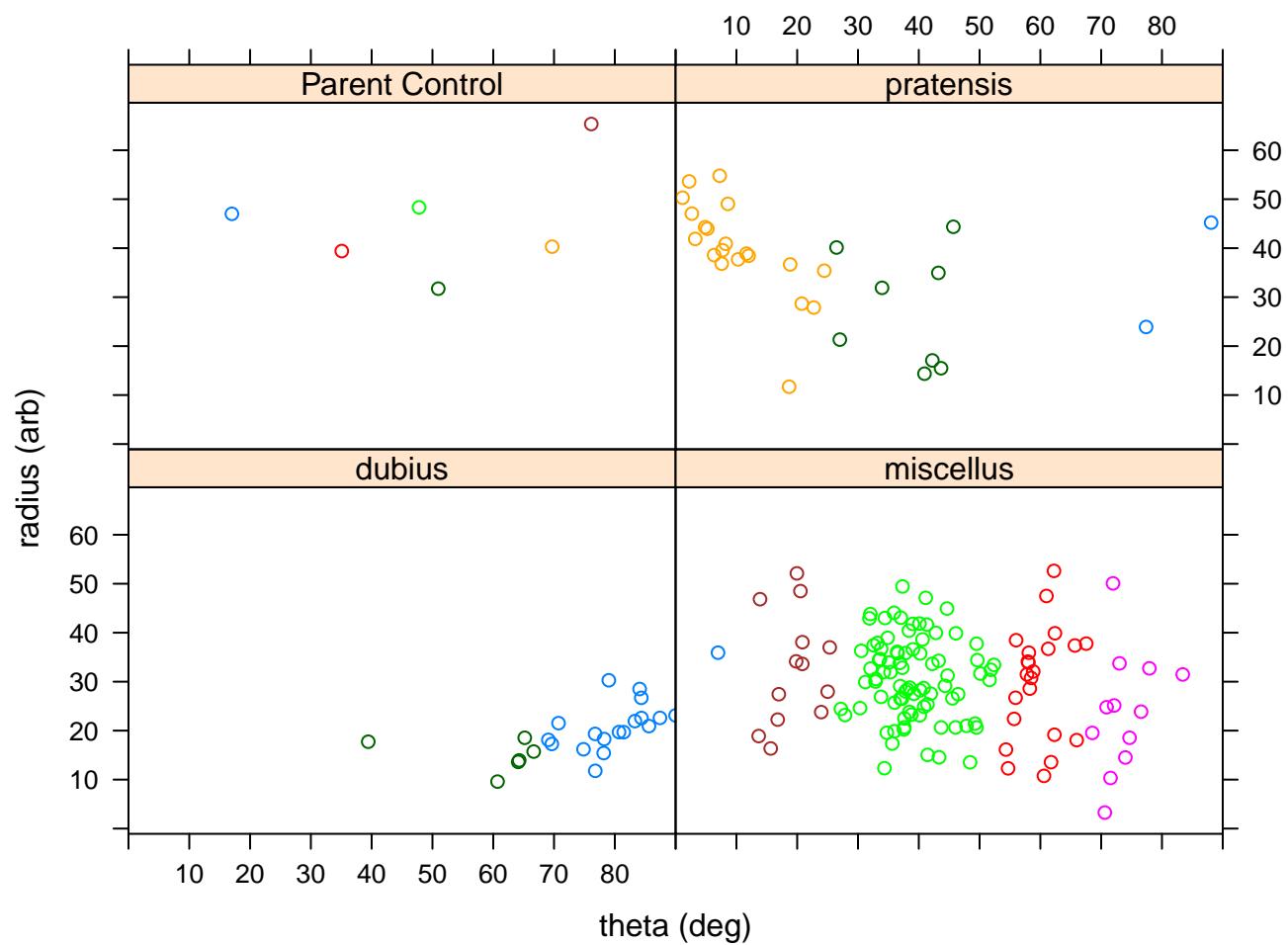
HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○
No_Alleles	○		



V_2_5_isotig06964_446 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		



V_2_5_isotig07010_1017 cDNA

Call

HH	○	PM3_1_2	○
HHHH	○	PM3_2_1	○
LH	○	PM4	○
LL	○	PM5	○
No_Aleles	○	PM6	○
PM3_1_1	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

140
120
100
80
60
40
20
0

dubius

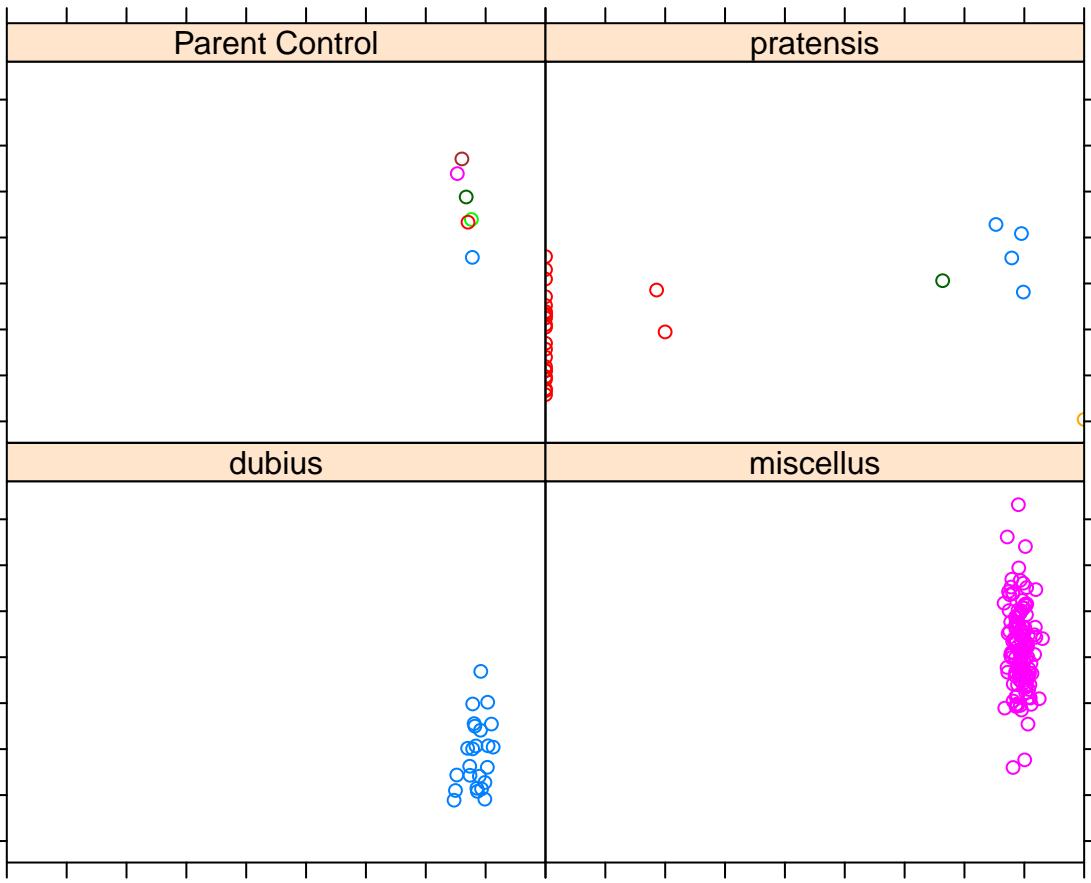
miscellus

140
120
100
80
60
40
20
0

10 20 30 40 50 60 70 80

theta (deg)

radius (arb)



V_2_5_isotig07034_628 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

radius (arb)

120
110
100
90
80
70
60
50
40
30
20

dubius

miscellus

120
110
100
90
80
70
60
50
40
30
20

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig07034_628 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

200
180
160
140
120
100
80
60
40
20
0

dubius

miscellus

radius (arb)

200
180
160
140
120
100
80
60
40
20
0

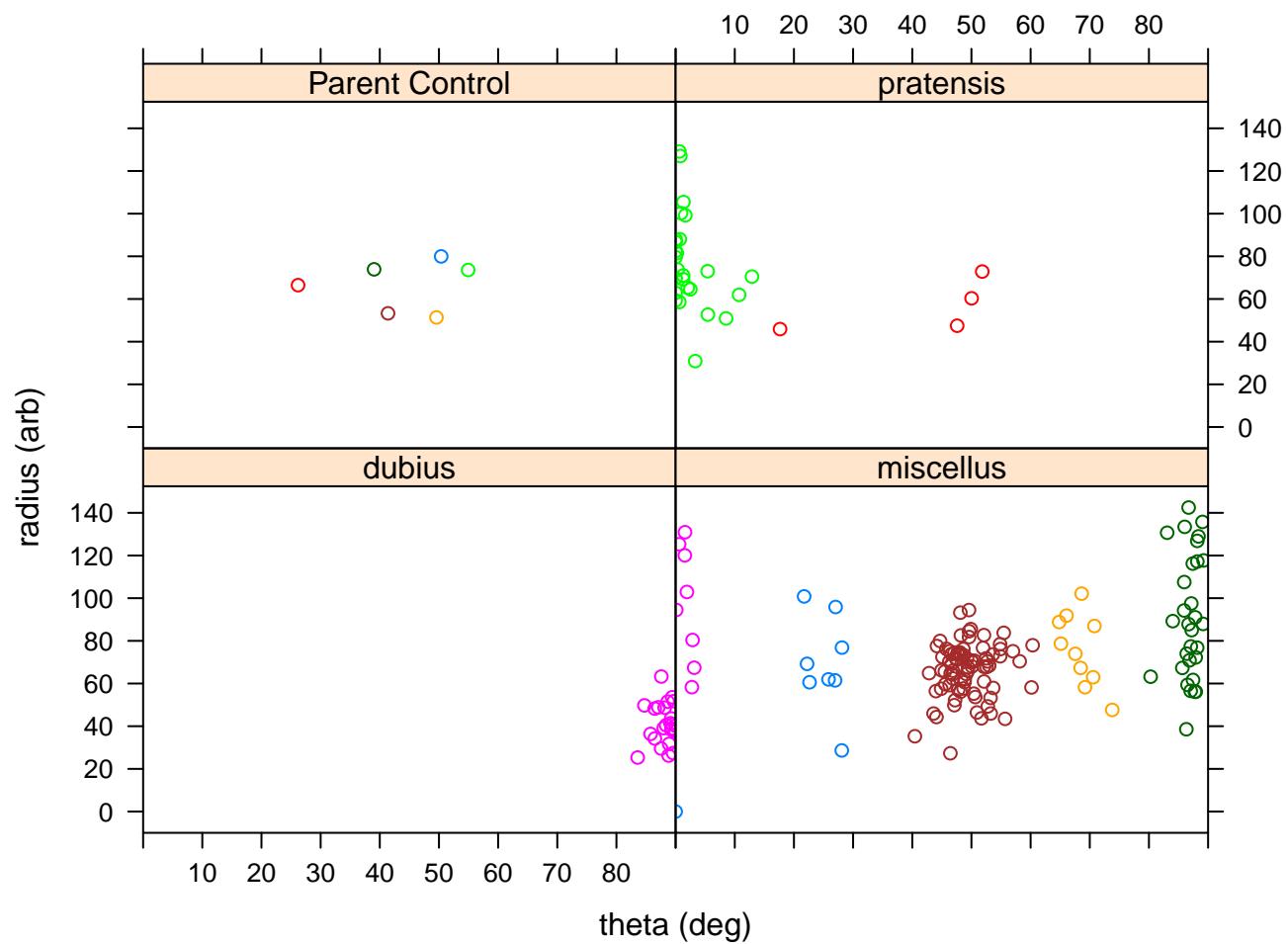
10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig07034_909 gDNA

Call

Bad_Spectrum	LLLL	P
HH	PM3_1_1	G
HHHH	PM3_1_2	R
LH	PM3_2_1	O
LHHH	PM4	G
LL	PM5	R
LLHH	PM6	B
LLLH		



V_2_5_isotig07034_909 cDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

220
200
180
160
140
120
100
80
60
40
20

dubius

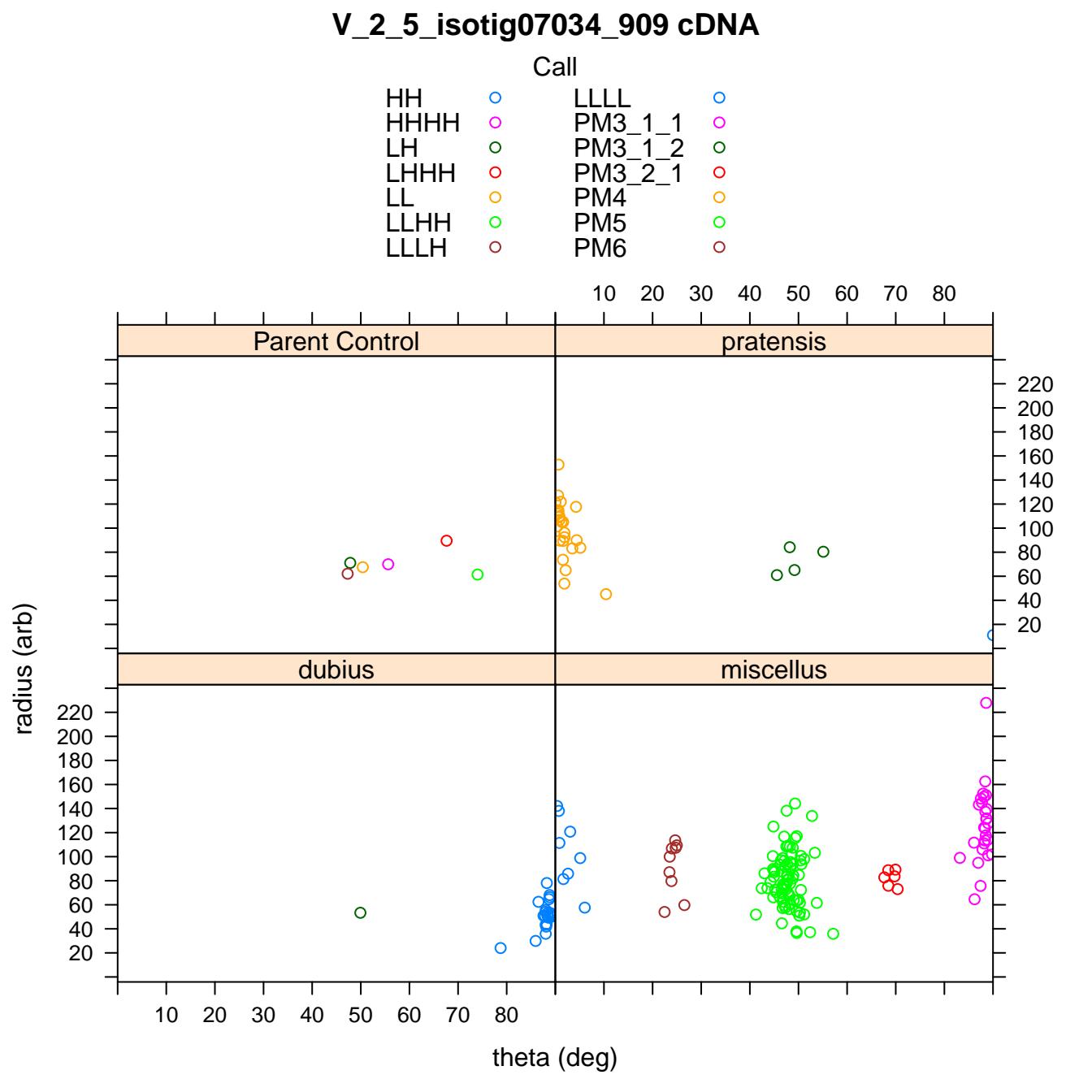
miscellus

radius (arb)

220
200
180
160
140
120
100
80
60
40
20

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig07041_624 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		

10 20 30 40 50 60 70 80

Parent Control

porrifolius

radius (arb)

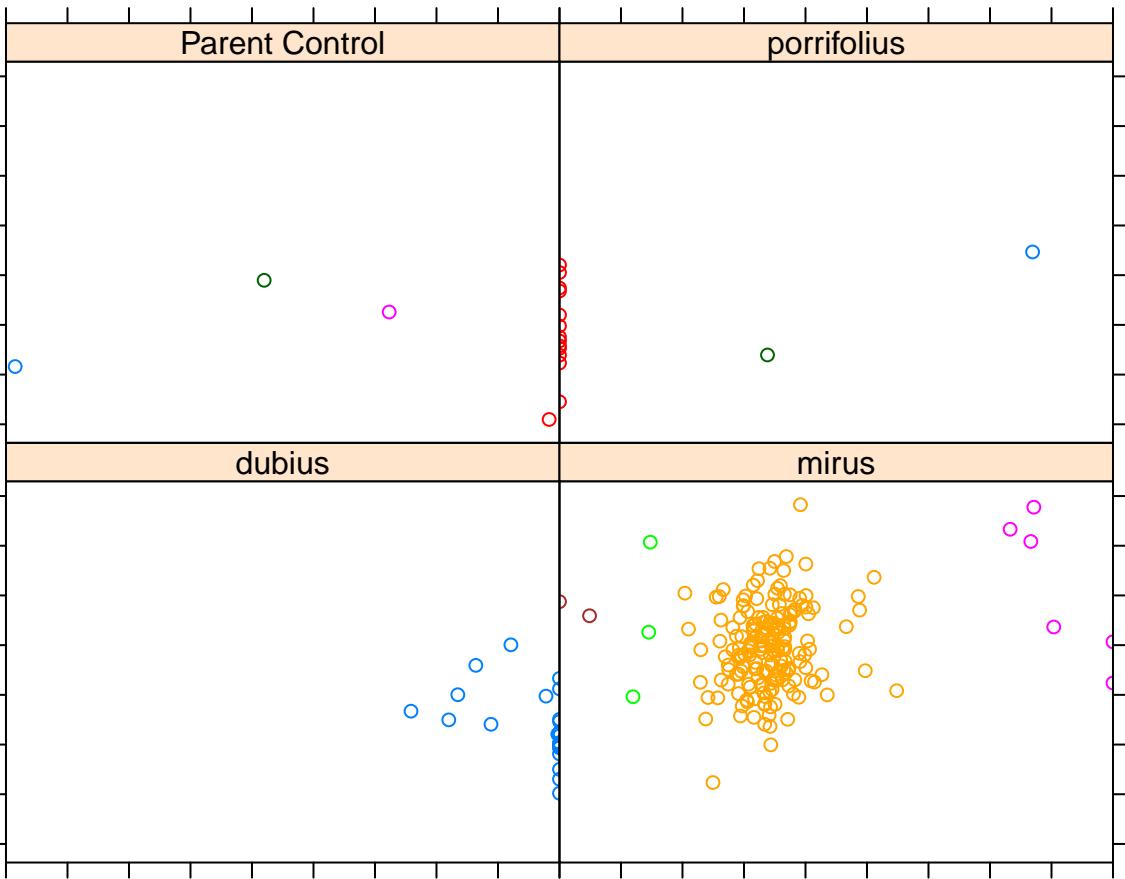
80
70
60
50
40
30
20
10

dubius

mirus

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig07041_624 cDNA

Call

HH	○	LLLL	○
LH	○	No_Aleles	○
LHHH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

80
70
60
50
40
30
20
10
0

dubius

mirus

radius (arb)

80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)

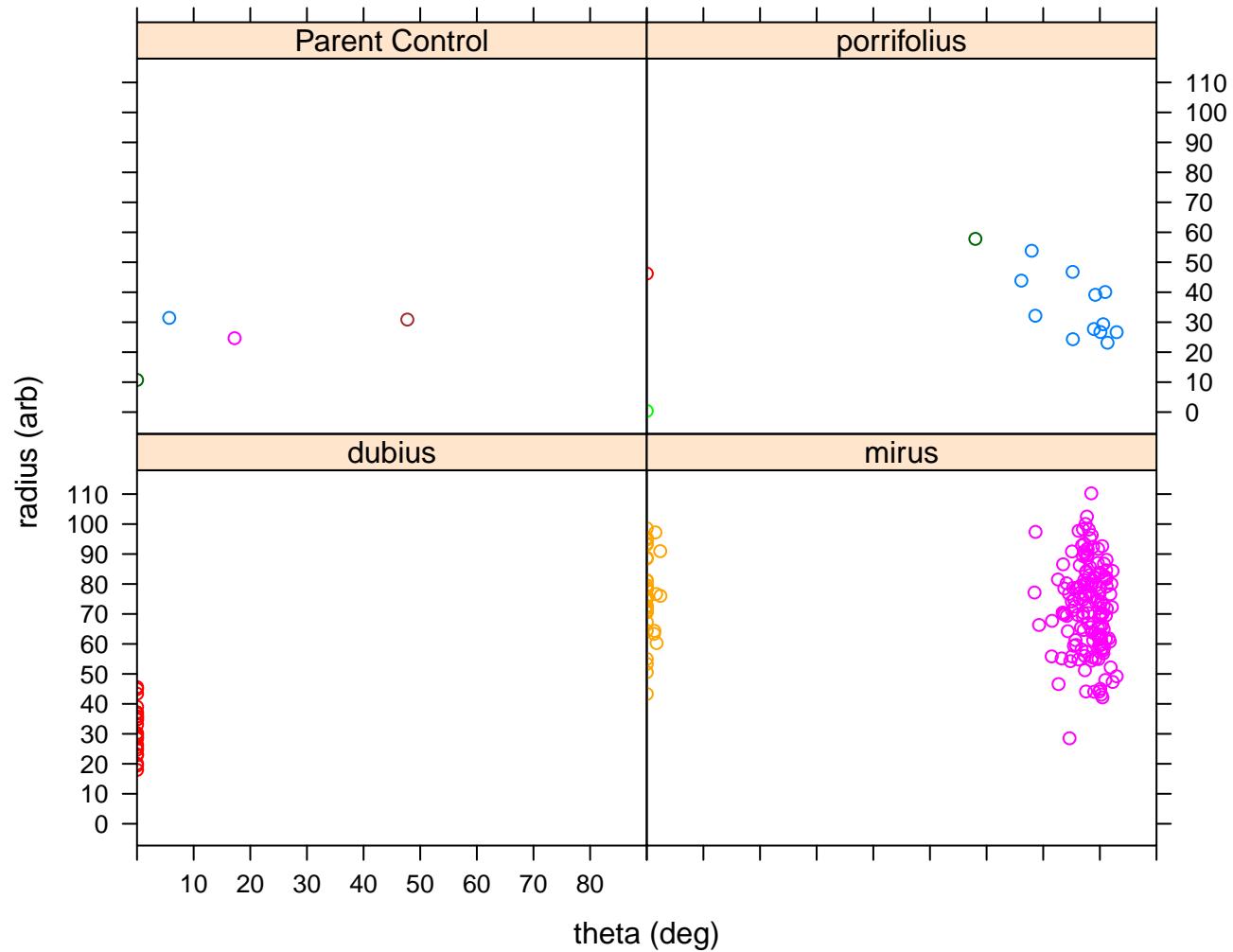
80
70
60
50
40
30
20
10
0

V_2_5_isotig07056_238 gDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLLL	○	PM2_2_1	○

10 20 30 40 50 60 70 80



V_2_5_isotig07056_238 cDNA

Call

HH	○	PM1	○
HHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLLL	○	PM2_2_1	○
No_Aleles	○		

10 20 30 40 50 60 70 80

Parent Control

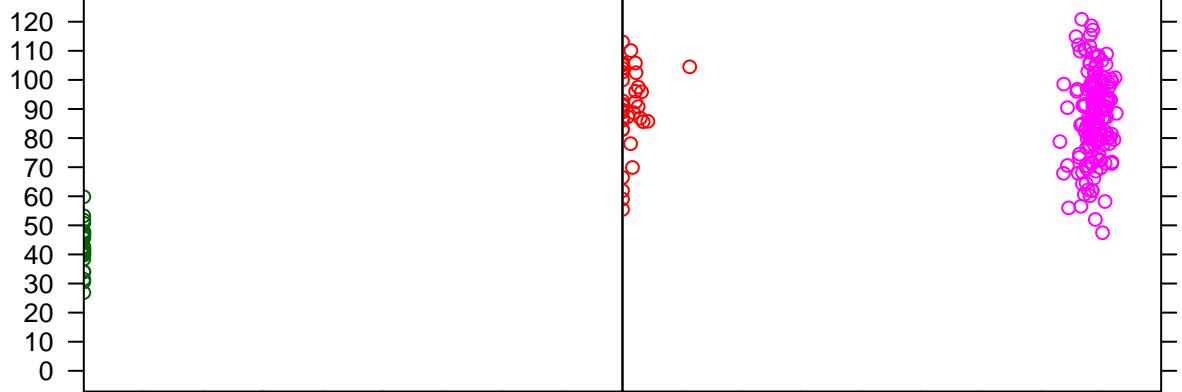
porrifolius

120
110
100
90
80
70
60
50
40
30
20
10
0

radius (arb)

dubius

mirus

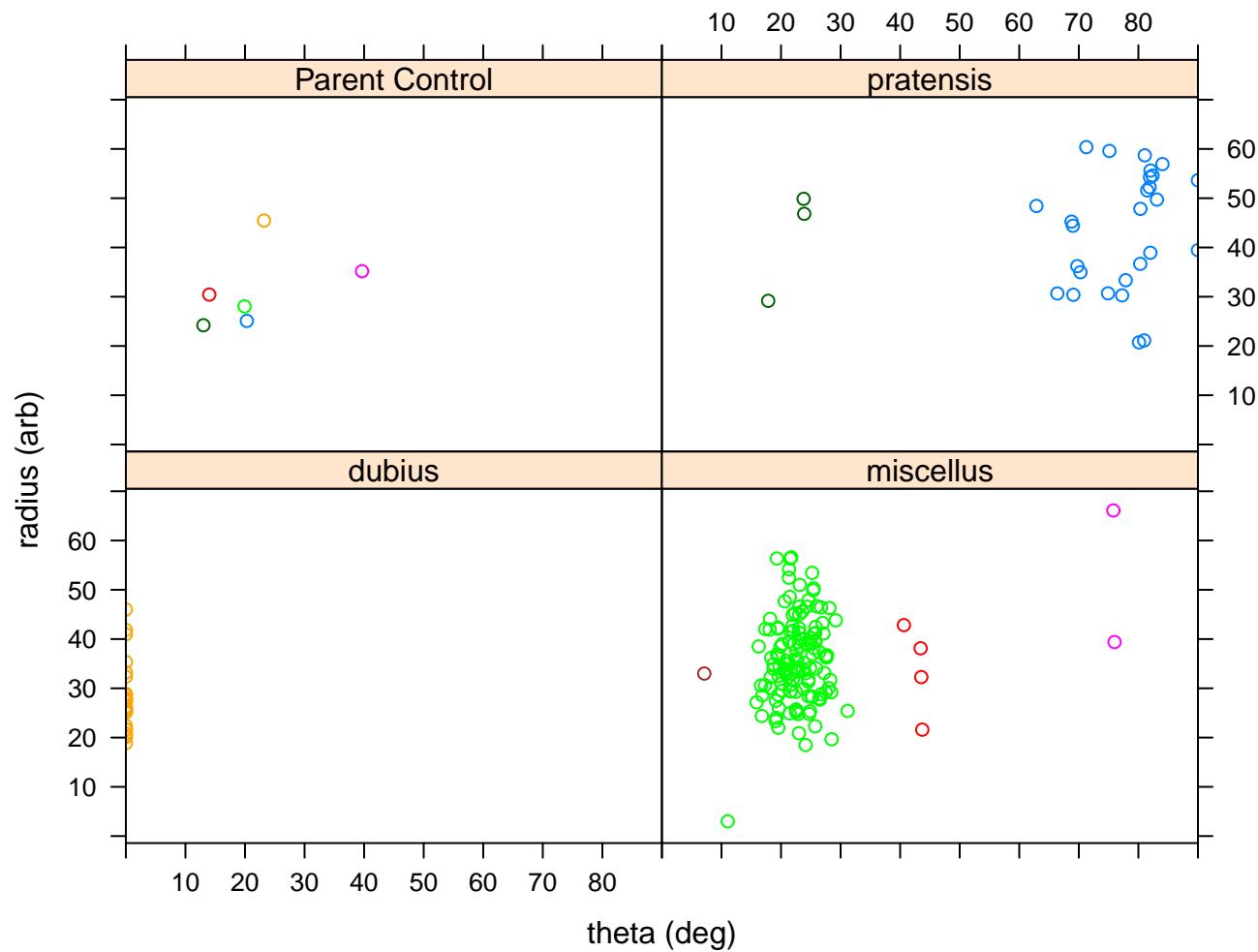


theta (deg)

V_2_5_isotig07071_846 gDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LHHH	○	PM4	○
LL	○	PM5	○
LLHH	○	PM6	○
LLLL	○		



V_2_5_isotig07071_846 cDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

130
120
110
100
90
80
70
60
50
40
30
20

dubius

miscellus

130
120
110
100
90
80
70
60
50
40
30
20

radius (arb)

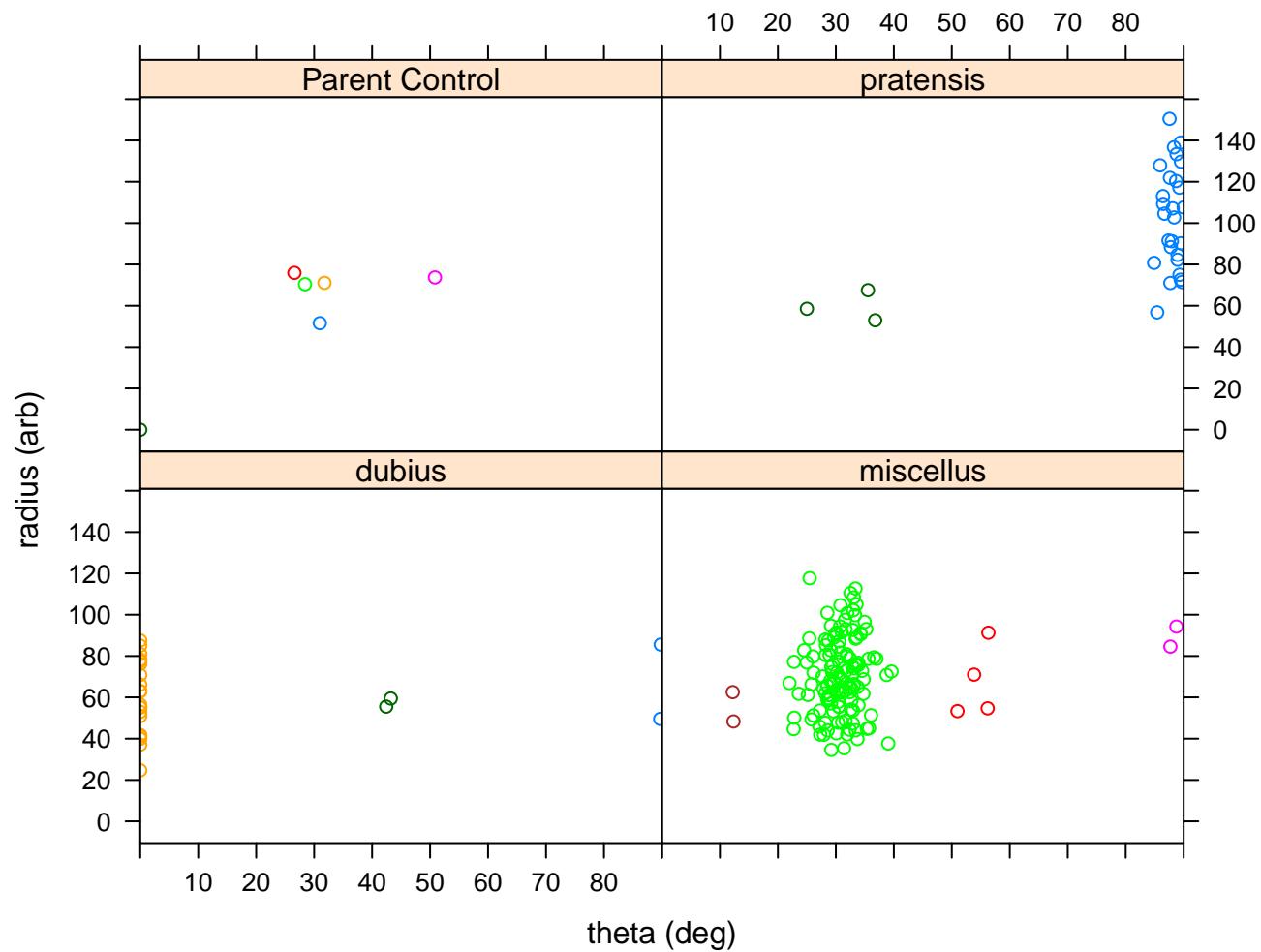
10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig07071_882 gDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LHHH	○	PM4	○
LL	○	PM5	○
LLHH	○	PM6	○
LLLH	○		



V_2_5_isotig07071_882 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

180
160
140
120
100
80
60
40
20
0

dubius

miscellus

radius (arb)

180
160
140
120
100
80
60
40
20
0

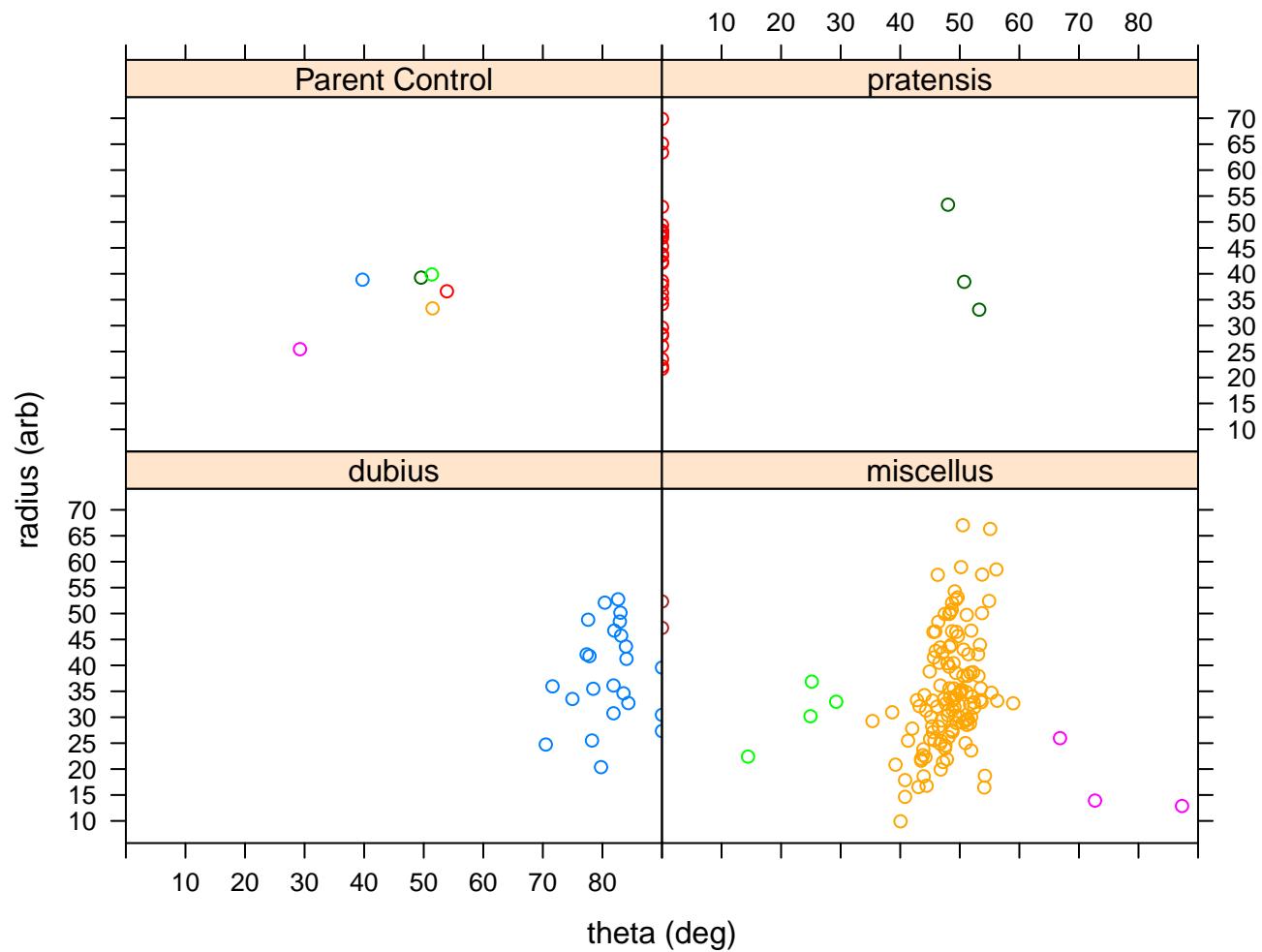
10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig07071_908 gDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		



V_2_5_isotig07071_908 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LL	○	PM3_2_1	○
LLHH	○	PM4	○
LLLH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

90
80
70
60
50
40
30
20
10
0

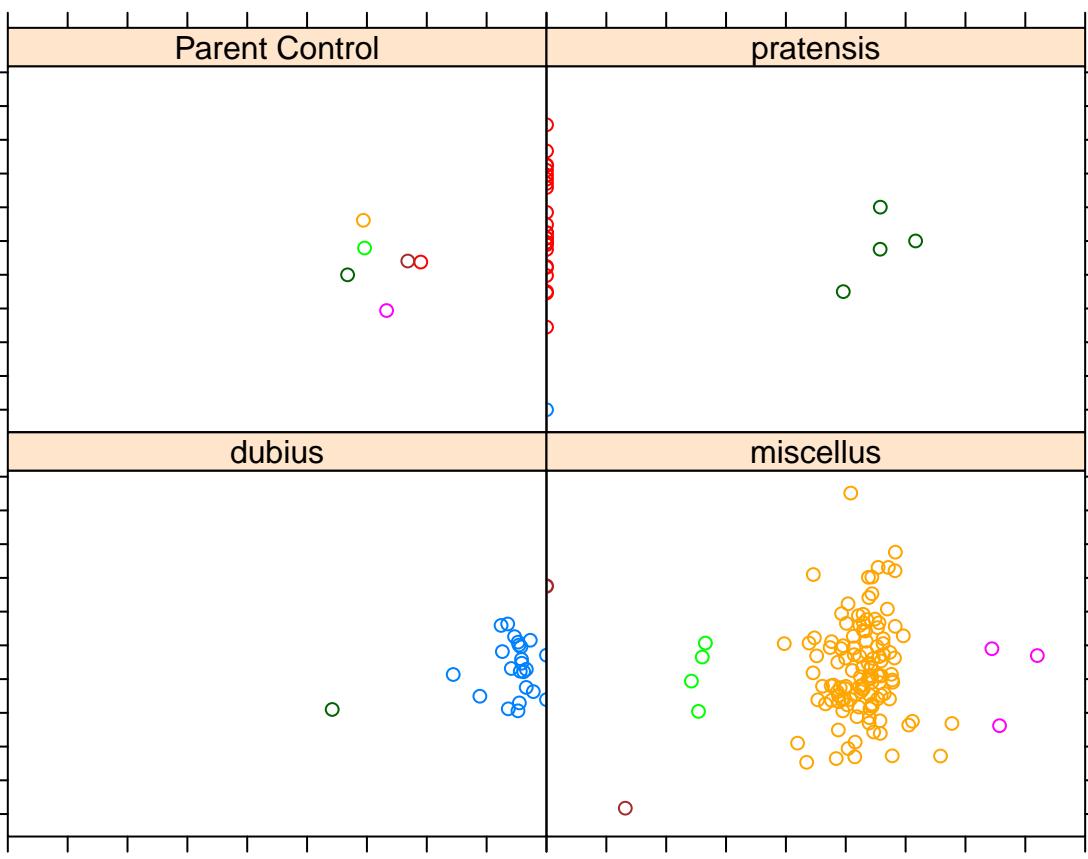
dubius

miscellus

radius (arb)

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig07093_344 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LHHH	○	PM2_1_2	○
LL	○	PM2_2_1	○
LLHH	○		

10 20 30 40 50 60 70 80

Parent Control

porrifolius

90
80
70
60
50
40
30
20
10
0

dubius

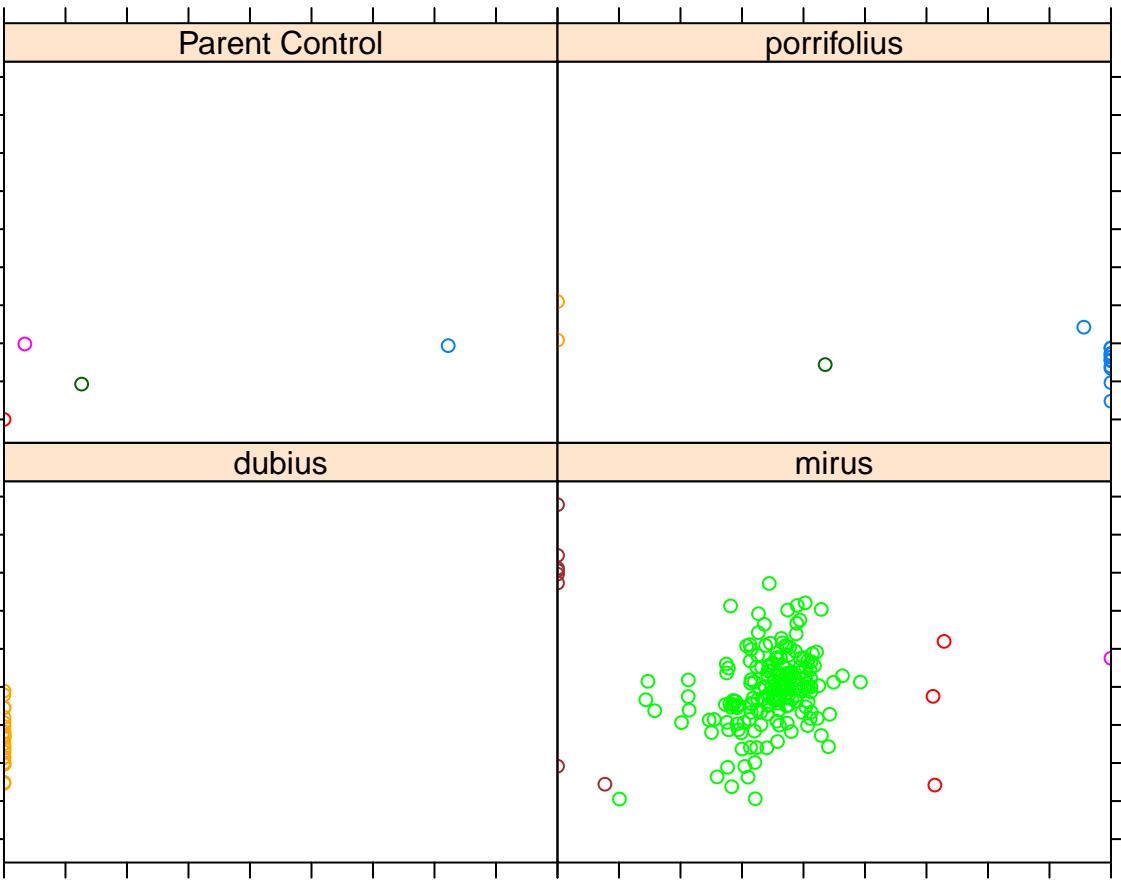
mirus

90
80
70
60
50
40
30
20
10
0

radius (arb)

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig07093_344 cDNA

Call

Bad_Spectrum	○	LLLL	○
HH	○	No_Alleles	○
HHHH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		

10 20 30 40 50 60 70 80

Parent Control

porrifolius

100
90
80
70
60
50
40
30
20
10
0

dubius

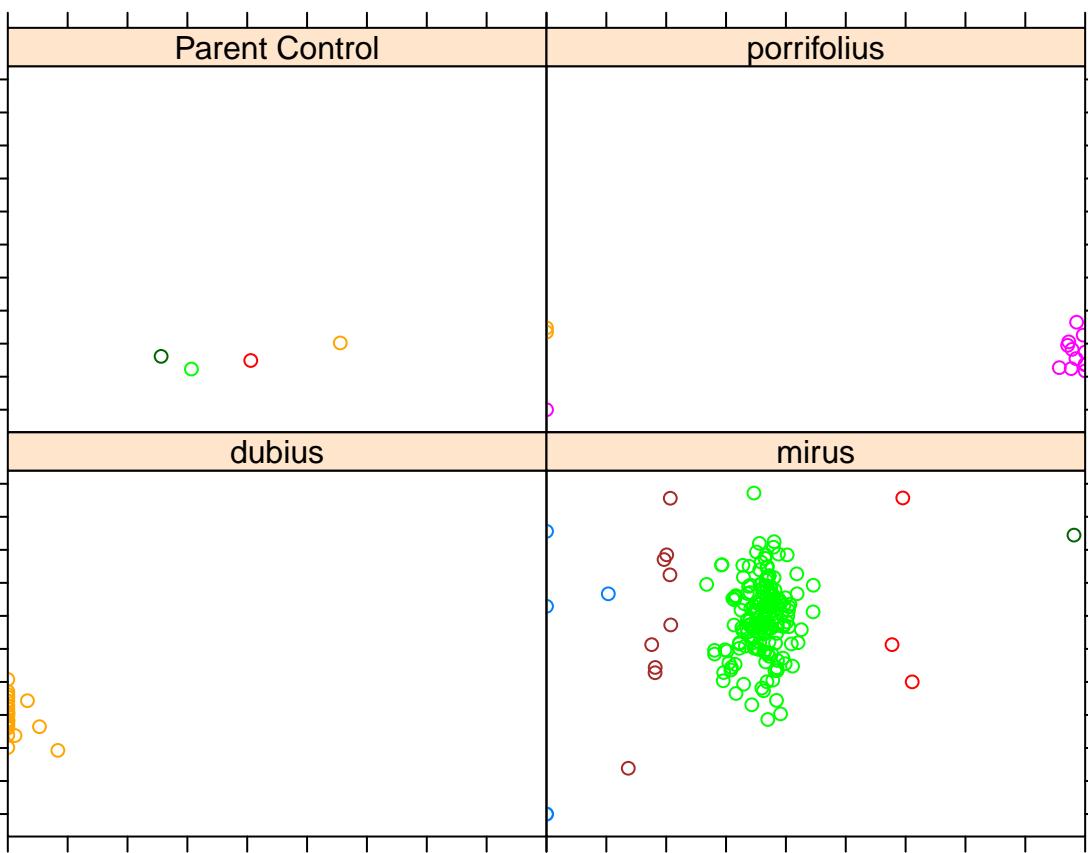
mirus

100
90
80
70
60
50
40
30
20
10
0

radius (arb)

10 20 30 40 50 60 70 80

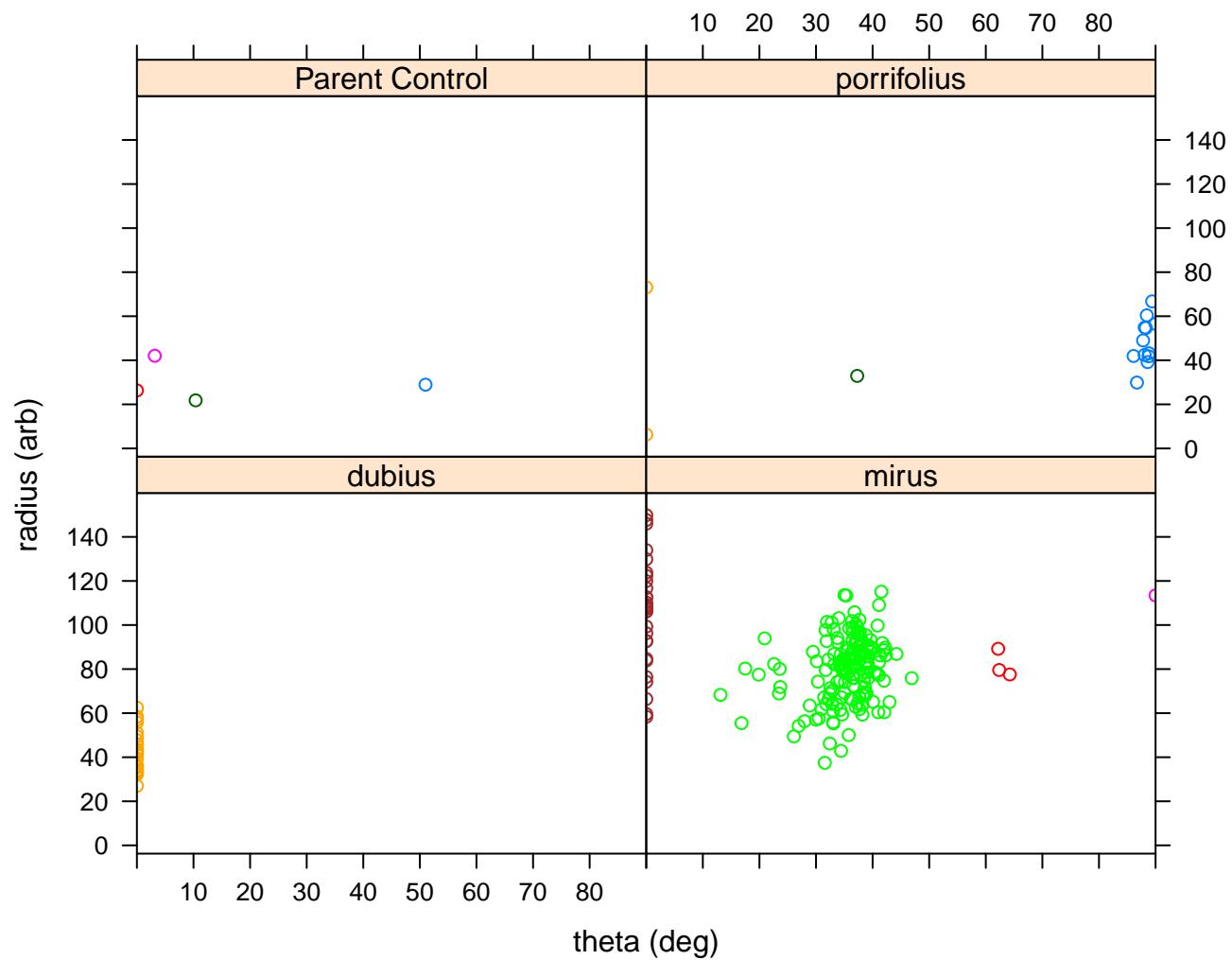
theta (deg)



V_2_5_isotig07093_841 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LHHH	○	PM2_1_2	○
LL	○	PM2_2_1	○
LLHH	○		



V_2_5_isotig07093_841 cDNA

Call

HH	○	LLLL	○
HHHH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		

10 20 30 40 50 60 70 80

Parent Control

porrifolius

200
180
160
140
120
100
80
60
40
20

dubius

mirus

200
180
160
140
120
100
80
60
40
20

radius (arb)

theta (deg)

10 20 30 40 50 60 70 80

V_2_5_isotig07097_1676 gDNA

Call

Bad_Spectrum	○	No_Alleles	○
HH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LL	○	PM3_2_1	○
LLHH	○	PM4	○
LLLH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

30
25
20
15
10
5
0

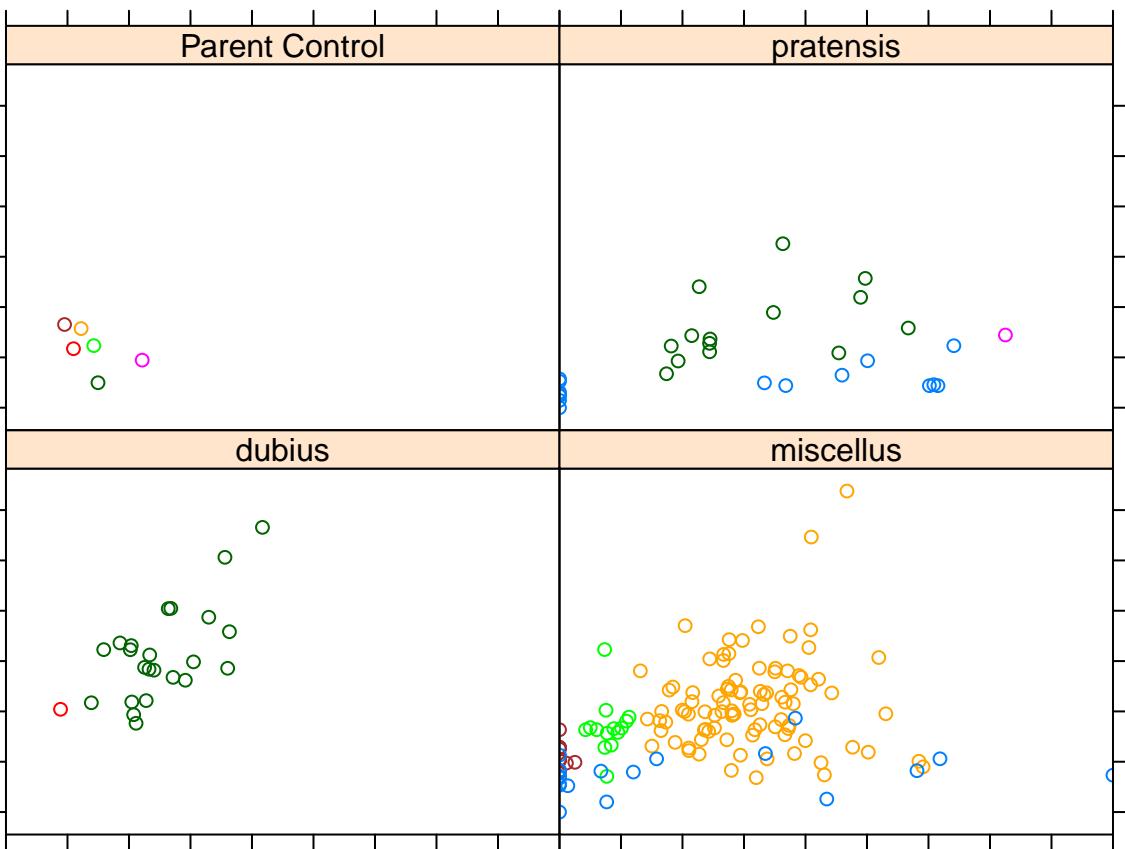
dubius

miscellus

radius (arb)

10 20 30 40 50 60 70 80

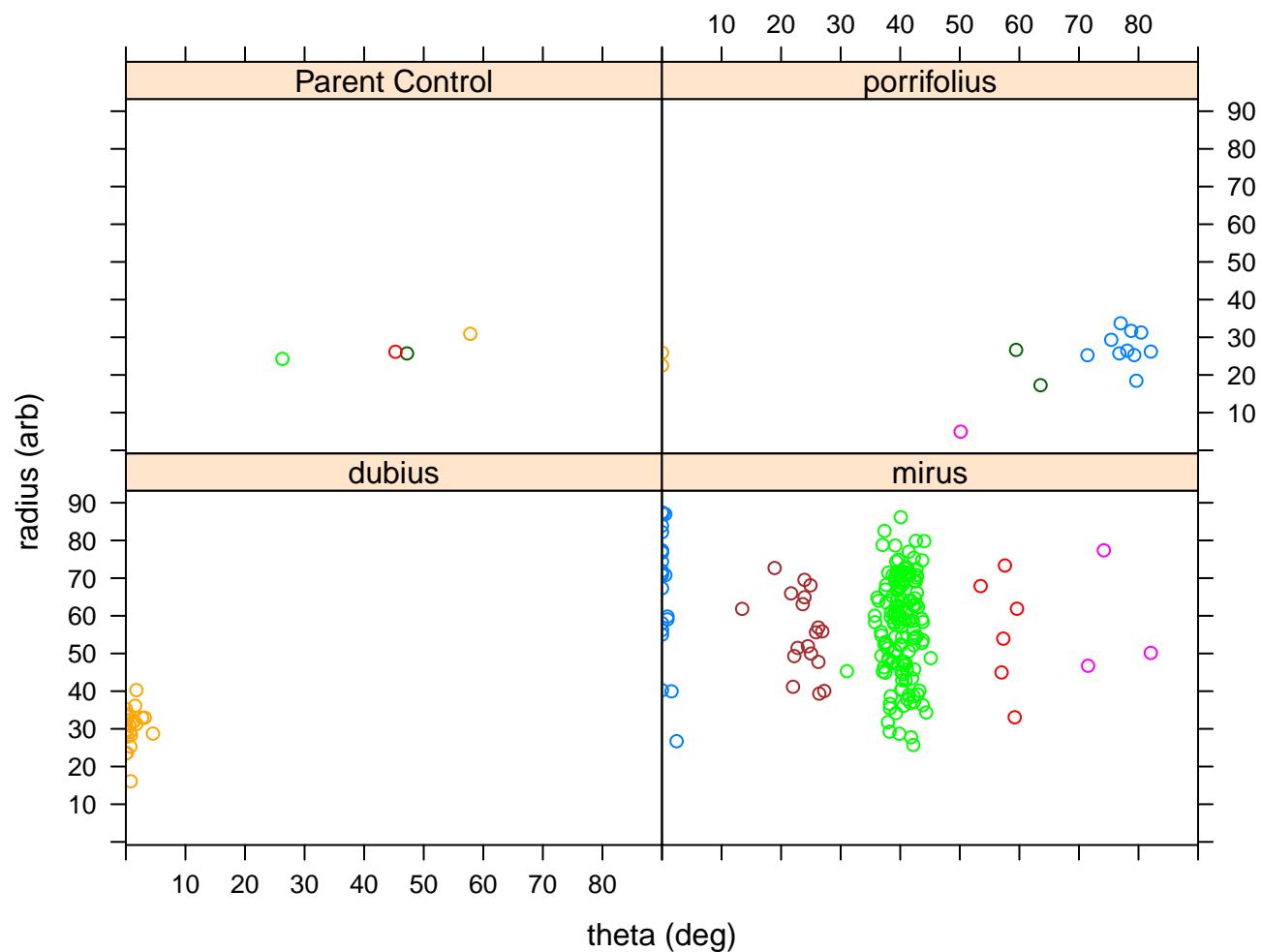
theta (deg)



V_2_5_isotig07156_772 cDNA

Call

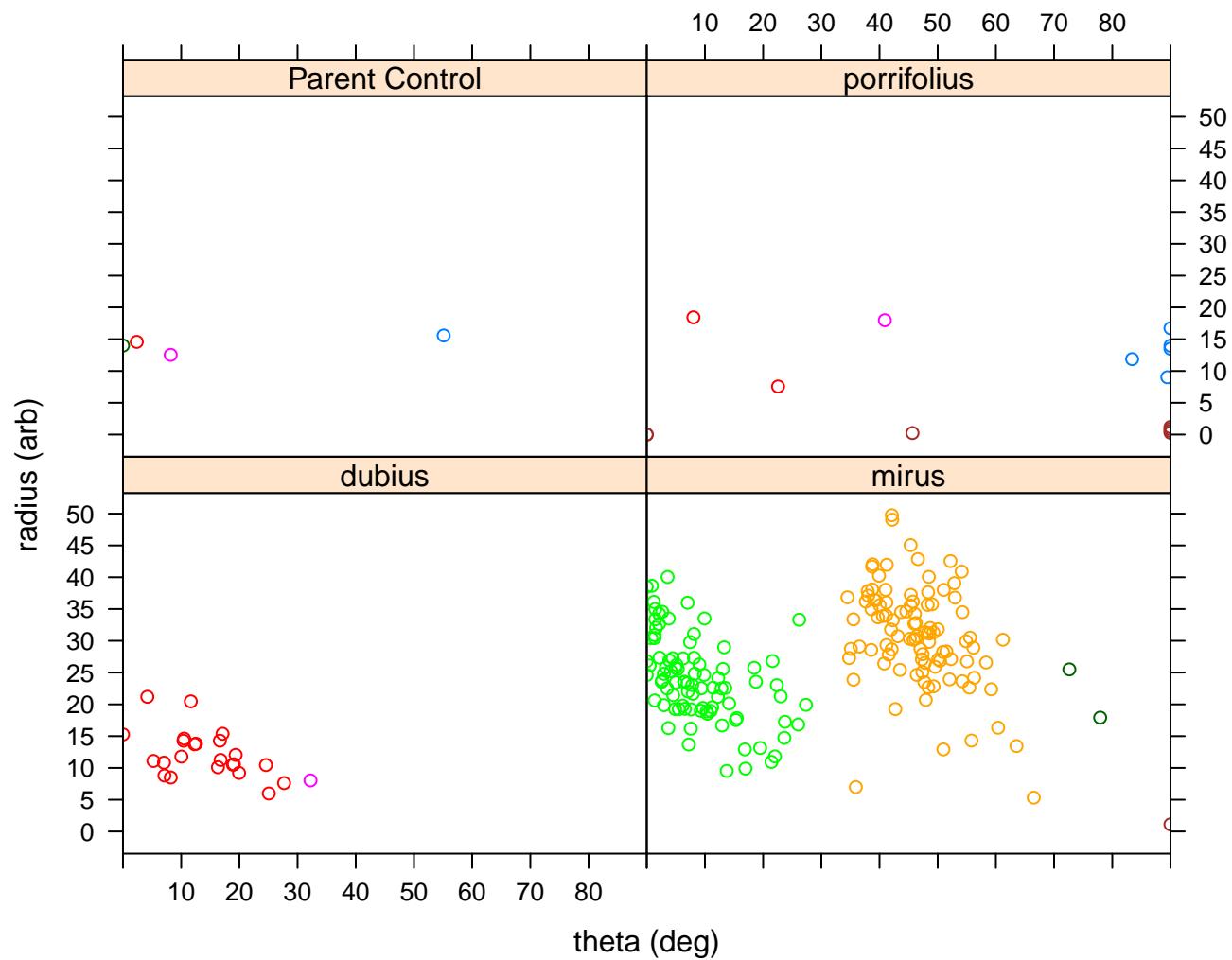
HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig07162_835 gDNA

Call

HH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLL	○		



V_2_5_isotig07167_788 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LHHH	○	PM2_1_2	○
LL	○	PM2_2_1	○
LLHH	○		

10 20 30 40 50 60 70 80

Parent Control

porrifolius

radius (arb)

120
100
80
60
40
20
0

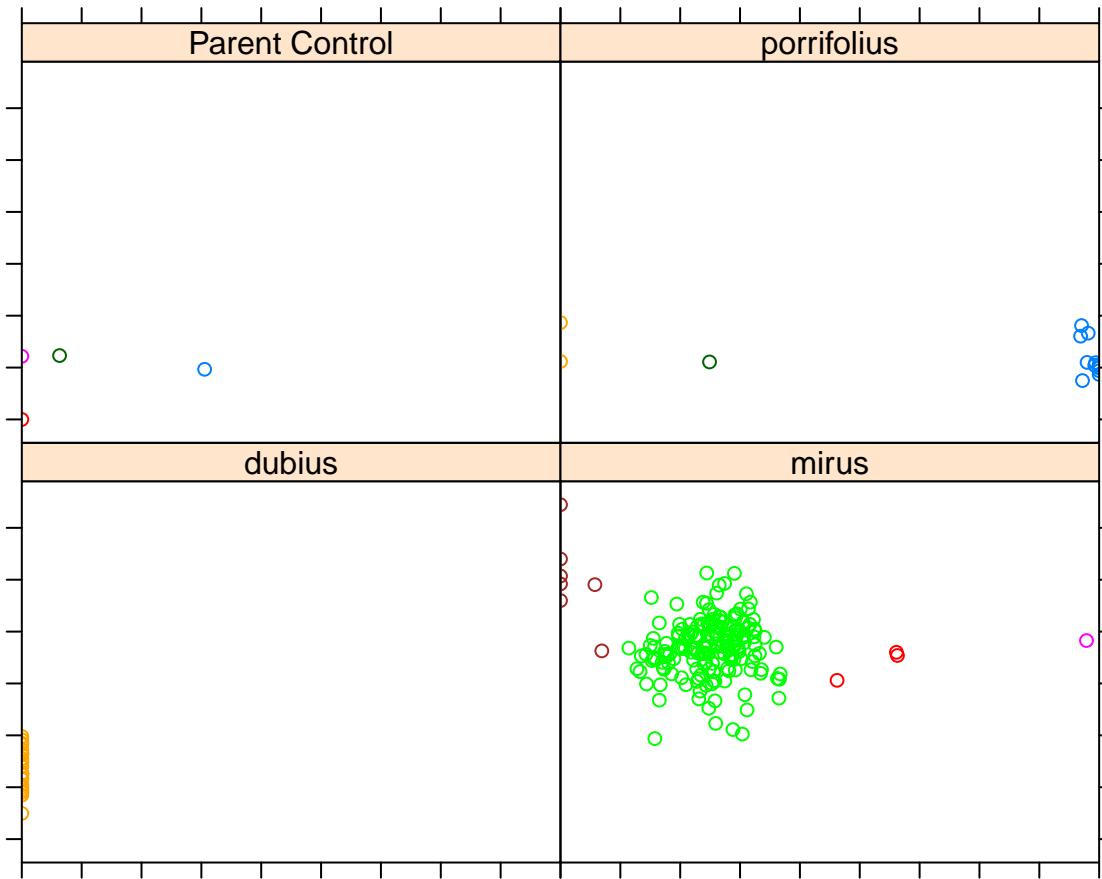
dubius

mirus

120
100
80
60
40
20
0

10 20 30 40 50 60 70 80

theta (deg)

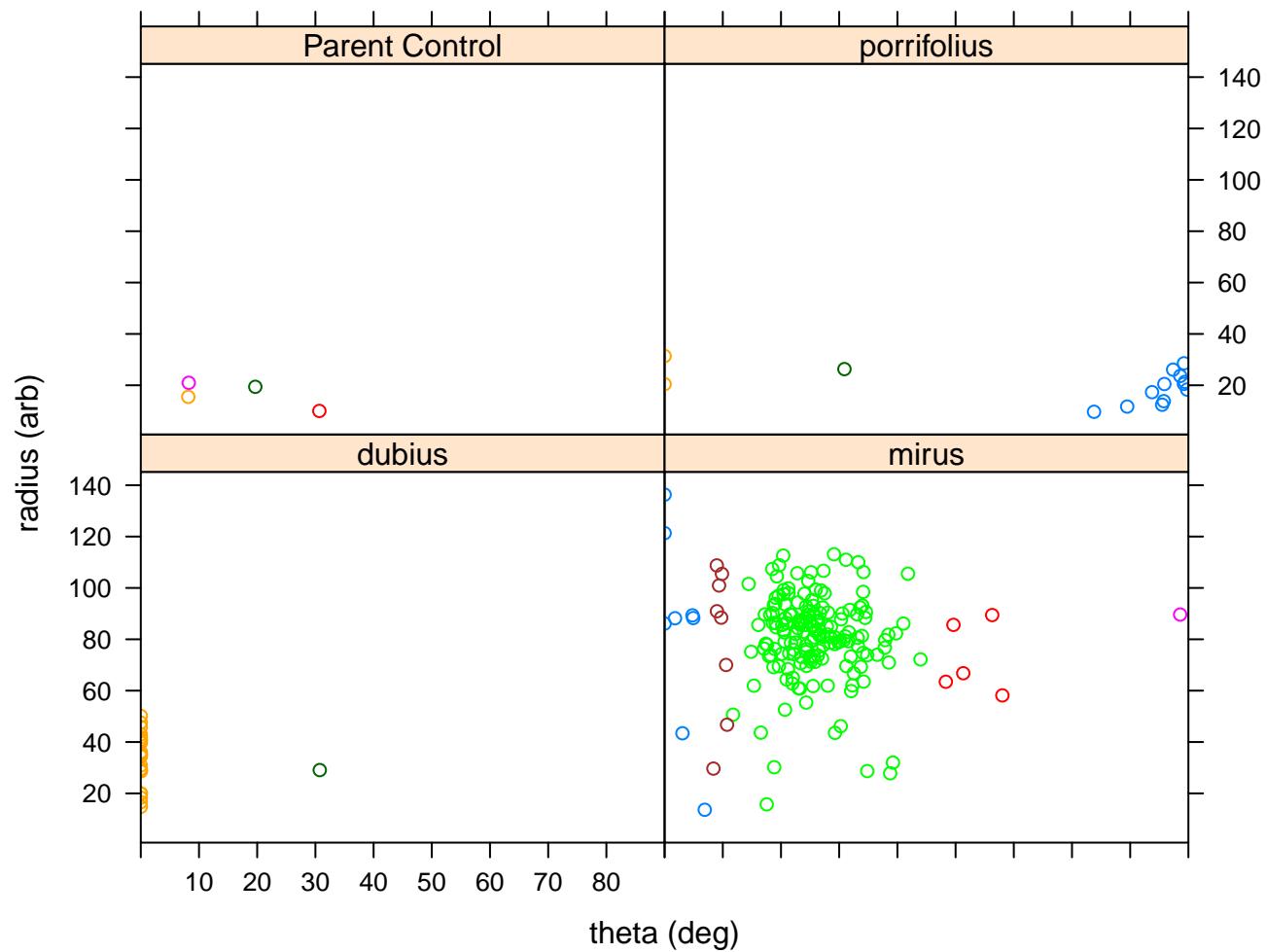


V_2_5_isotig07167_788 cDNA

Call

HH	○	LLLH	○
HHHH	○	LLLL	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80



V_2_5_isotig07222_575 cDNA

Call

HH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LL	○	PM3_2_1	○
LLHH	○	PM4	○
LLLH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

100
90
80
70
60
50
40
30
20
10

dubius

miscellus

100
90
80
70
60
50
40
30
20
10

10 20 30 40 50 60 70 80

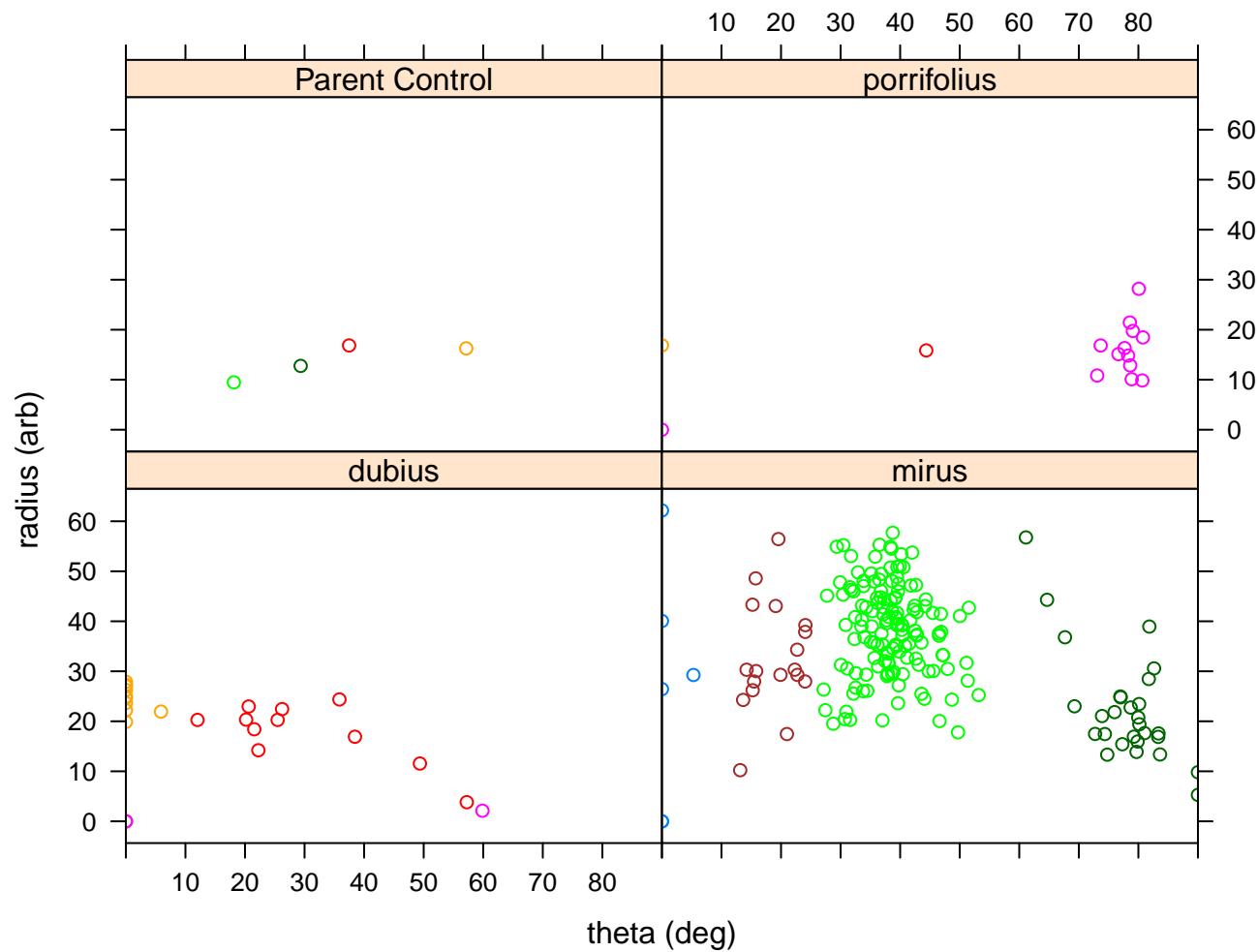
theta (deg)

radius (arb)

V_2_5_isotig07233_465 cDNA

Call

Bad_Spectrum	○	LLLL	○
HH	○	No_Alleles	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig07238_361 gDNA

Call

Bad_Spectrum	LLLL	○
HH	PM1	○
HHHH	PM2_1_1	○
LH	PM2_1_2	○
LL	PM2_2_1	○
LLHH	○	○

10 20 30 40 50 60 70 80

Parent Control

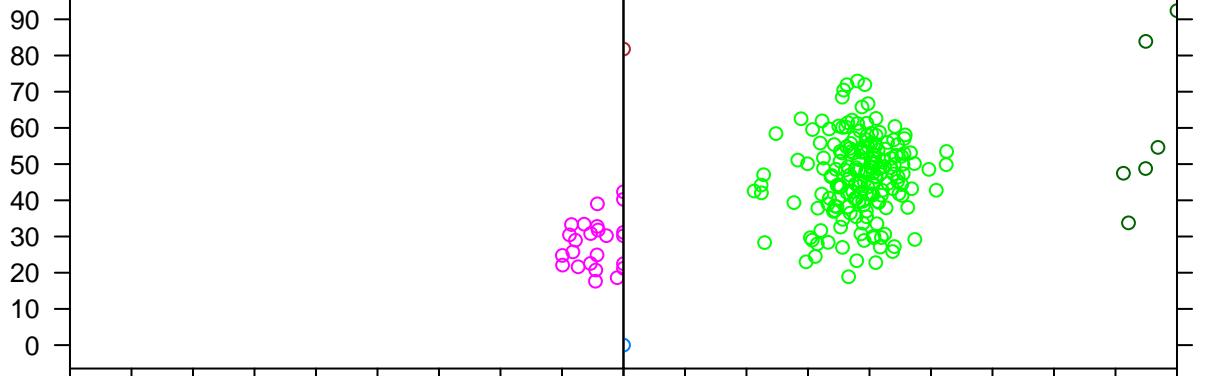
porrifolius

90
80
70
60
50
40
30
20
10
0

dubius

mirus

radius (arb)

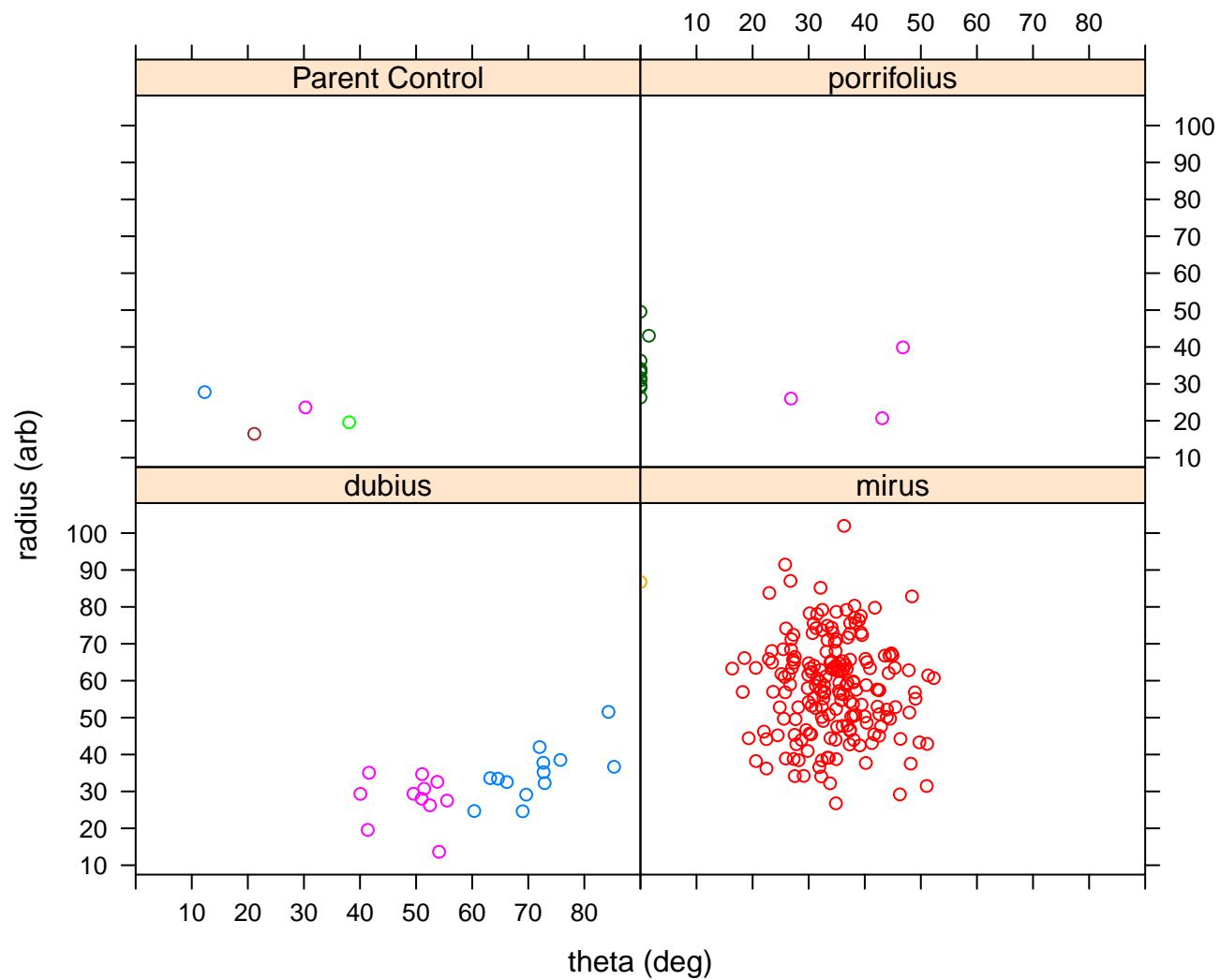


theta (deg)

V_2_5_isotig07238_361 cDNA

Call

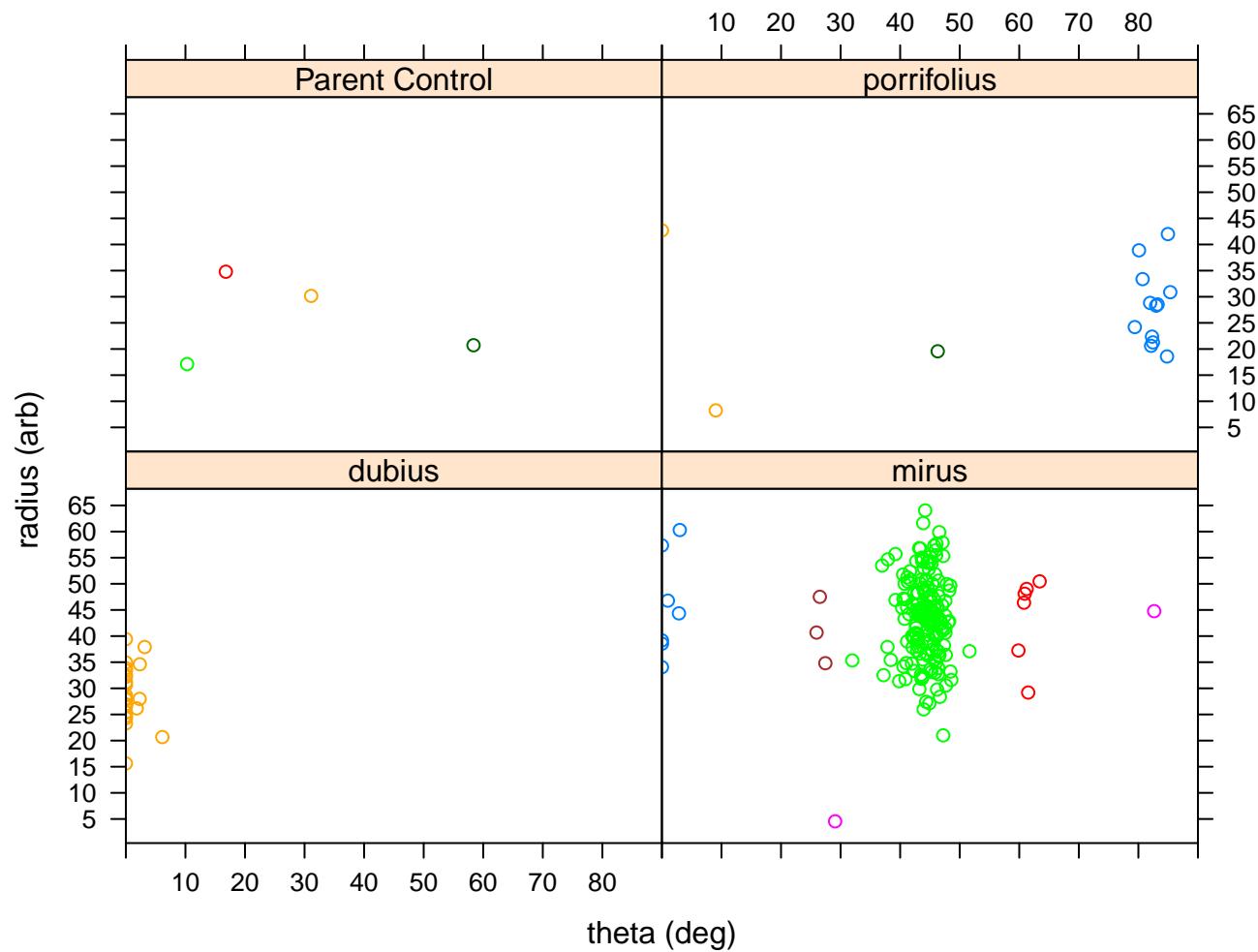
HH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLL	○		



V_2_5_isotig07238_364 gDNA

Call

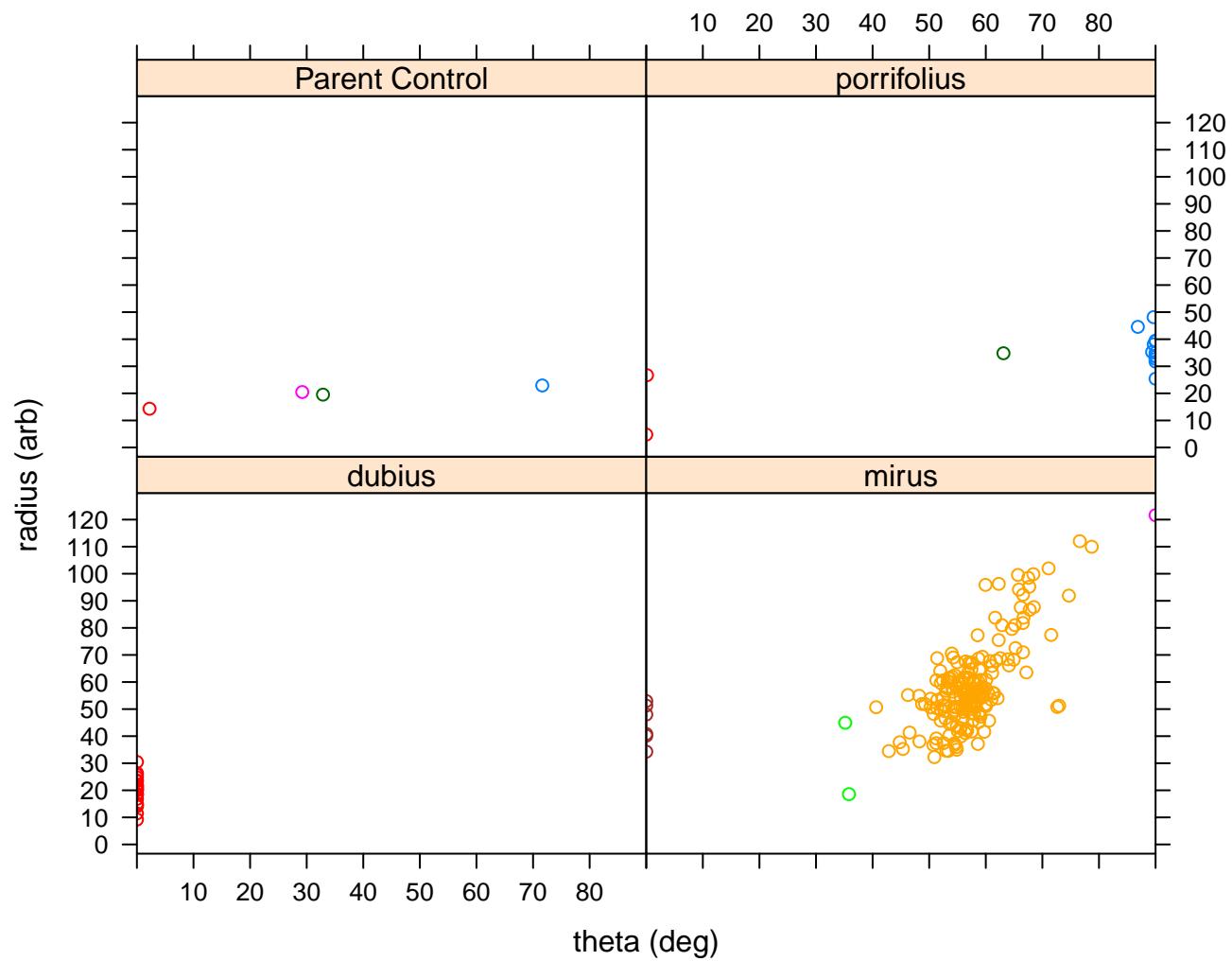
HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig07238_379 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		○



V_2_5_isotig07238_379 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLL	○		○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

120
100
80
60
40
20
0

dubius

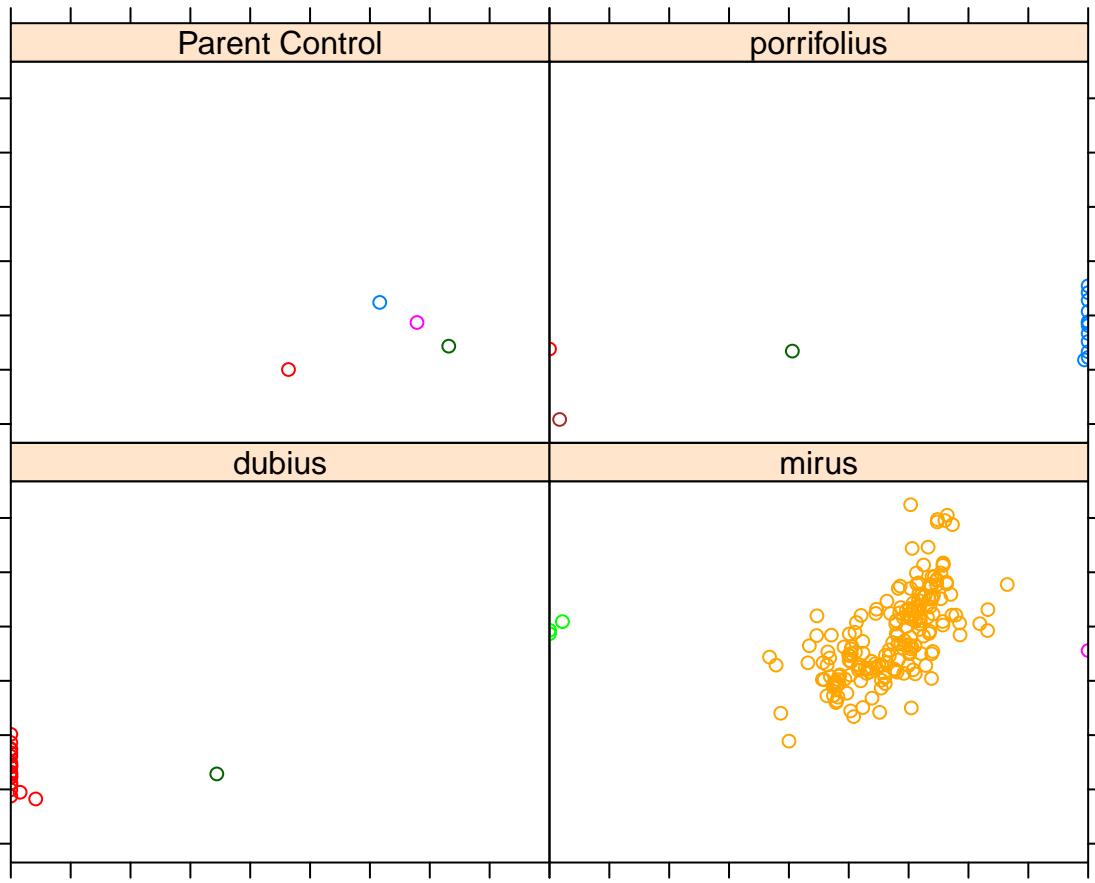
mirus

120
100
80
60
40
20
0

10 20 30 40 50 60 70 80

theta (deg)

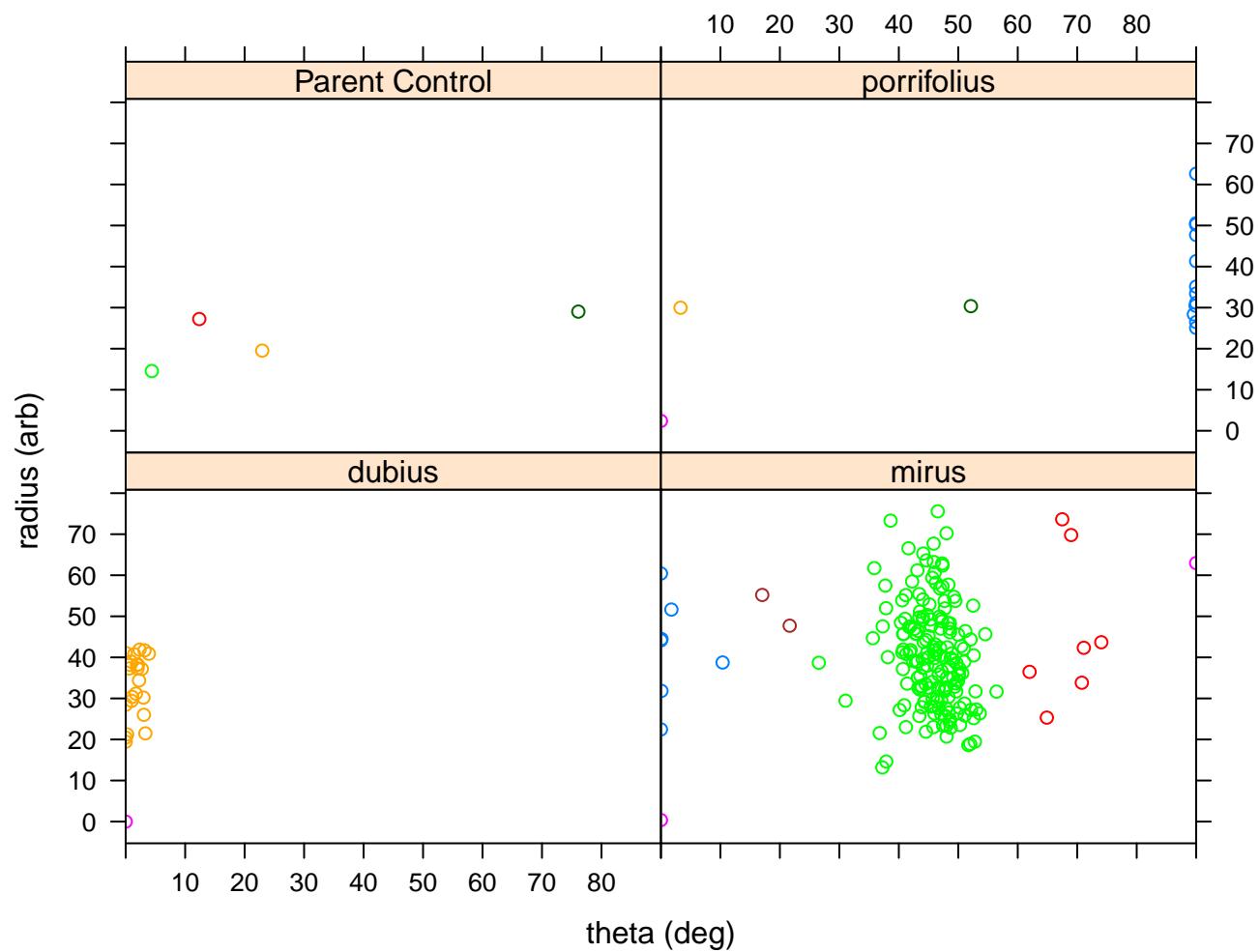
radius (arb)



V_2_5_isotig07238_621 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		

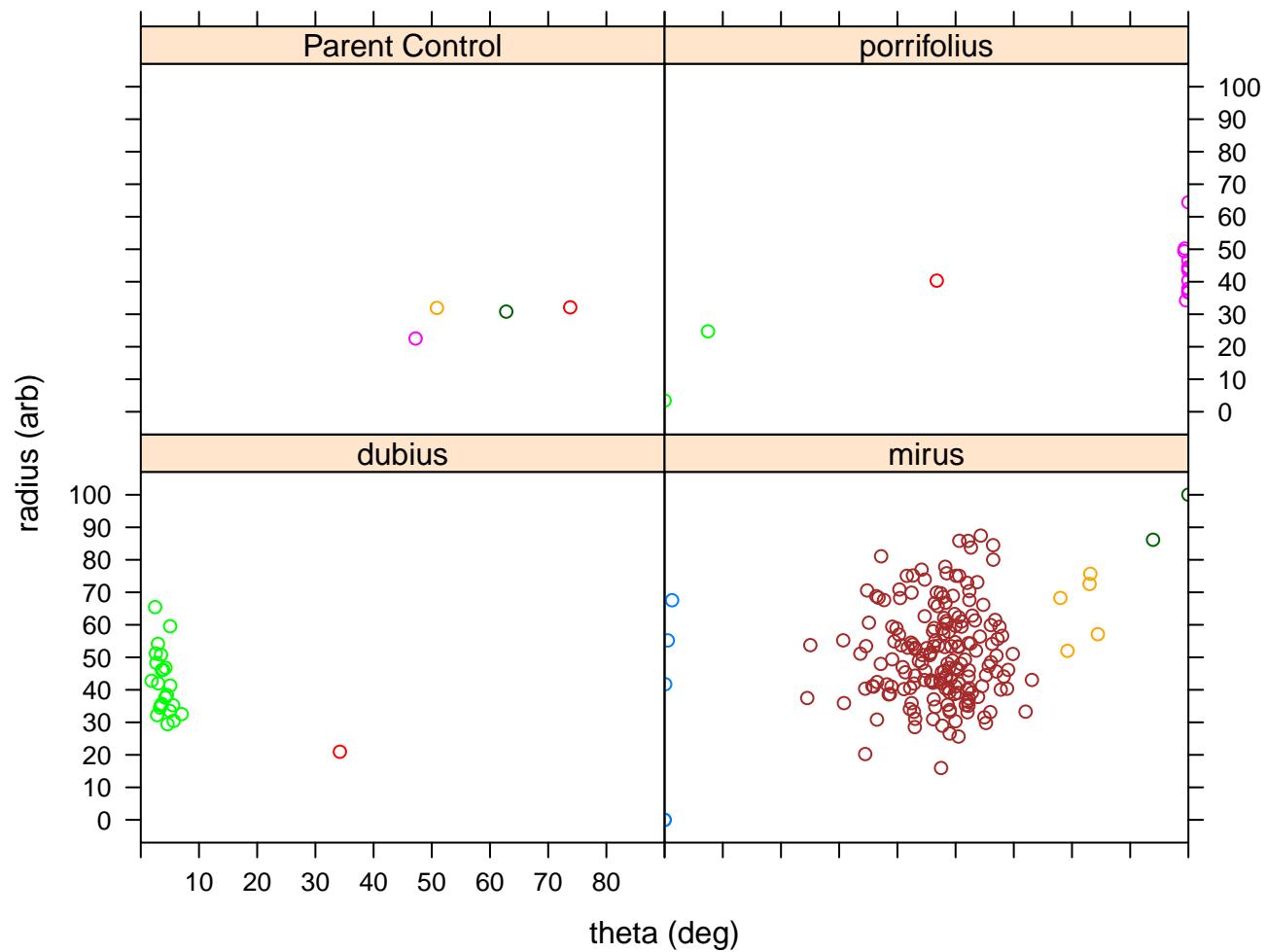


V_2_5_isotig07238_621 cDNA

Call

Bad_Spectrum	○	LLHH	○
HH	○	LLLL	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LHHH	○	PM2_1_2	○
LL	○	PM2_2_1	○

10 20 30 40 50 60 70 80



V_2_5_isotig07262_136 cDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

radius (arb)

120
110
100
90
80
70
60
50
40
30
20
10

dubius

miscellus

120
110
100
90
80
70
60
50
40
30
20
10

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig07262_363 cDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

70
60
50
40
30
20
10

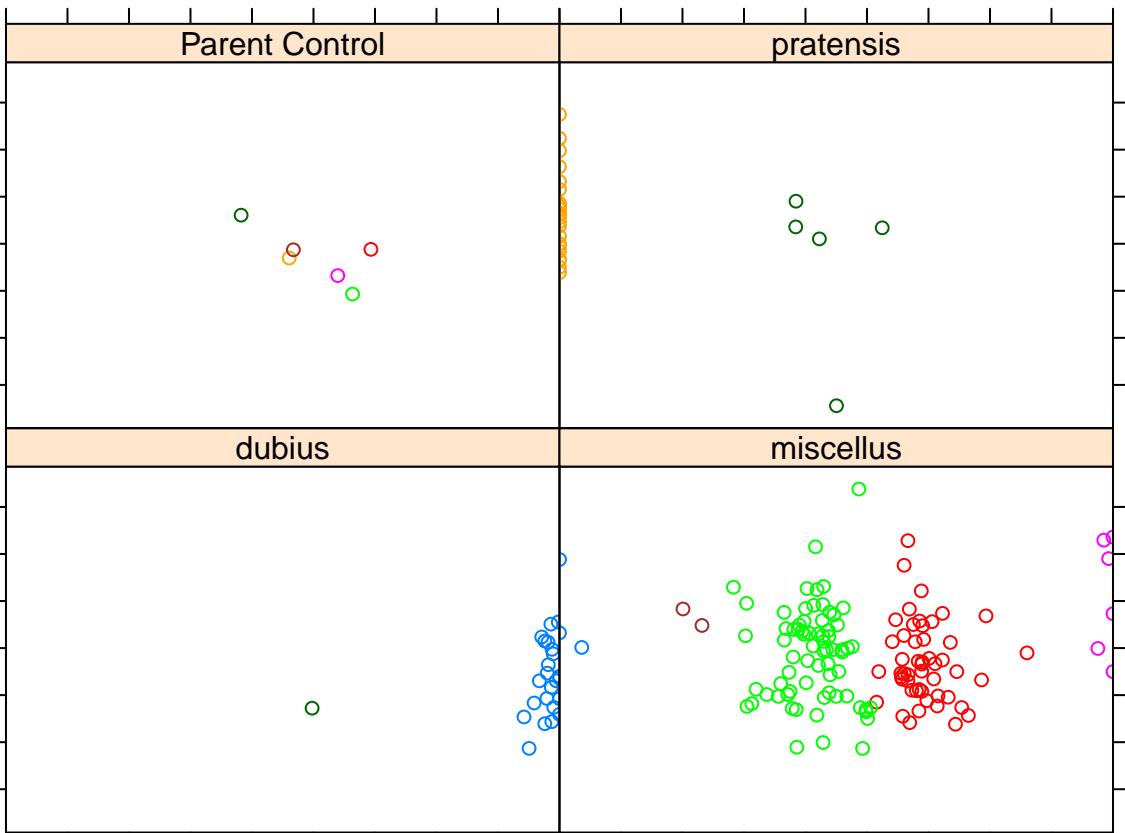
dubius

miscellus

radius (arb)

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig07272_191 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

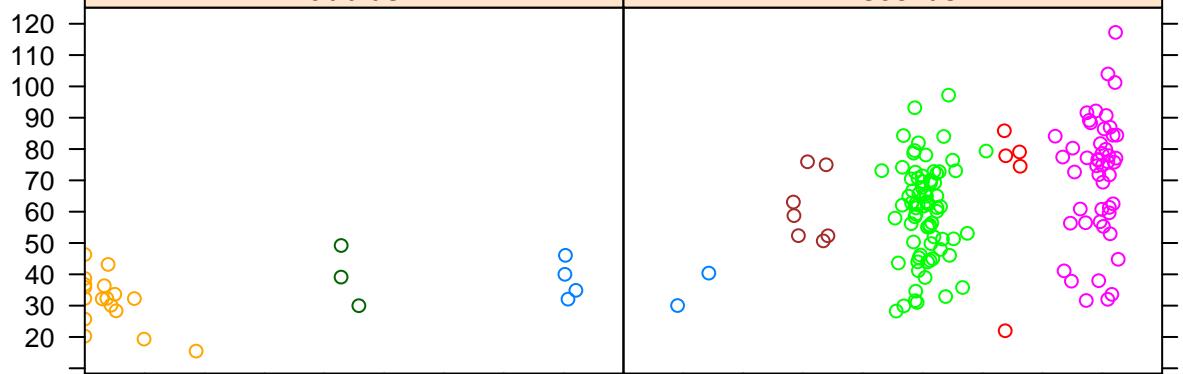
pratensis

120
110
100
90
80
70
60
50
40
30
20

dubius

miscellus

radius (arb)



theta (deg)

V_2_5_isotig07272_191 cDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

140
130
120
110
100
90
80
70
60
50
40
30
20

dubius

miscellus

140
130
120
110
100
90
80
70
60
50
40
30
20

10 20 30 40 50 60 70 80

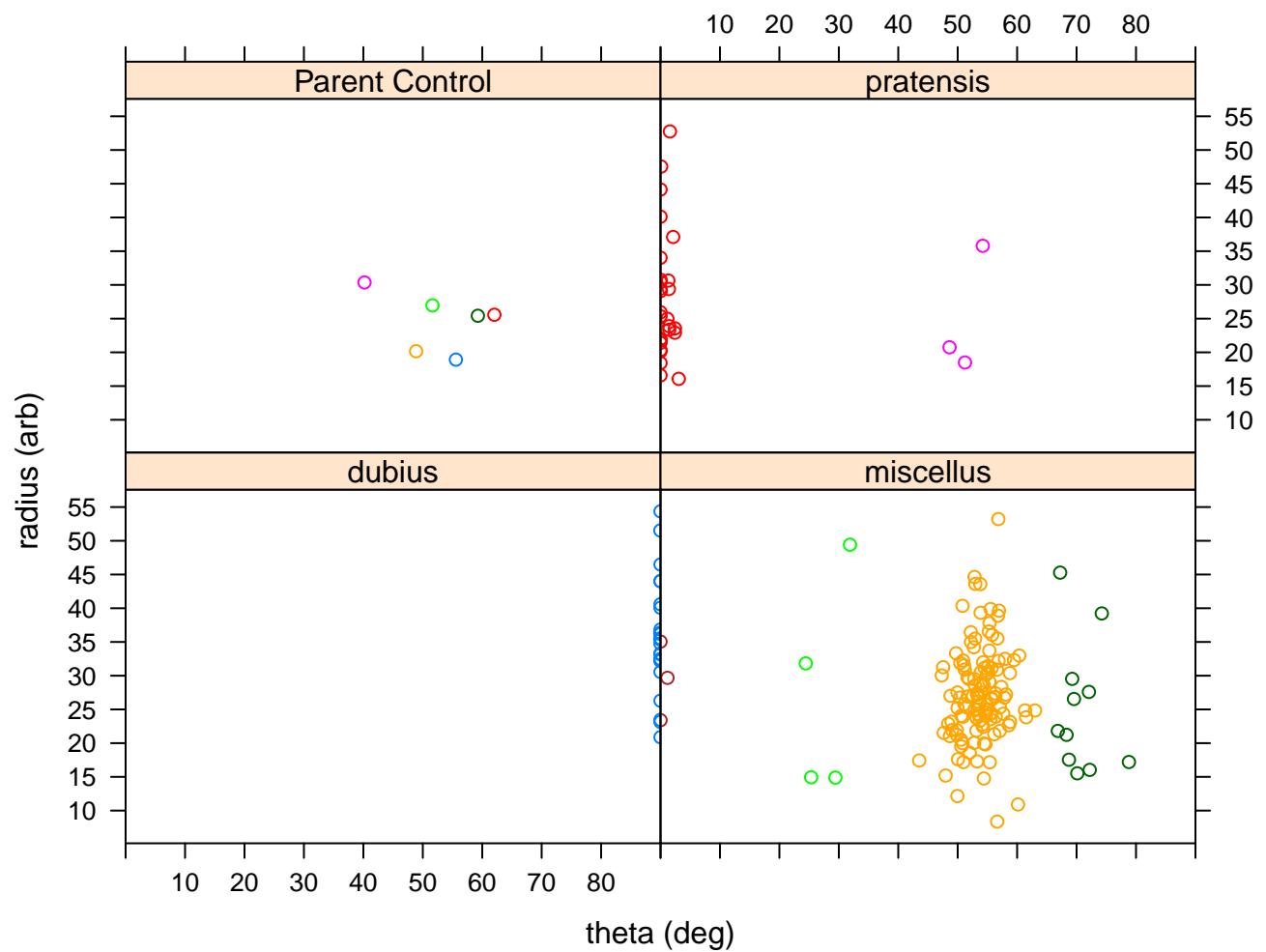
theta (deg)

radius (arb)

V_2_5_isotig07311_485 gDNA

Call

HH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		



V_2_5_isotig07311_485 cDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LL	○	PM3_2_1	○
LLHH	○	PM4	○
LLLL	○	PM5	○
No_Alleles	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

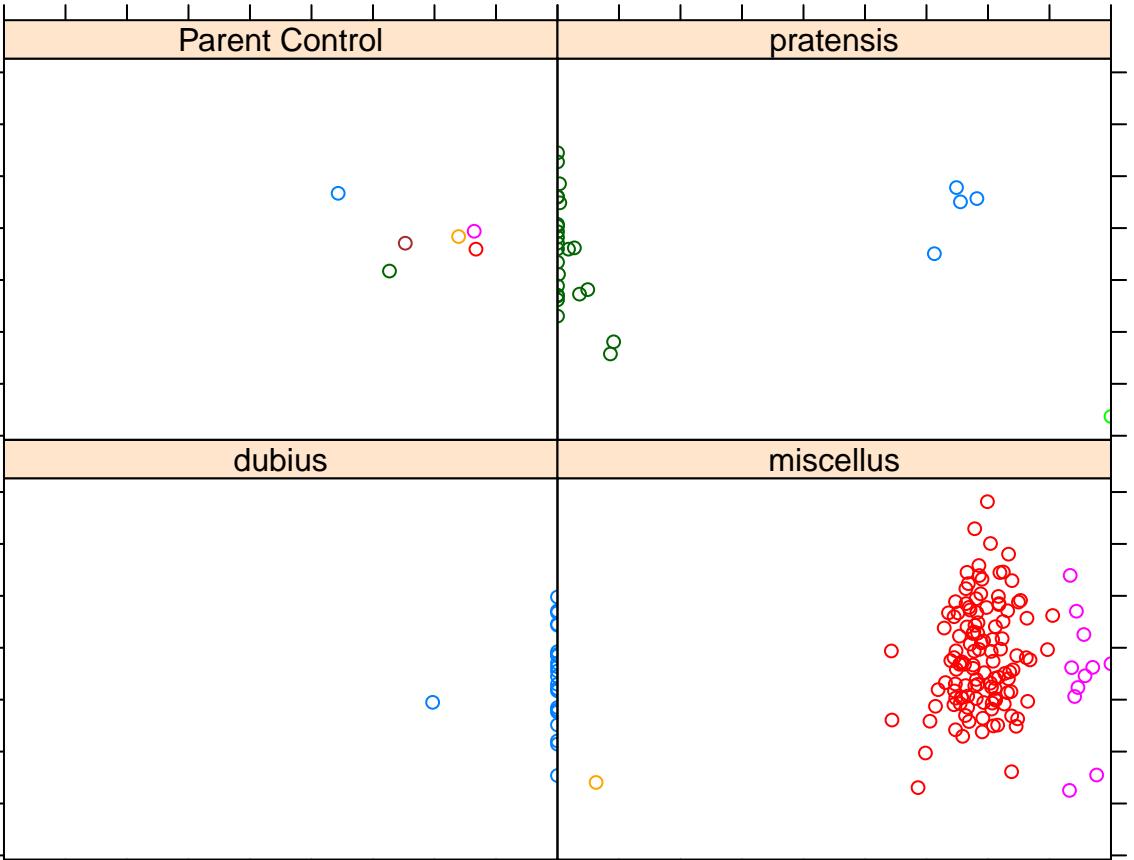
radius (arb)

dubius

miscellus

10 20 30 40 50 60 70 80

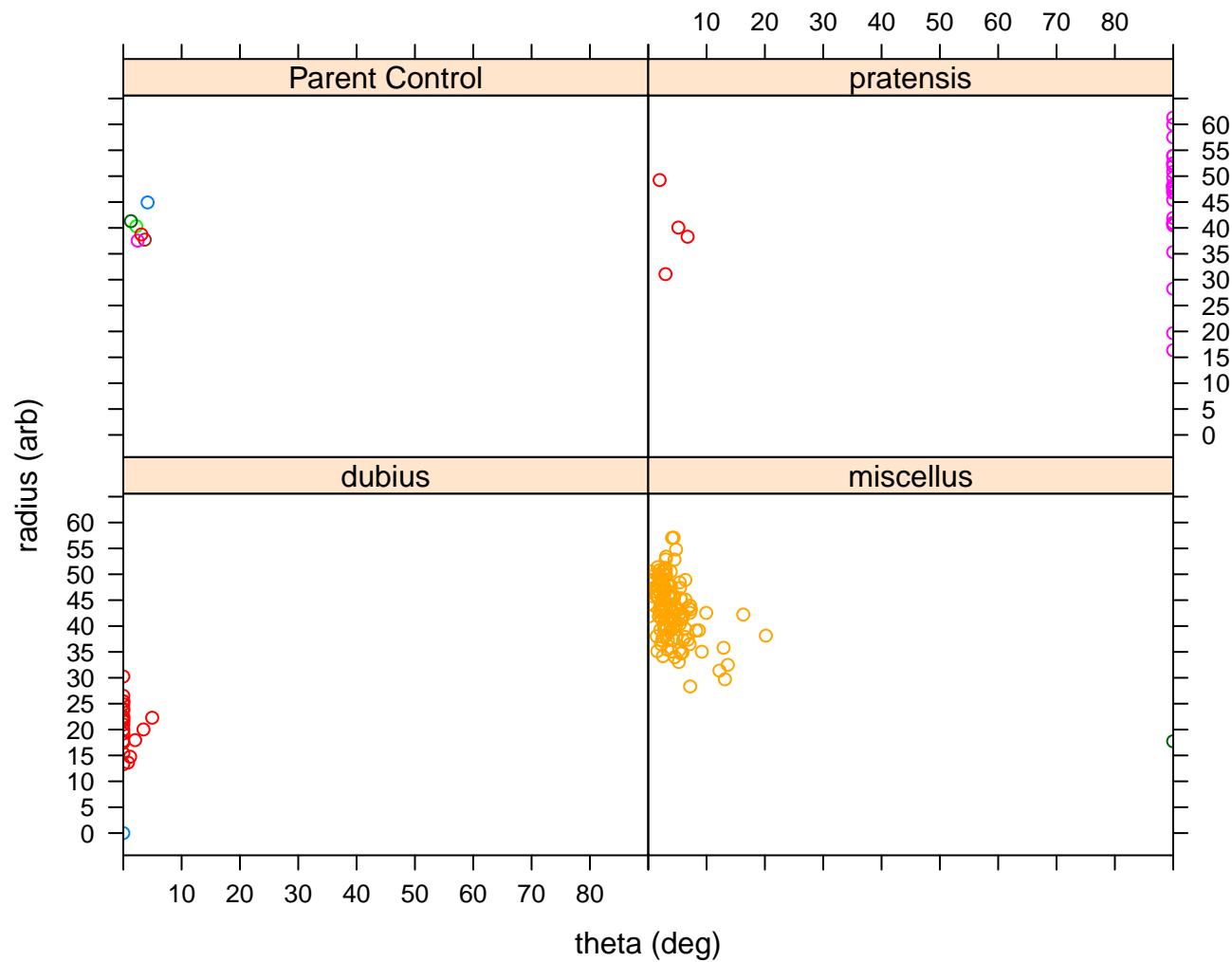
theta (deg)



V_2_5_isotig07311_509 cDNA

Call

Bad_Spectrum	○	PM3_1_2	○
HH	○	PM3_2_1	○
HHHH	○	PM4	○
LL	○	PM5	○
LLLL	○	PM6	○
PM3_1_1	○		



V_2_5_isotig07322_553 cDNA

Call

HH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLLL	○	PM5	○
PM3_1_1	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

100
90
80
70
60
50
40
30
20
10

radius (arb)

dubius

miscellus

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig07324_519 cDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

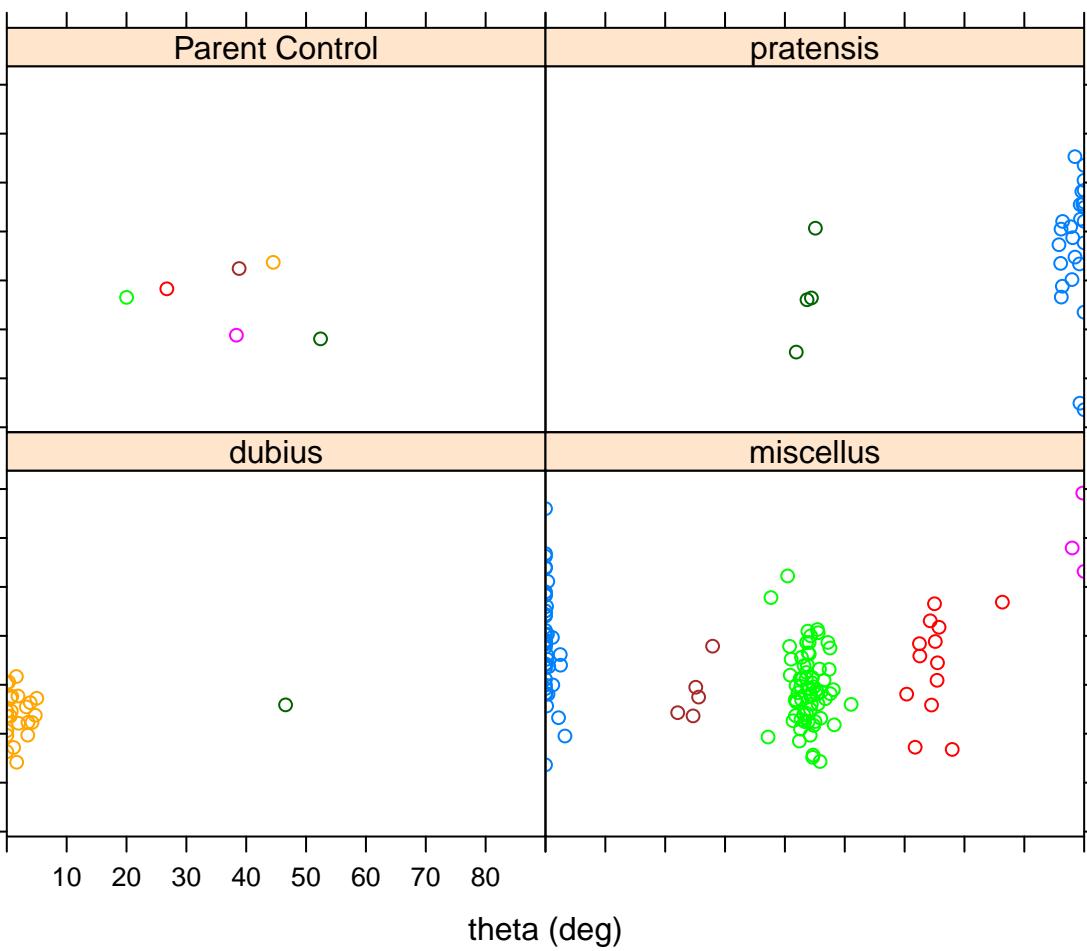
radius (arb)

Parent Control

pratensis

dubius

miscellus



V_2_5_isotig07331_532 gDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

radius (arb)

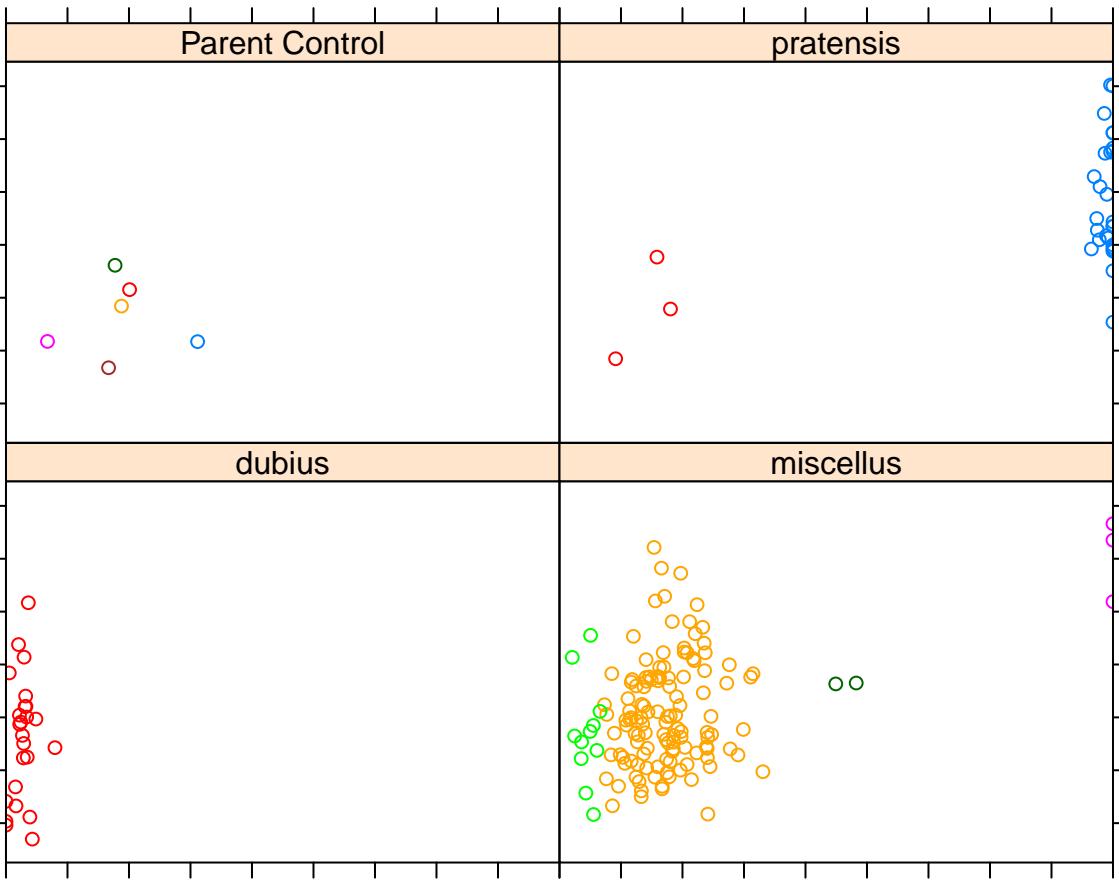
dubius

miscellus

70
60
50
40
30
20
10

10 20 30 40 50 60 70 80

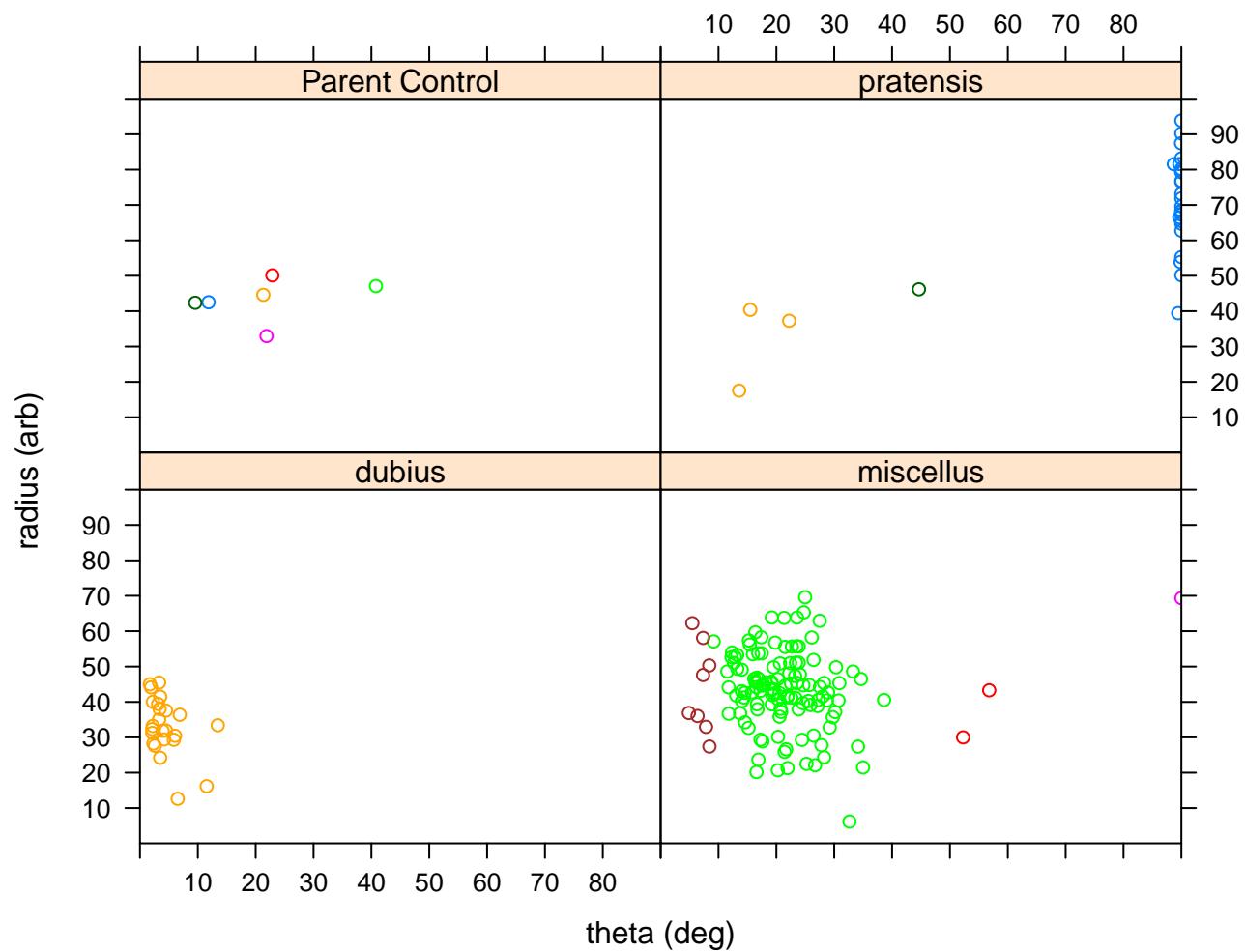
theta (deg)



V_2_5_isotig07331_532 cDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LHHH	○	PM4	○
LL	○	PM5	○
LLHH	○	PM6	○
LLLL	○		



V_2_5_isotig07349_106 gDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

55
50
45
40
35
30
25
20
15
10
5

dubius

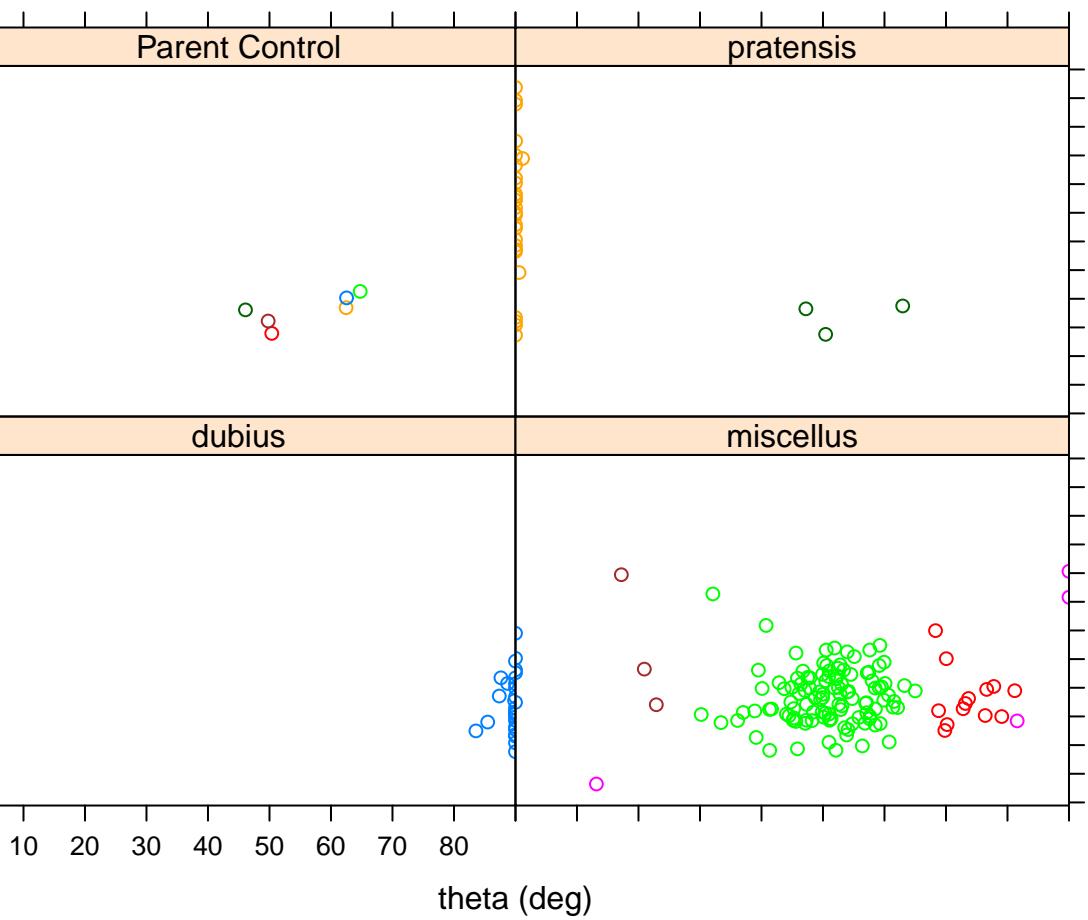
miscellus

radius (arb)

55
50
45
40
35
30
25
20
15
10
5

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig07349_106 cDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

65
60
55
50
45
40
35
30
25
20
15
10

dubius

miscellus

radius (arb)

65
60
55
50
45
40
35
30
25
20
15
10

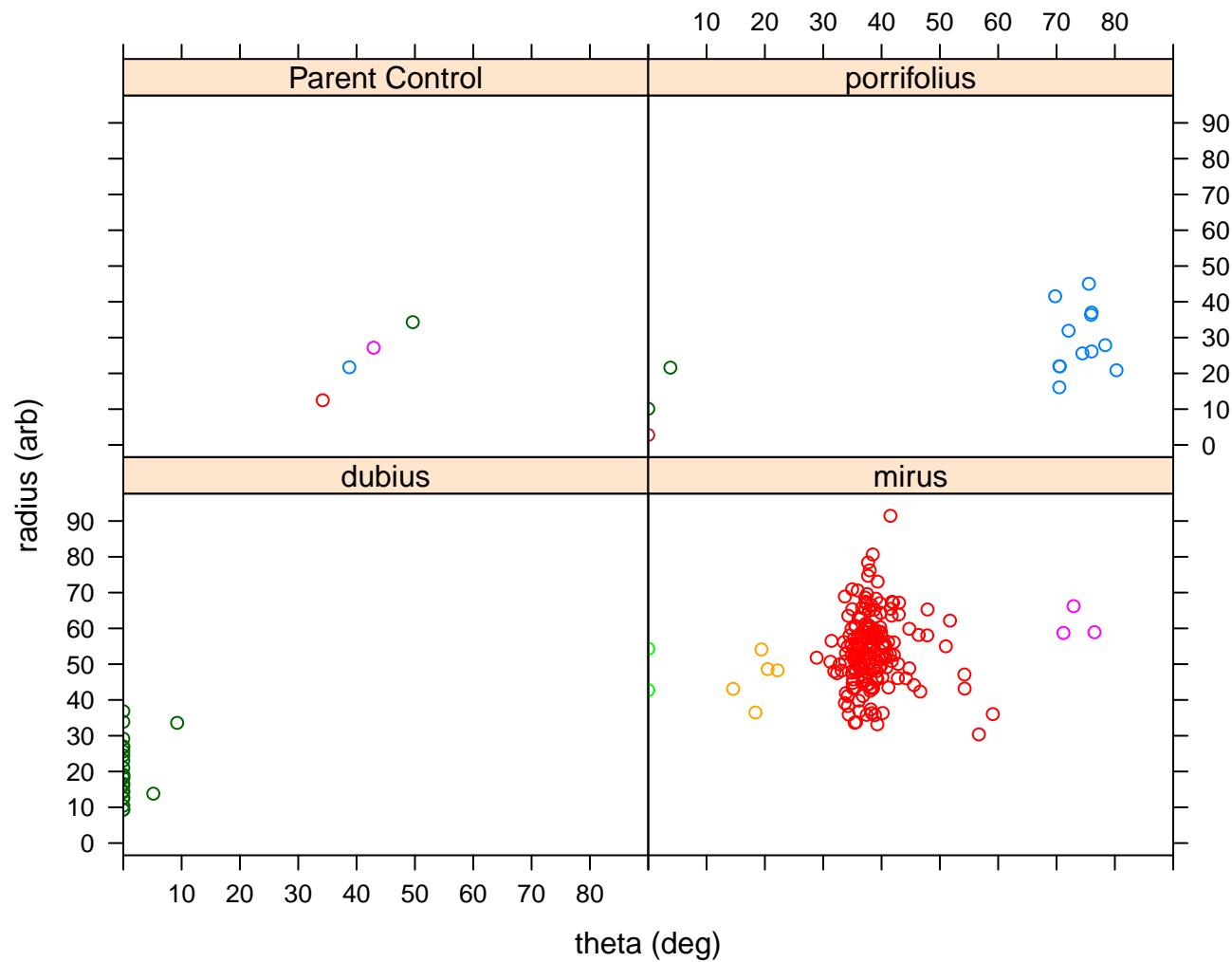
10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig07353_57 cDNA

Call

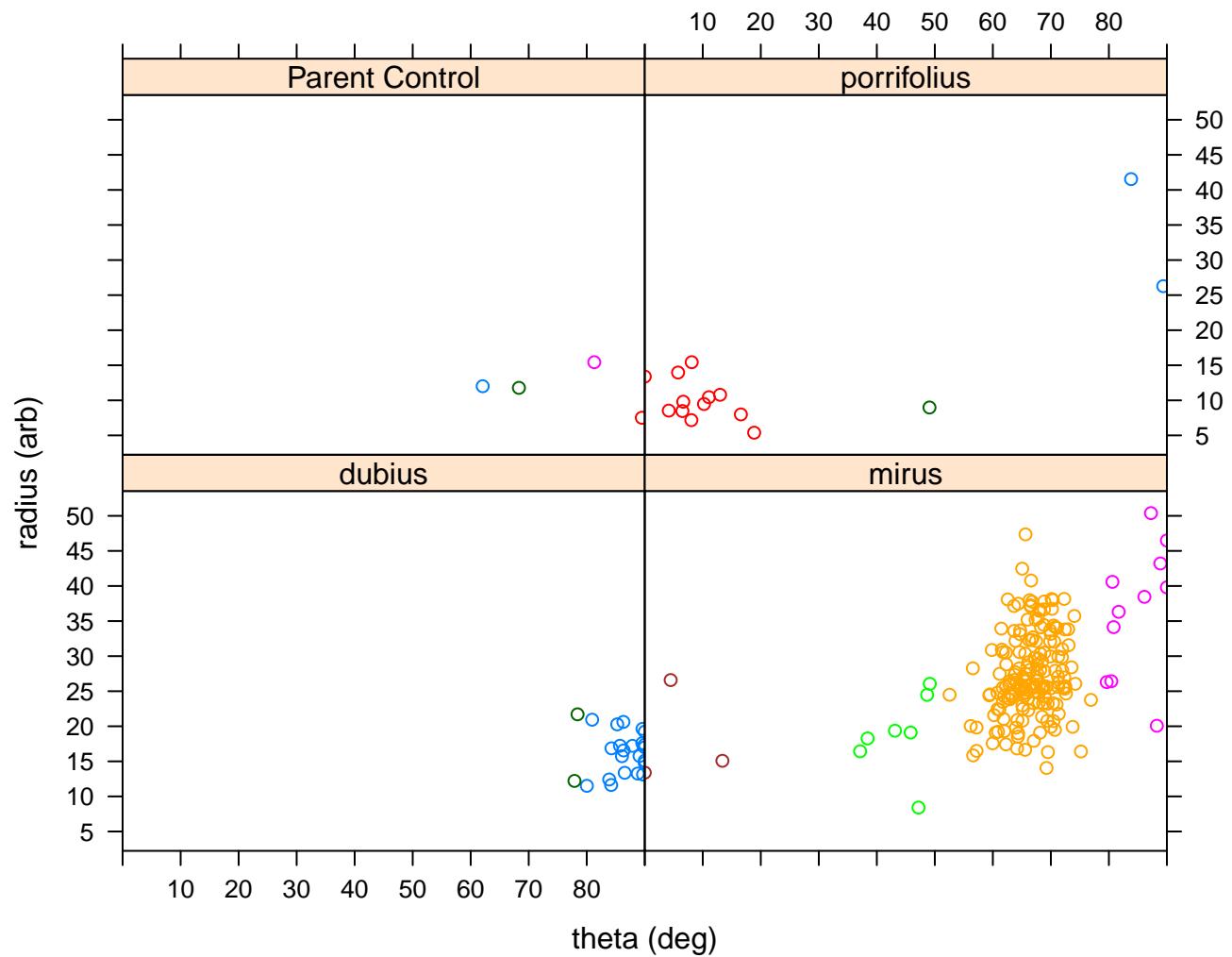
HH	○	No_Aleles	○
HHHH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○
LLLL	○		



V_2_5_isotig07353_583 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig07353_583 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LHHH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

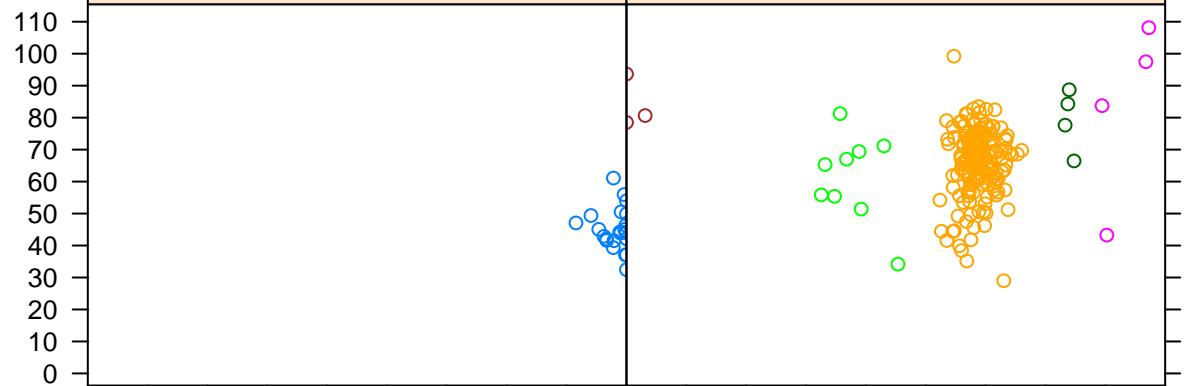
Parent Control

porrifolius

110
100
90
80
70
60
50
40
30
20
10
0

dubius

mirus



theta (deg)

V_2_5_isotig07370_850 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LHHH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

radius (arb)

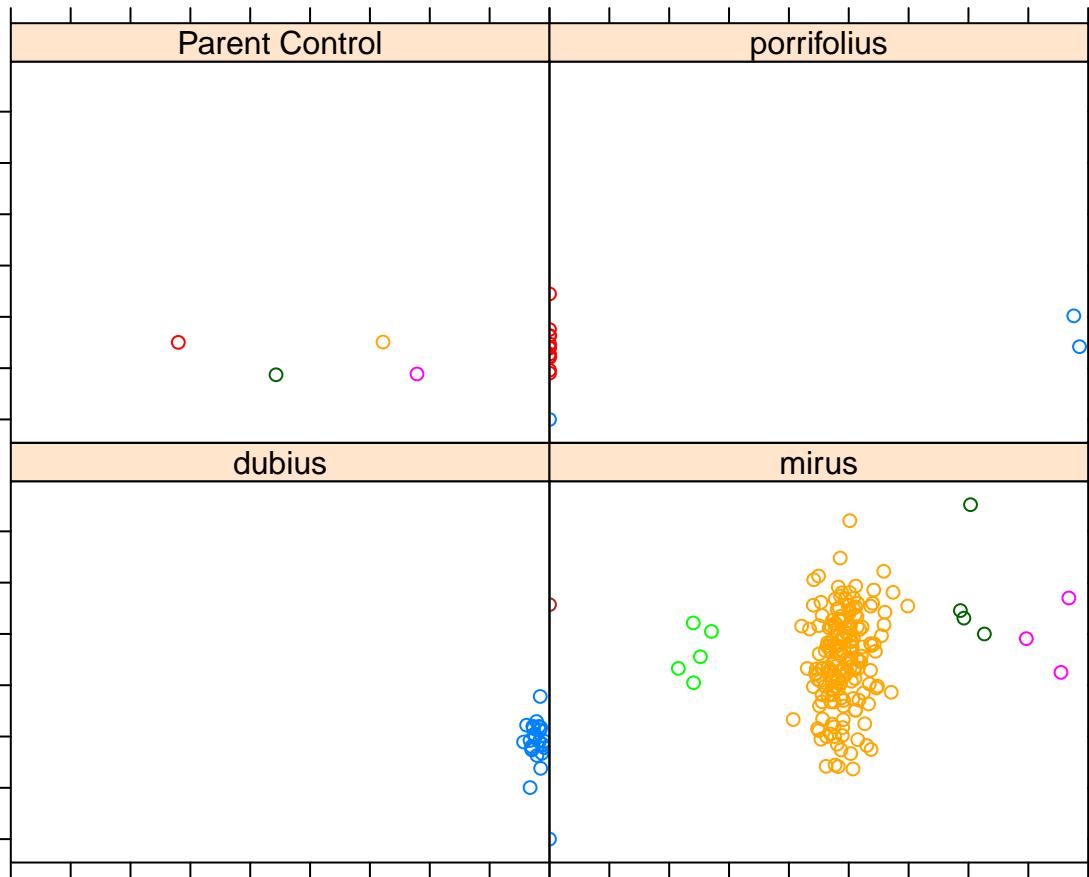
120
100
80
60
40
20
0

dubius

mirus

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig07410_278 gDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

35
30
25
20
15
10
5
0

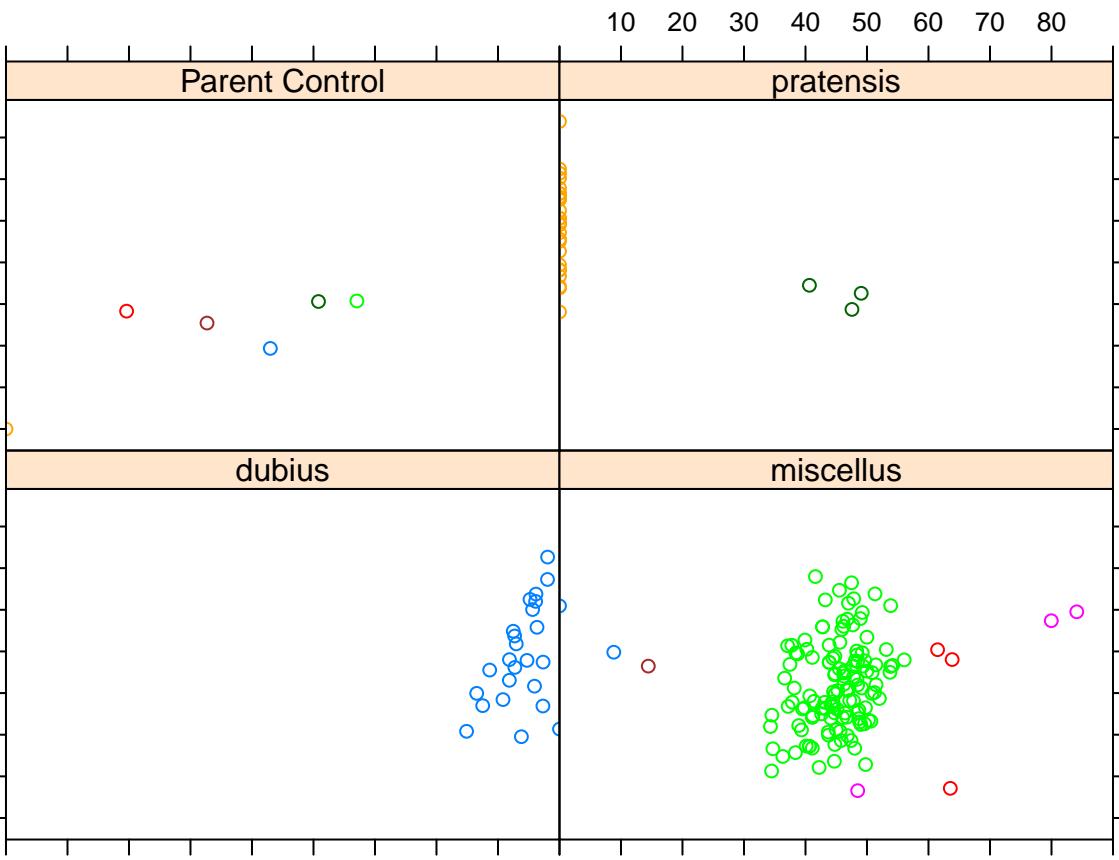
dubius

miscellus

radius (arb)

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig07410_278 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

90
80
70
60
50
40
30
20
10
0

dubius

miscellus

radius (arb)

90
80
70
60
50
40
30
20
10
0

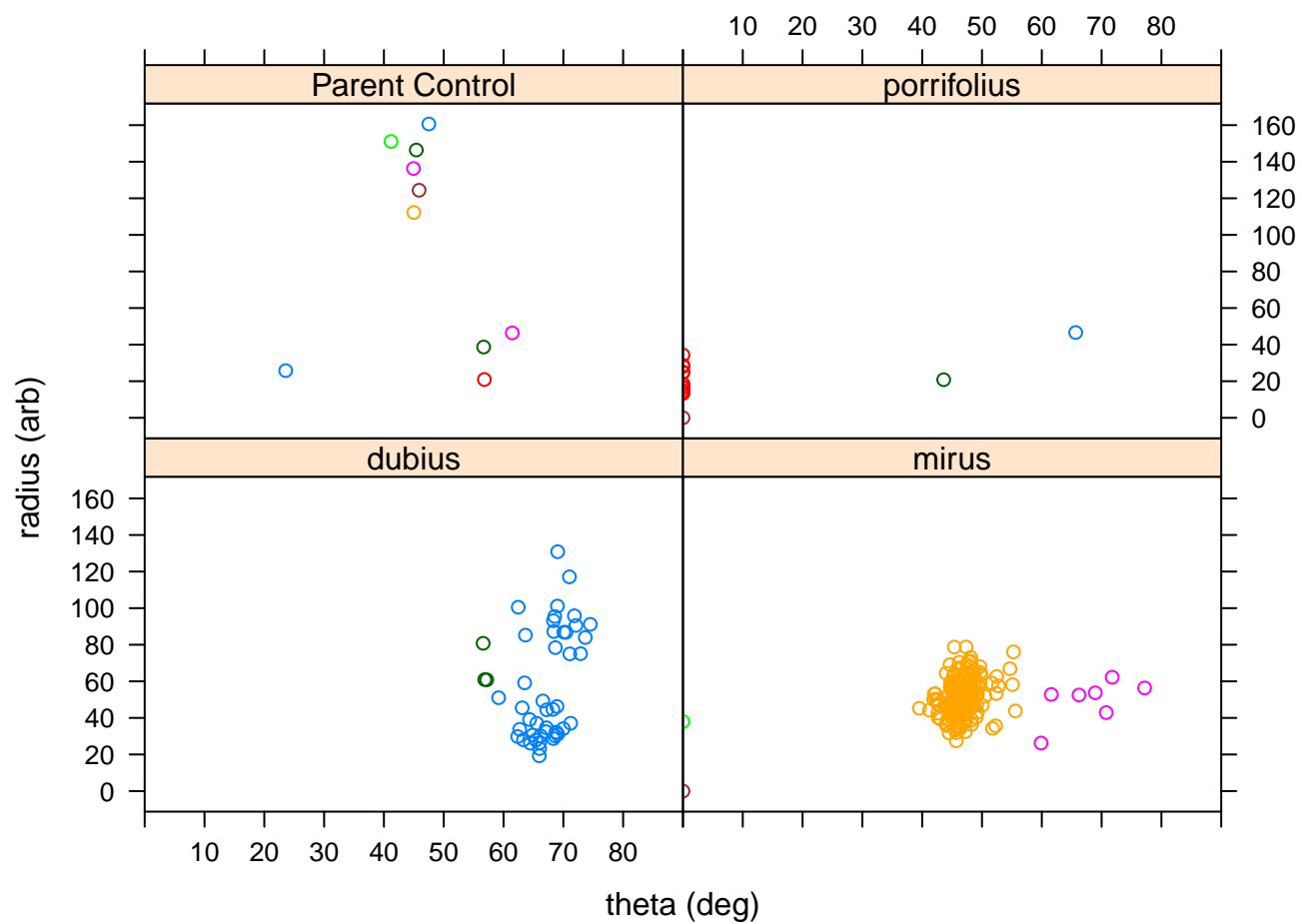
10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig07410_98 gDNA

Call

HH	○	PM2_1_2	○
HHHH	○	PM2_2_1	○
LH	○	PM3_1_1	○
LL	○	PM3_1_2	○
LLHH	○	PM3_2_1	○
LLLL	○	PM4	○
No_Alleles	○	PM5	○
PM1	○	PM6	○
PM2_1_1	○		



V_2_5_isotig07410_98 gDNA

Call

HH	○	PM2_1_2	○
LH	○	PM2_2_1	○
LL	○	PM3_1_1	○
LLHH	○	PM3_1_2	○
LLLH	○	PM3_2_1	○
LLLL	○	PM4	○
PM1	○	PM5	○
PM2_1_1	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

240
220
200
180
160
140
120
100
80
60
40
20

dubius

miscellus

radius (arb)

240
220
200
180
160
140
120
100
80
60
40
20

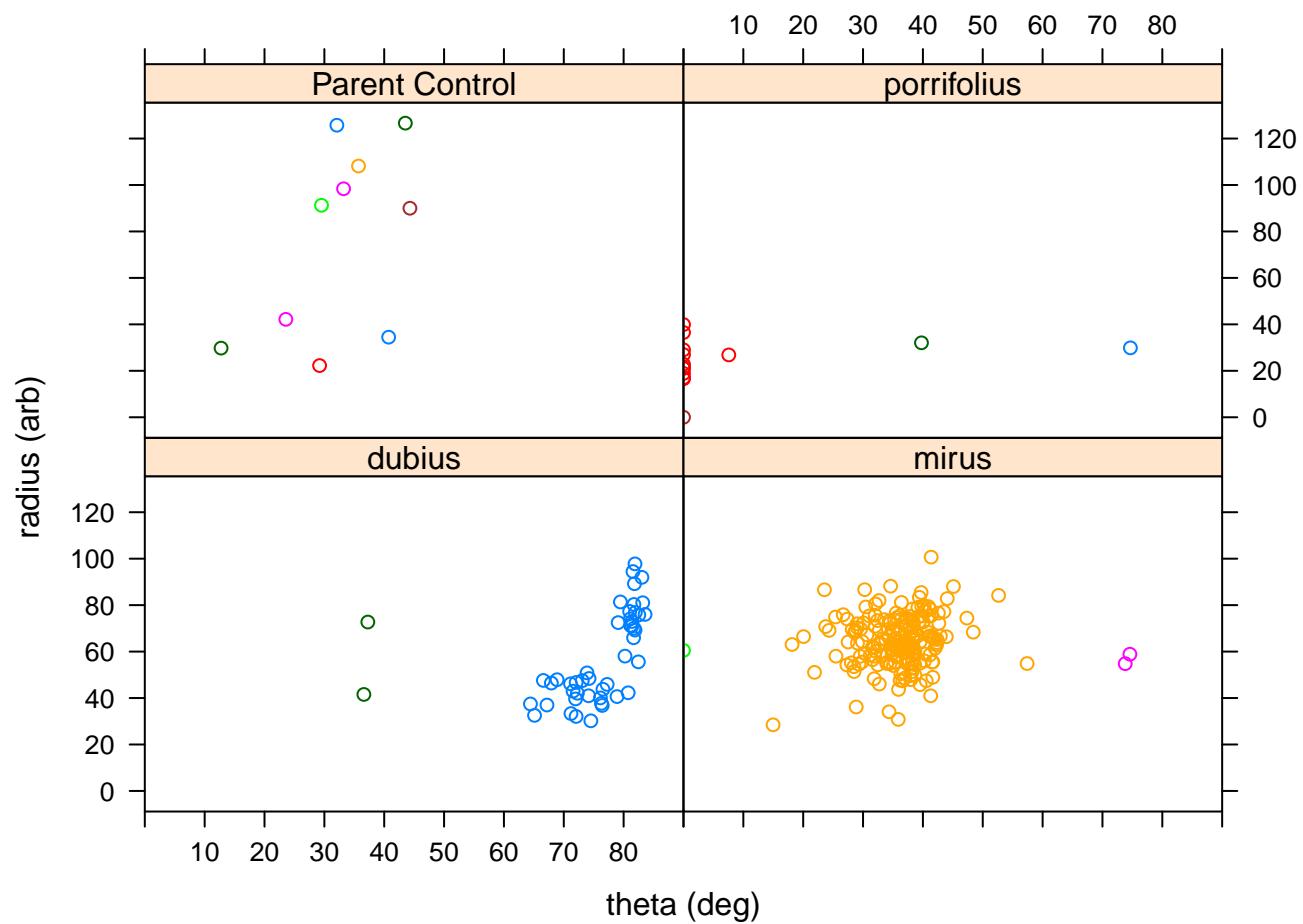
10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig07410_98 cDNA

Call

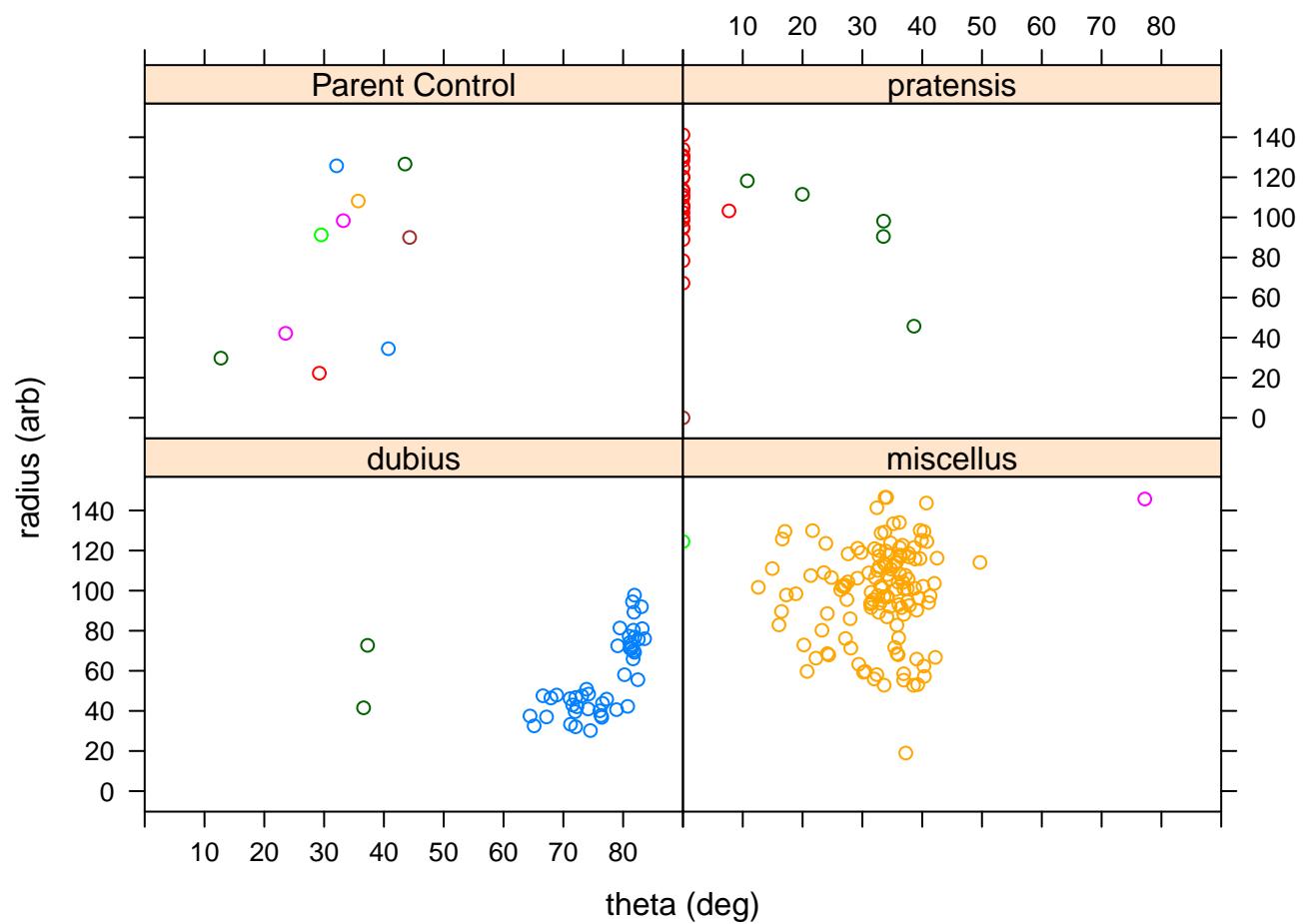
HH	○	PM2_1_2	○
HHHH	○	PM2_2_1	○
LH	○	PM3_1_1	○
LL	○	PM3_1_2	○
LLHH	○	PM3_2_1	○
LLLL	○	PM4	○
No_Alleles	○	PM5	○
PM1	○	PM6	○
PM2_1_1	○		



V_2_5_isotig07410_98 cDNA

Call

HH	○	PM2_1_2	○
HHHH	○	PM2_2_1	○
LH	○	PM3_1_1	○
LL	○	PM3_1_2	○
LLHH	○	PM3_2_1	○
LLLL	○	PM4	○
No_Alleles	○	PM5	○
PM1	○	PM6	○
PM2_1_1	○		



V_2_5_isotig07425_420 cDNA

Call

Bad_Spectrum	○	LLLL	○
HH	○	No_Alleles	○
HHHH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		

10 20 30 40 50 60 70 80

Parent Control

porrifolius

90
80
70
60
50
40
30
20
10
0

dubius

mirus

90
80
70
60
50
40
30
20
10
0

radius (arb)

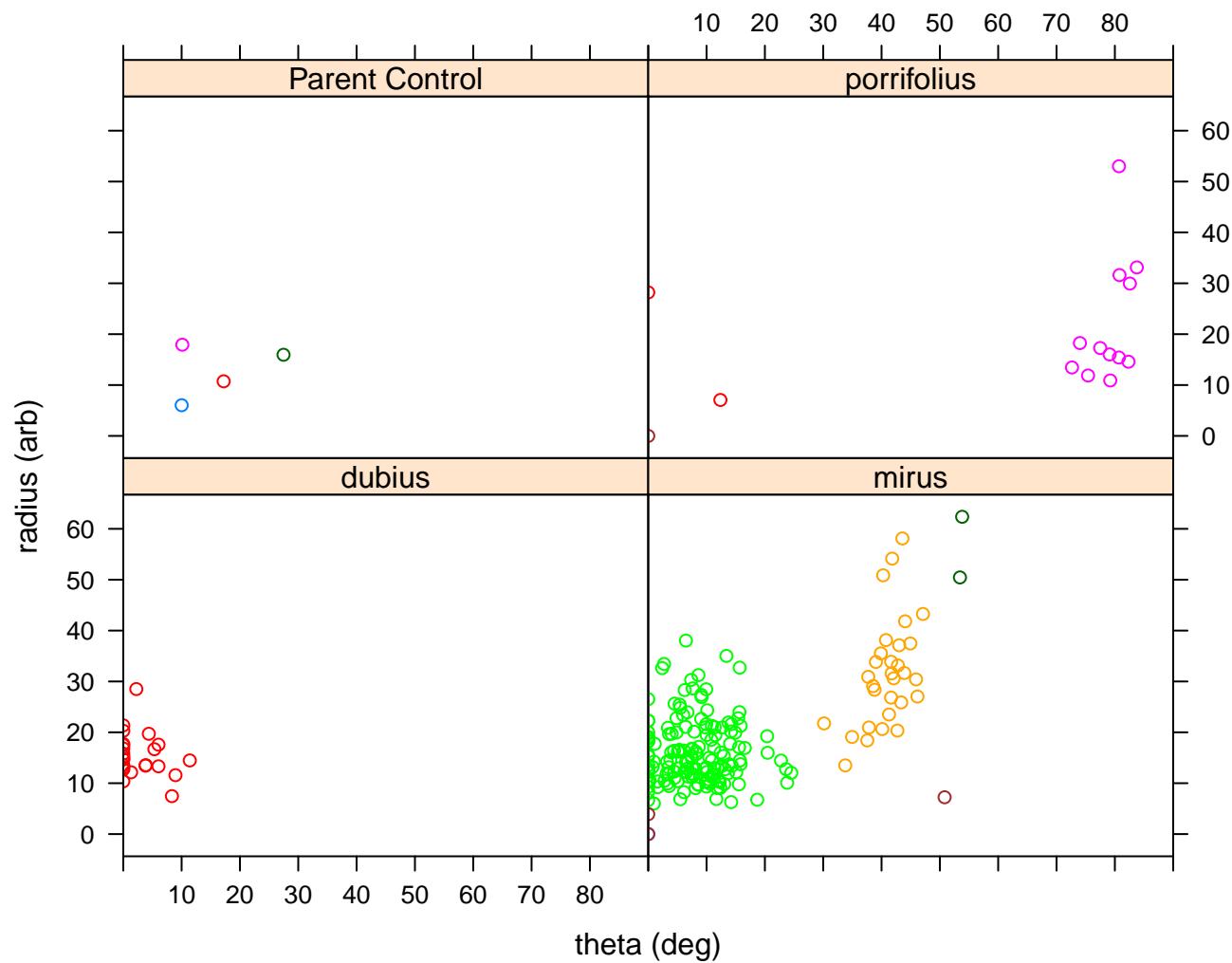
10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig07431_478 gDNA

Call

Bad_Spectrum	○	No_Alleles	○
HH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLL	○		



V_2_5_isotig07431_478 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

porrifolius

120
110
100
90
80
70
60
50
40
30
20
10
0

radius (arb)

dubius

mirus

120
110
100
90
80
70
60
50
40
30
20
10
0

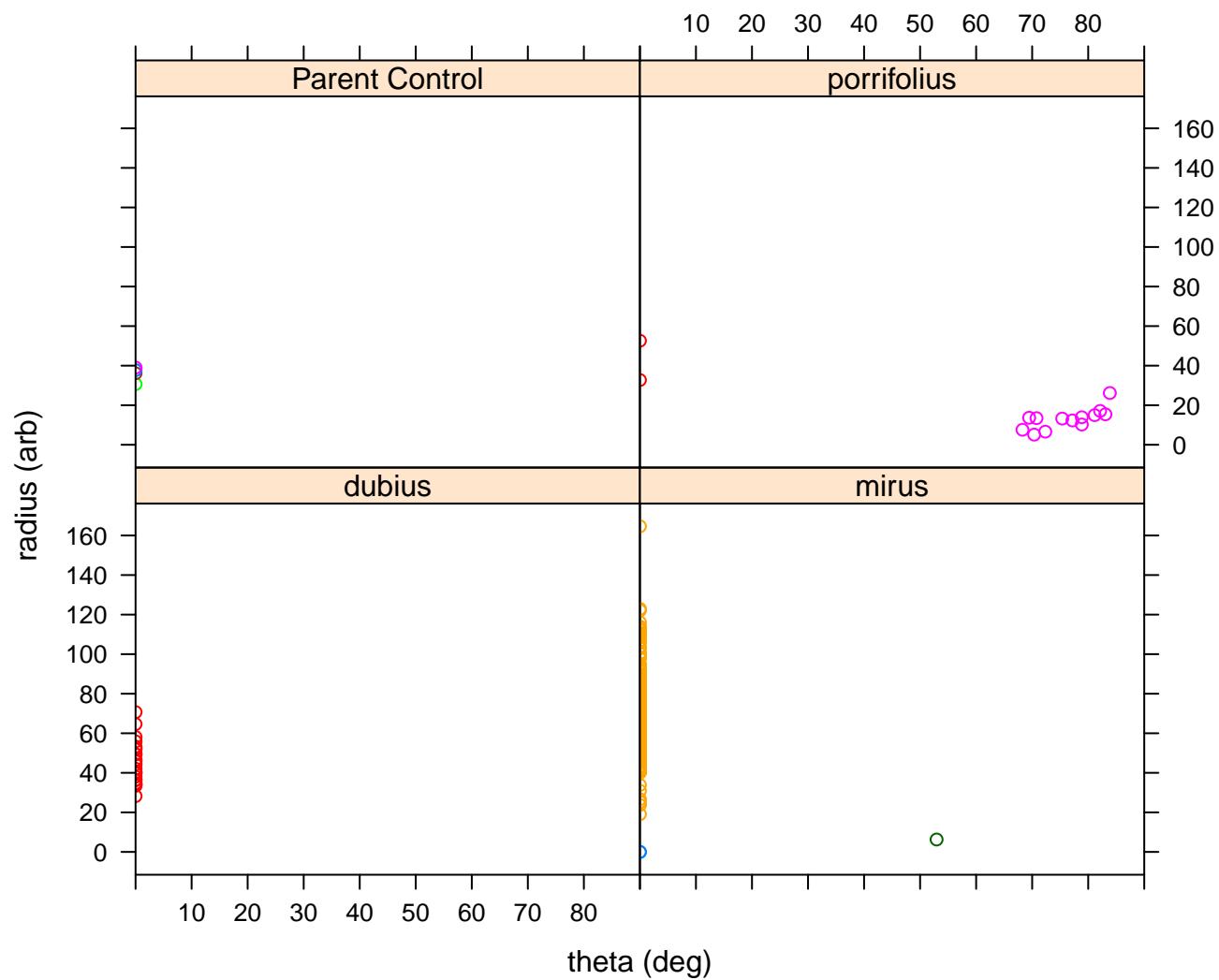
10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig07487_136 cDNA

Call

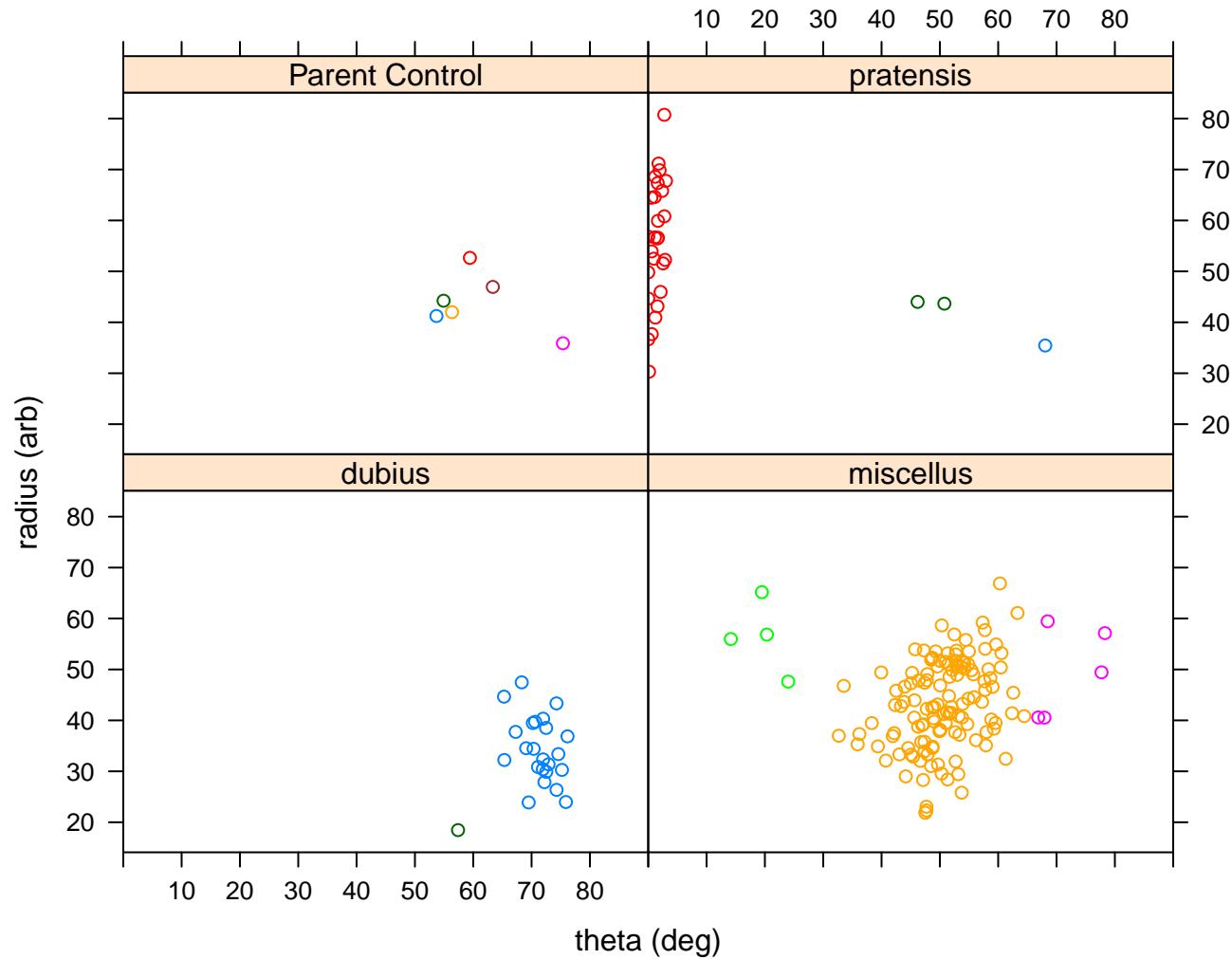
Bad_Spectrum	○	PM1	○
HH	○	PM2_1_1	○
LHHH	○	PM2_1_2	○
LL	○	PM2_2_1	○
LLLL	○		



V_2_5_isotig07487_265 gDNA

Call

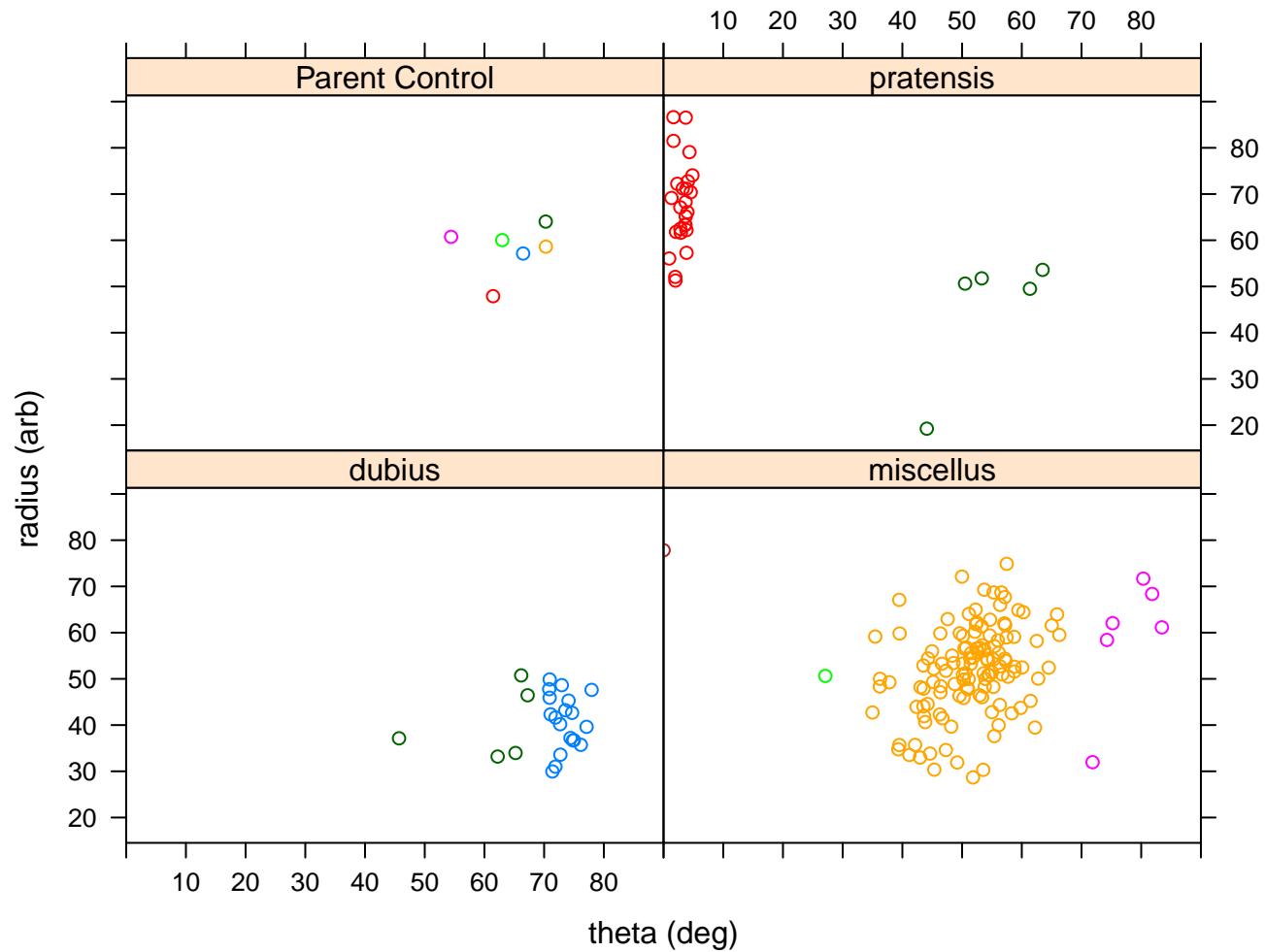
HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○



V_2_5_isotig07487_265 cDNA

Call

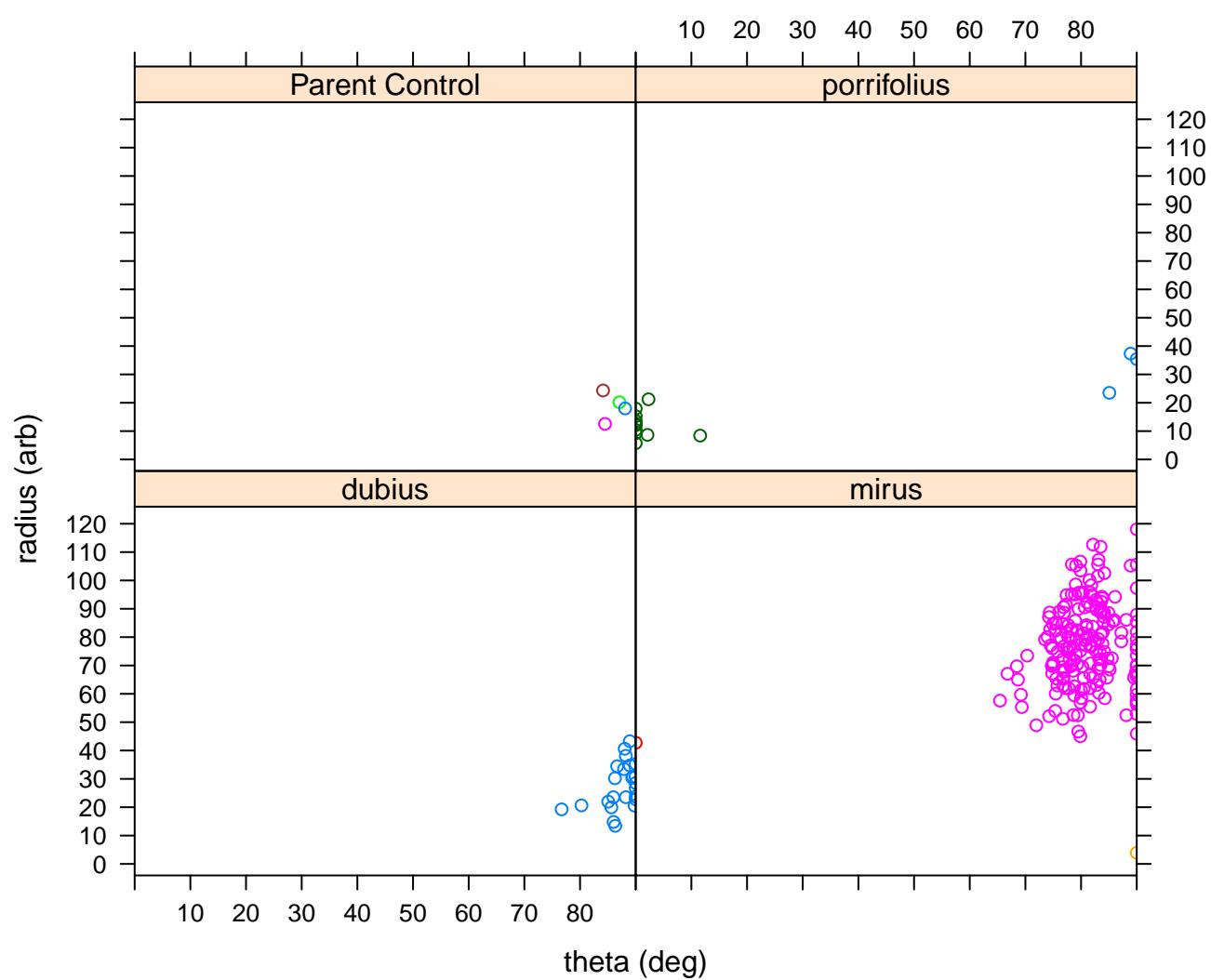
HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		



V_2_5_isotig07487_61 gDNA

Call

HH	○	PM1	○
HHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLLL	○	PM2_2_1	○
No_Alleles	○		



V_2_5_isotig07487_61 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLL	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

140
120
100
80
60
40
20
0

dubius

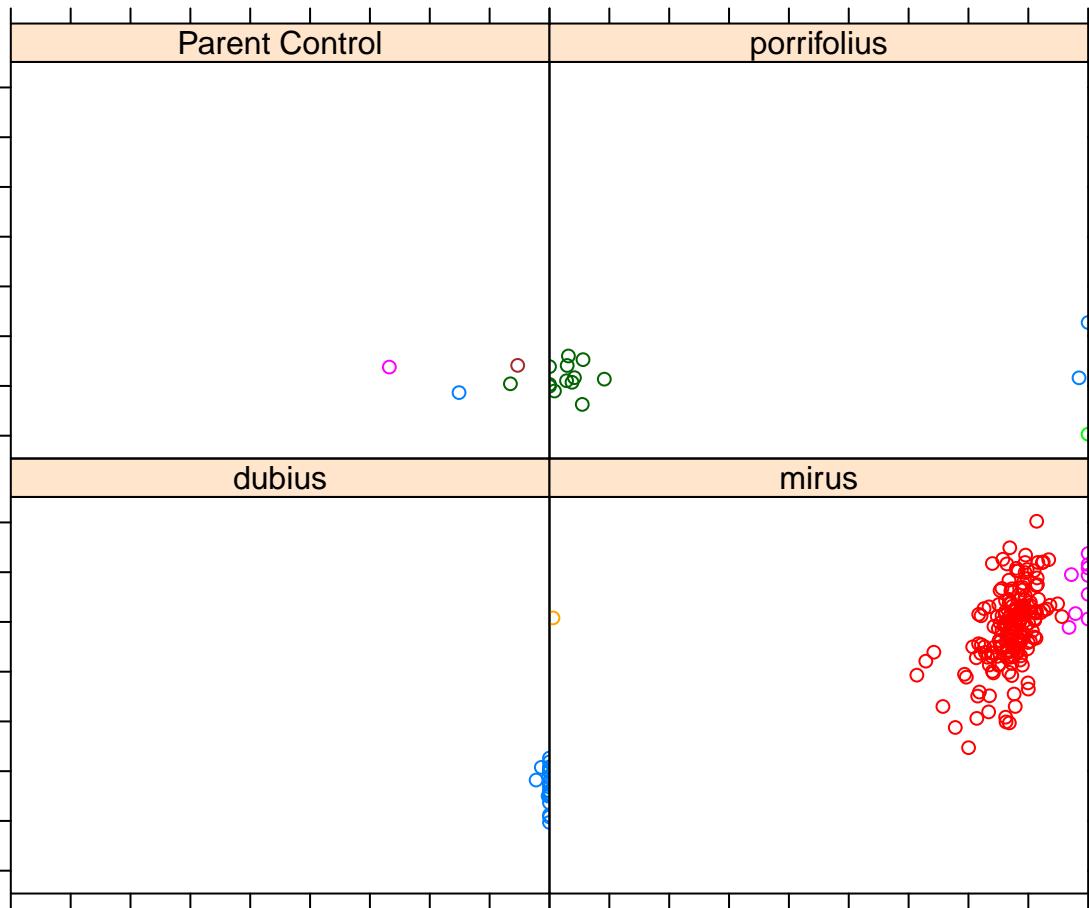
mirus

radius (arb)

140
120
100
80
60
40
20
0

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig07487_627 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

porrifolius

55
50
45
40
35
30
25
20
15
10
5
0

dubius

mirus

55
50
45
40
35
30
25
20
15
10
5
0

10 20 30 40 50 60 70 80

theta (deg)

radius (arb)

V_2_5_isotig07487_63 cDNA

Call

HH	○	PM1	○
HHHH	○	PM2_1_1	○
LHHH	○	PM2_1_2	○
LL	○	PM2_2_1	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

porrifolius

120
110
100
90
80
70
60
50
40
30
20
10

dubius

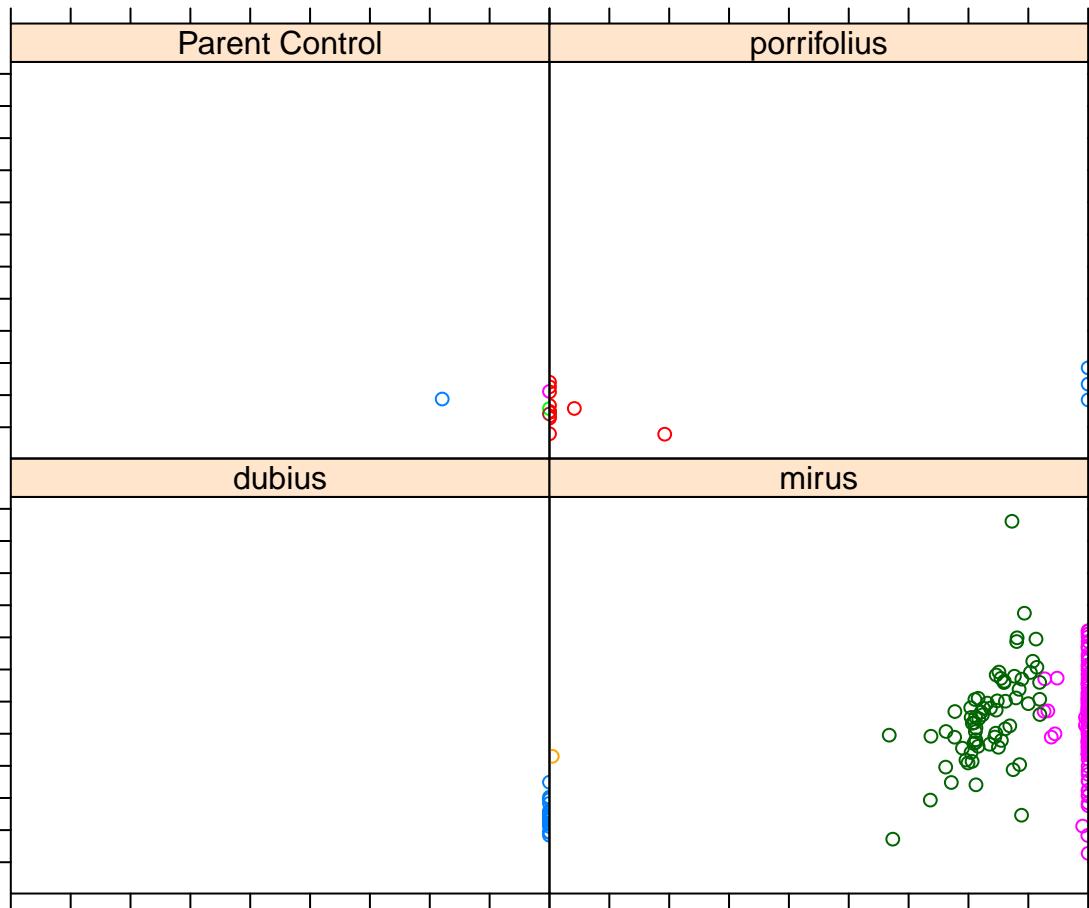
mirus

120
110
100
90
80
70
60
50
40
30
20
10

radius (arb)

10 20 30 40 50 60 70 80

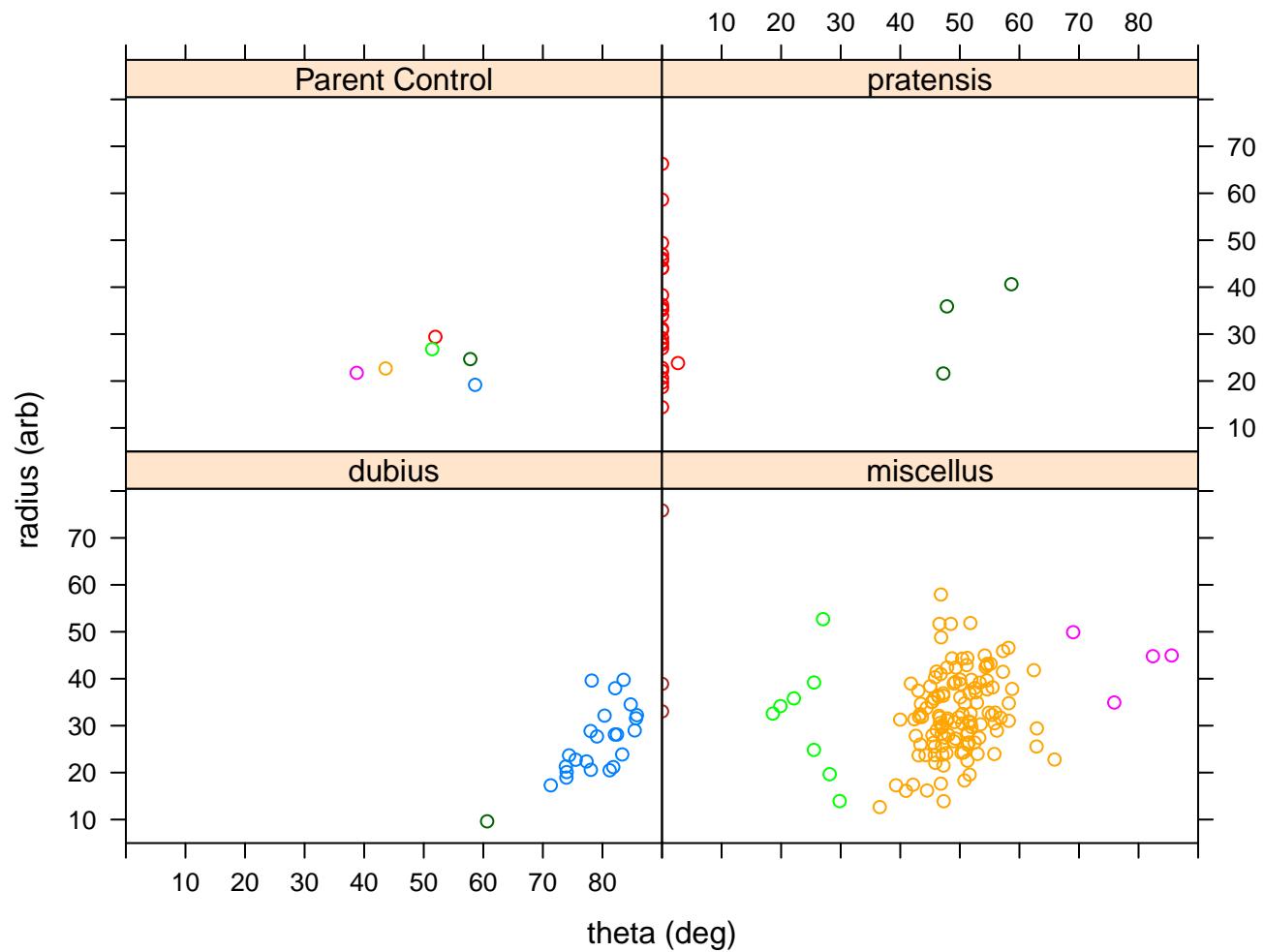
theta (deg)



V_2_5_isotig07487_969 gDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		



V_2_5_isotig07487_969 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

90
80
70
60
50
40
30
20
10
0

dubius

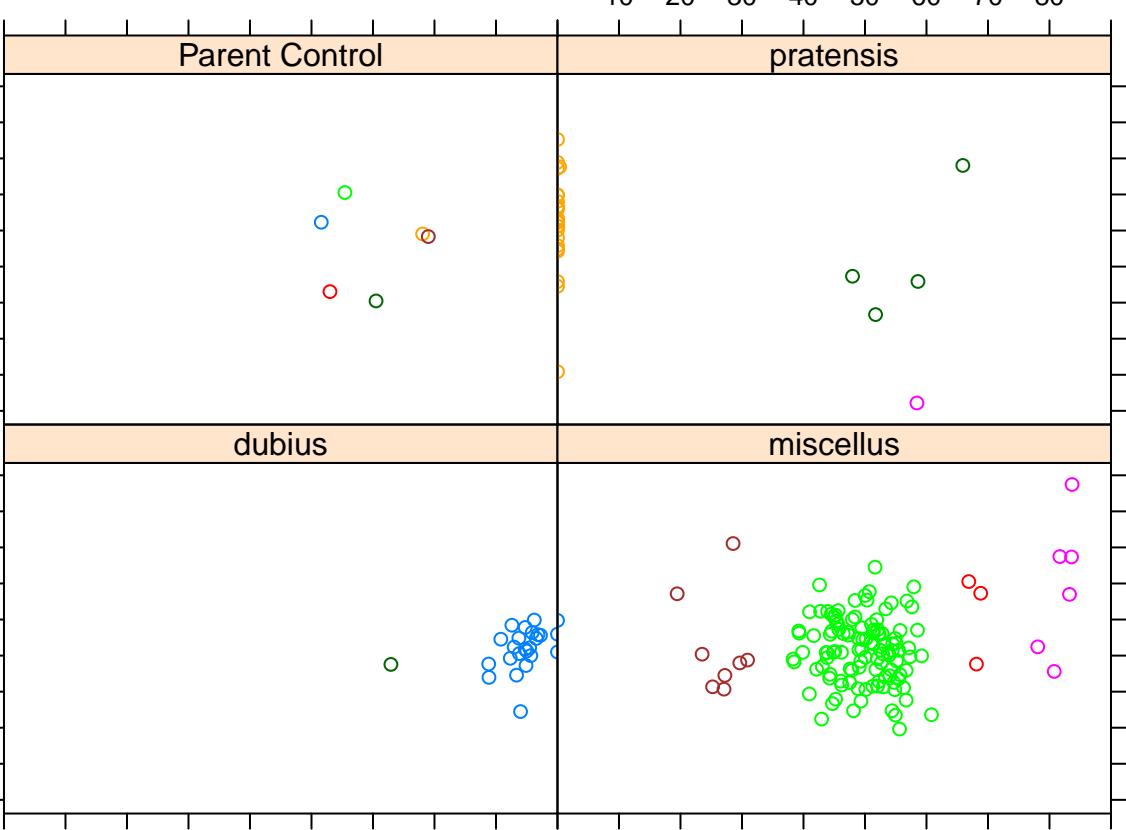
miscellus

radius (arb)

90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig07502_606 gDNA

Call

HH	○	PM3_1_2	○
HHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○
PM3_1_1	○		

10 20 30 40 50 60 70 80

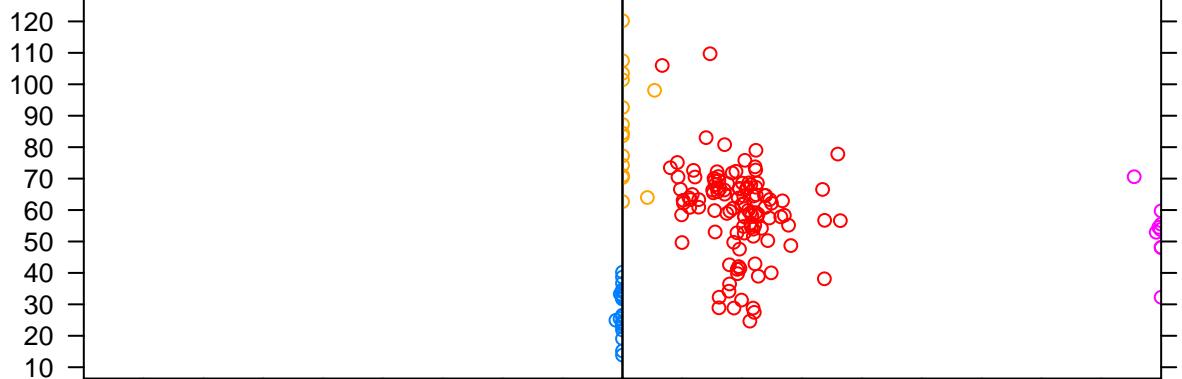
Parent Control

pratensis

120
110
100
90
80
70
60
50
40
30
20
10

dubius

miscellus



theta (deg)

V_2_5_isotig07502_606 cDNA

Call

Bad_Spectrum
HH
HHHH
LH
LHHH
LL
LLHH
LLLH

LLLL
PM3_1_1
PM3_1_2
PM3_2_1
PM4
PM5
PM6

purple

green

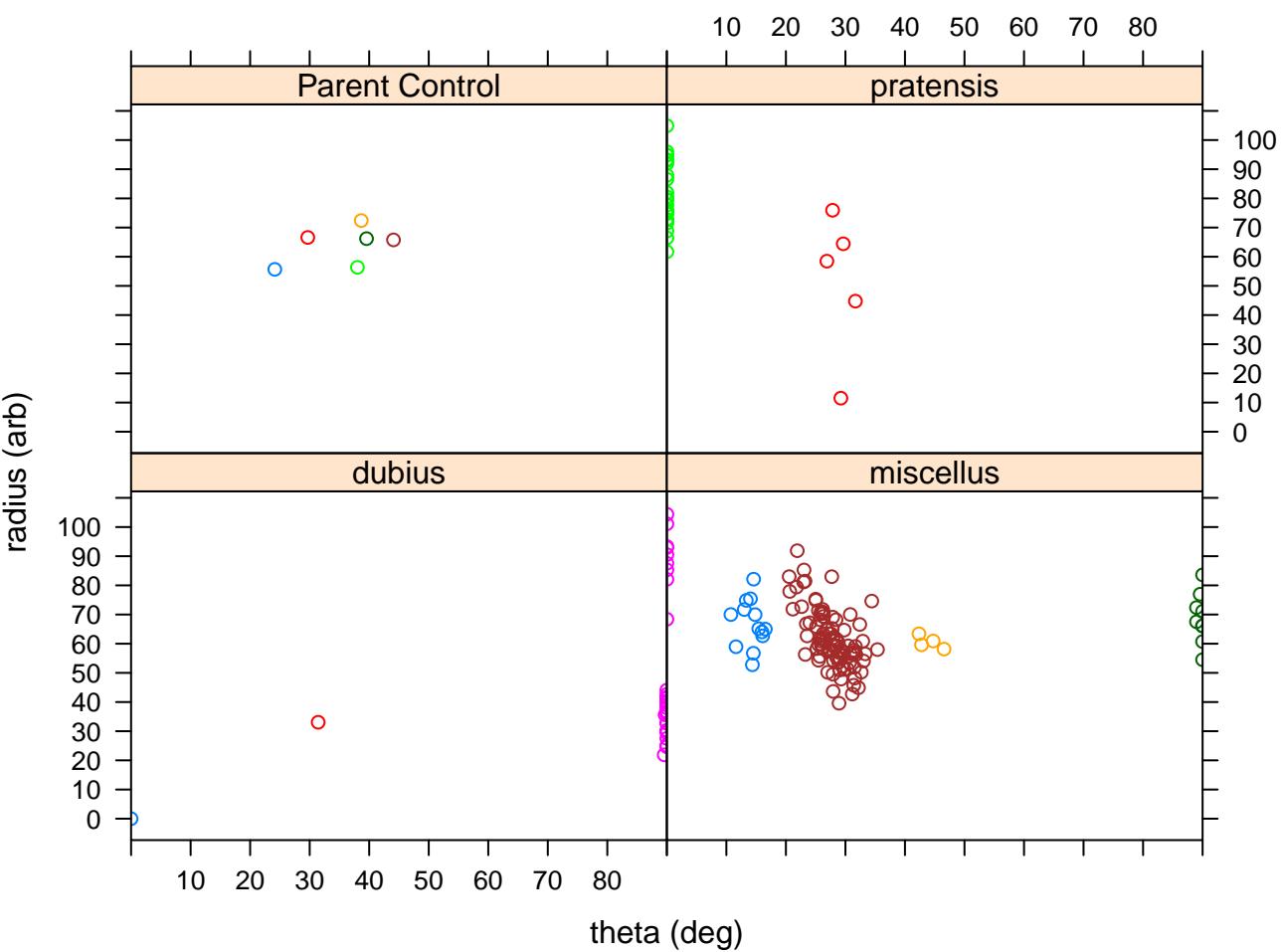
red

yellow

green

red

blue



V_2_5_isotig07502_689 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LL	○	PM3_2_1	○
LLHH	○	PM4	○
LLLH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

55
50
45
40
35
30
25
20
15
10
5
0

dubius

miscellus

radius (arb)

55
50
45
40
35
30
25
20
15
10
5
0

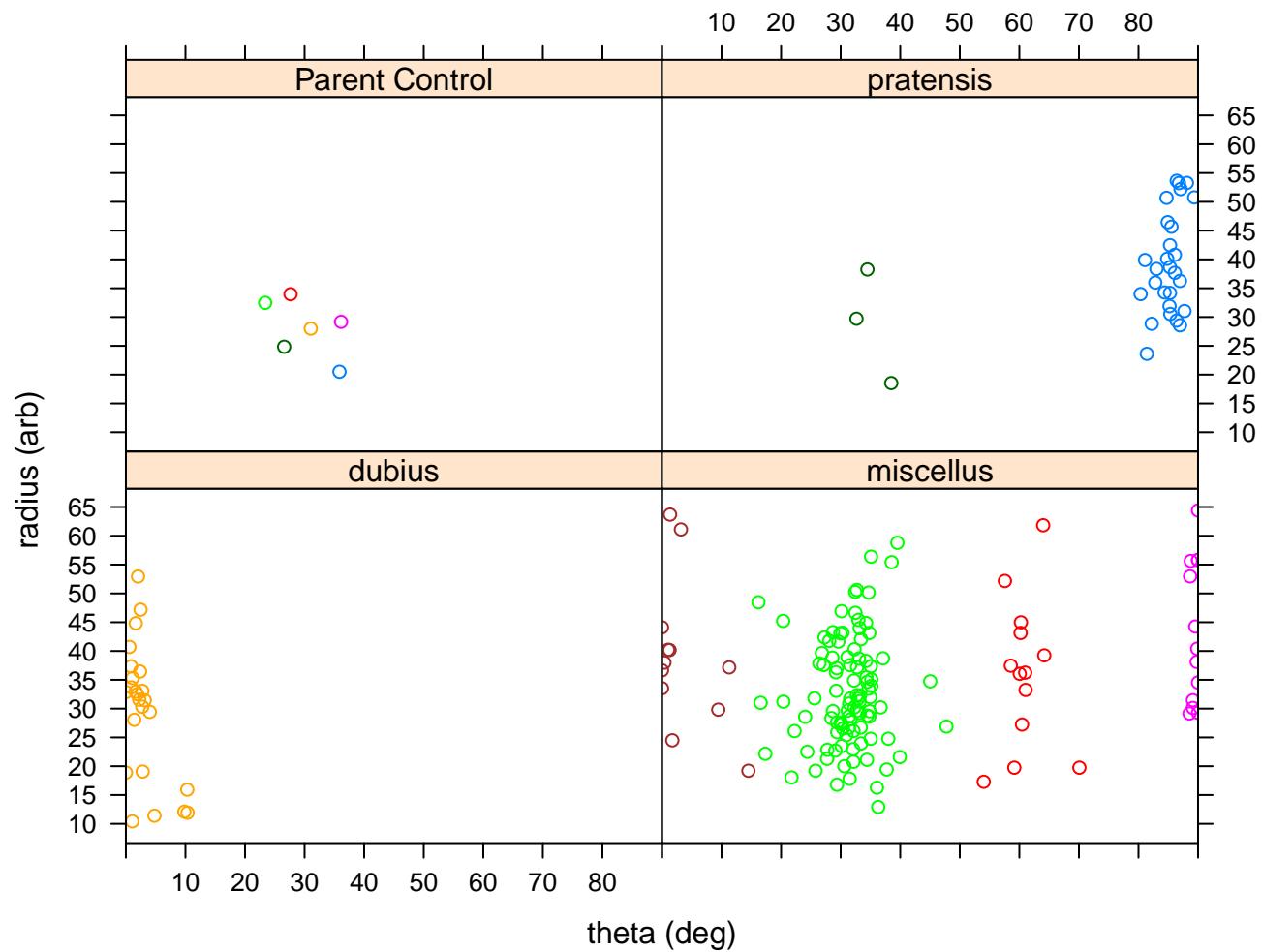
10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig07502_866 gDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LHHH	○	PM4	○
LL	○	PM5	○
LLHH	○	PM6	○
LLLL	○		



V_2_5_isotig07502_866 cDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

radius (arb)

dubius

miscellus

10 20 30 40 50 60 70 80

theta (deg)

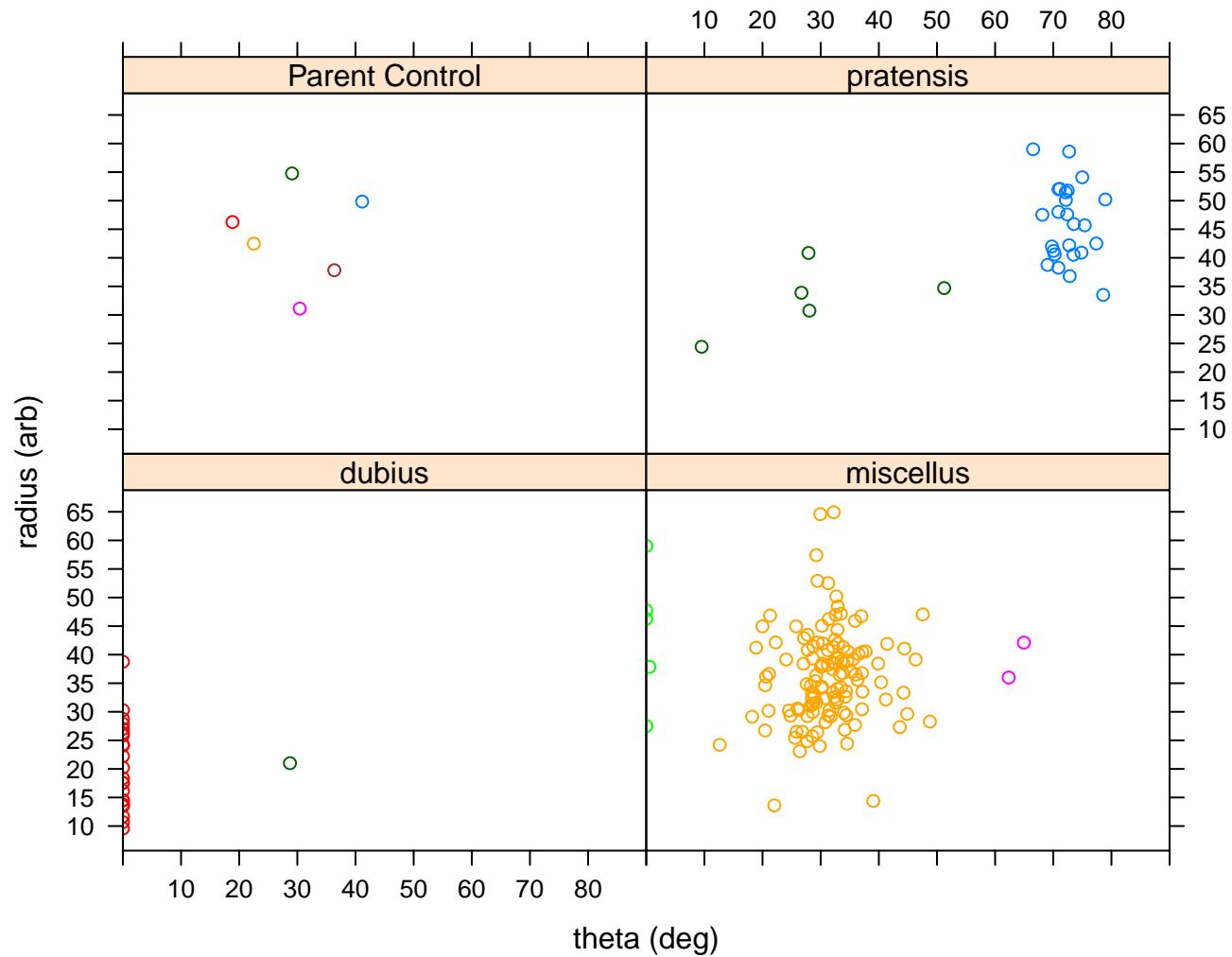
80
70
60
50
40
30
20
10

80
70
60
50
40
30
20
10

V_2_5_isotig07541_156 cDNA

Call

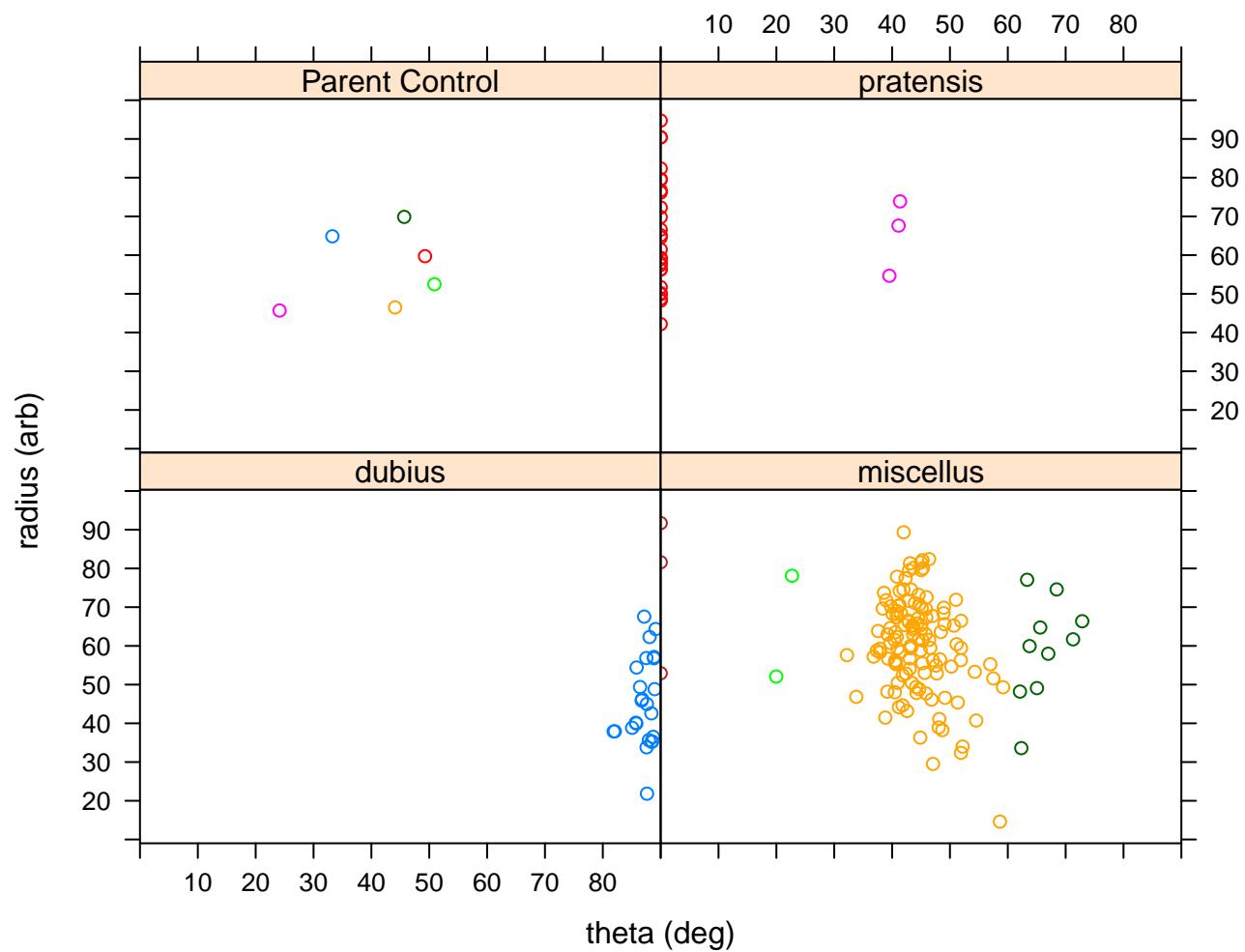
HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○



V_2_5_isotig07608_243 gDNA

Call

HH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		



V_2_5_isotig07608_243 cDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LL	○	PM3_2_1	○
LLHH	○	PM4	○
LLLL	○	PM5	○
No_Alleles	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

120
100
80
60
40
20
0

dubius

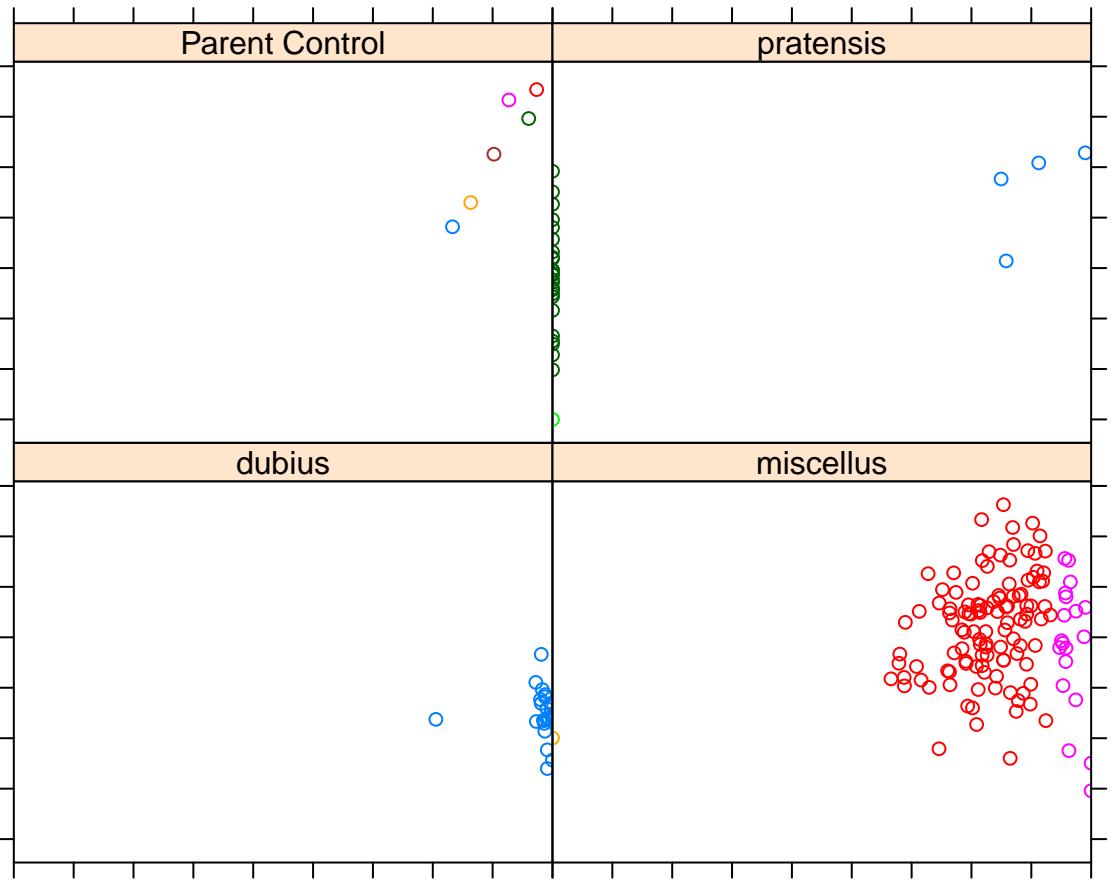
miscellus

120
100
80
60
40
20
0

10 20 30 40 50 60 70 80

theta (deg)

radius (arb)



V_2_5_isotig07643_194 cDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

130
120
110
100
90
80
70
60
50
40
30
20

dubius

miscellus

130
120
110
100
90
80
70
60
50
40
30
20

radius (arb)

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig07679_240 gDNA

Call

Bad_Spectrum	○	LLLH	○
HH	○	LLLL	○
HHHH	○	No_Alleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

80
70
60
50
40
30
20
10
0

○

○

○

○

○

○

radius (arb)

dubius

mirus

80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig07679_240 cDNA

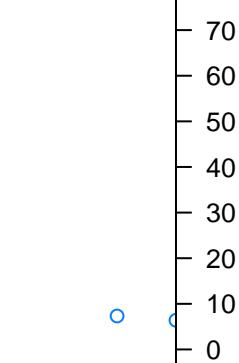
Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LHHH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

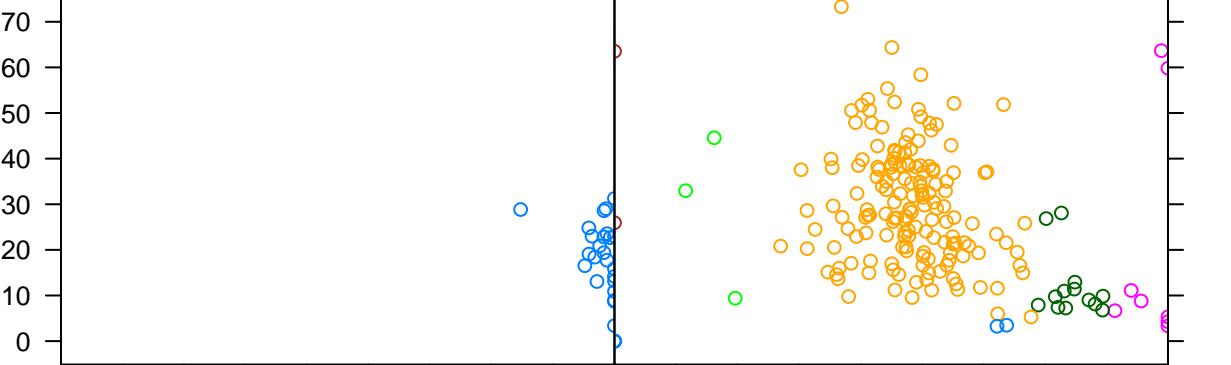
Parent Control

porrifolius



dubius

mirus



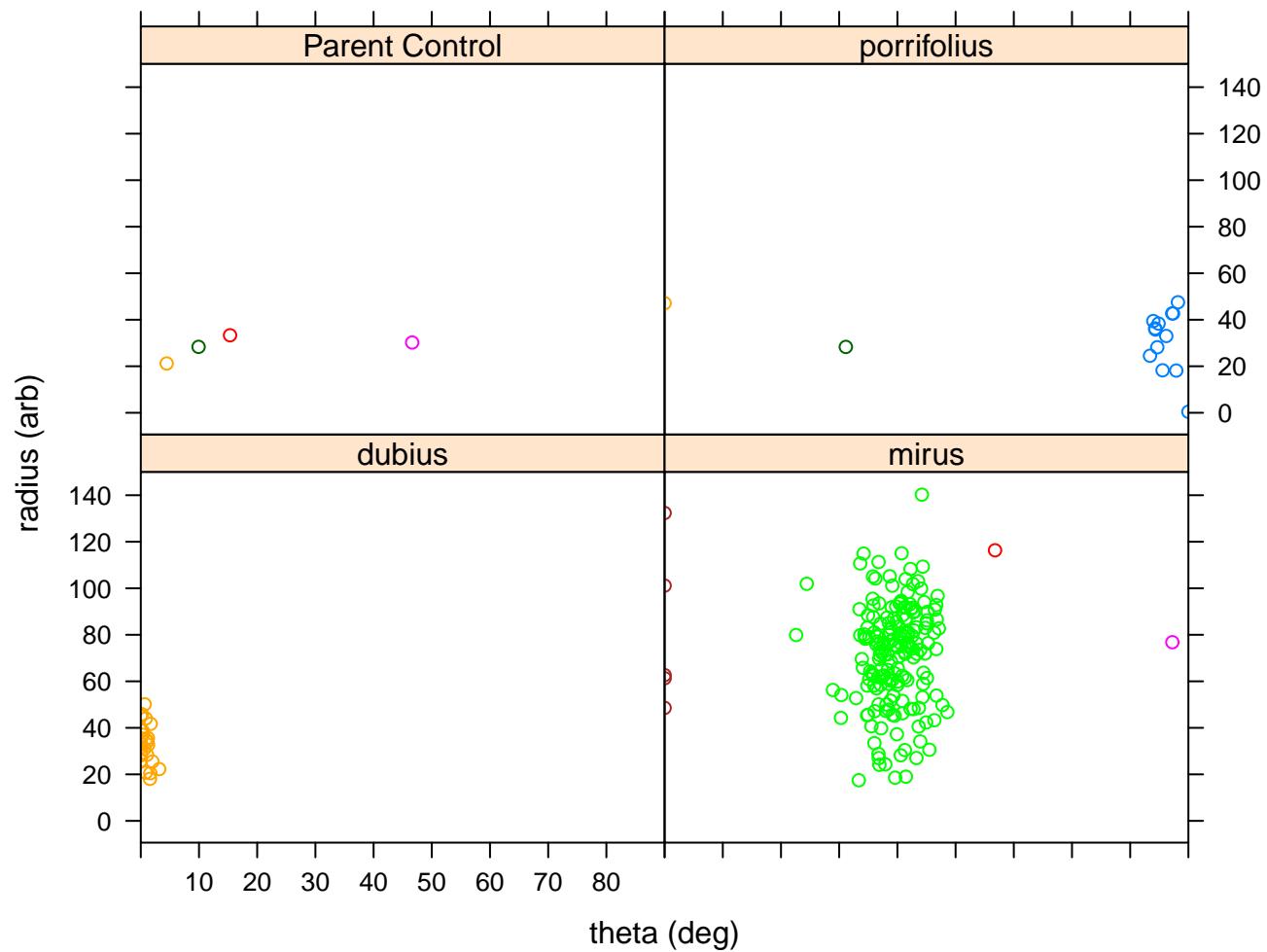
theta (deg)

V_2_5_isotig07679_429 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

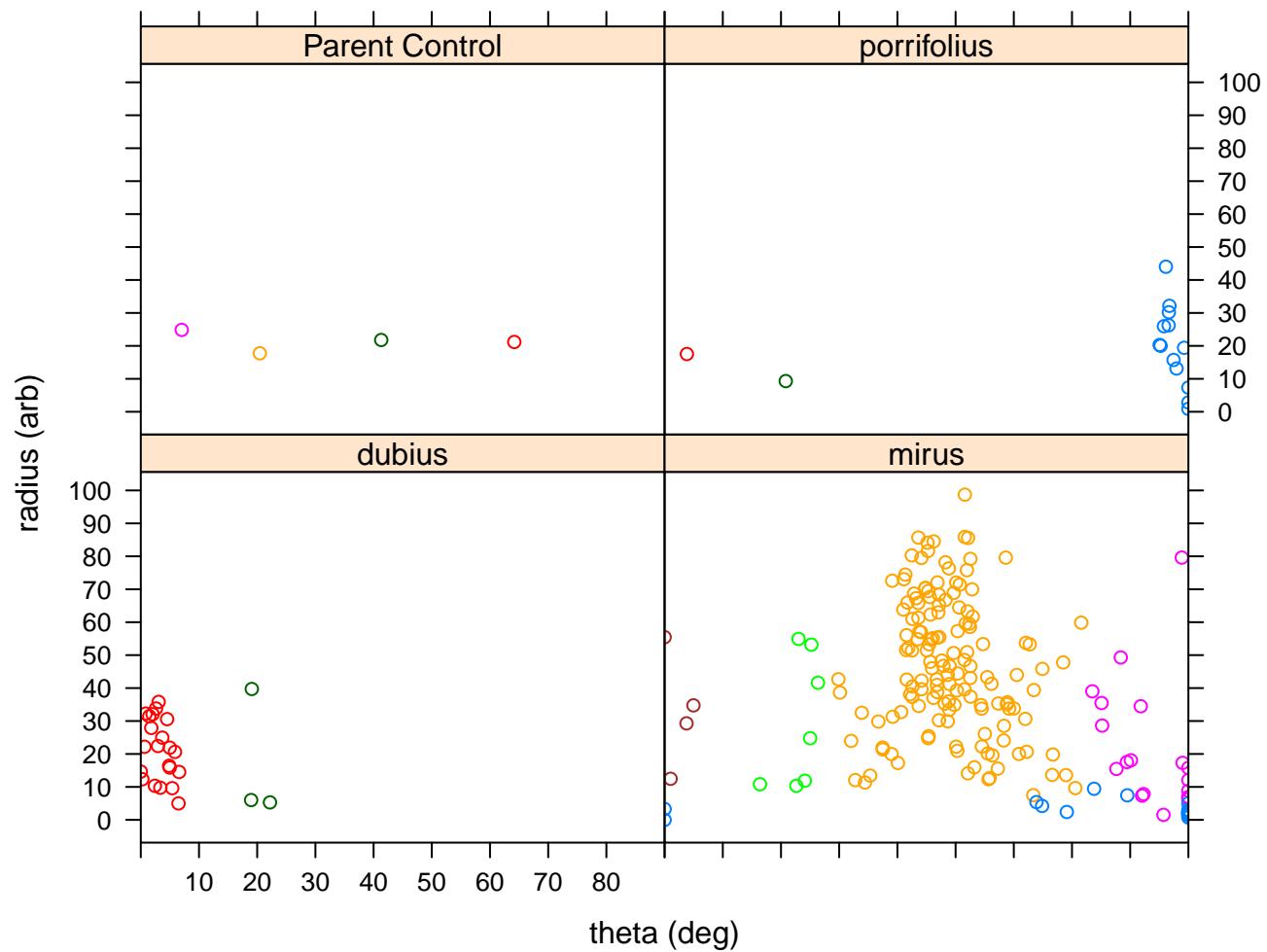


V_2_5_isotig07679_429 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

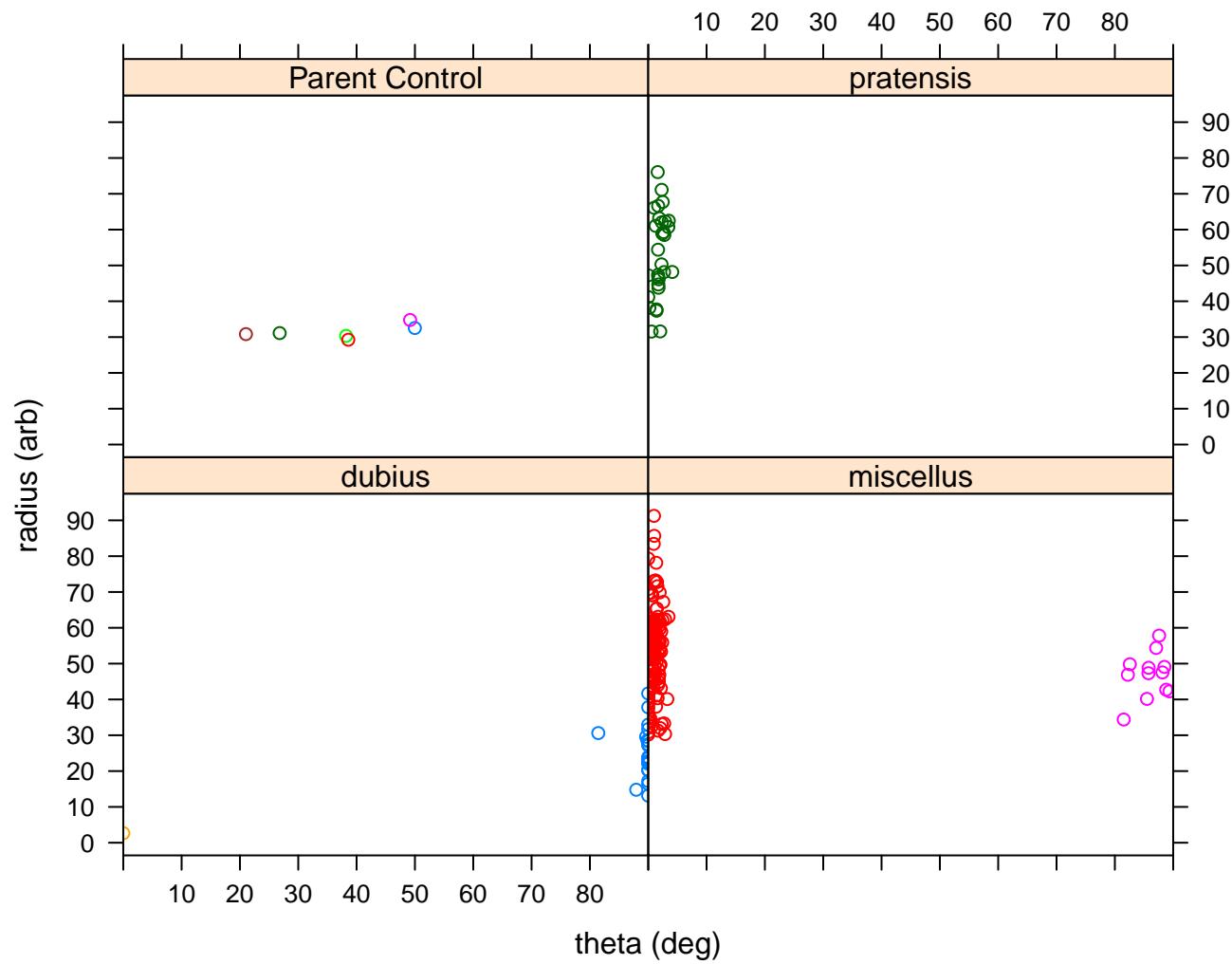
10 20 30 40 50 60 70 80



V_2_5_isotig07775_1045 gDNA

Call

HH	○	PM3_1_2	○
HHHH	○	PM3_2_1	○
LL	○	PM4	○
LLLL	○	PM5	○
No_Alleles	○	PM6	○
PM3_1_1	○		○



V_2_5_isotig07775_1045 cDNA

Call

Bad_Spectrum	○	PM3_1_1	○
HH	○	PM3_1_2	○
HHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○
No_Alleles	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

100
90
80
70
60
50
40
30
20
10
0

dubius

miscellus

100

90

80

70

60

50

40

30

20

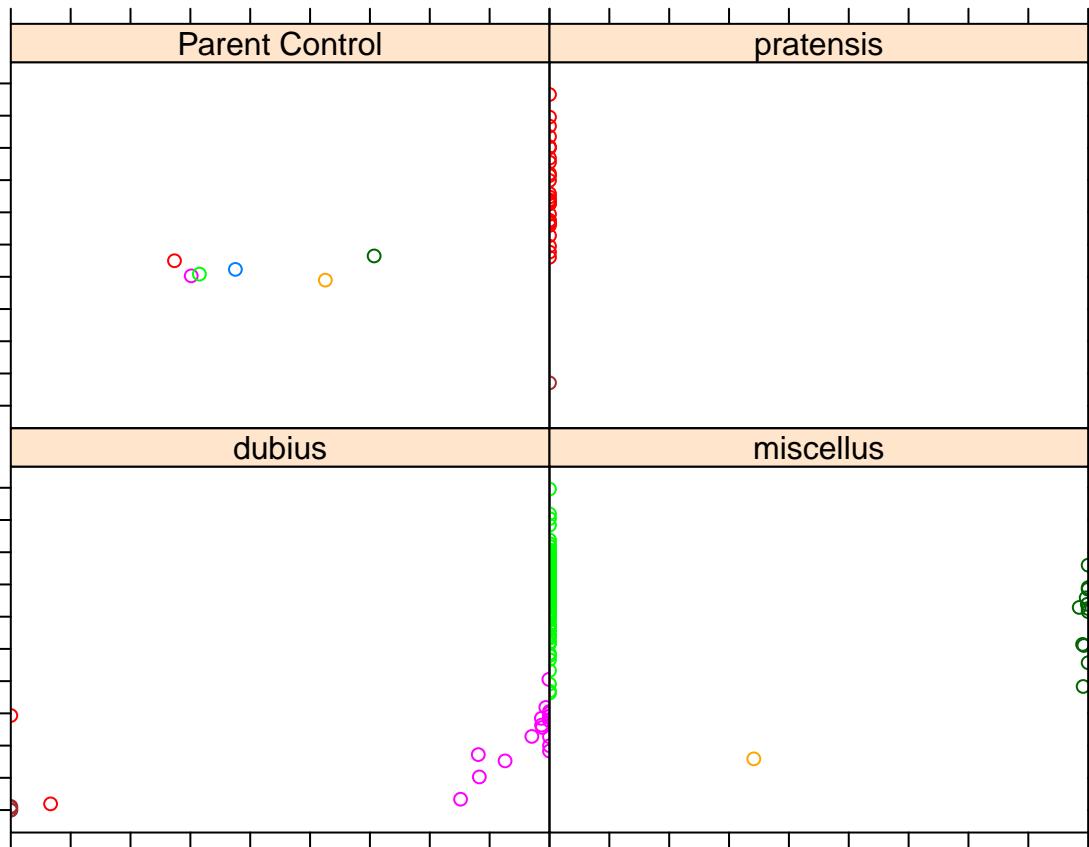
10

0

radius (arb)

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig07933_1591 gDNA

Call

HH	○	PM3_1_2	○
HHHH	○	PM3_2_1	○
LL	○	PM4	○
LLLH	○	PM5	○
LLLL	○	PM6	○
PM3_1_1	○		

10 20 30 40 50 60 70 80

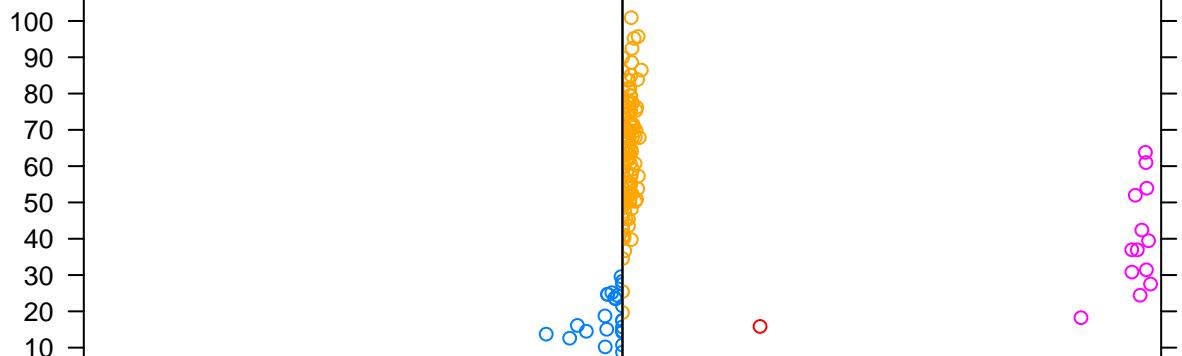
Parent Control

pratensis

100
90
80
70
60
50
40
30
20
10

dubius

miscellus



theta (deg)

V_2_5_isotig07933_1591 cDNA

Call

HH	○	PM3_1_2	○
HHHH	○	PM3_2_1	○
LL	○	PM4	○
LLLL	○	PM5	○
PM3_1_1	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

radius (arb)

80
70
60
50
40
30
20
10

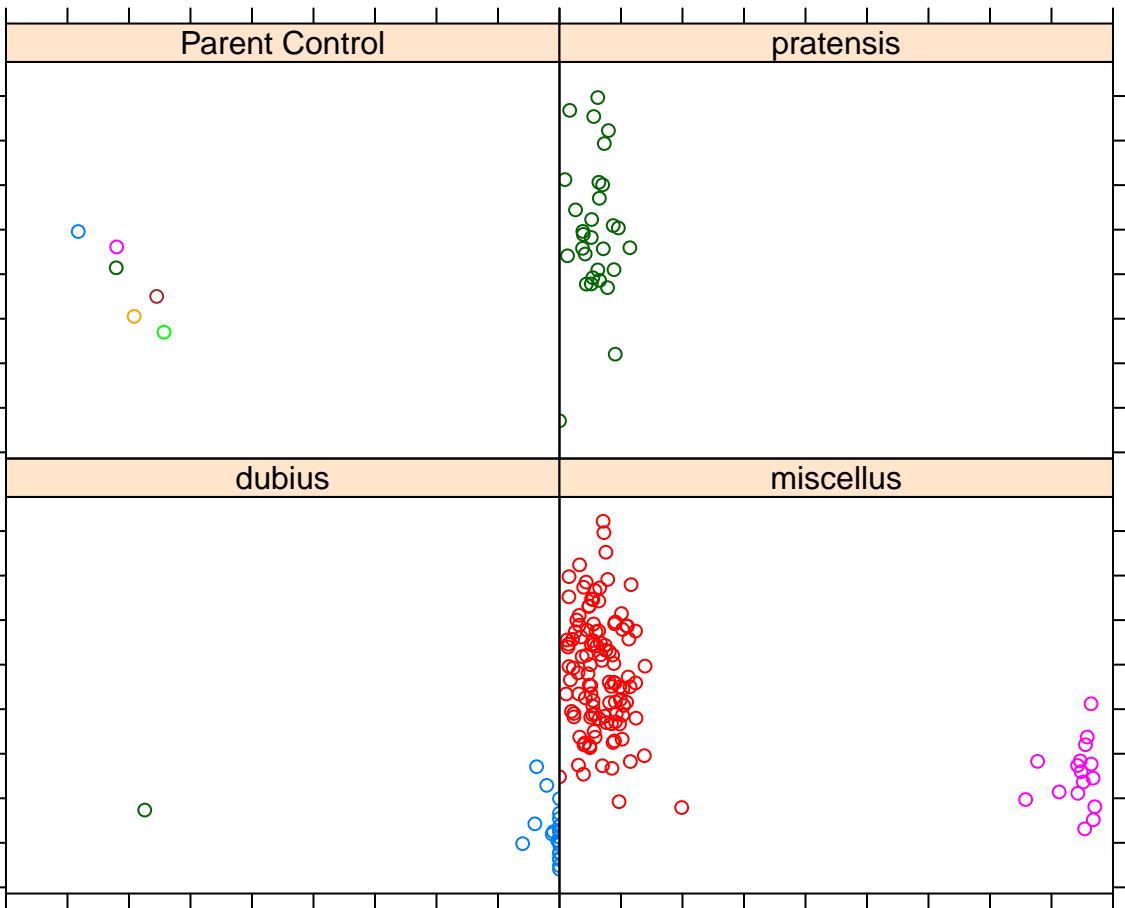
dubius

miscellus

80
70
60
50
40
30
20
10

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig07988_925 gDNA

Call

HH	○	PM3_1_2	○
HHHH	○	PM3_2_1	○
LL	○	PM4	○
No_Aleles	○	PM5	○
PM3_1_1	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

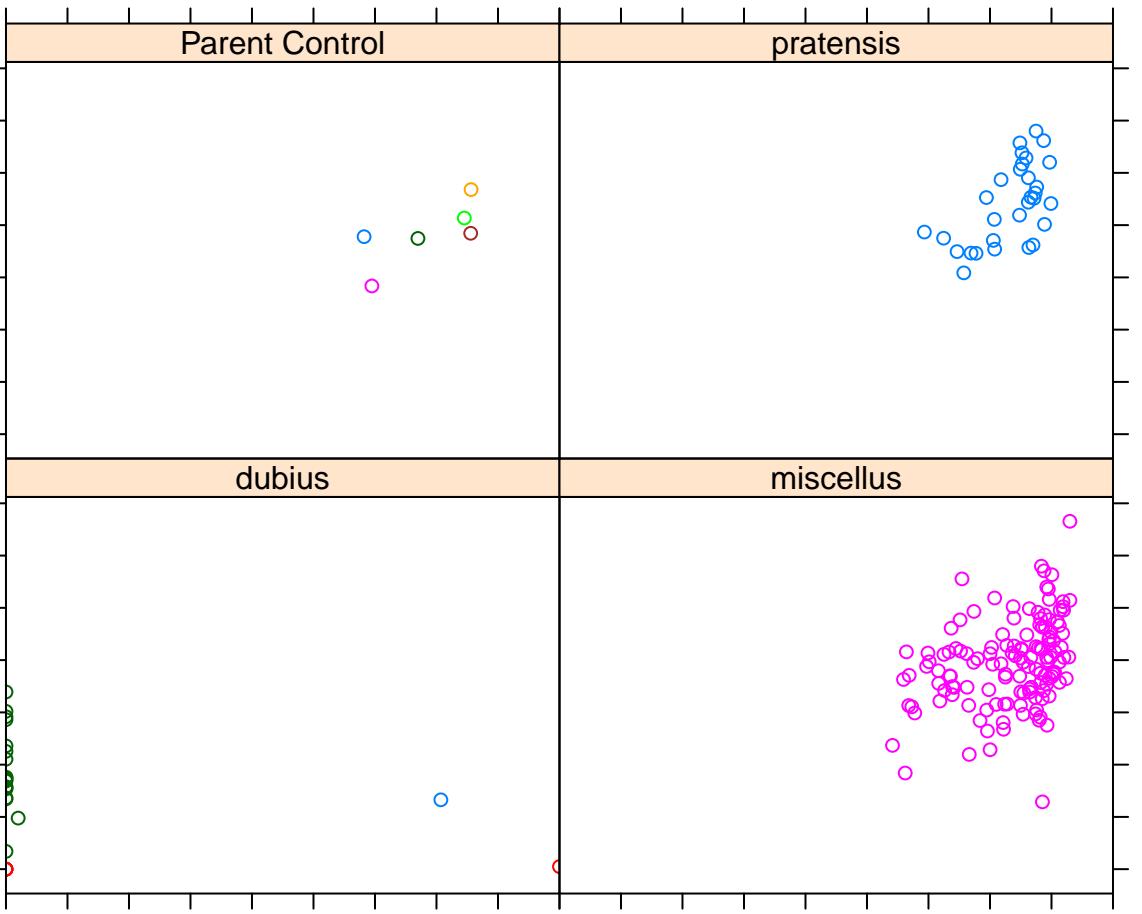
radius (arb)

dubius

miscellus

10 20 30 40 50 60 70 80

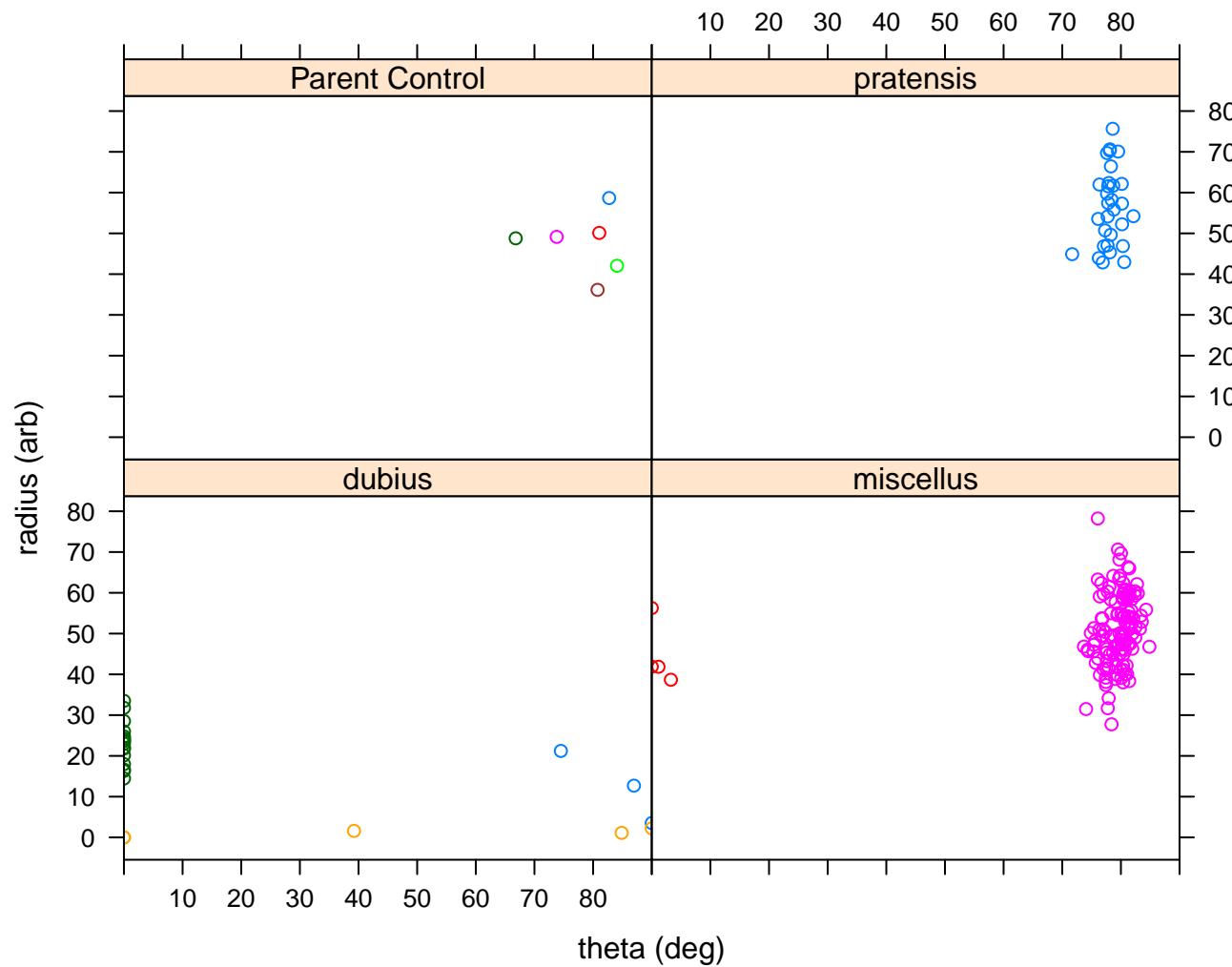
theta (deg)



V_2_5_isotig07988_925 cDNA

Call

HH	○	PM3_1_2	○
HHHH	○	PM3_2_1	○
LL	○	PM4	○
LLLL	○	PM5	○
No_Aleles	○	PM6	○
PM3_1_1	○		



V_2_5_isotig08346_1440 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

80
70
60
50
40
30
20
10
0

dubius

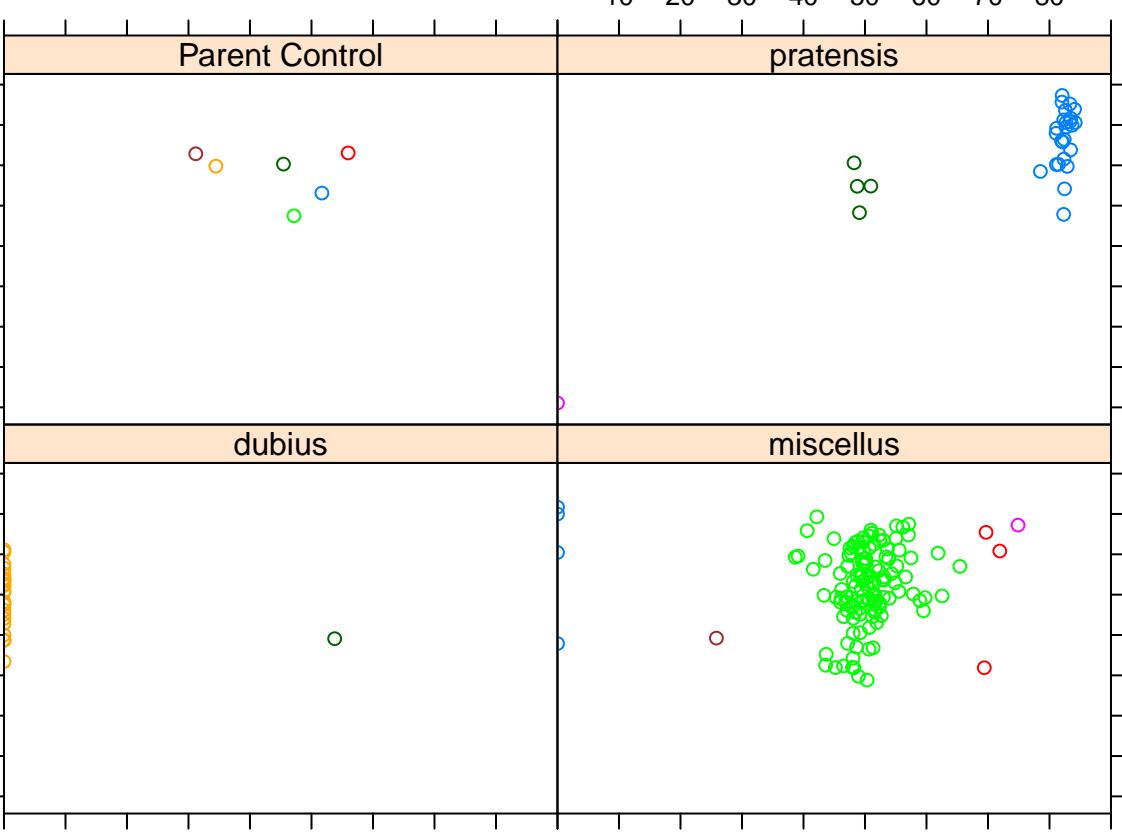
miscellus

radius (arb)

80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig08648_314 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

radius (arb)

100
90
80
70
60
50
40
30
20
10

dubius

miscellus

100
90
80
70
60
50
40
30
20
10

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig08648_314 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

180
160
140
120
100
80
60
40
20
0

dubius

miscellus

radius (arb)

180
160
140
120
100
80
60
40
20
0

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig08648_338 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

radius (arb)

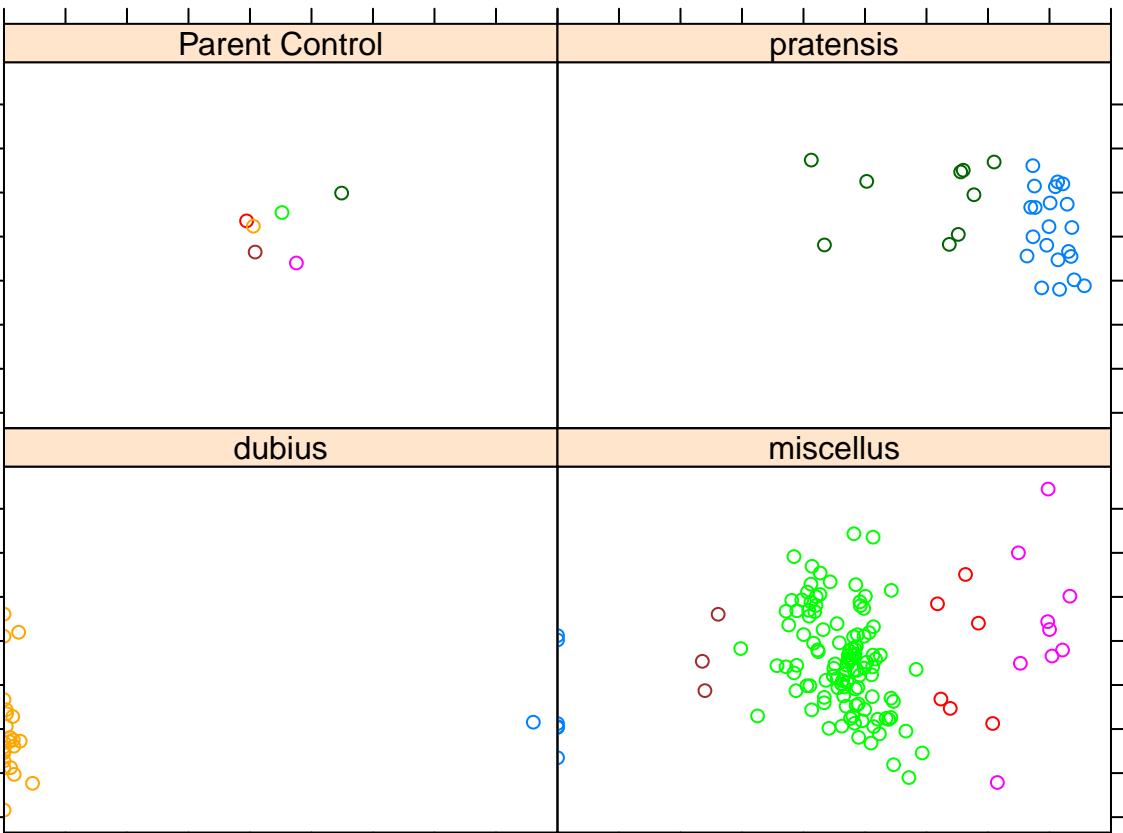
70
60
50
40
30
20
10
0

dubius

miscellus

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig08648_338 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

radius (arb)

45
40
35
30
25
20
15
10
5
0

dubius

miscellus

45
40
35
30
25
20
15
10
5
0

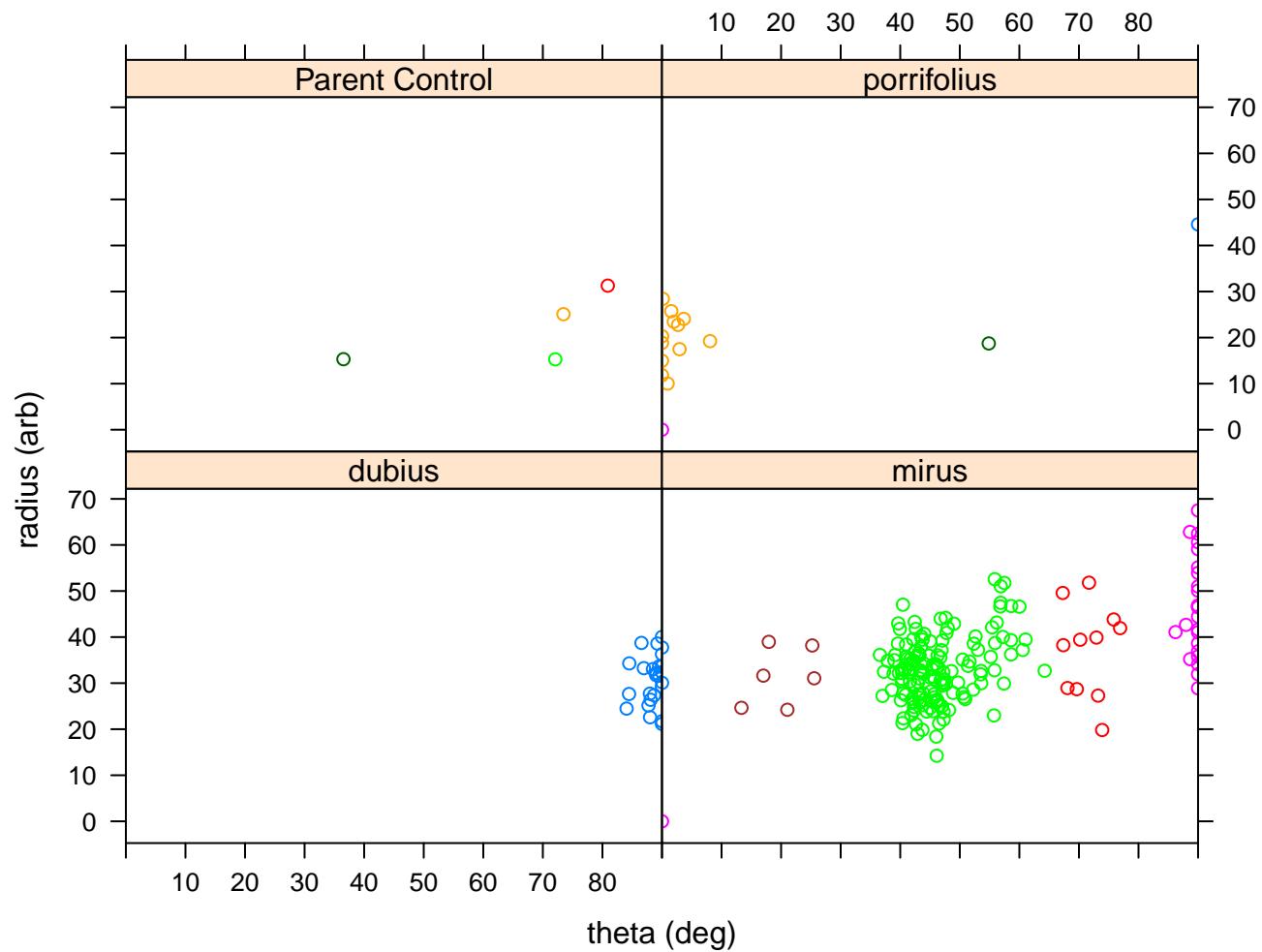
10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig08681_936 gDNA

Call

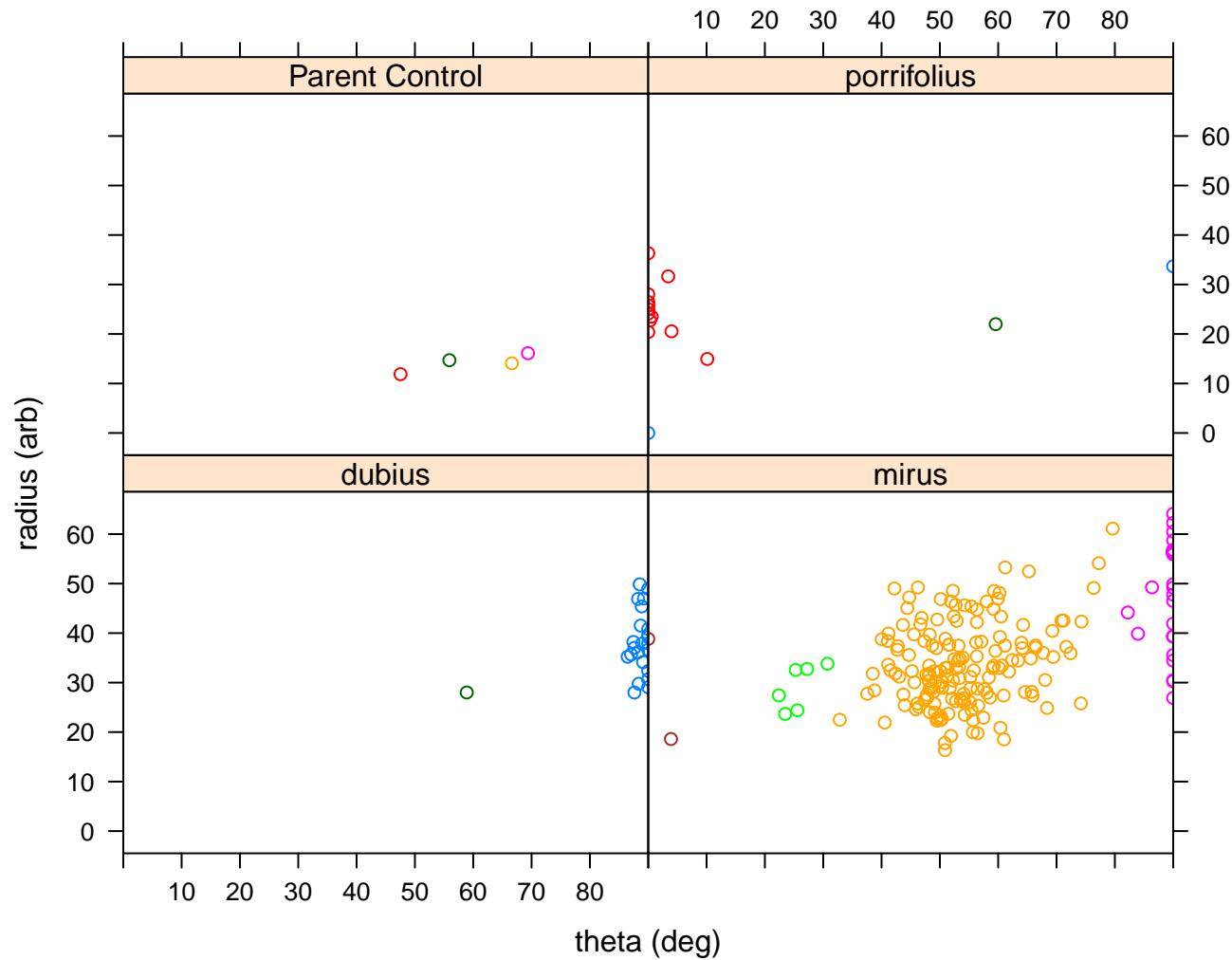
HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig08681_936 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○



V_2_5_isotig08727_1064 gDNA

Call

Bad_Spectrum	○	No_Aleles	○
HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

radius (arb)

80
70
60
50
40
30
20
10
0

dubius

miscellus

80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig08727_1064 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LL	○	PM3_2_1	○
LLHH	○	PM4	○
LLLH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

80
70
60
50
40
30
20
10
0

dubius

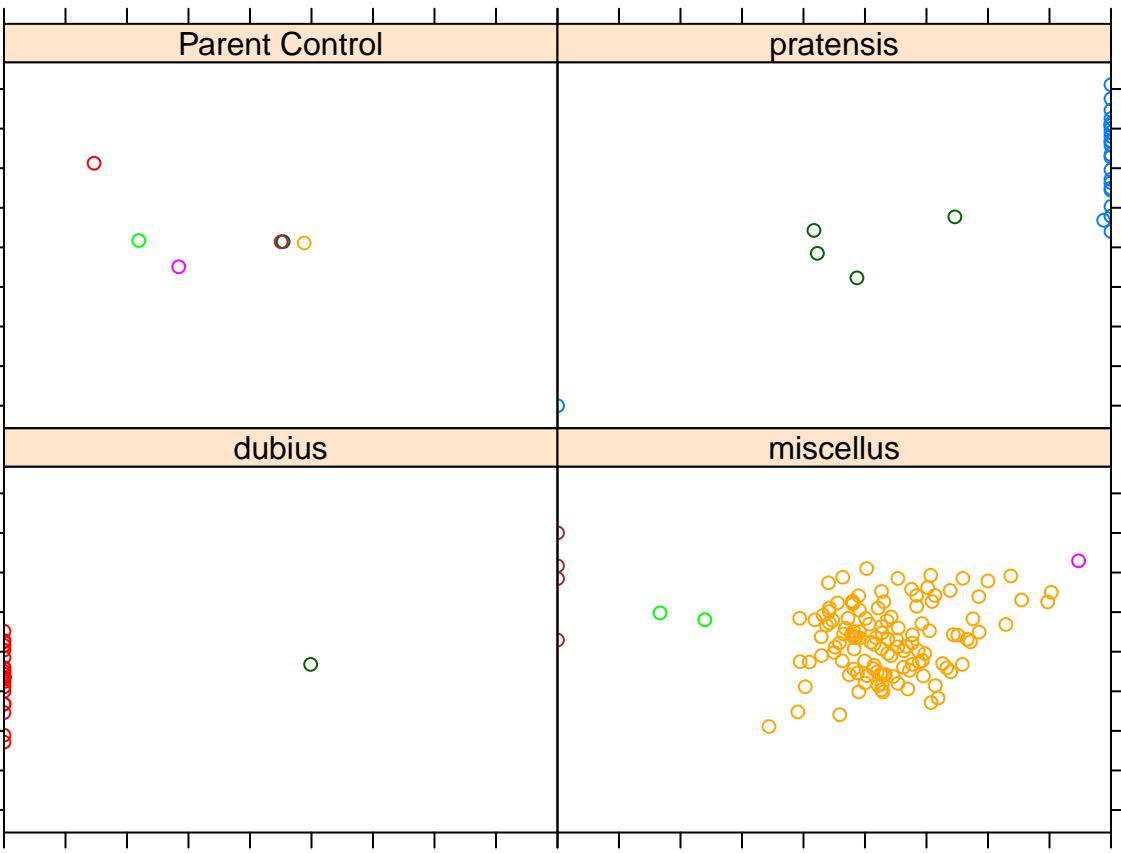
miscellus

radius (arb)

80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig08727_1196 gDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LHHH	○	PM4	○
LL	○	PM5	○
LLHH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

90
80
70
60
50
40
30
20
10

dubius

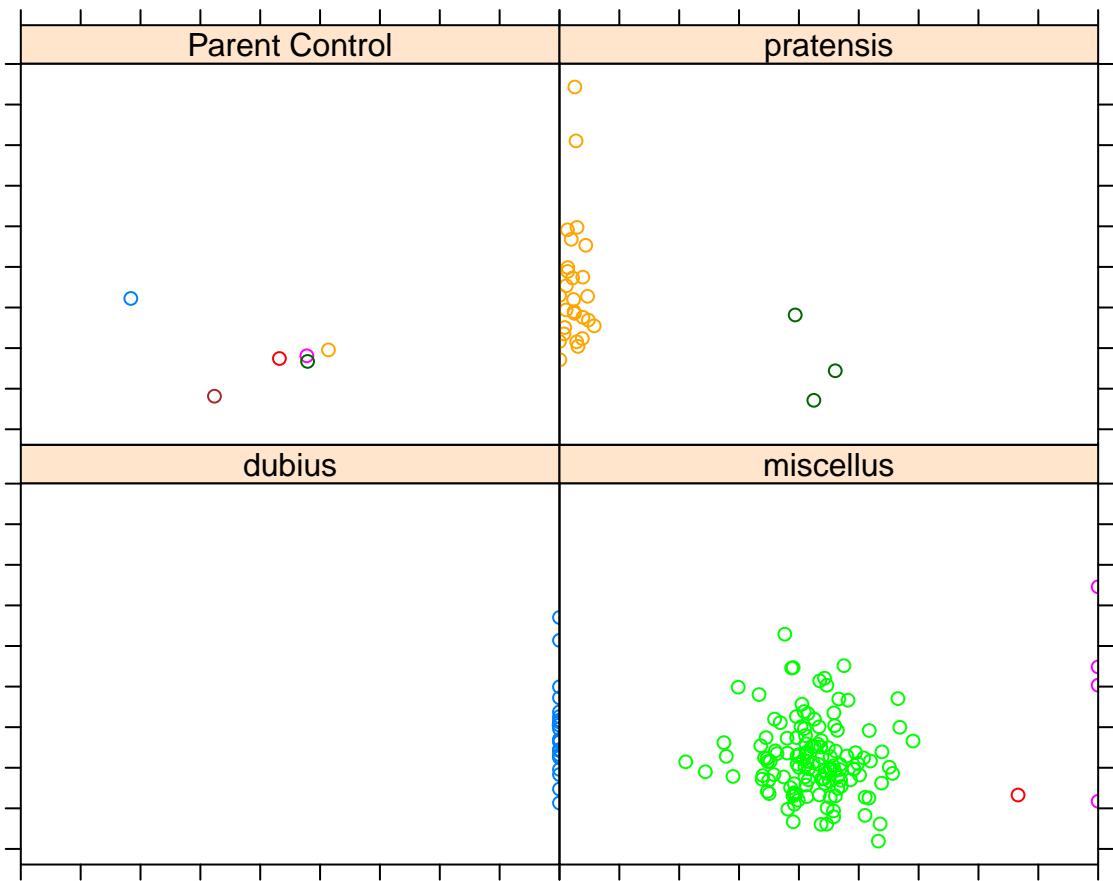
miscellus

90
80
70
60
50
40
30
20
10

10 20 30 40 50 60 70 80

theta (deg)

radius (arb)



V_2_5_isotig08727_1196 cDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

80
70
60
50
40
30
20
10

dubius

miscellus

radius (arb)

80

70

60

50

40

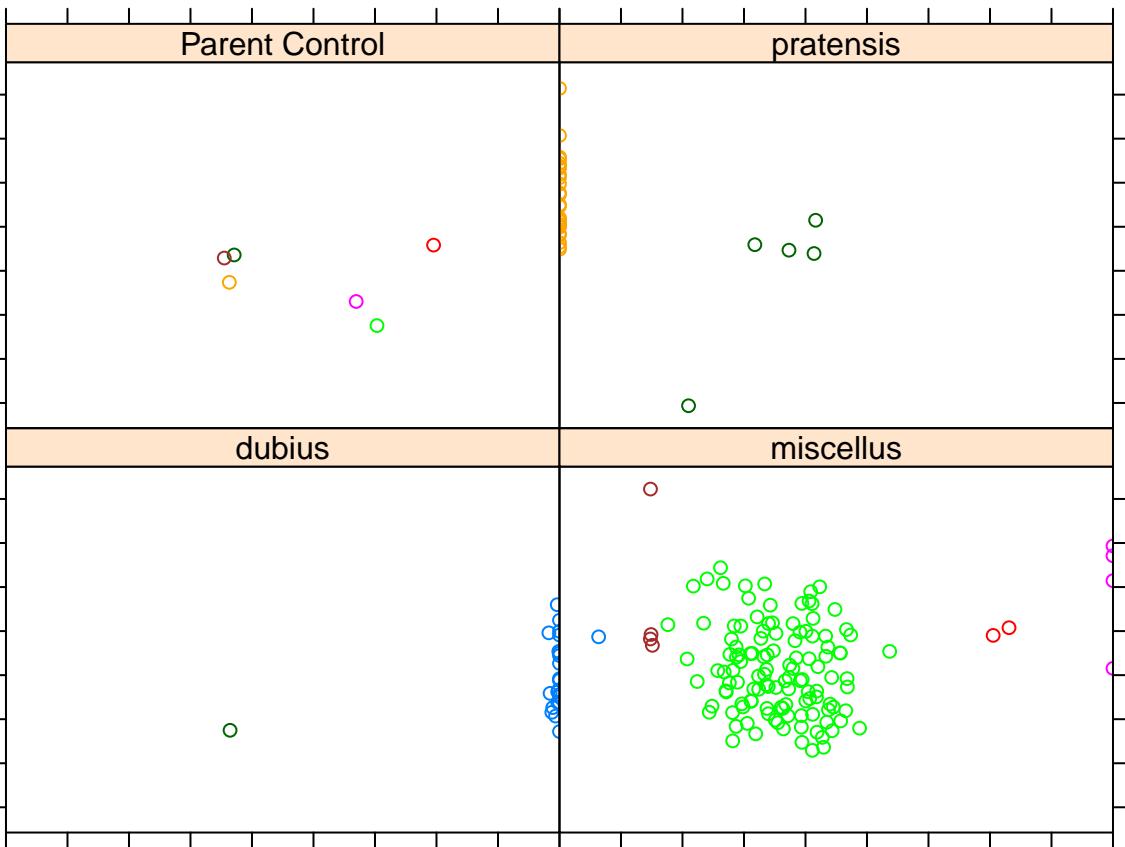
30

20

10

10 20 30 40 50 60 70 80

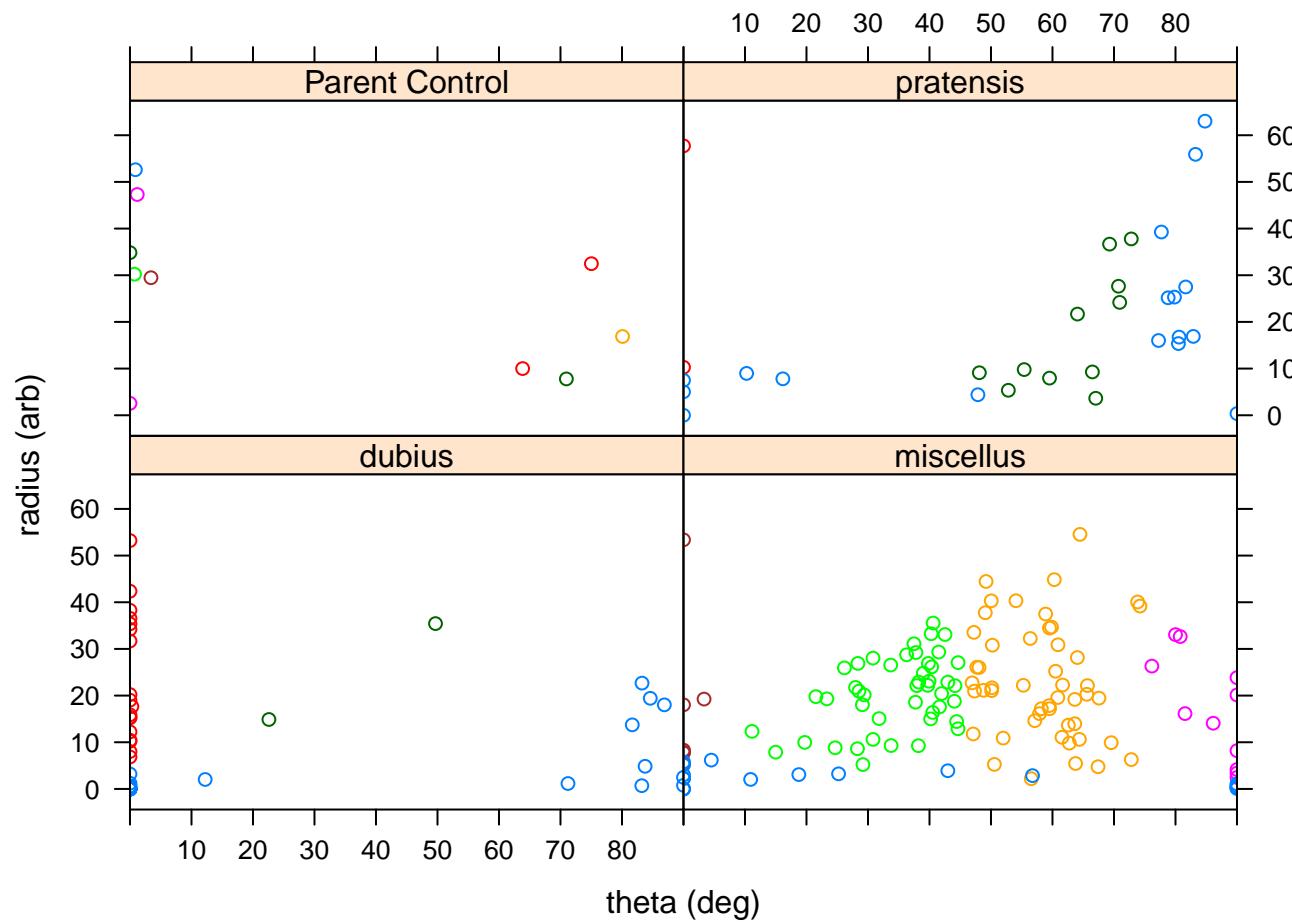
theta (deg)



V_2_5_isotig08815_1023 cDNA

Call

HH	○	PM2_1_1	○
HHHH	○	PM2_1_2	○
LH	○	PM2_2_1	○
LL	○	PM3_1_1	○
LLHH	○	PM3_1_2	○
LLLH	○	PM3_2_1	○
LLLL	○	PM4	○
No_Alleles	○	PM5	○
PM1	○	PM6	○



V_2_5_isotig08815_1062 gDNA

Call

HH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

110
100
90
80
70
60
50
40
30
20
10

dubius

miscellus

110
100
90
80
70
60
50
40
30
20
10

10 20 30 40 50 60 70 80

theta (deg)

radius (arb)

V_2_5_isotig08815_1062 cDNA

Call

Bad_Spectrum	○	LLLL	○
HH	○	No_Alleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

100
90
80
70
60
50
40
30
20
10
0

dubius

miscellus

100
90
80
70
60
50
40
30
20
10
0

radius (arb)

theta (deg)

10 20 30 40 50 60 70 80

V_2_5_isotig08815_1301 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

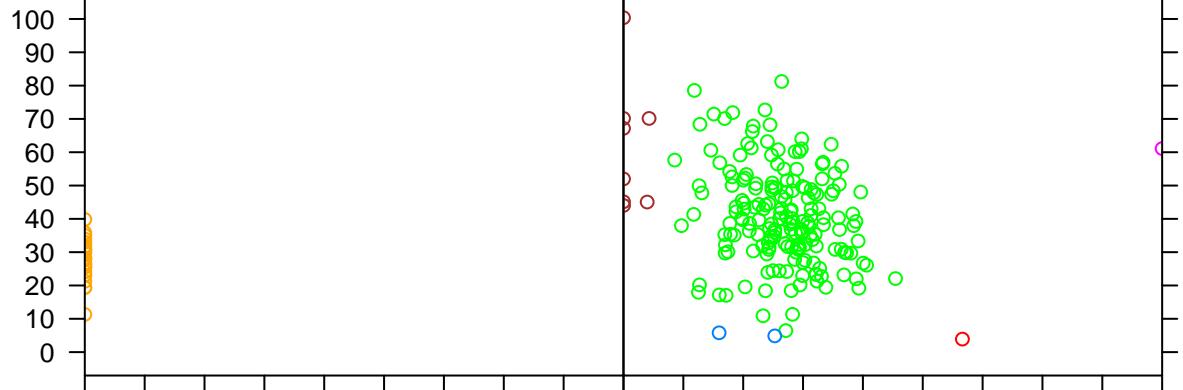
Parent Control

porrifolius

100
90
80
70
60
50
40
30
20
10
0

dubius

mirus



theta (deg)

V_2_5_isotig08815_1301 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LHHH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

90
80
70
60
50
40
30
20
10
0

dubius

mirus

90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

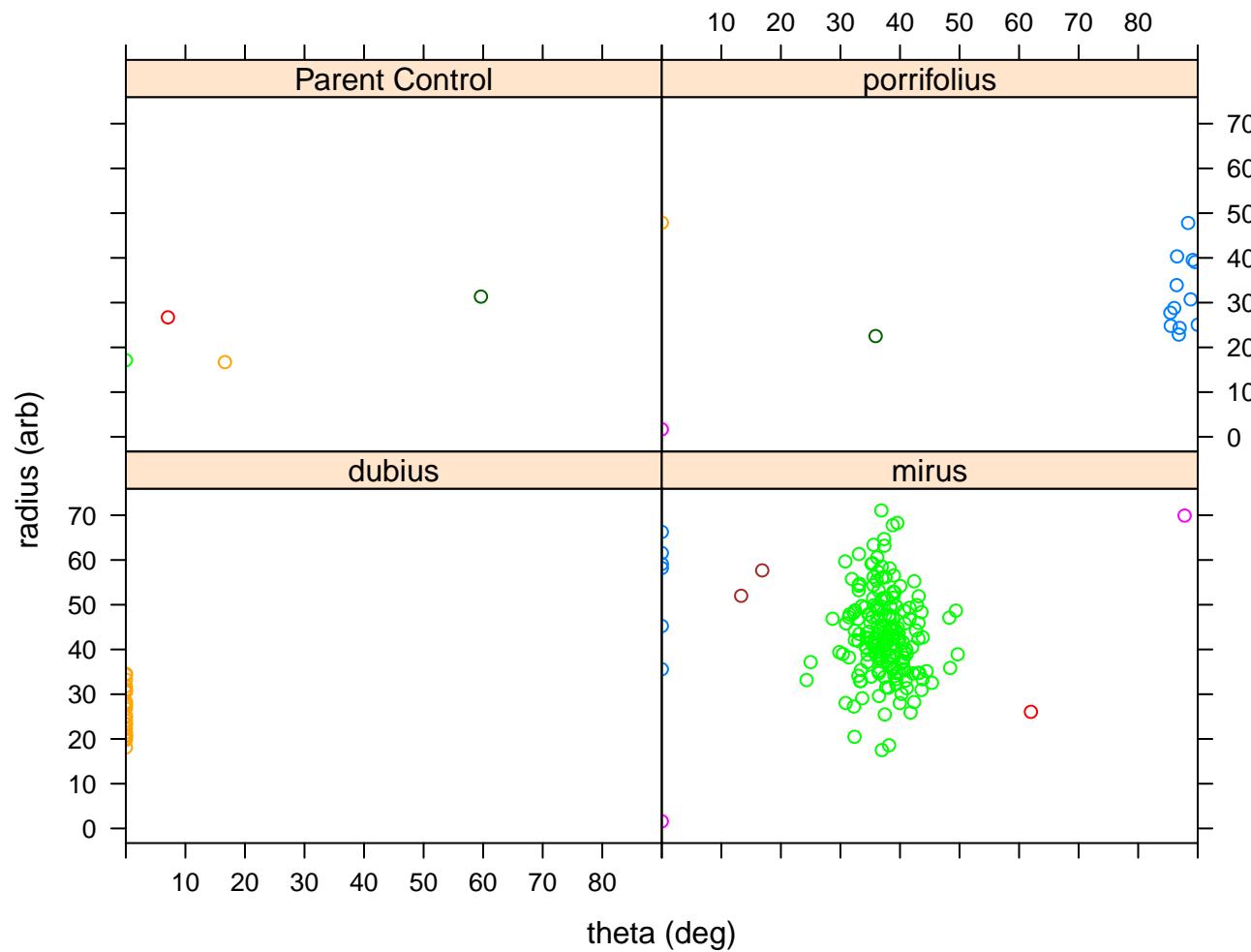
theta (deg)

radius (arb)

V_2_5_isotig08815_849 gDNA

Call

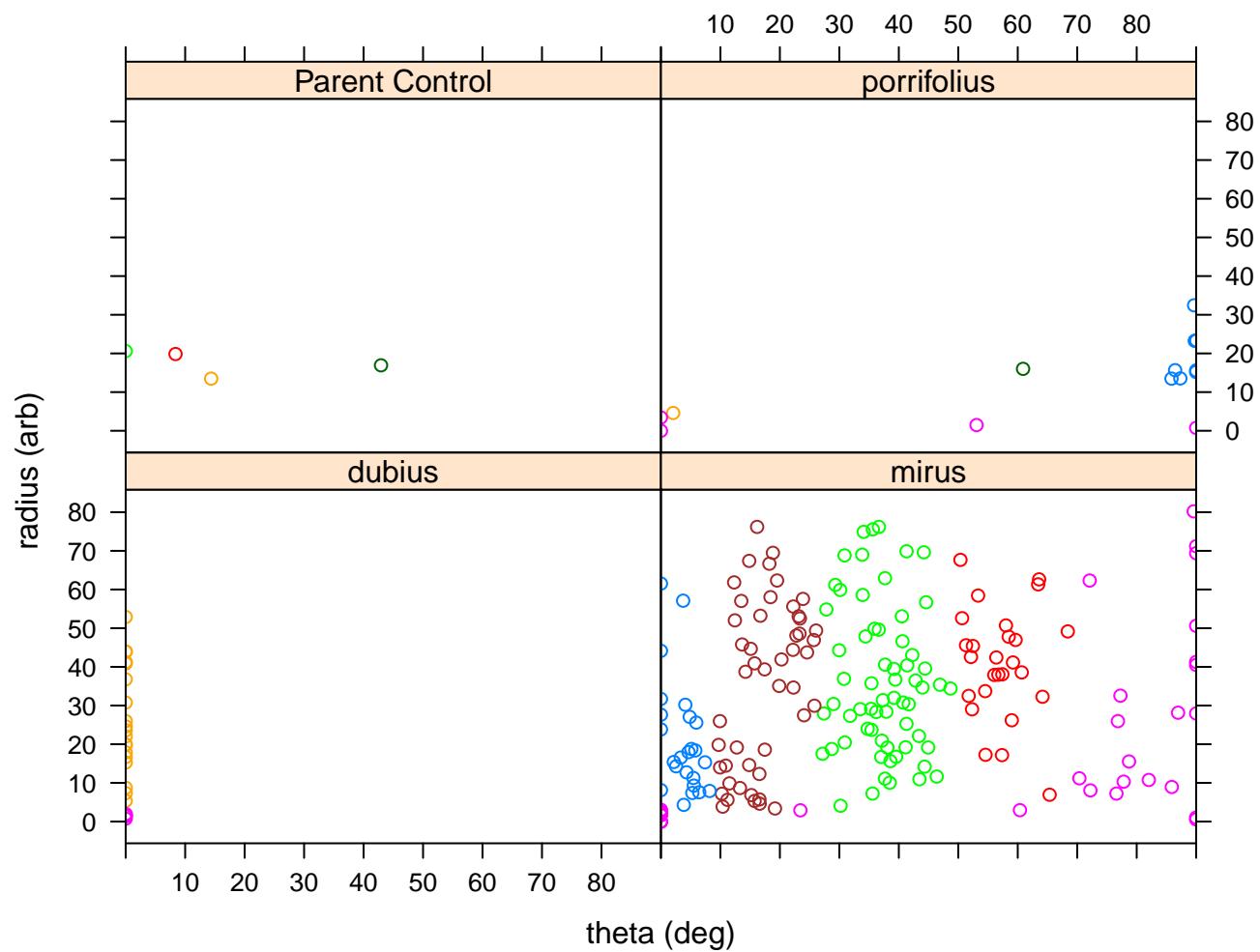
HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig08815_849 cDNA

Call

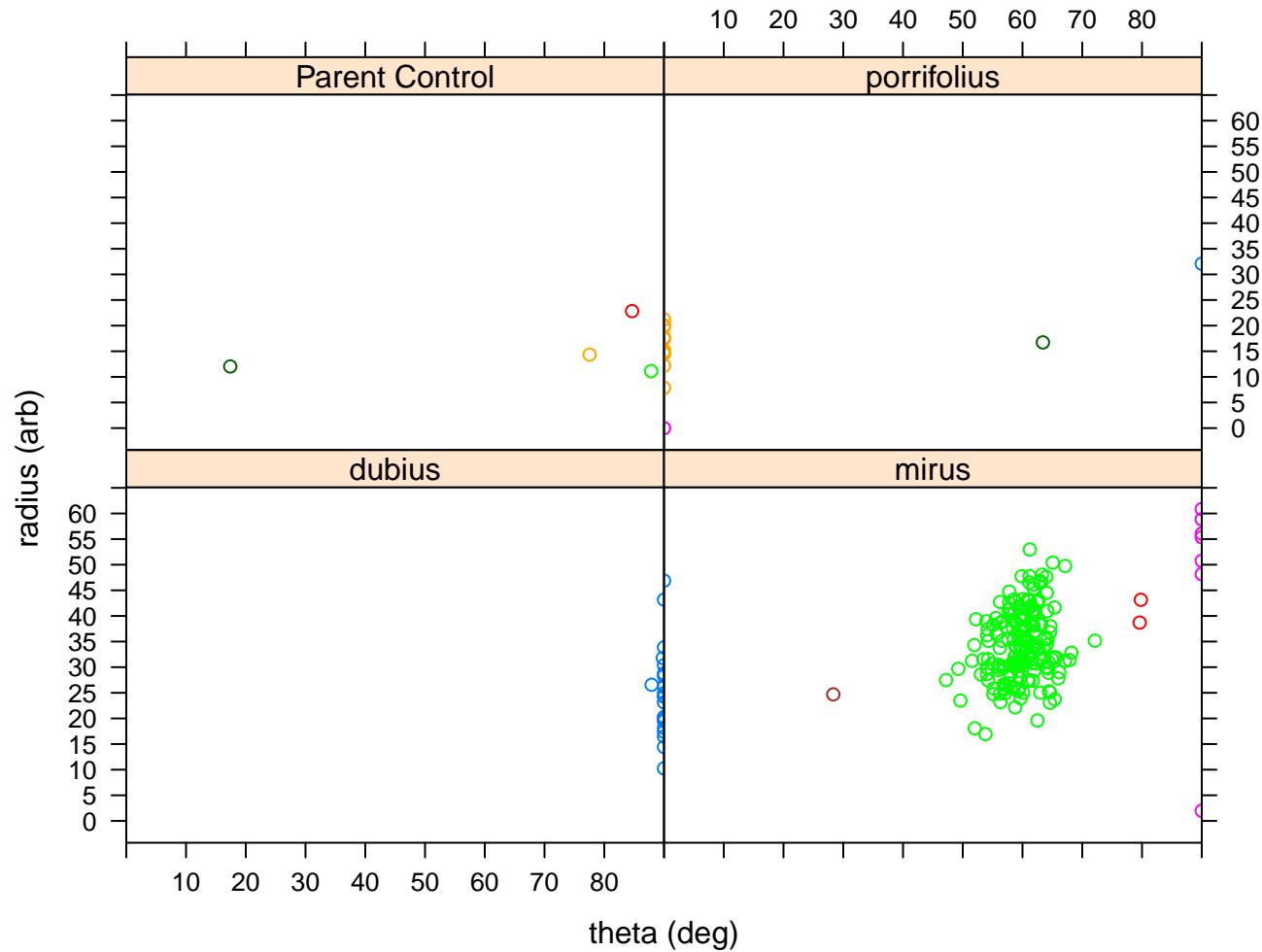
HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig08815_921 gDNA

Call

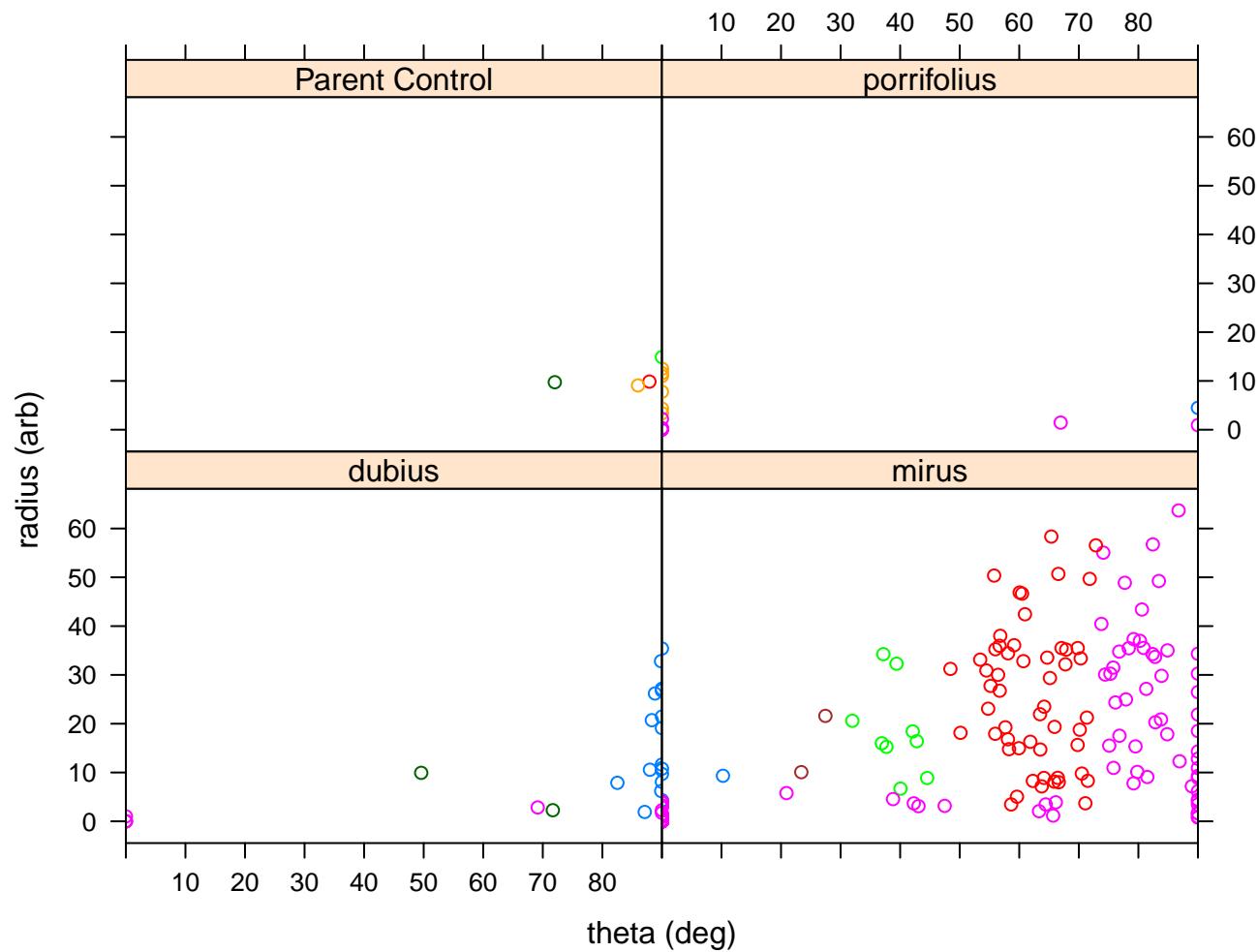
HH	○	LLLL	○
HHHH	●	No_Aleles	●
LH	○	PM1	○
LHHH	●	PM2_1_1	●
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	●		



V_2_5_isotig08815_921 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig08815_960 gDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

porrifolius

90
80
70
60
50
40
30
20
10
0

dubius

mirus

radius (arb)

90

80

70

60

50

40

30

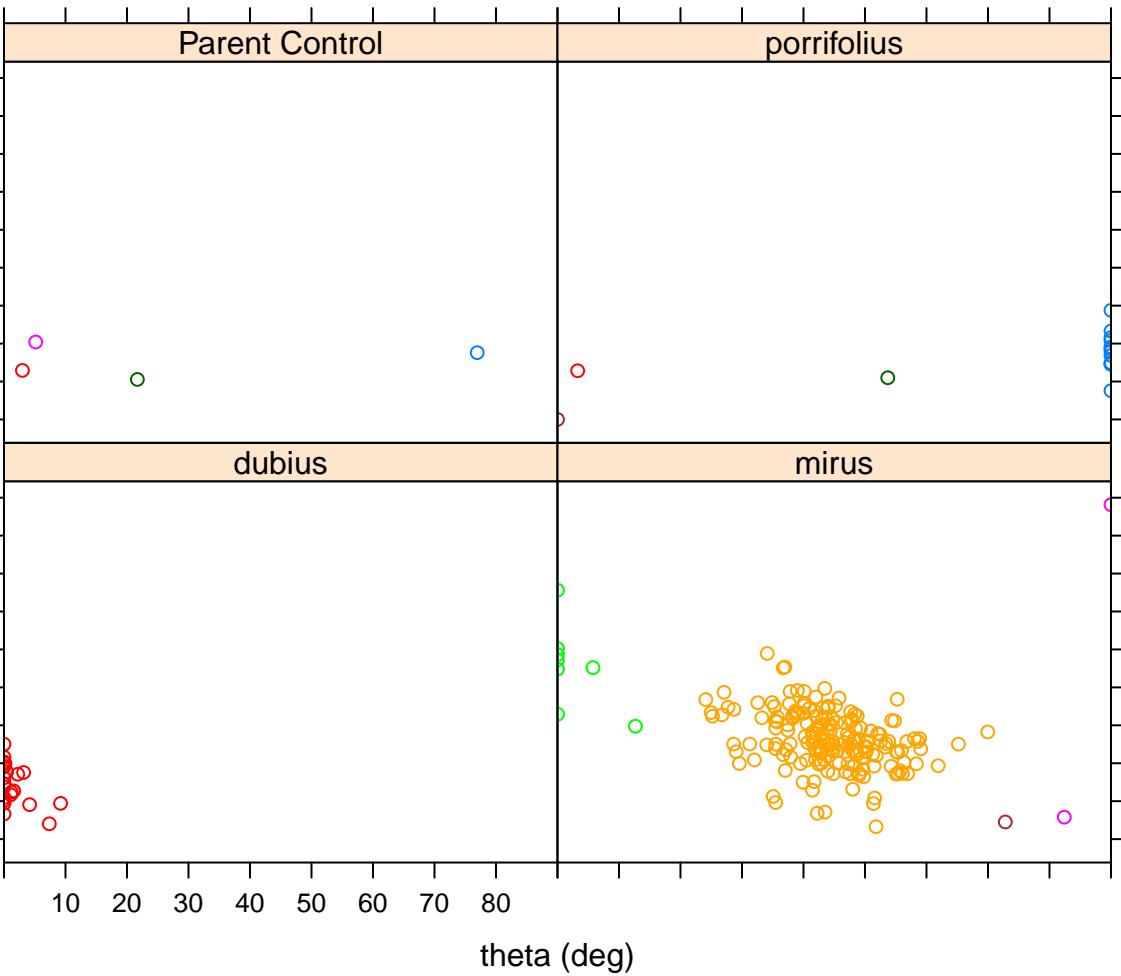
20

10

0

10 20 30 40 50 60 70 80

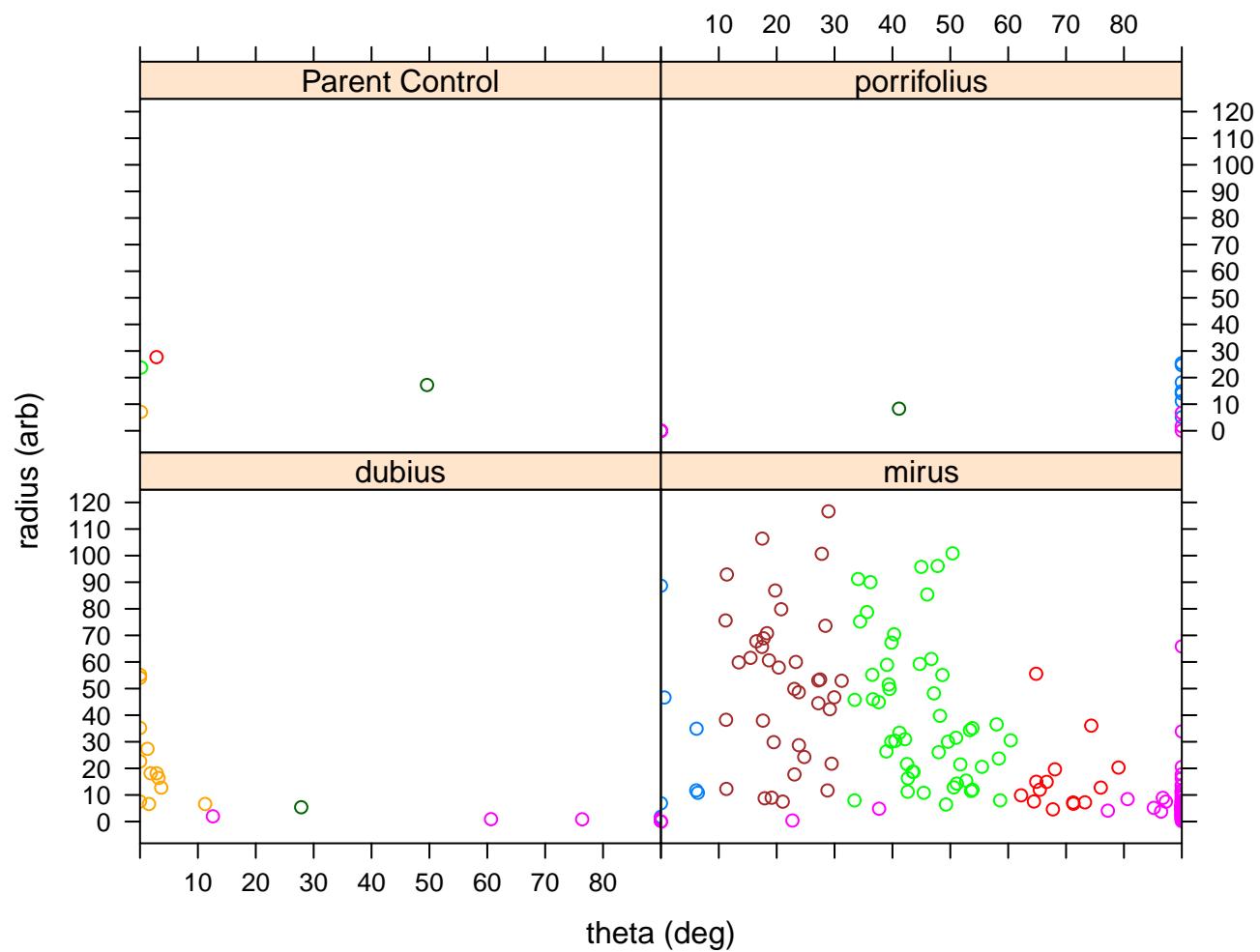
theta (deg)



V_2_5_isotig08815_960 cDNA

Call

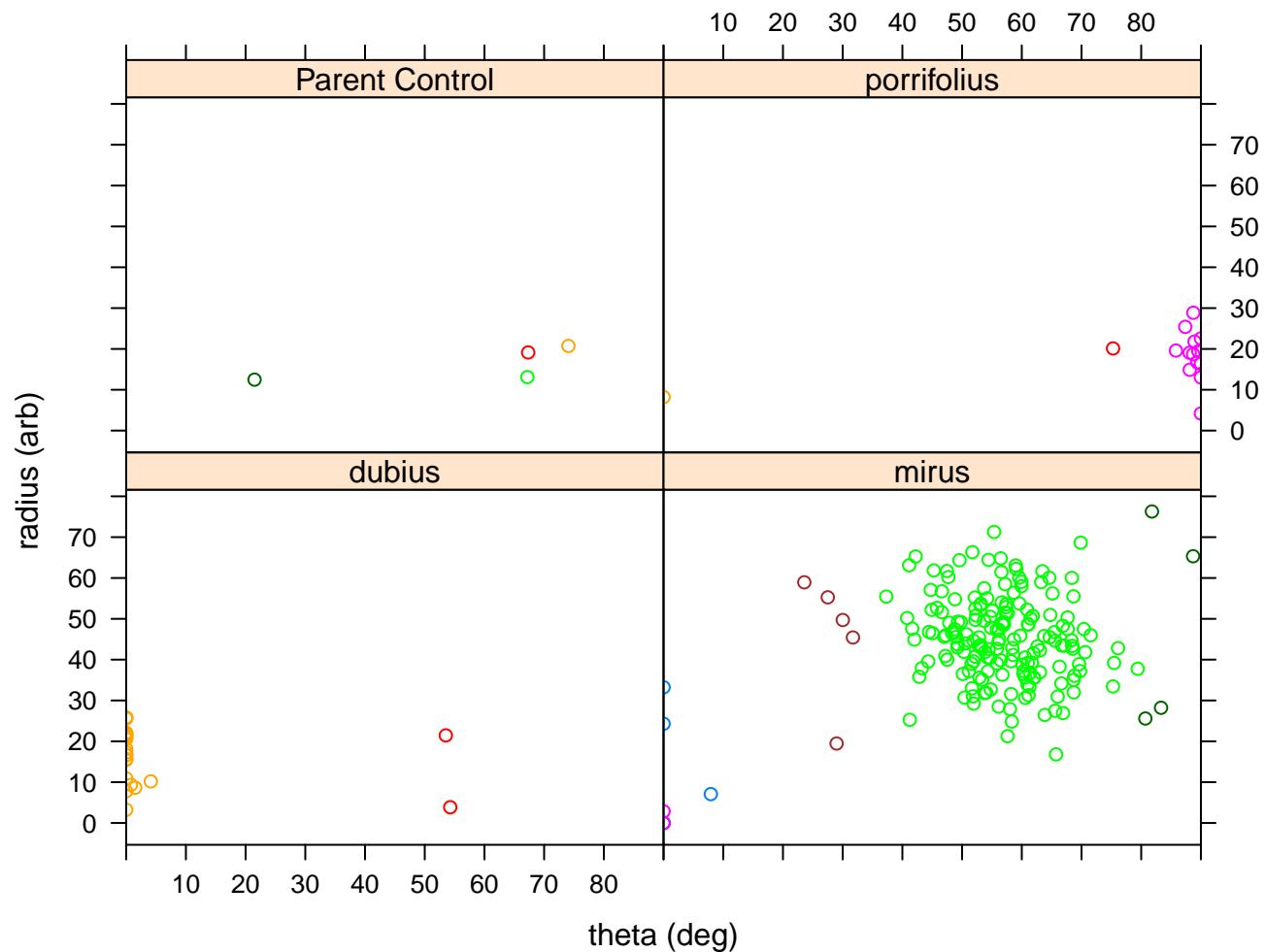
HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig08837_616 cDNA

Call

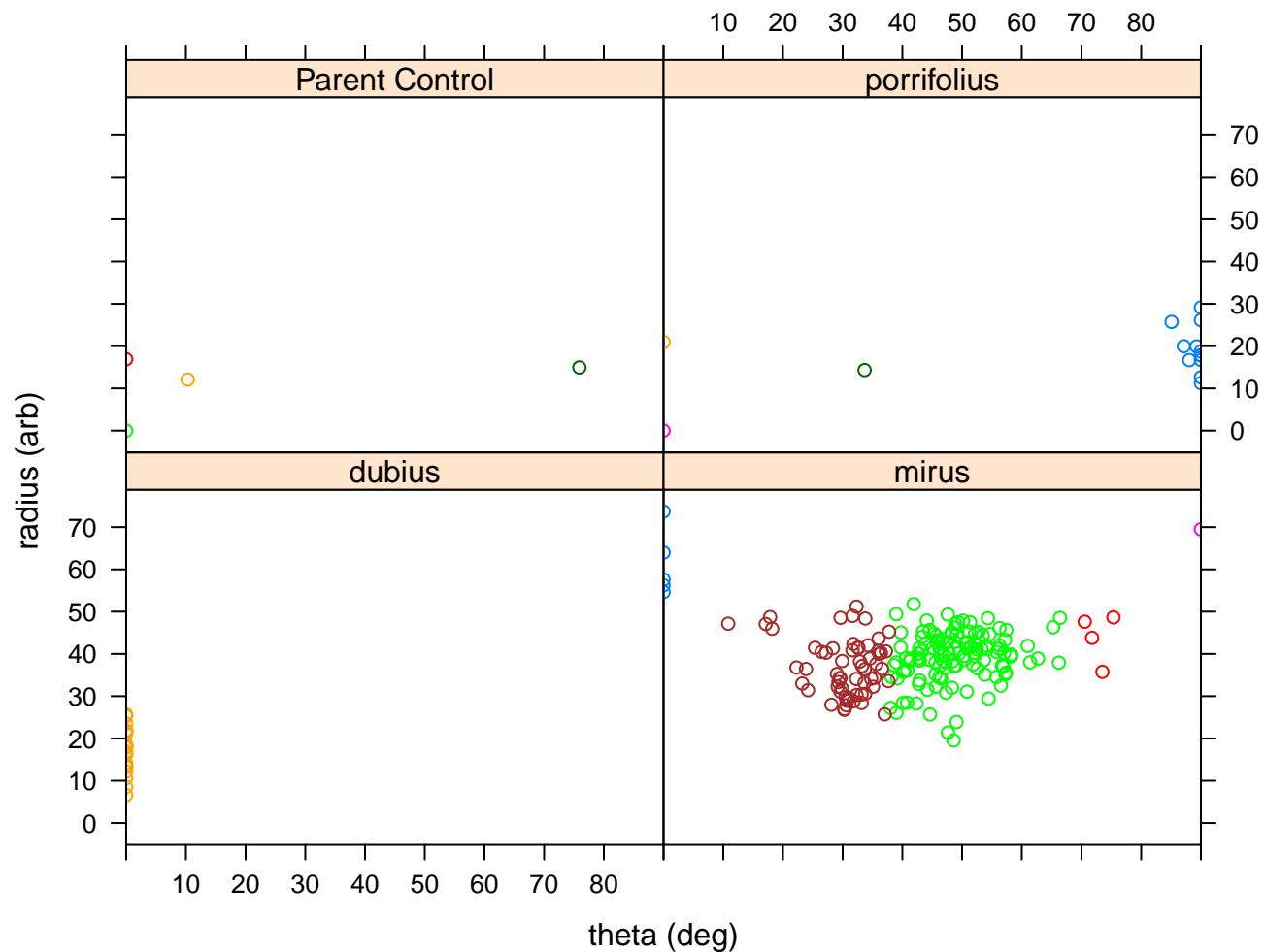
Bad_Spectrum	○	LLLL	○
HH	○	No_Alleles	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig08837_685 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig08837_685 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

porrifolius

80
70
60
50
40
30
20
10
0

dubius

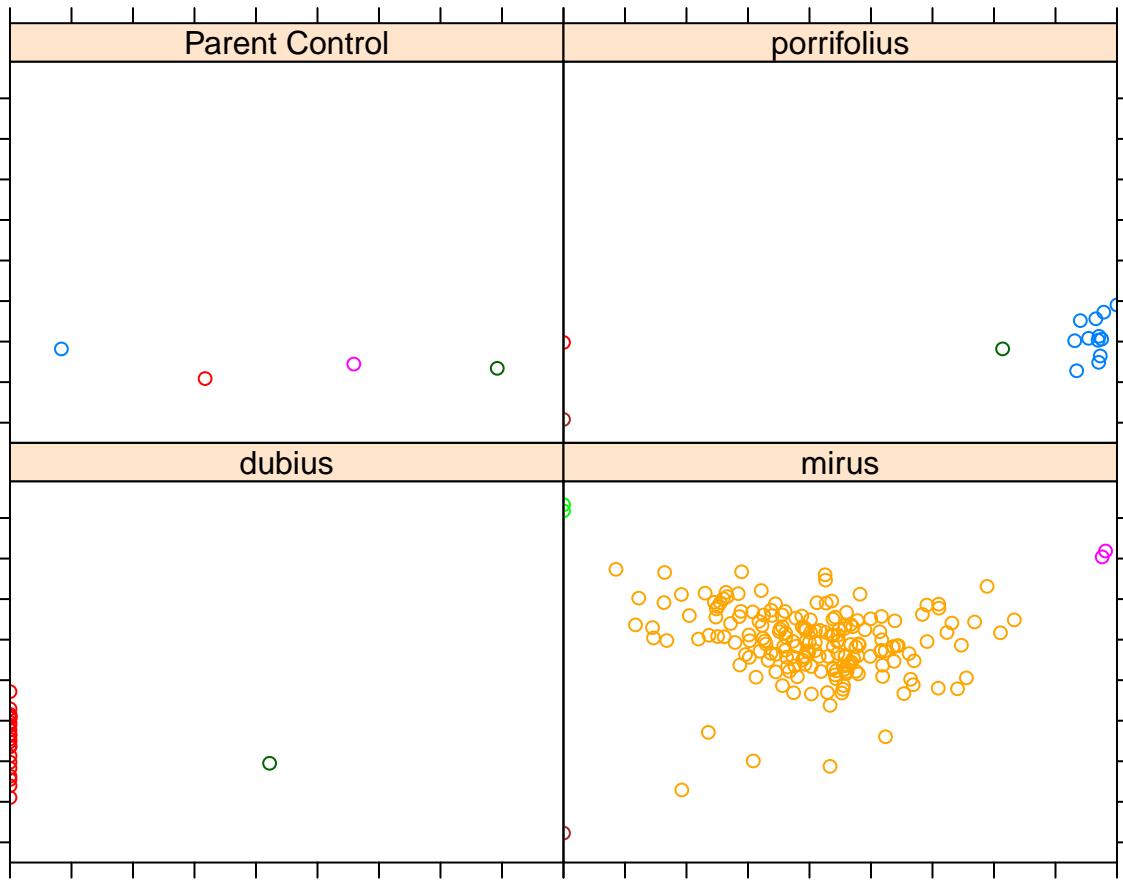
mirus

radius (arb)

80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig08872_353 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		

10 20 30 40 50 60 70 80

Parent Control

porrifolius

70
65
60
55
50
45
40
35
30
25
20
15
10

dubius

mirus

70
65
60
55
50
45
40
35
30
25
20
15
10

radius (arb)

theta (deg)

10 20 30 40 50 60 70 80

V_2_5_isotig08872_353 cDNA

Call

HH	○	LLLL	○
HHHH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		

10 20 30 40 50 60 70 80

Parent Control

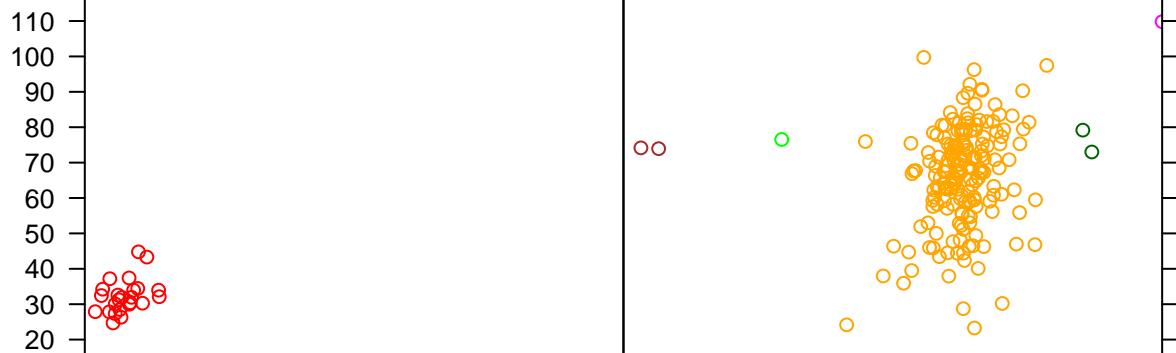
porrifolius

110
100
90
80
70
60
50
40
30
20

radius (arb)

dubius

mirus



theta (deg)

V_2_5_isotig08880_383 gDNA

Call

HH	○	LLLH	○
HHHH	○	LLLL	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

90
80
70
60
50
40
30
20
10

dubius

mirus

90
80
70
60
50
40
30
20
10

10 20 30 40 50 60 70 80

theta (deg)

radius (arb)

V_2_5_isotig08880_383 cDNA

Call

HH	○	LLLL	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

130
120
110
100
90
80
70
60
50
40
30
20

radius (arb)

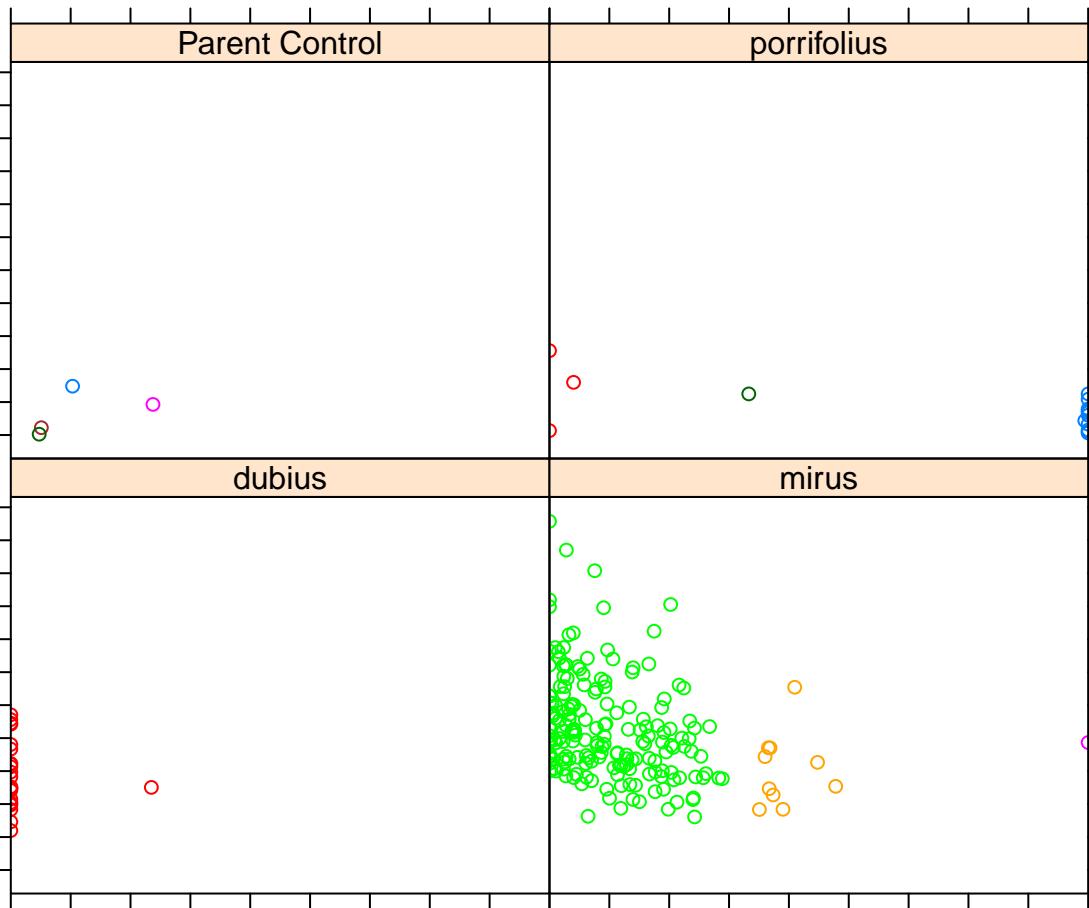
dubius

mirus

130
120
110
100
90
80
70
60
50
40
30
20

10 20 30 40 50 60 70 80

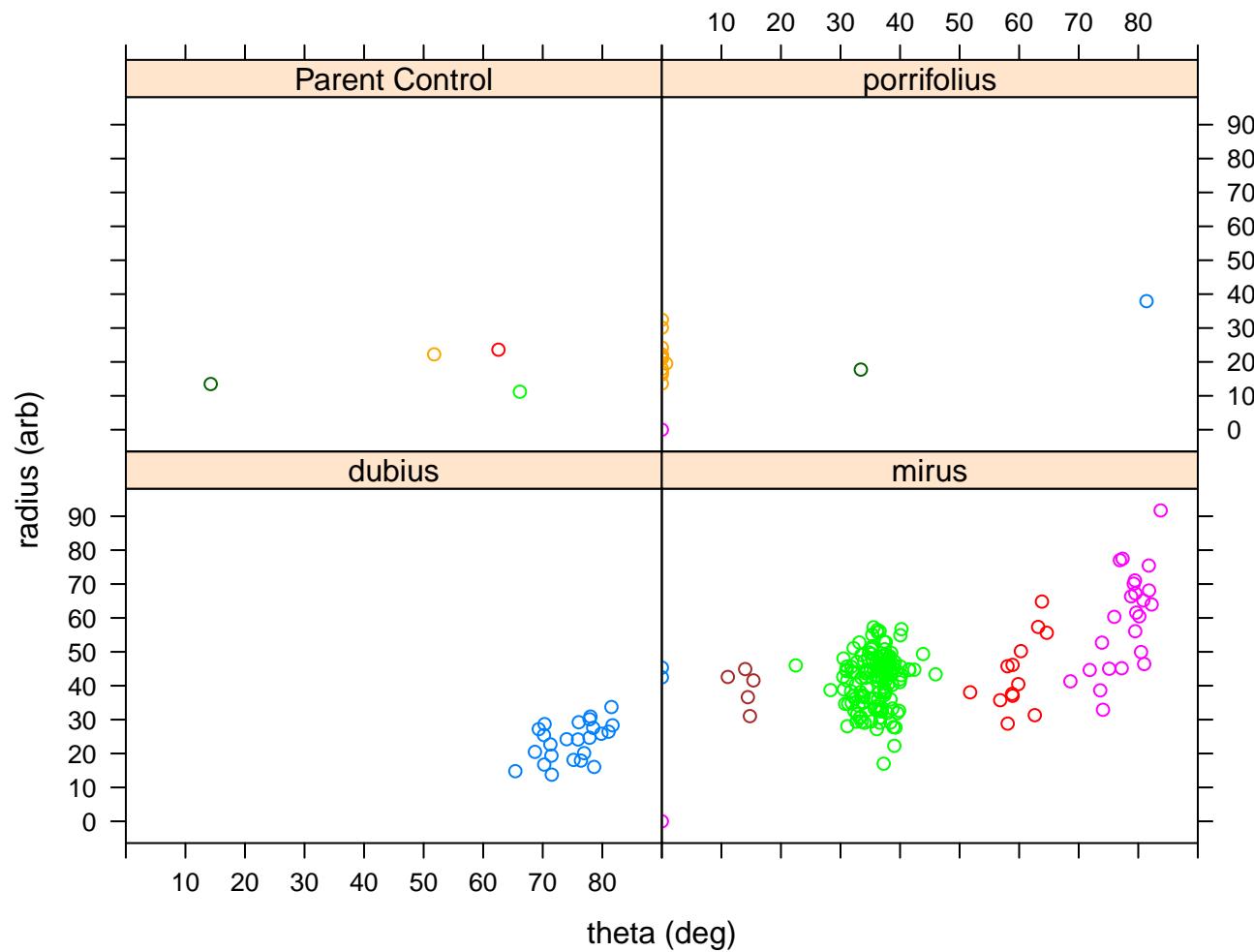
theta (deg)



V_2_5_isotig09000_234 gDNA

Call

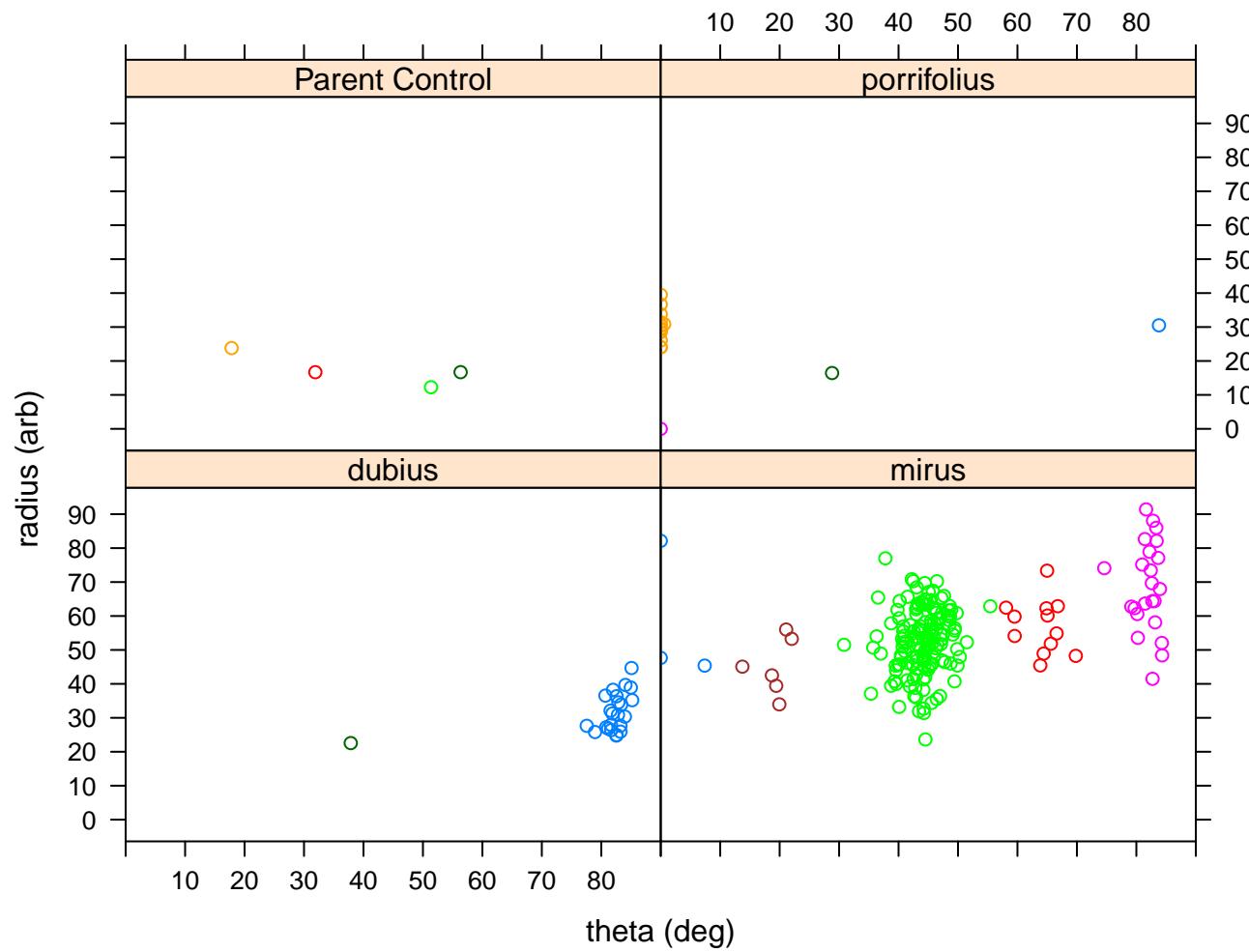
HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig09000_234 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		○



V_2_5_isotig09071_163 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

120
110
100
90
80
70
60
50
40
30
20
10
0

dubius

mirus

120
110
100
90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)

radius (arb)

V_2_5_isotig09071_163 cDNA

Call

Bad_Spectrum	○	LLLH	○
HH	○	LLLL	○
HHHH	○	No_Alleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

radius (arb)

Parent Control

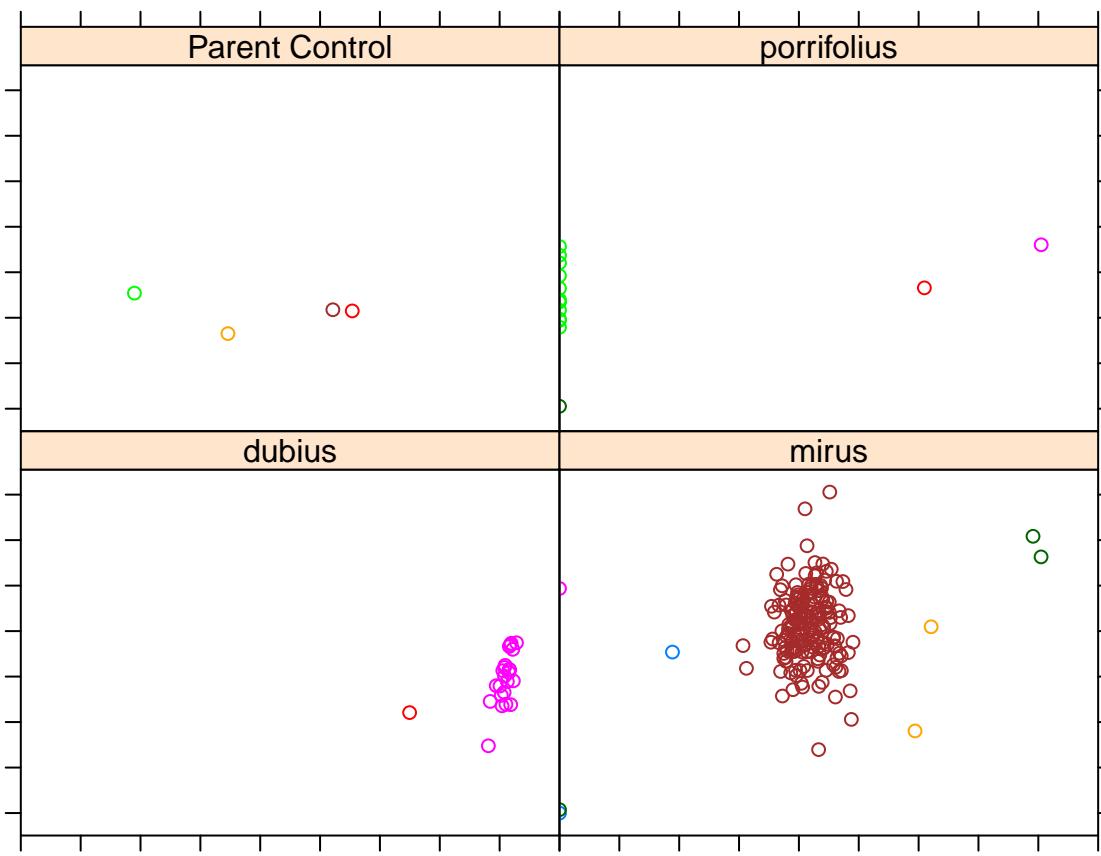
porrifolius

dubius

mirus

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig09071_313 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

90
80
70
60
50
40
30
20
10
0

dubius

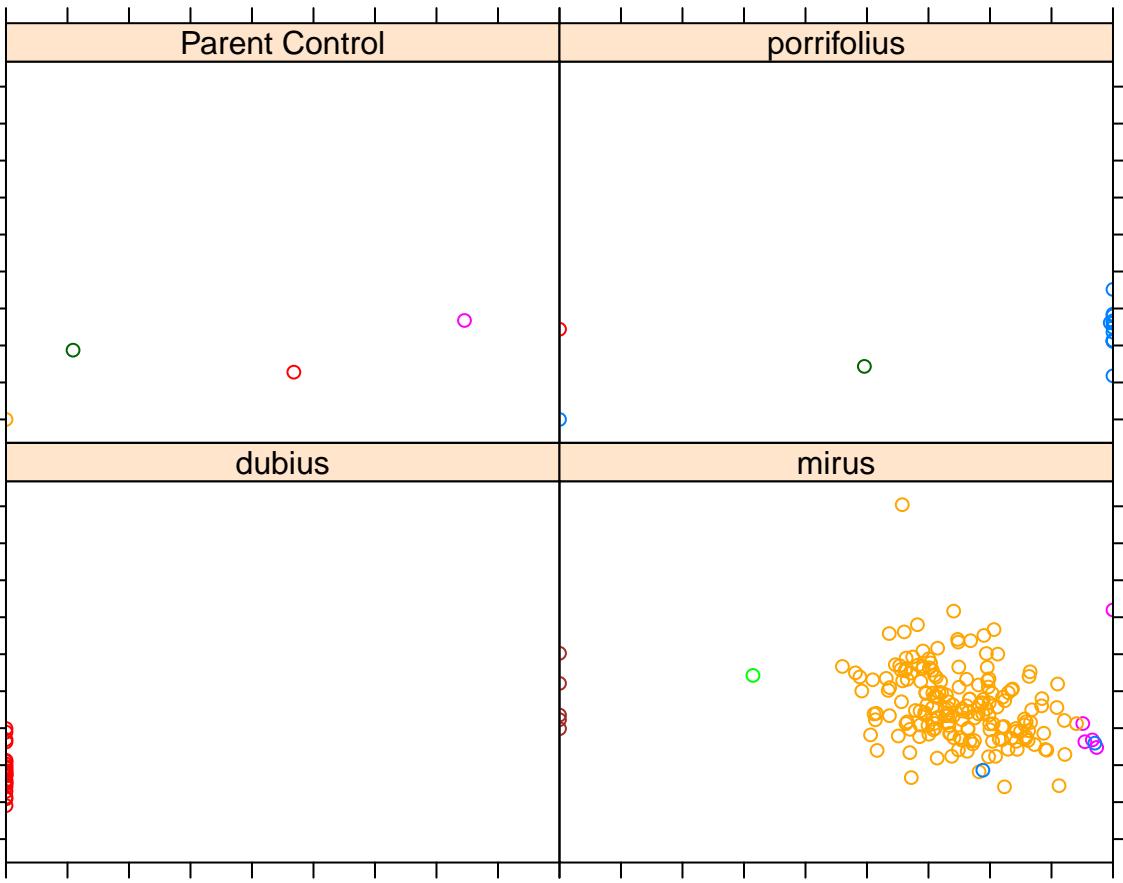
mirus

radius (arb)

90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

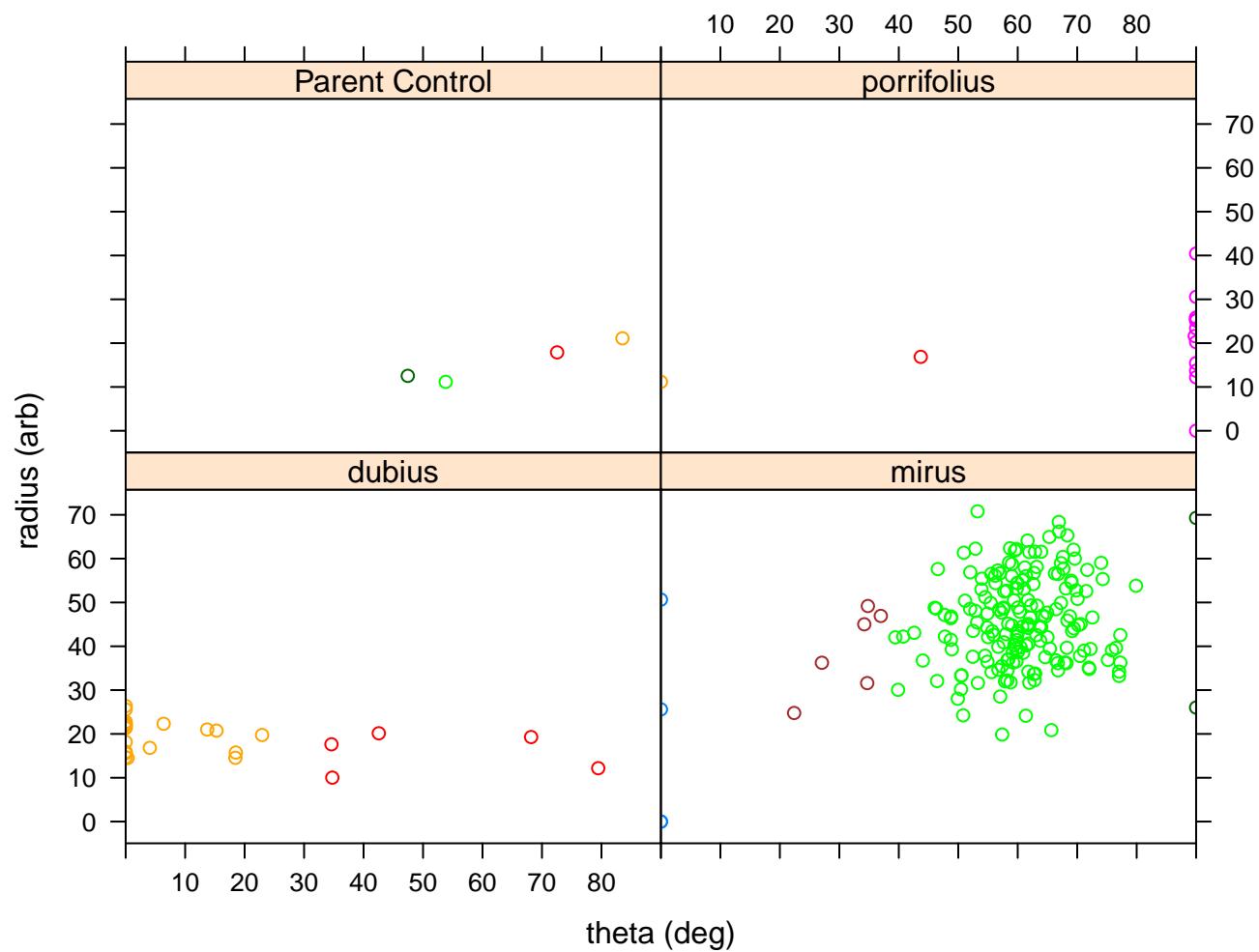
theta (deg)



V_2_5_isotig09071_313 cDNA

Call

Bad_Spectrum	○	LLLL	○
HH	○	No_Alleles	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig09163_501 cDNA

Call

HH	○	LLLL	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LHHH	○	PM2_1_2	○
LL	○	PM2_2_1	○
LLHH	○		

10 20 30 40 50 60 70 80

Parent Control

porrifolius

100
90
80
70
60
50
40
30
20

dubius

mirus

100
90
80
70
60
50
40
30
20

10 20 30 40 50 60 70 80

theta (deg)

radius (arb)

V_2_5_isotig09232_747 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

100
90
80
70
60
50
40
30
20

dubius

miscellus

radius (arb)

100
90
80
70
60
50
40
30
20

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig09232_747 cDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

110
100
90
80
70
60
50
40
30
20
10

dubius

miscellus

110
100
90
80
70
60
50
40
30
20
10

radius (arb)

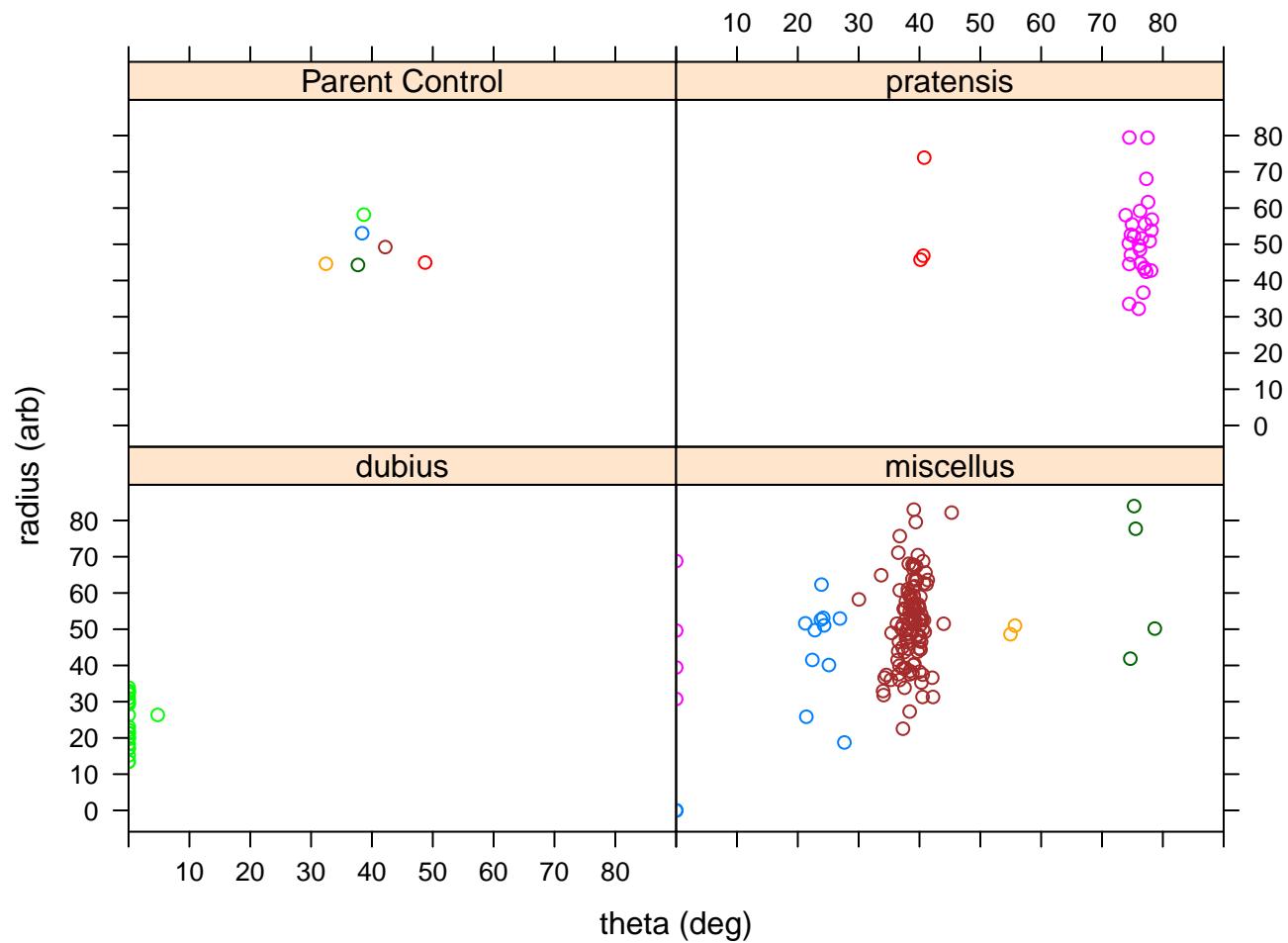
10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig09248_419 gDNA

Call

Bad_Spectrum	LLLL	Bad_Spectrum
HH	PM3_1_1	HH
HHHH	PM3_1_2	HHHH
LH	PM3_2_1	LH
LHHH	PM4	LHHH
LL	PM5	LL
LLHH	PM6	LLHH
LLLH		LLLH



V_2_5_isotig09248_419 cDNA

Call

Bad_Spectrum	LLLL
HH	No_Alleles
HHHH	PM3_1_1
LH	PM3_1_2
LHHH	PM3_2_1
LL	PM4
LLHH	PM5
LLLH	PM6

10 20 30 40 50 60 70 80

Parent Control

pratensis

90
80
70
60
50
40
30
20
10
0

dubius

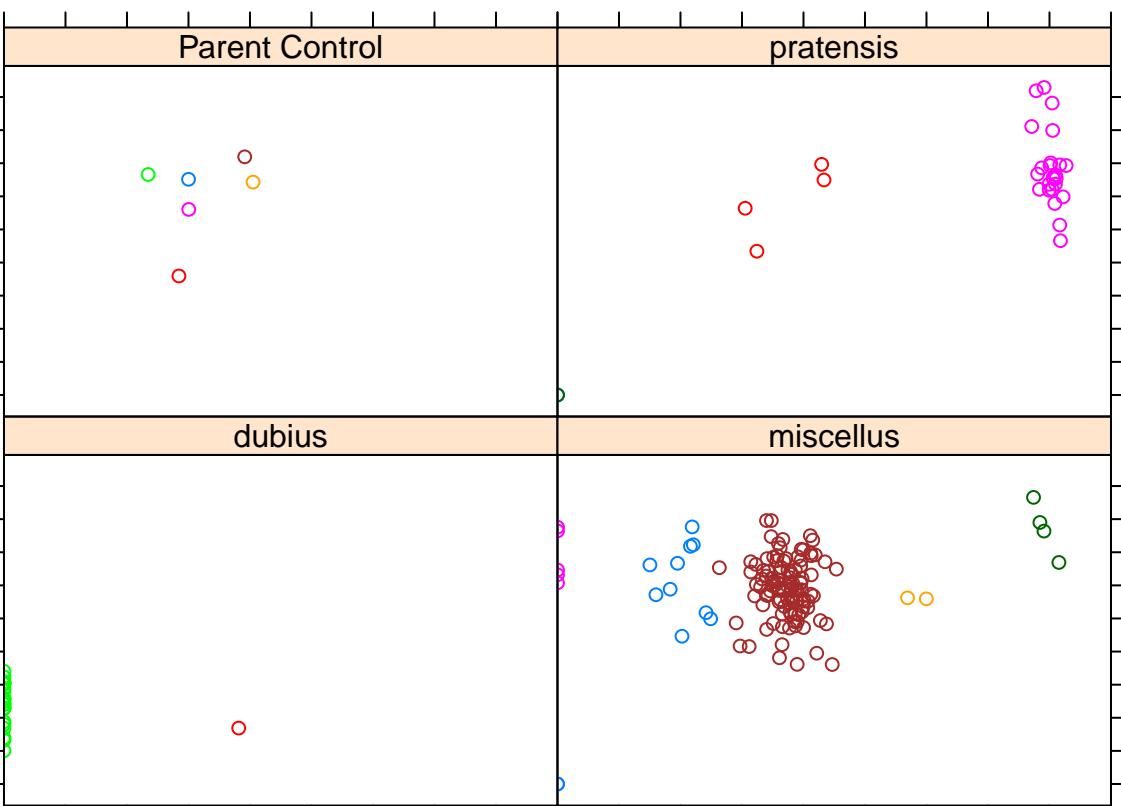
miscellus

radius (arb)

90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig09272_1048 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LHHH	○	PM3_1_2	○
LL	○	PM3_2_1	○
LLHH	○	PM4	○
LLLH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

160
140
120
100
80
60
40
20
0

dubius

miscellus

160
140
120
100
80
60
40
20
0

10 20 30 40 50 60 70 80

theta (deg)

radius (arb)

V_2_5_isotig09272_1204 cDNA

Call

Bad_Spectrum	○	No_Alleles	○
HH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

140
120
100
80
60
40
20
0

dubius

miscellus

140
120
100
80
60
40
20
0

radius (arb)

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig09272_766 gDNA

Call

Bad_Spectrum	○	No_Aleles	○
HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLLH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

80
70
60
50
40
30
20
10
0

dubius

miscellus

80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

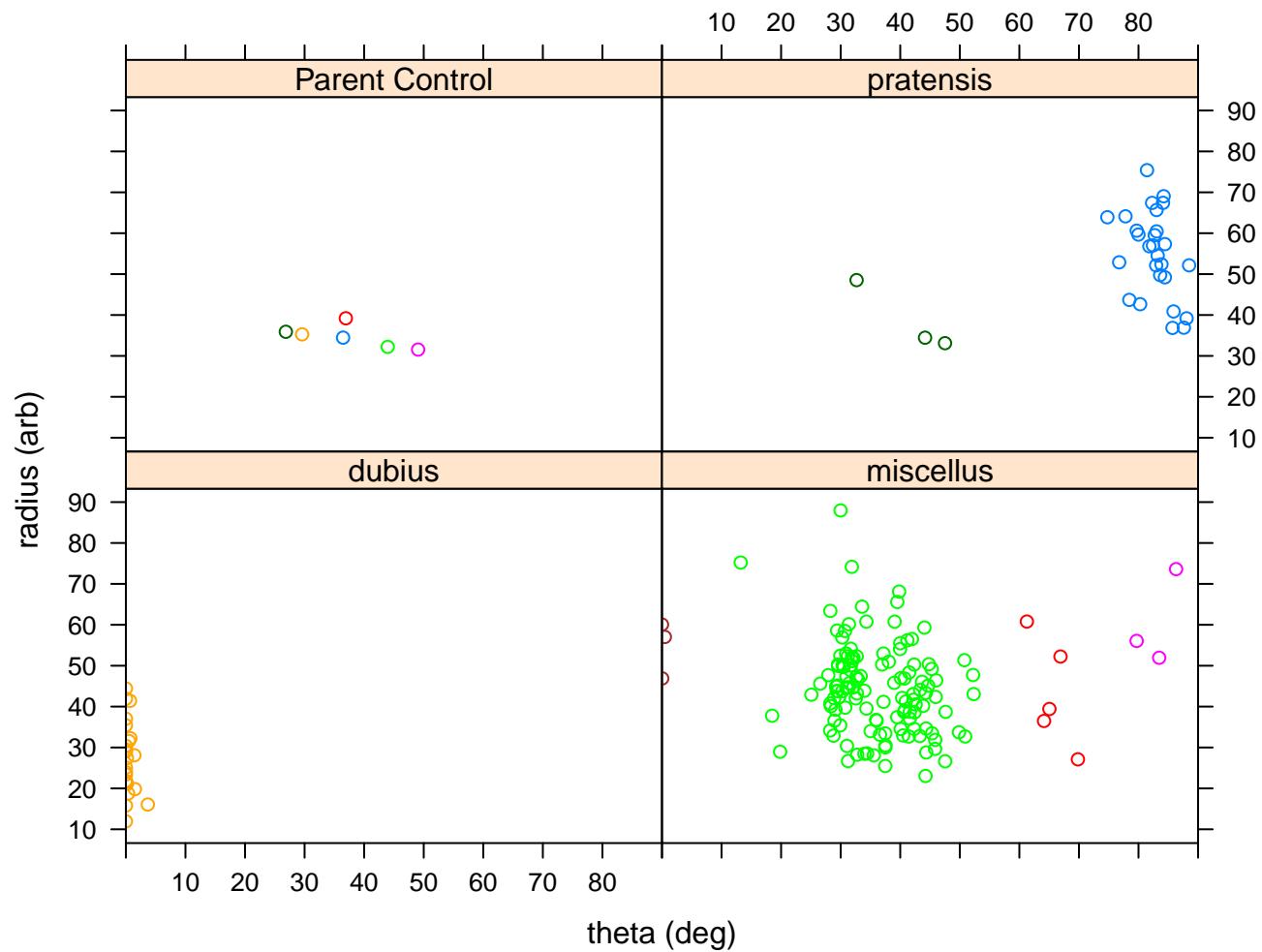
theta (deg)

radius (arb)

V_2_5_isotig09272_919 gDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LHHH	○	PM4	○
LL	○	PM5	○
LLHH	○	PM6	○
LLLL	○		



V_2_5_isotig09272_919 cDNA

Call

Bad_Spectrum	LLLL	Bad_Spectrum	LLLL
HH	PM3_1_1	HH	PM3_1_1
HHHH	PM3_1_2	HHHH	PM3_1_2
LH	PM3_2_1	LH	PM3_2_1
LHHH	PM4	LHHH	PM4
LL	PM5	LL	PM5
LLLH	PM6	LLLH	PM6

10 20 30 40 50 60 70 80

Parent Control

pratensis

radius (arb)

120
100
80
60
40
20
0

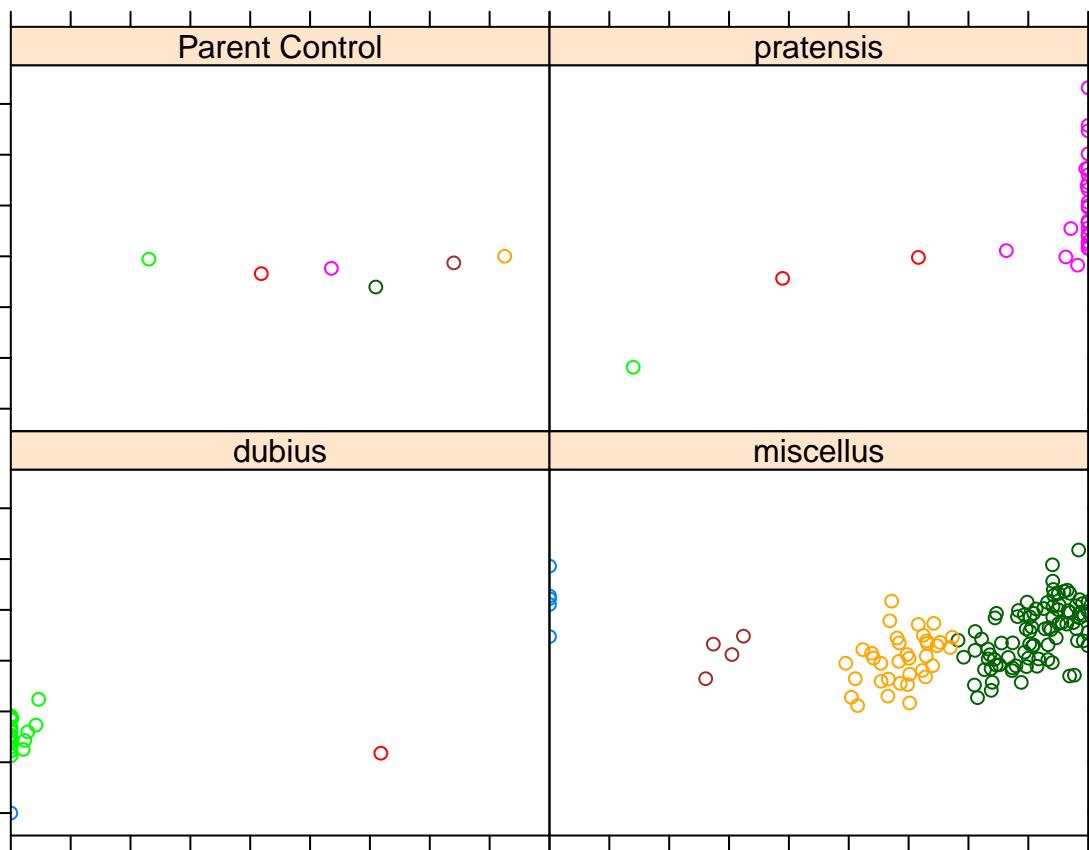
dubius

miscellus

120
100
80
60
40
20
0

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig09273_1131 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

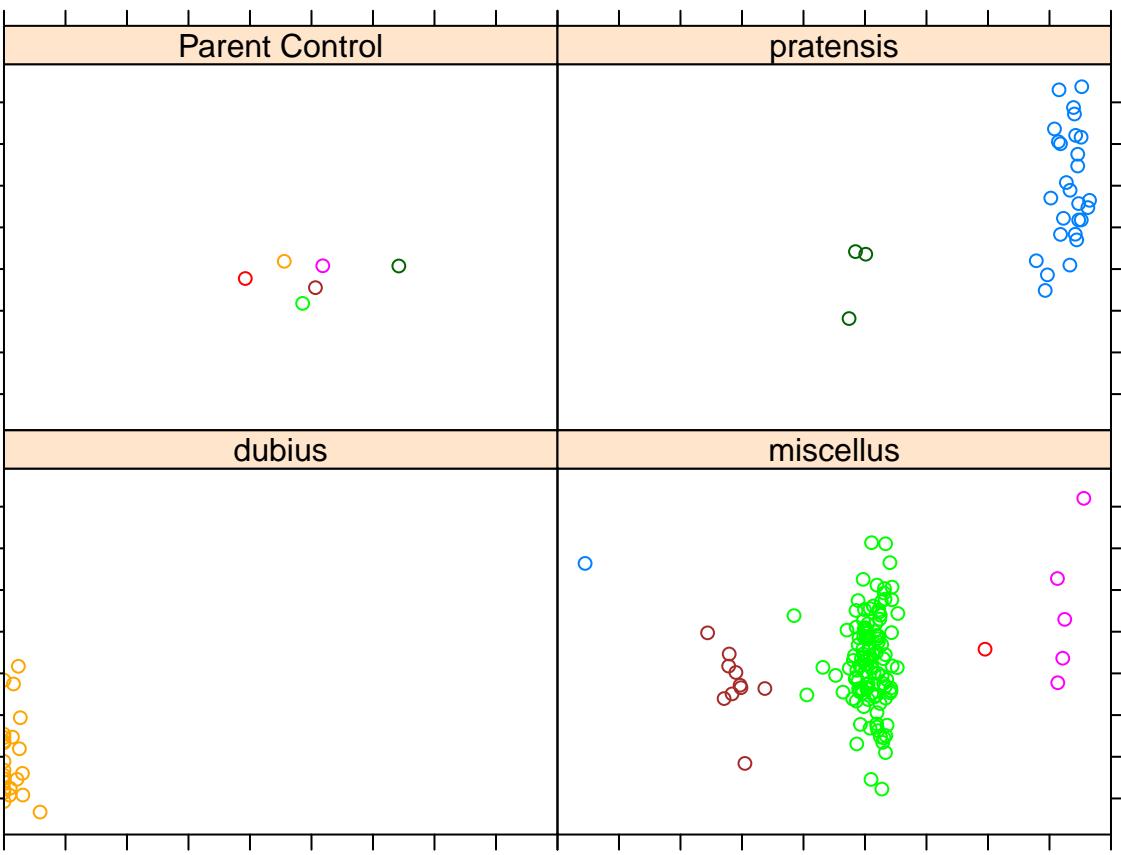
90
80
70
60
50
40
30
20

dubius

miscellus

radius (arb)

theta (deg)



V_2_5_isotig09273_1131 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

radius (arb)

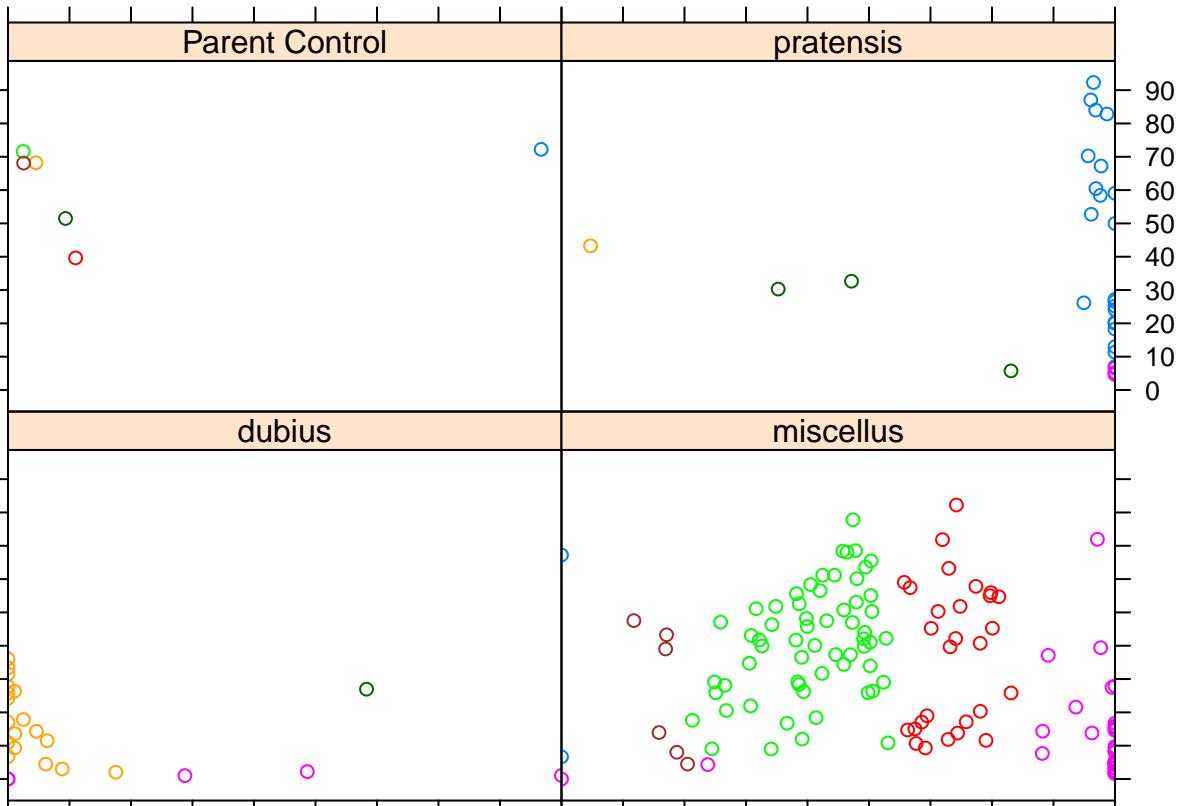
90
80
70
60
50
40
30
20
10
0

dubius

miscellus

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig09273_208 gDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

45
40
35
30
25
20
15
10
5
0

radius (arb)

dubius

miscellus

45
40
35
30
25
20
15
10
5
0

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig09273_208 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

60
50
40
30
20
10
0

dubius

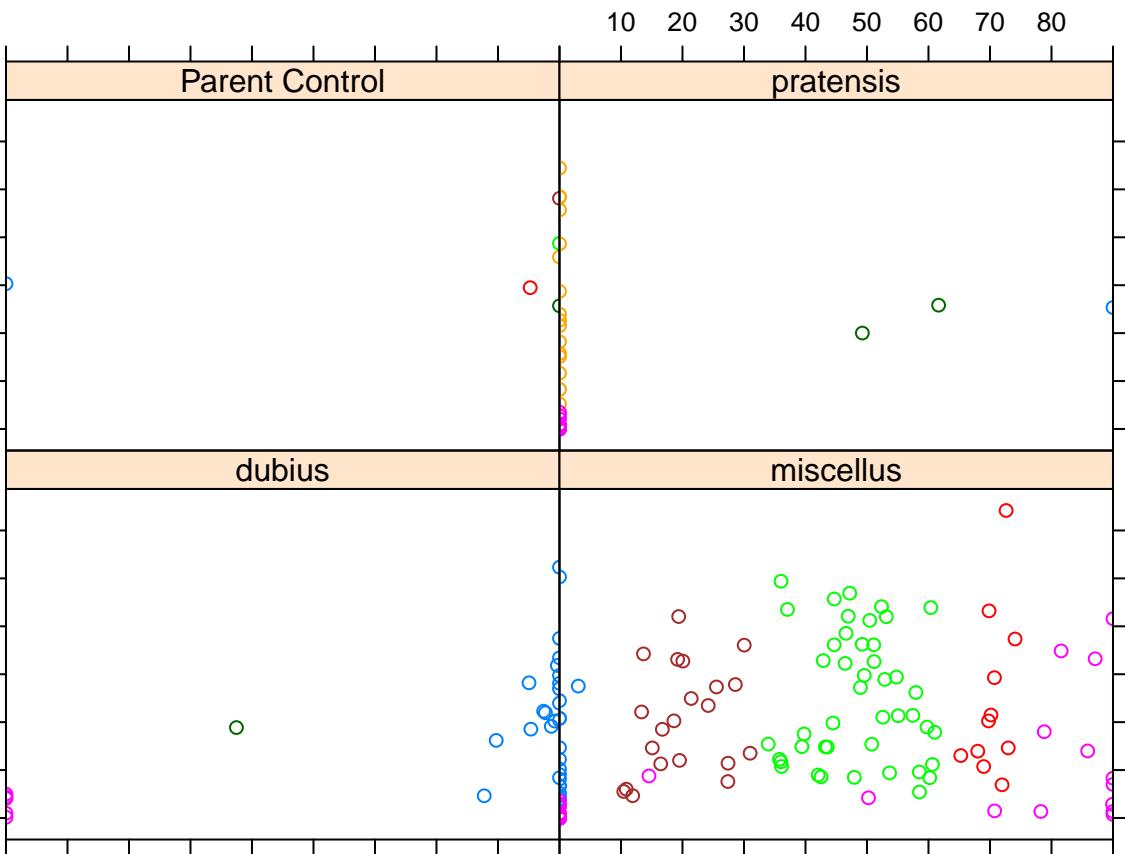
miscellus

radius (arb)

60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)

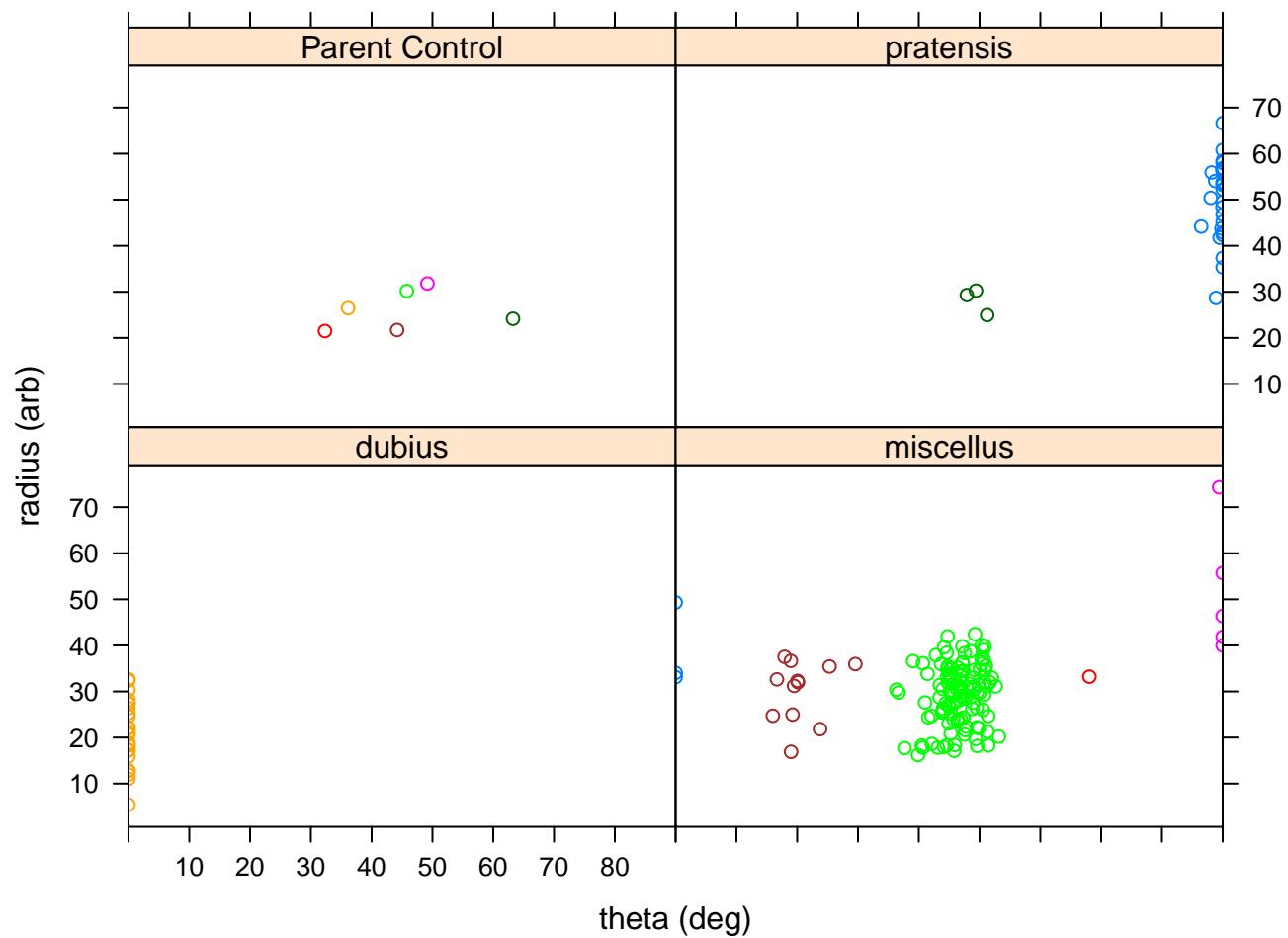


V_2_5_isotig09273_546 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80



V_2_5_isotig09273_546 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

60
50
40
30
20
10
0

dubius

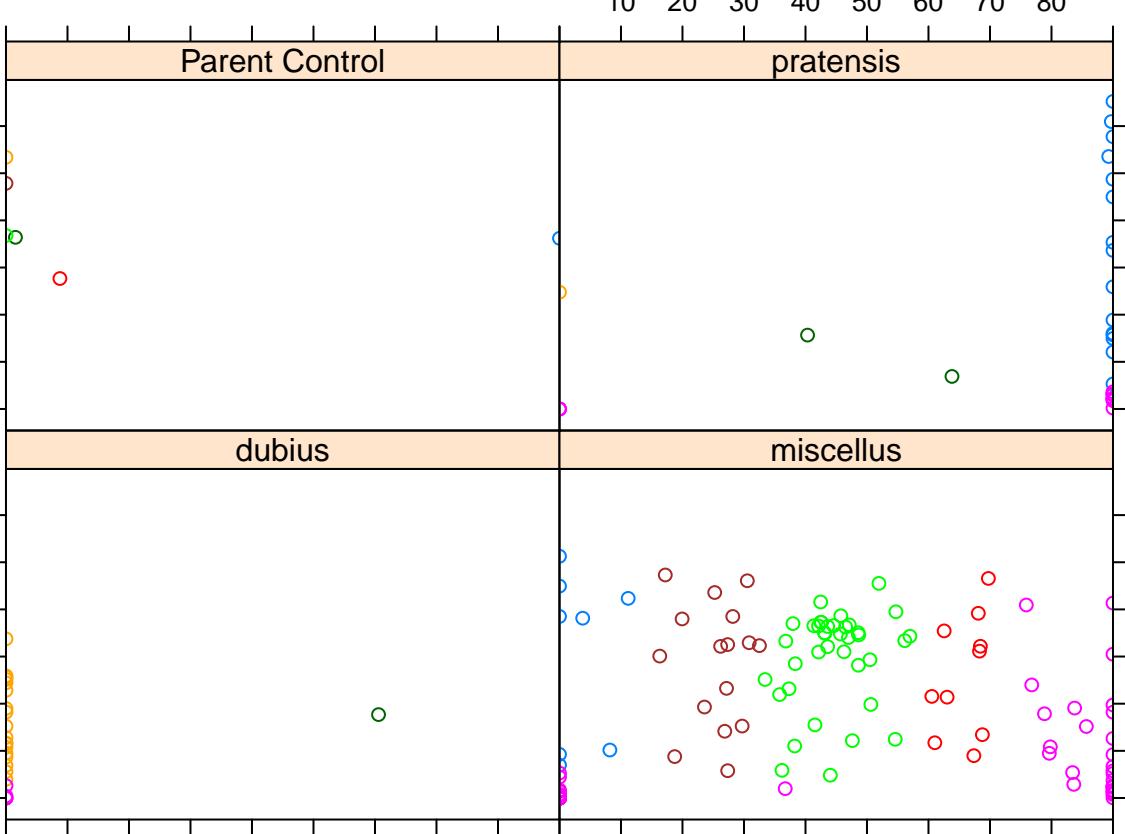
miscellus

radius (arb)

60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig09273_795 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

140
130
120
110
100
90
80
70
60
50
40
30
20

dubius

miscellus

140
130
120
110
100
90
80
70
60
50
40
30
20

10 20 30 40 50 60 70 80

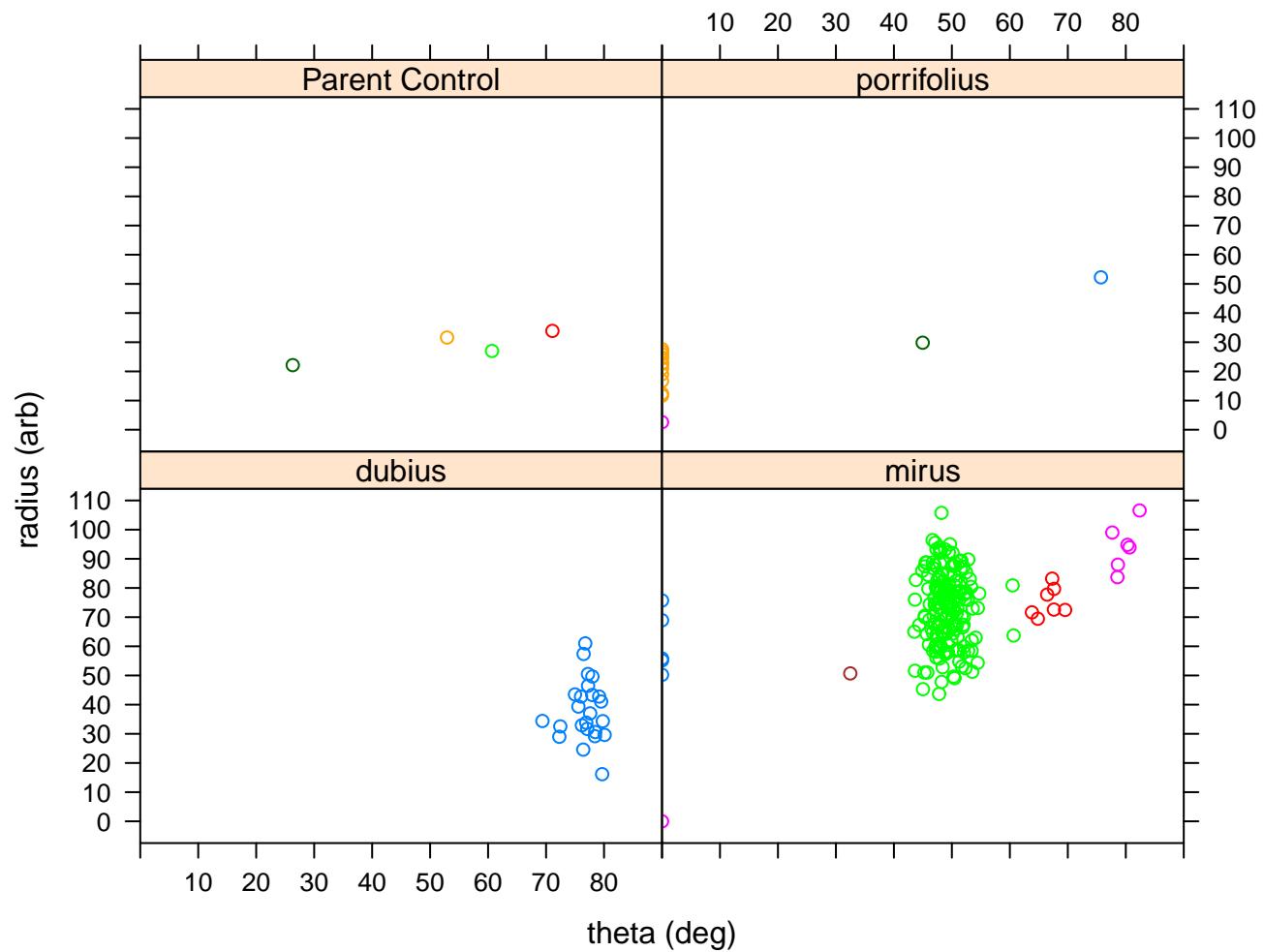
theta (deg)

radius (arb)

V_2_5_isotig09273_849 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig09273_849 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LHHH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

120
110
100
90
80
70
60
50
40
30
20
10
0

dubius

mirus

120
110
100
90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

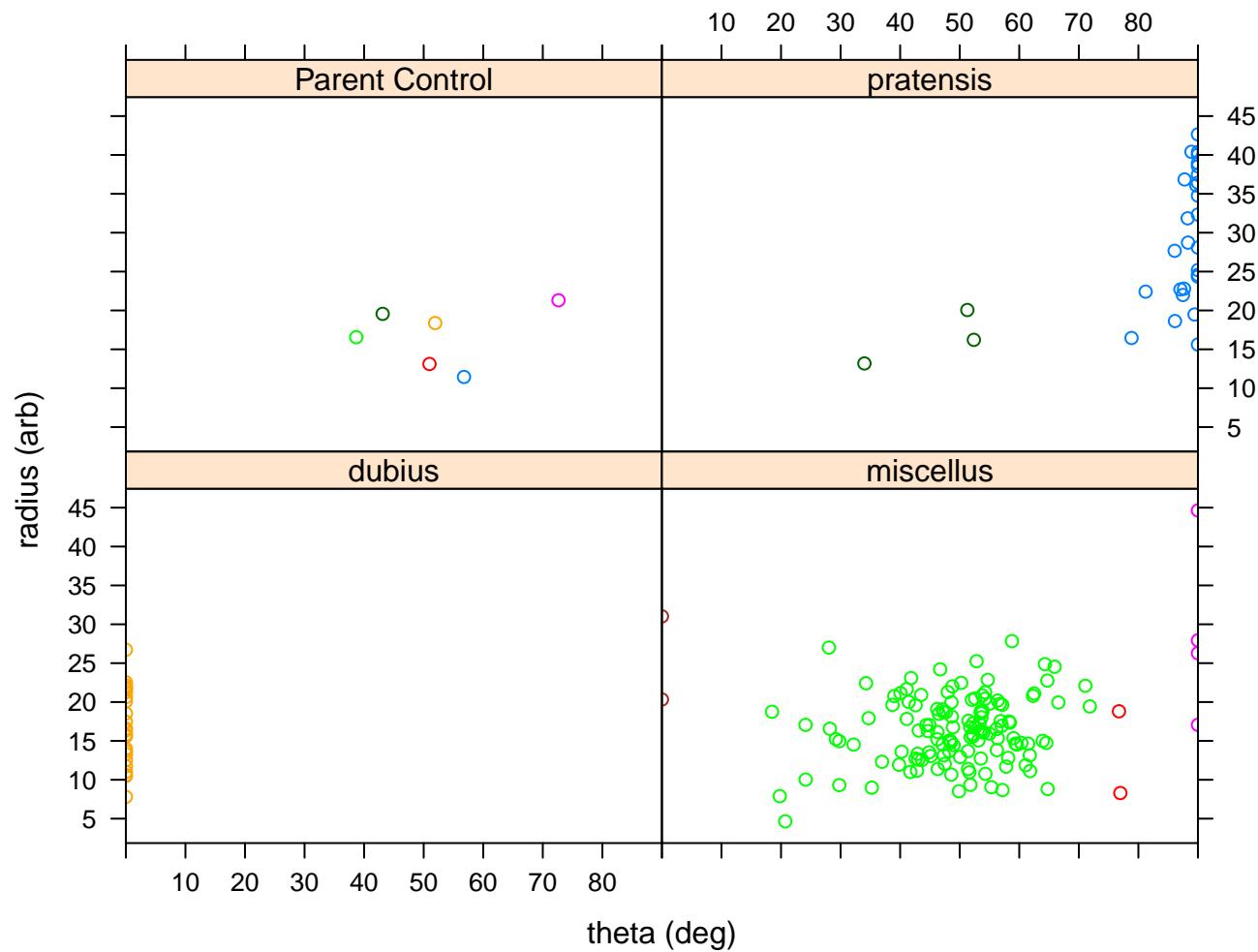
theta (deg)

radius (arb)

V_2_5_isotig09303_973 gDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LHHH	○	PM4	○
LL	○	PM5	○
LLHH	○	PM6	○
LLLL	○		



V_2_5_isotig09303_973 cDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

radius (arb)

60
55
50
45
40
35
30
25
20
15
10

dubius

miscellus

60
55
50
45
40
35
30
25
20
15
10

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig09318_939 gDNA

Call

HH	○	LLLH	○
HHHH	○	LLLL	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

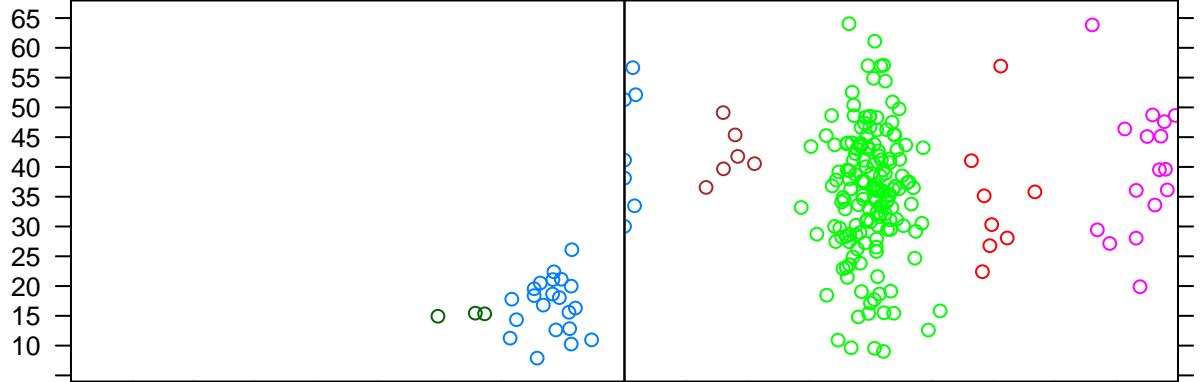
porrifolius

65
60
55
50
45
40
35
30
25
20
15
10

dubius

mirus

radius (arb)



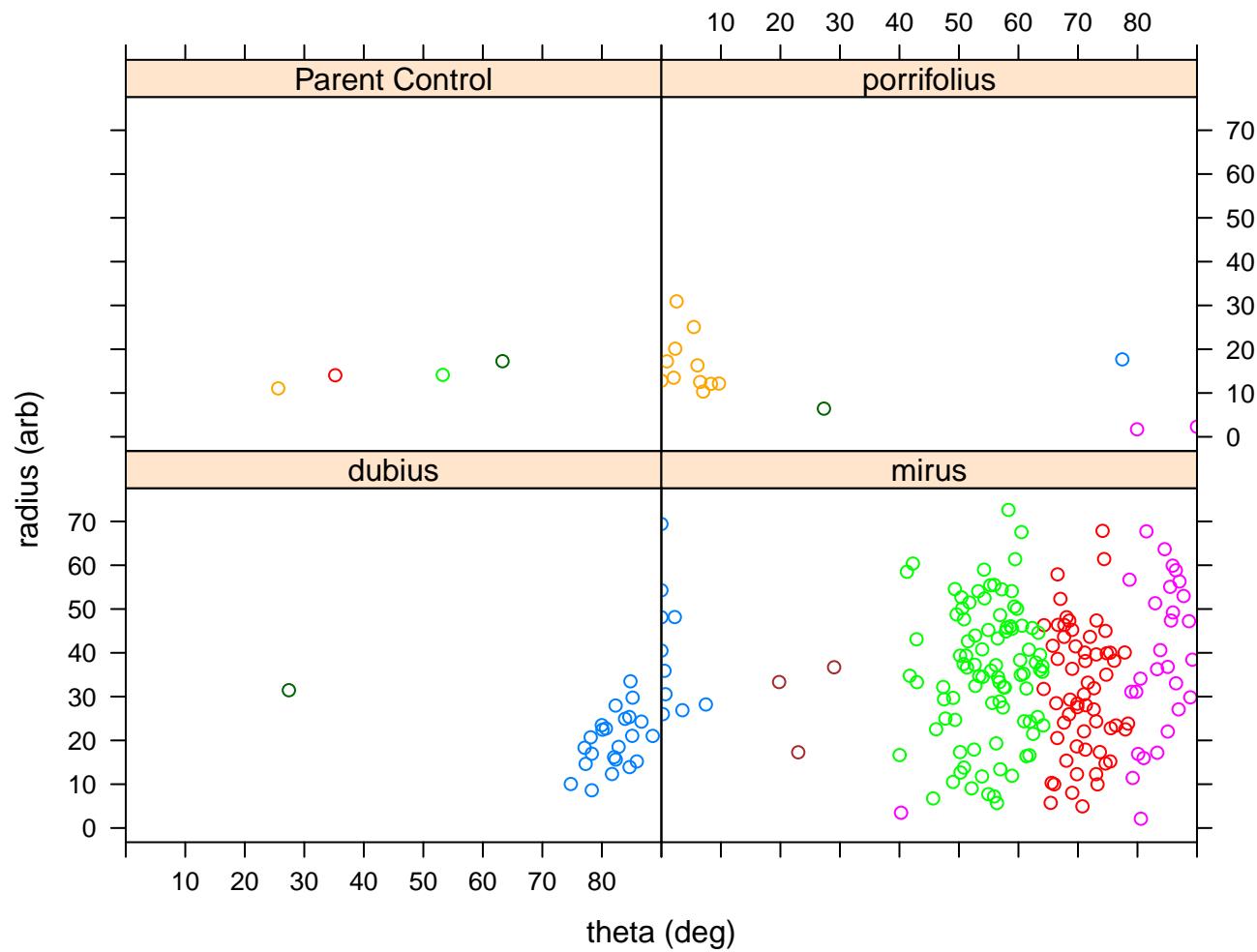
10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig09318_939 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		○



V_2_5_isotig09334_203 cDNA

Call

Bad_Spectrum	LLLL	○	○
HH	PM1	○	○
HHHH	PM2_1_1	○	○
LL	PM2_1_2	○	○
LLHH	PM2_2_1	○	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

140
120
100
80
60
40
20
0

dubius

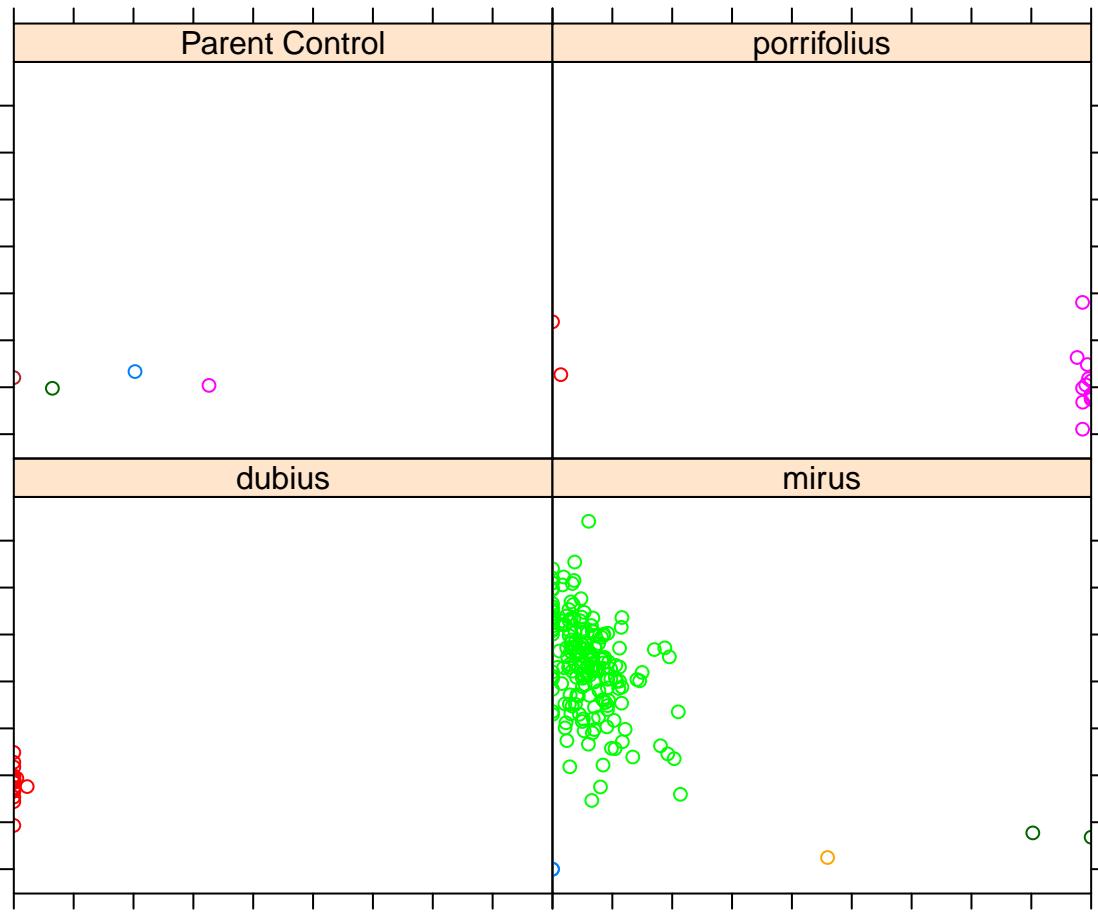
mirus

radius (arb)

140
120
100
80
60
40
20
0

10 20 30 40 50 60 70 80

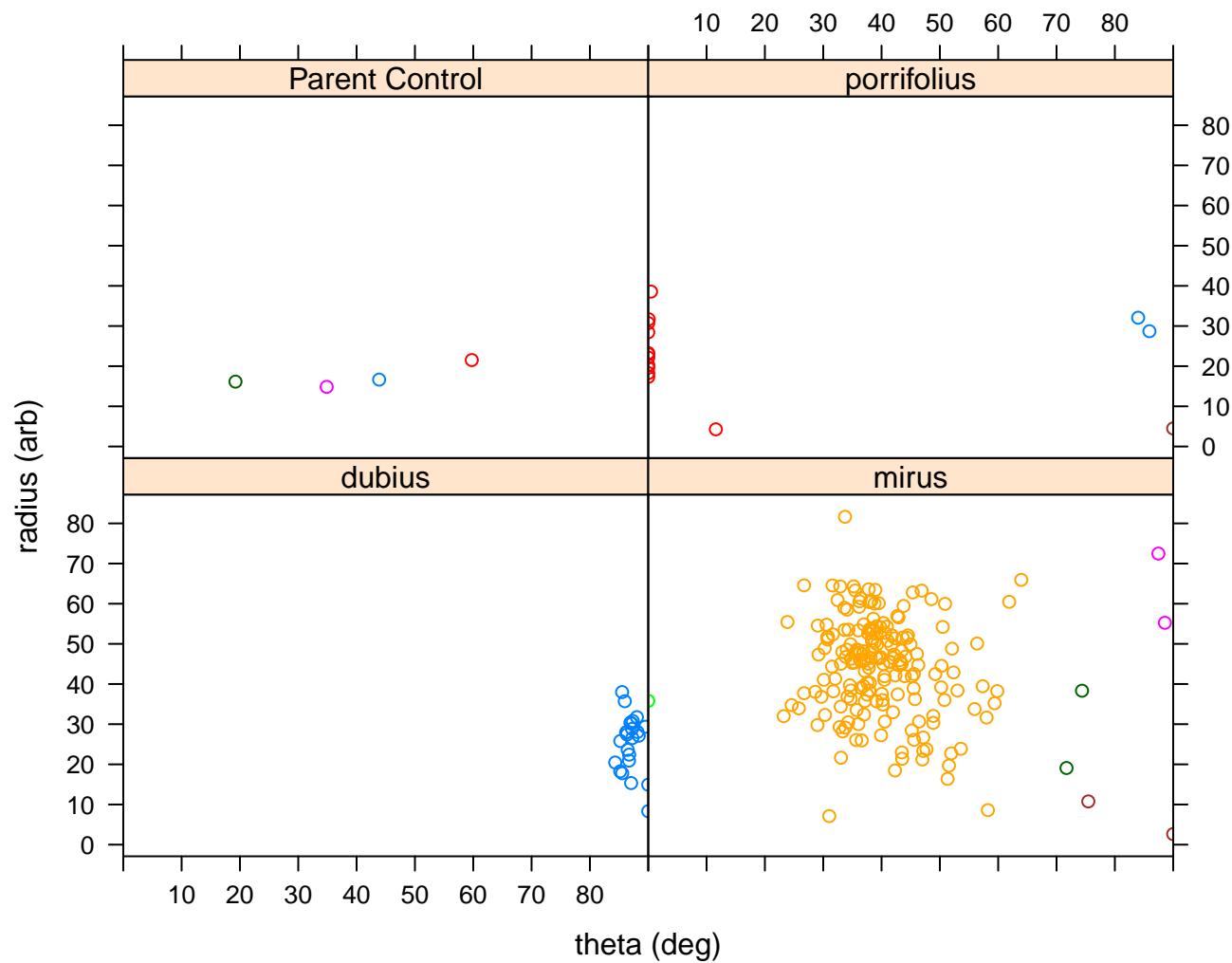
theta (deg)



V_2_5_isotig09349_34 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLL	○		



V_2_5_isotig09387_860 gDNA

Call

HH	○	LLLH	○
HHHH	○	LLLL	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

130
120
110
100
90
80
70
60
50
40
30
20
10

dubius

mirus

130
120
110
100
90
80
70
60
50
40
30
20
10

10 20 30 40 50 60 70 80

theta (deg)

radius (arb)

V_2_5_isotig09387_860 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		

10 20 30 40 50 60 70 80

Parent Control

porrifolius

60
55
50
45
40
35
30
25
20
15
10
5
0

dubius

mirus

60
55
50
45
40
35
30
25
20
15
10
5
0

10 20 30 40 50 60 70 80

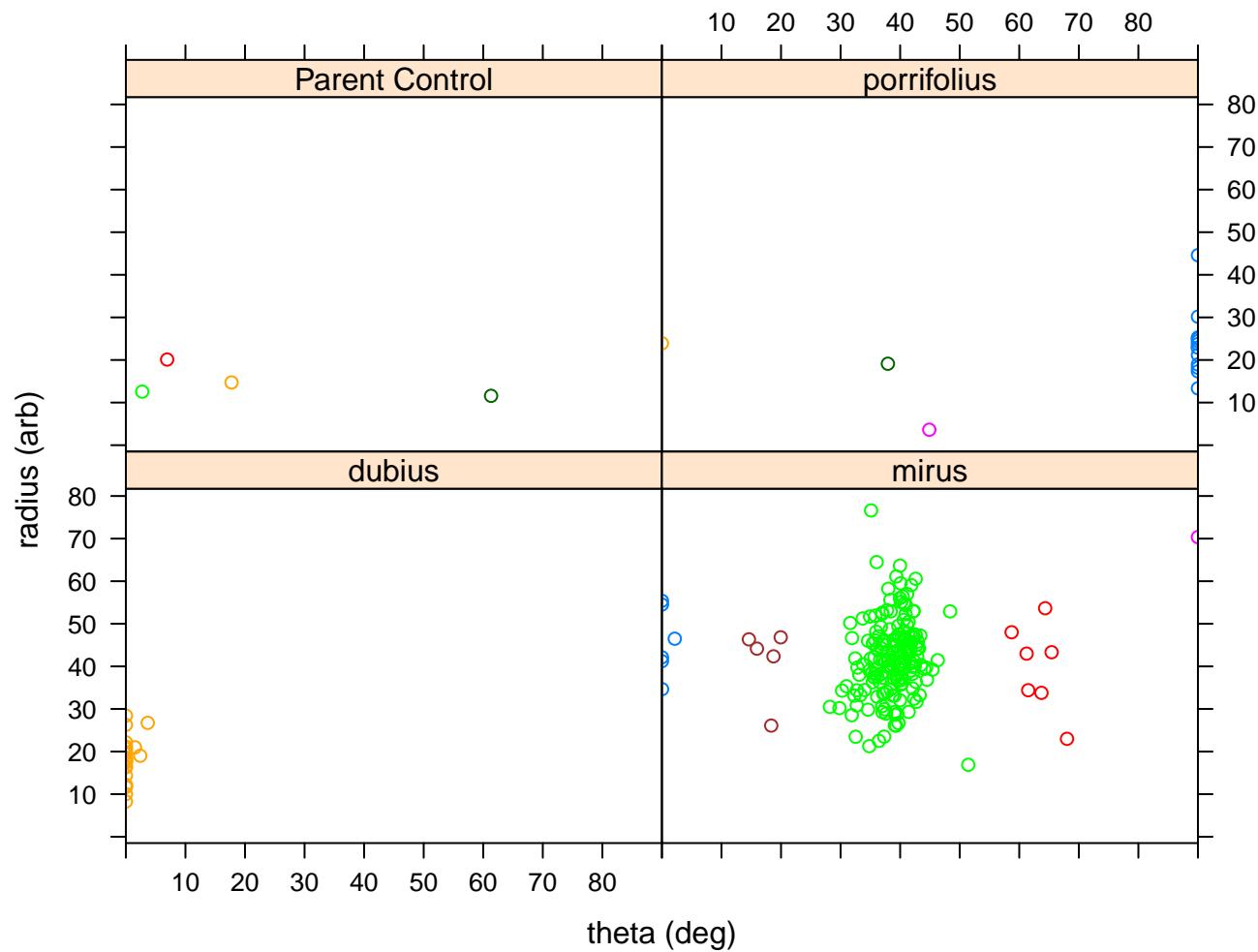
theta (deg)

radius (arb)

V_2_5_isotig09406_1122 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig09406_1122 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LHHH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

radius (arb)

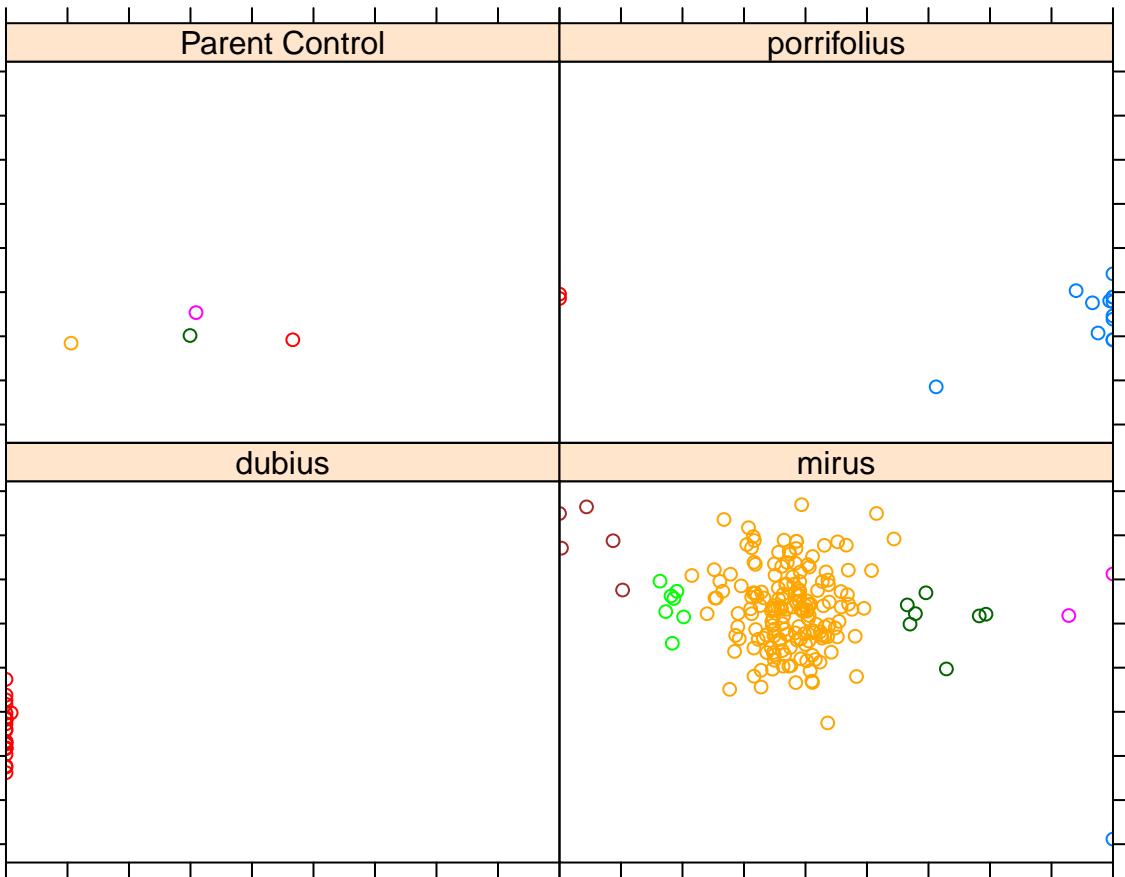
80
70
60
50
40
30
20
10
0

dubius

mirus

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig09485_1108 gDNA

Call

HH	○	LLLH	○
HHHH	○	LLLL	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

radius (arb)

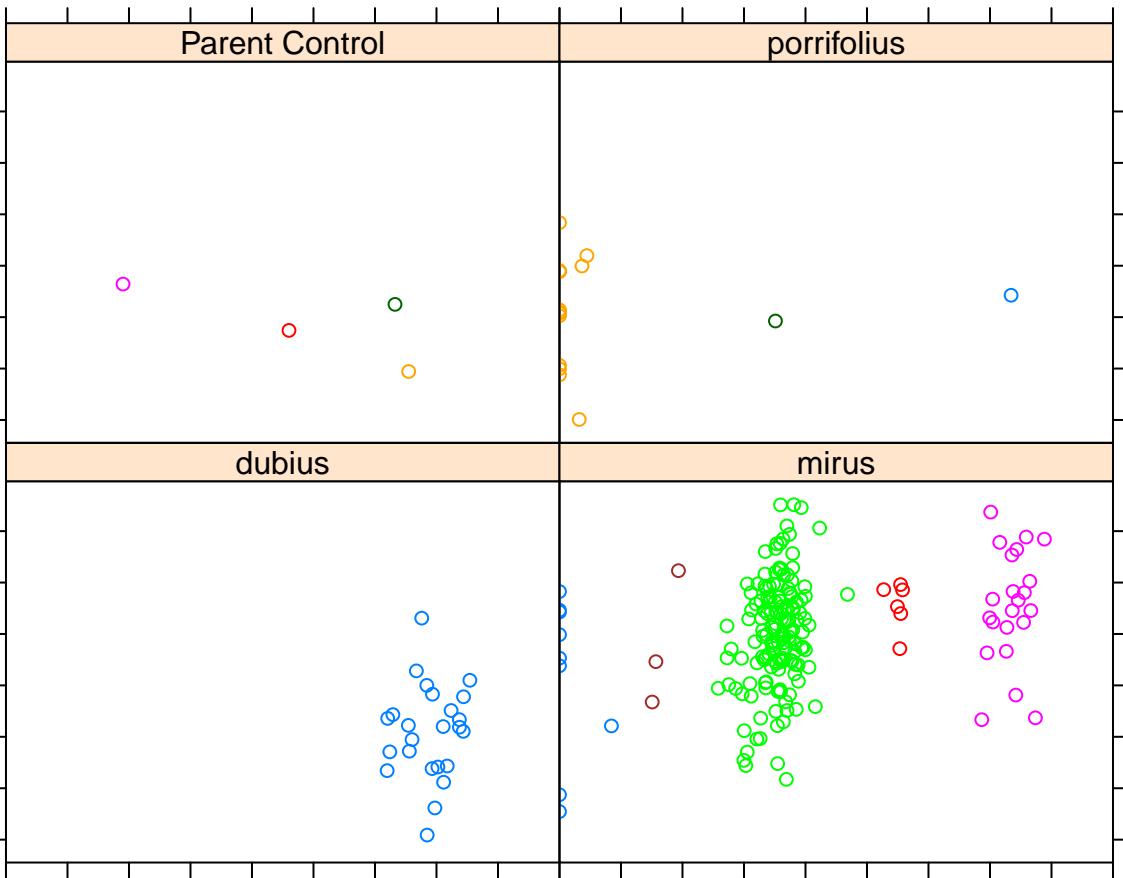
70
60
50
40
30
20
10

dubius

mirus

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig09485_1108 cDNA

Call

HH	○	LLLL	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

100
90
80
70
60
50
40
30
20
10

dubius

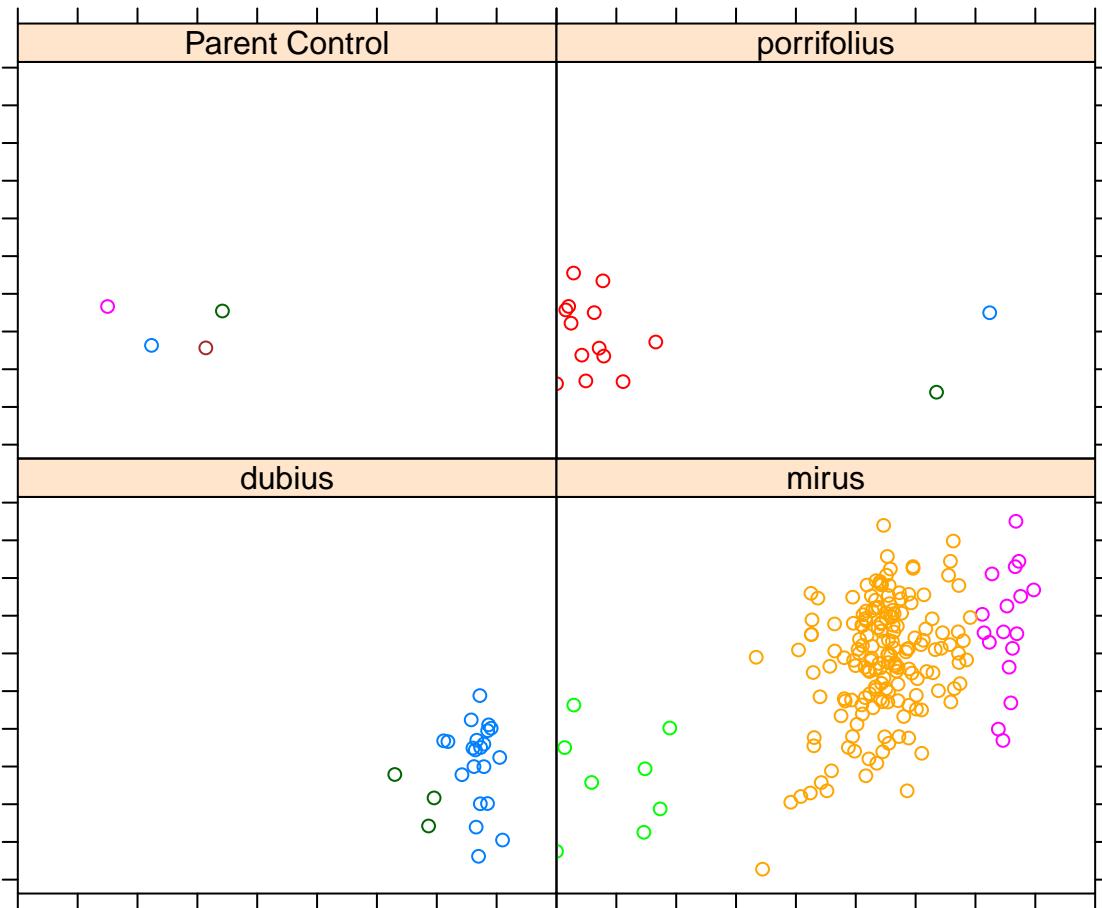
mirus

radius (arb)

100
90
80
70
60
50
40
30
20
10

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig09490_1178 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

radius (arb)

dubius

miscellus

160
140
120
100
80
60
40
20

10 20 30 40 50 60 70 80

theta (deg)

160
140
120
100
80
60
40
20

V_2_5_isotig09490_1178 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

160
140
120
100
80
60
40
20
0

dubius

miscellus

radius (arb)

160
140
120
100
80
60
40
20
0

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig09548_292 gDNA

Call

HH	○	LLLH	○
HHHH	○	LLLL	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

160
140
120
100
80
60
40
20
0

dubius

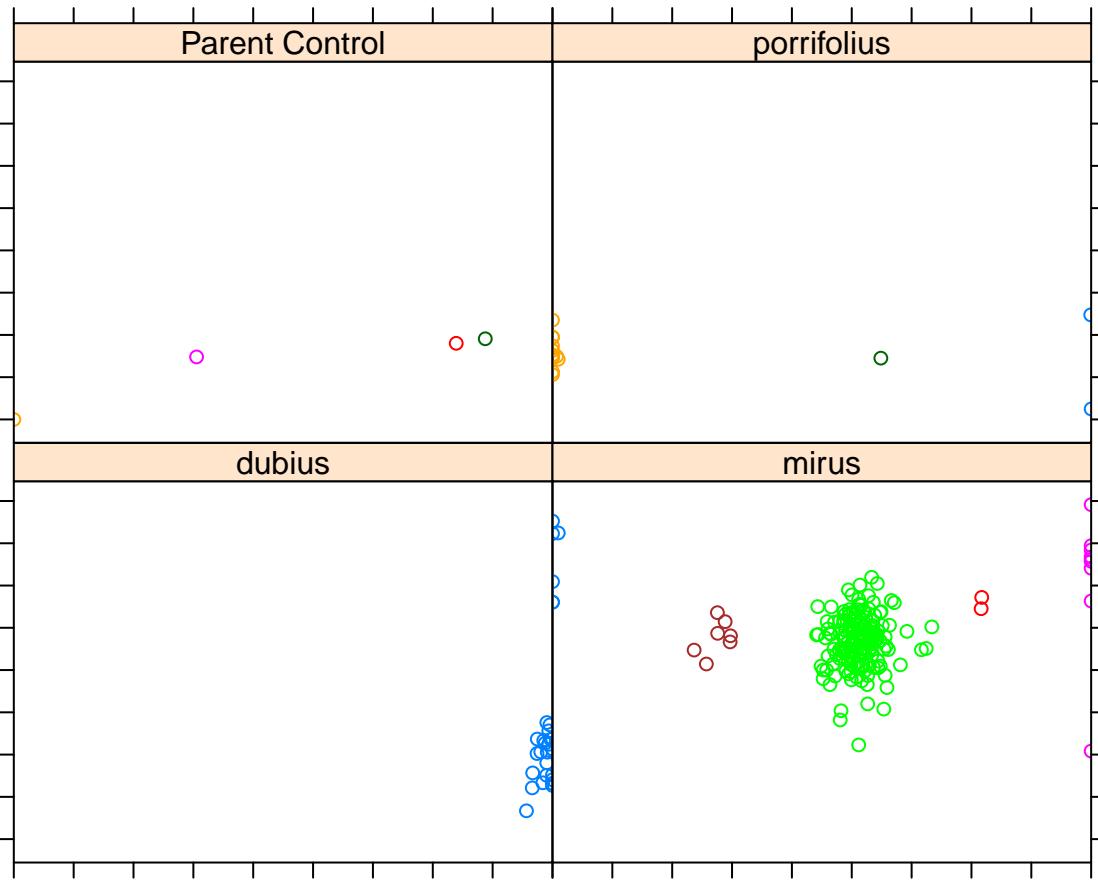
mirus

160
140
120
100
80
60
40
20
0

10 20 30 40 50 60 70 80

theta (deg)

radius (arb)



V_2_5_isotig09548_292 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LHHH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

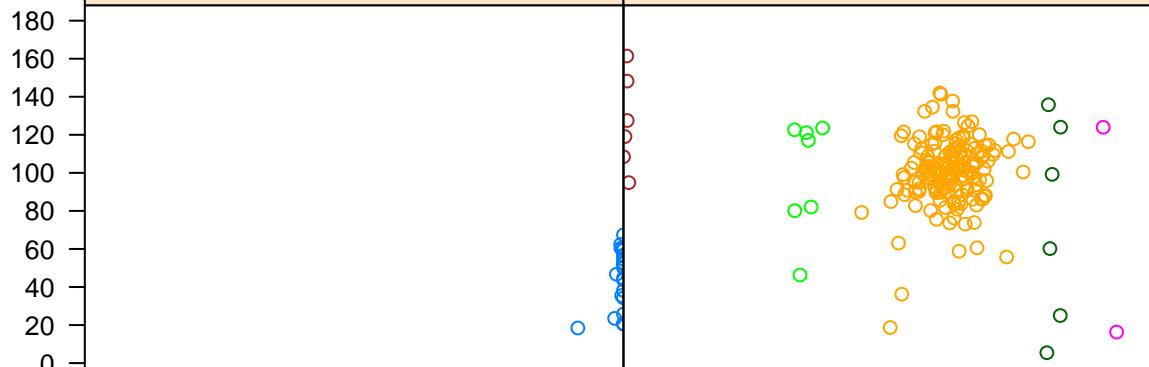
Parent Control

porrifolius

180
160
140
120
100
80
60
40
20
0

dubius

mirus



theta (deg)

V_2_5_isotig09558_858 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

130
120
110
100
90
80
70
60
50
40
30
20

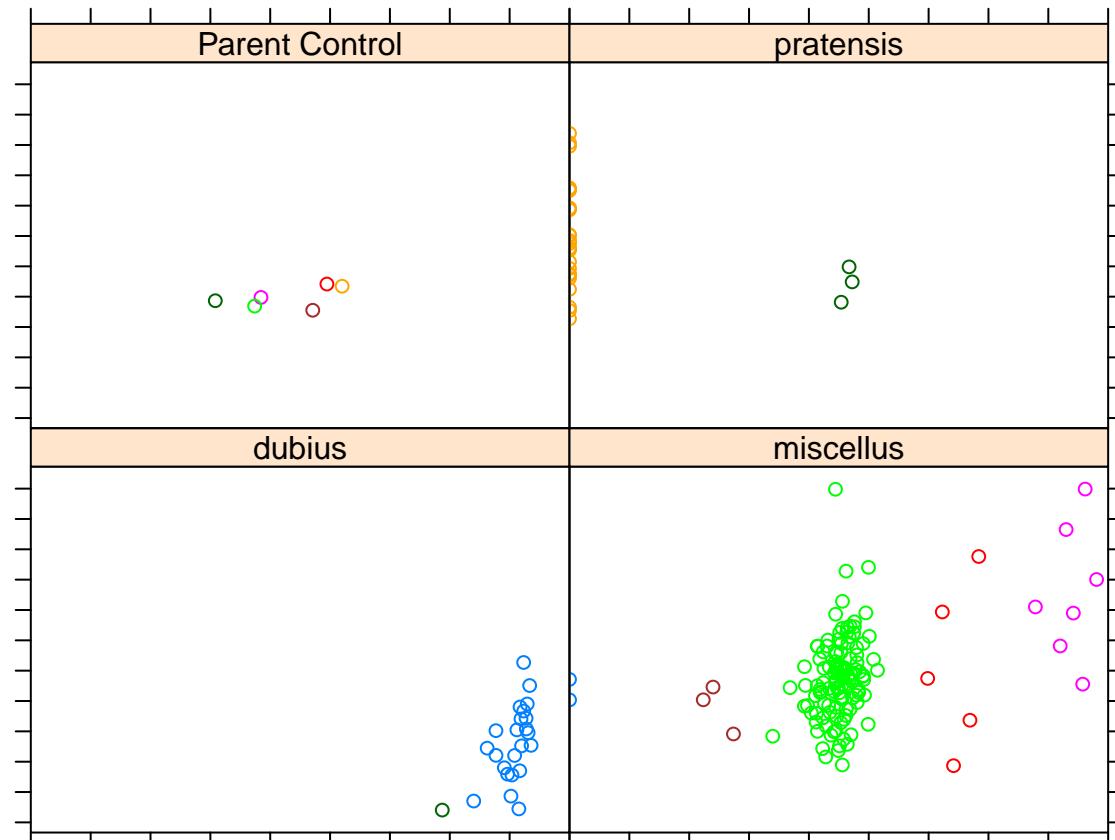
dubius

miscellus

radius (arb)

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig09558_858 cDNA

Call

Bad_Spectrum	LLLL
HH	No_Alleles
HHHH	PM3_1_1
LH	PM3_1_2
LHHH	PM3_2_1
LL	PM4
LLHH	PM5
LLLH	PM6

10 20 30 40 50 60 70 80

Parent Control

pratensis

radius (arb)

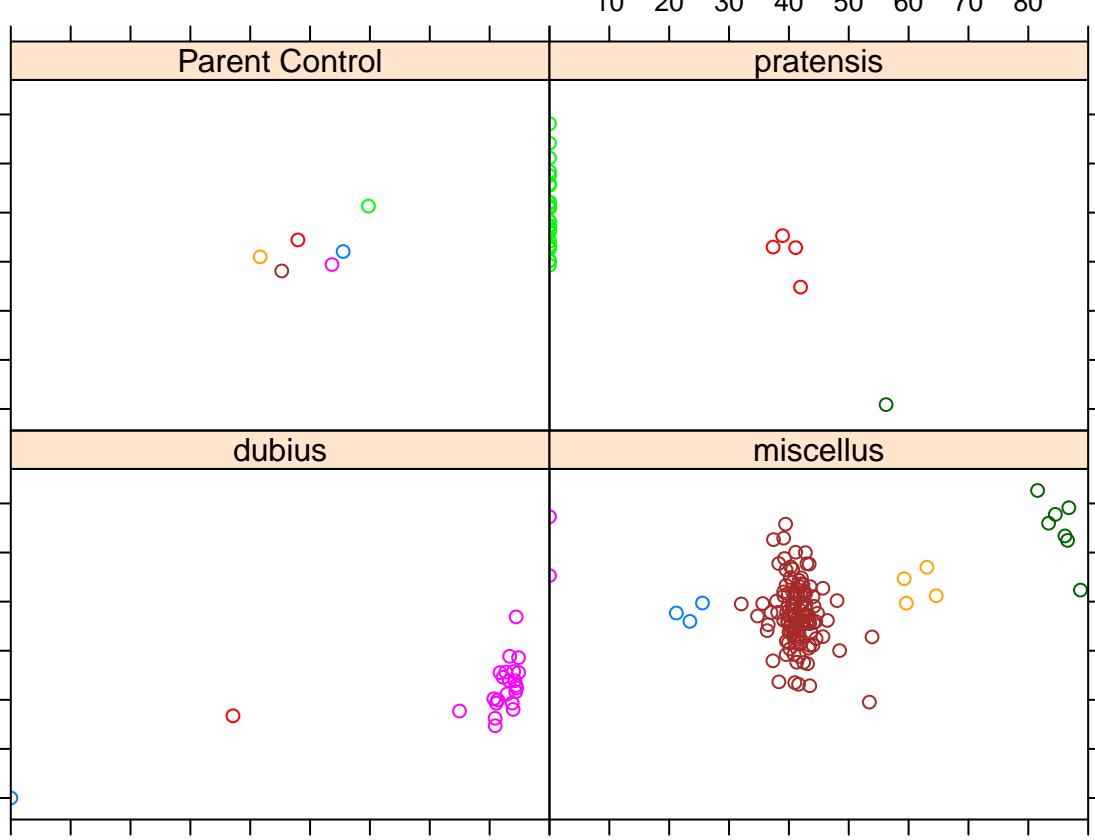
120
100
80
60
40
20
0

dubius

miscellus

10 20 30 40 50 60 70 80

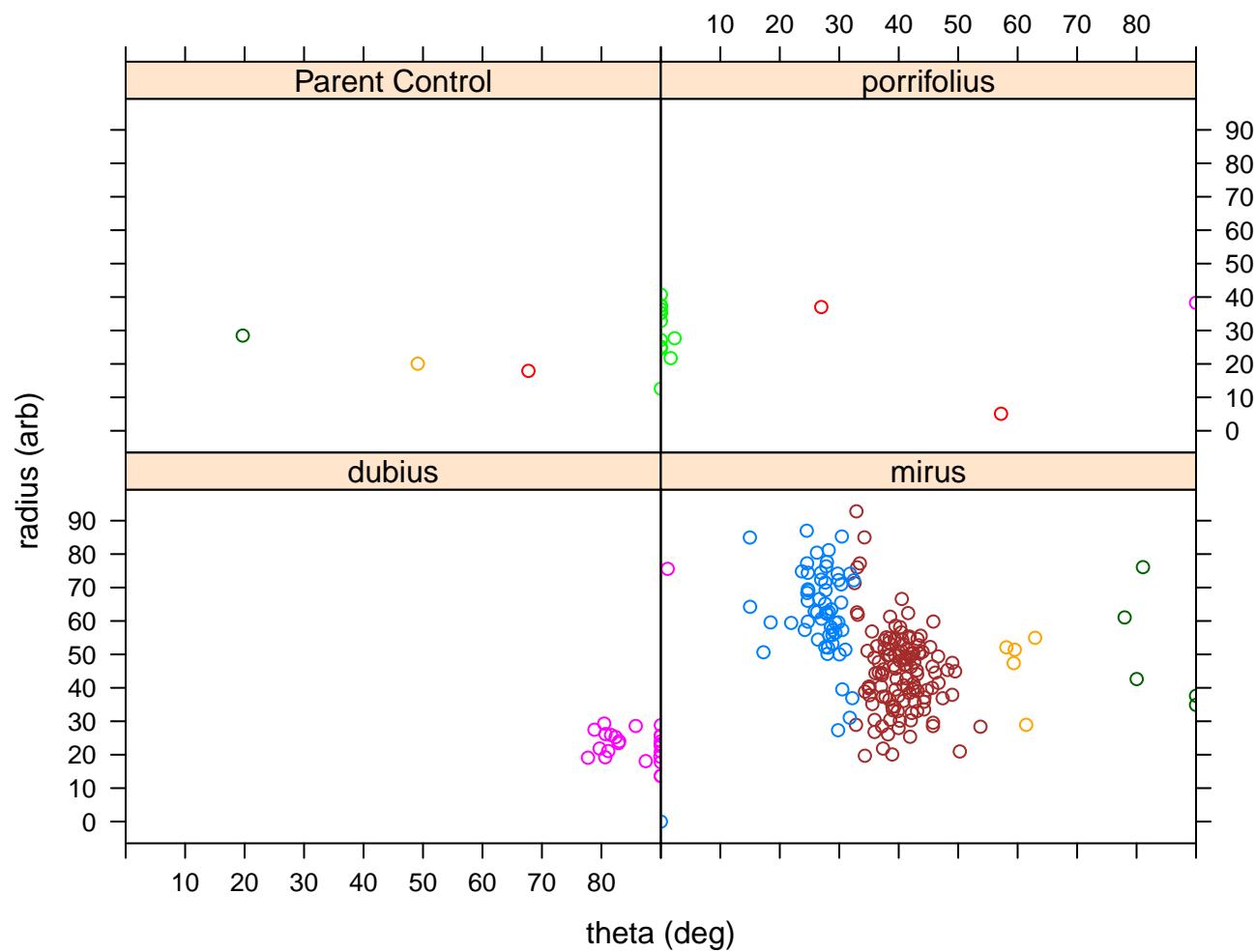
theta (deg)



V_2_5_isotig09568_1037 gDNA

Call

Bad_Spectrum	○	LLLH	○
HH	●	LLLL	●
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LHHH	○	PM2_1_2	○
LL	○	PM2_2_1	○
LLHH	○		



V_2_5_isotig09568_1037 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

90
80
70
60
50
40
30
20
10
0

dubius

mirus

90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)

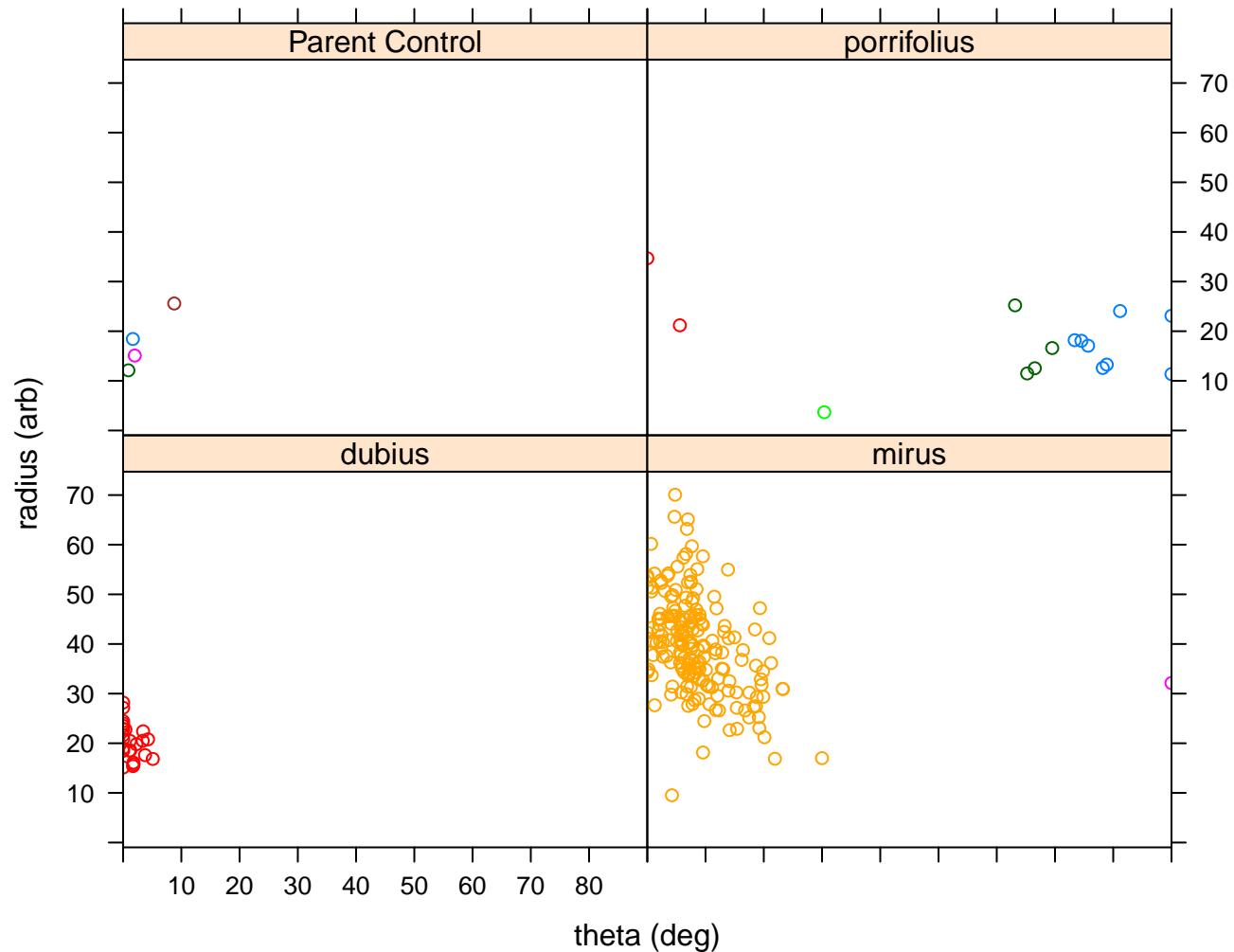
radius (arb)

V_2_5_isotig09568_1124 gDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLLL	○	PM2_2_1	○

10 20 30 40 50 60 70 80



V_2_5_isotig09568_1124 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLL	○		○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

90
80
70
60
50
40
30
20
10
0

dubius

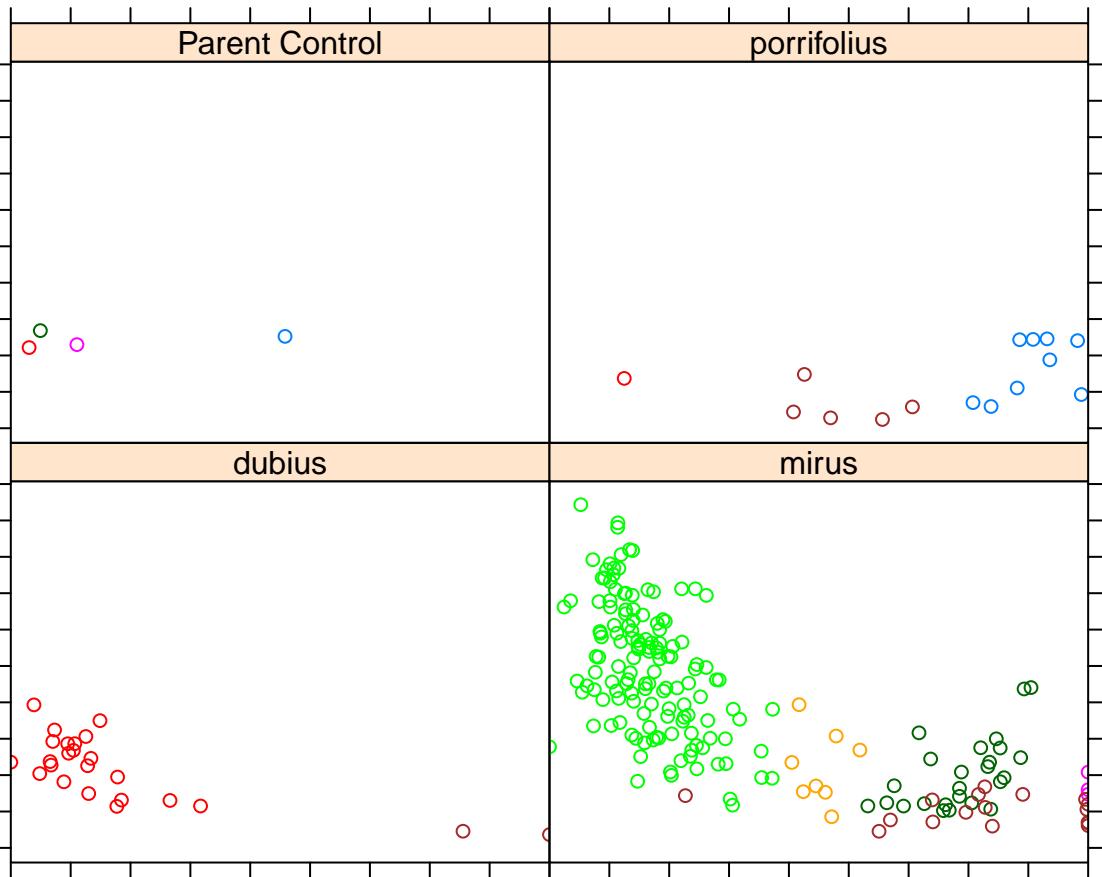
mirus

90
80
70
60
50
40
30
20
10
0

radius (arb)

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig09568_428 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LHHH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

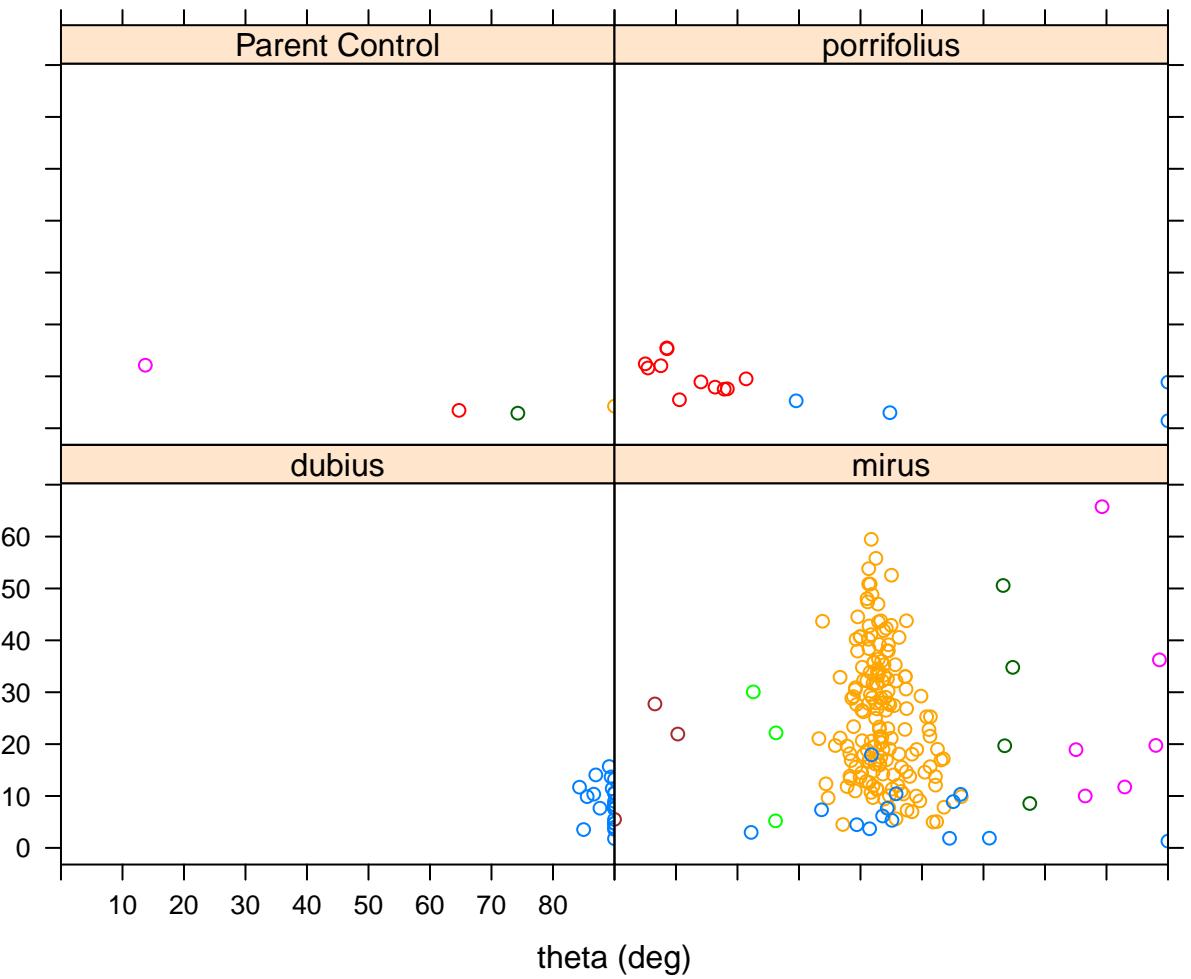
porrifolius

60
50
40
30
20
10
0

dubius

mirus

radius (arb)

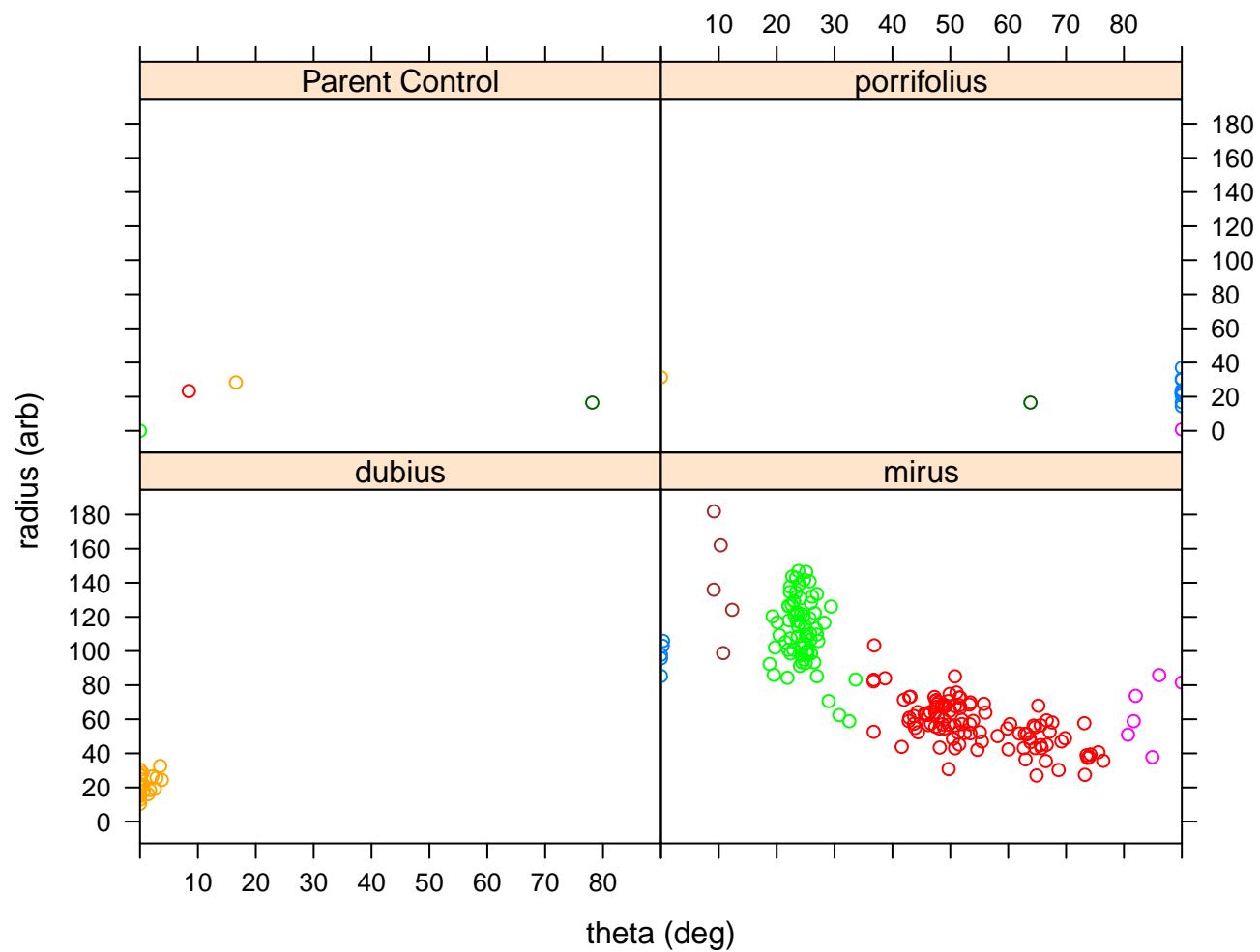


theta (deg)

V_2_5_isotig09568_476 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig09568_476 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

120
100
80
60
40
20
0

dubius

mirus

120
100
80
60
40
20
0

radius (arb)

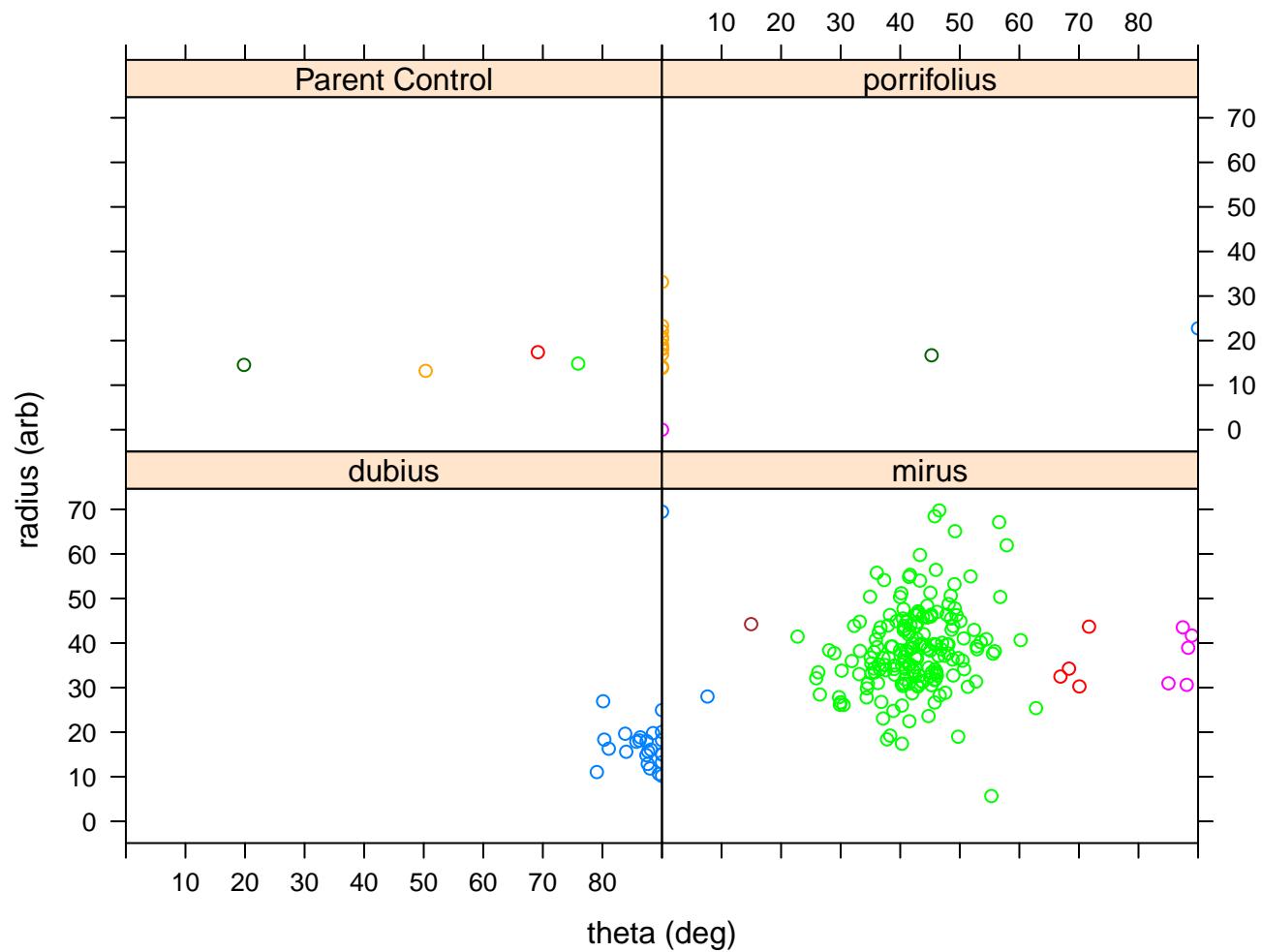
10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig09568_560 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig09568_560 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

80
70
60
50
40
30
20
10
0

dubius

mirus

radius (arb)

80

70

60

50

40

30

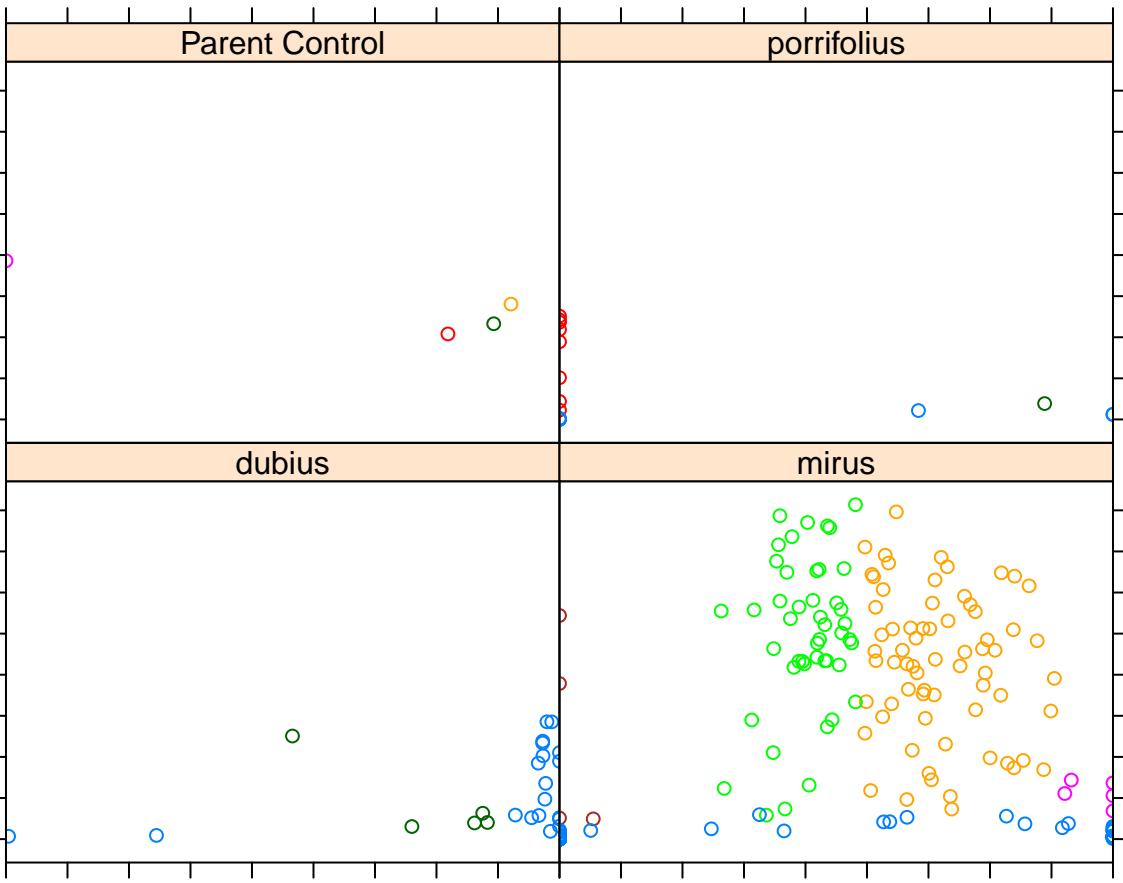
20

10

0

10 20 30 40 50 60 70 80

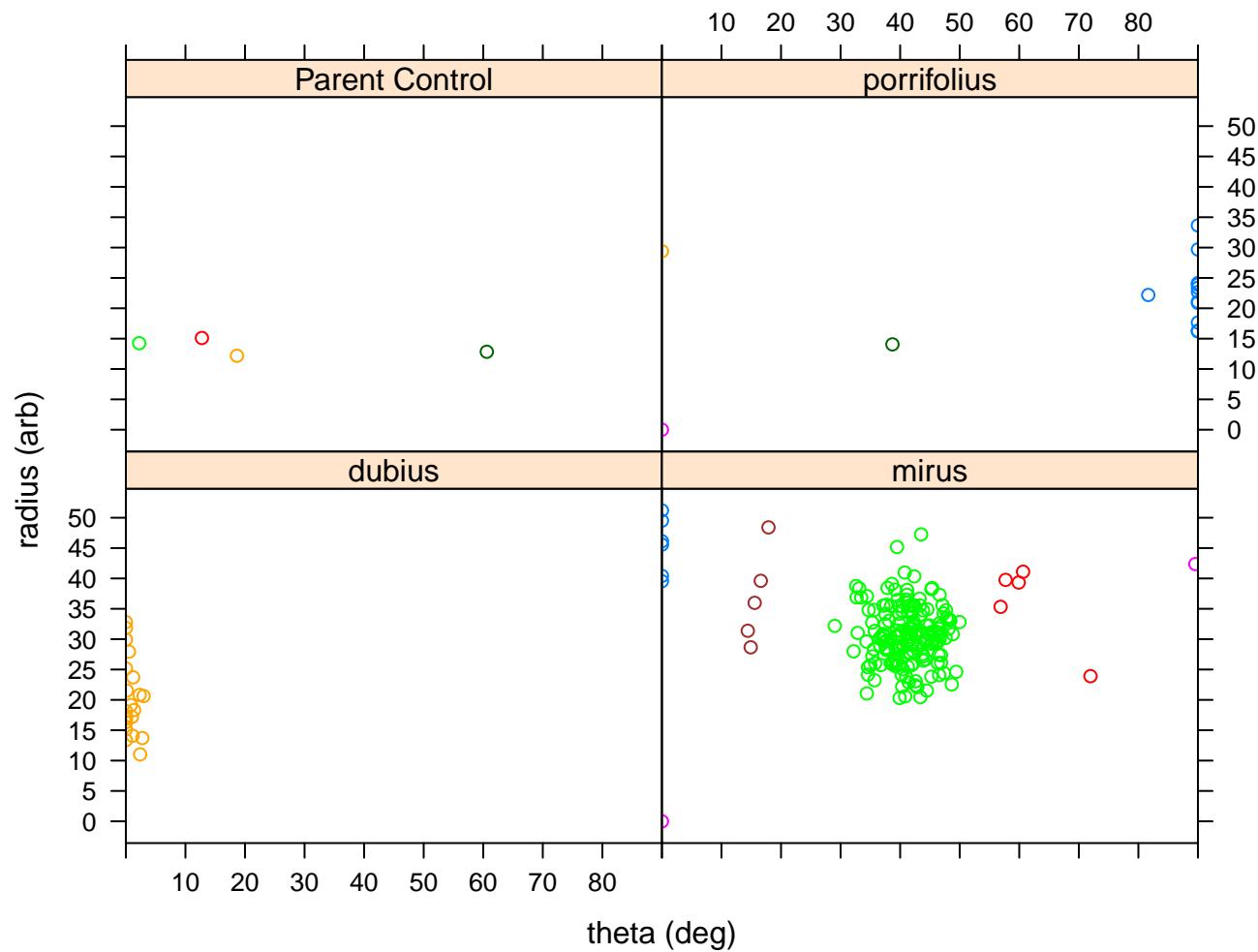
theta (deg)



V_2_5_isotig09568_653 gDNA

Call

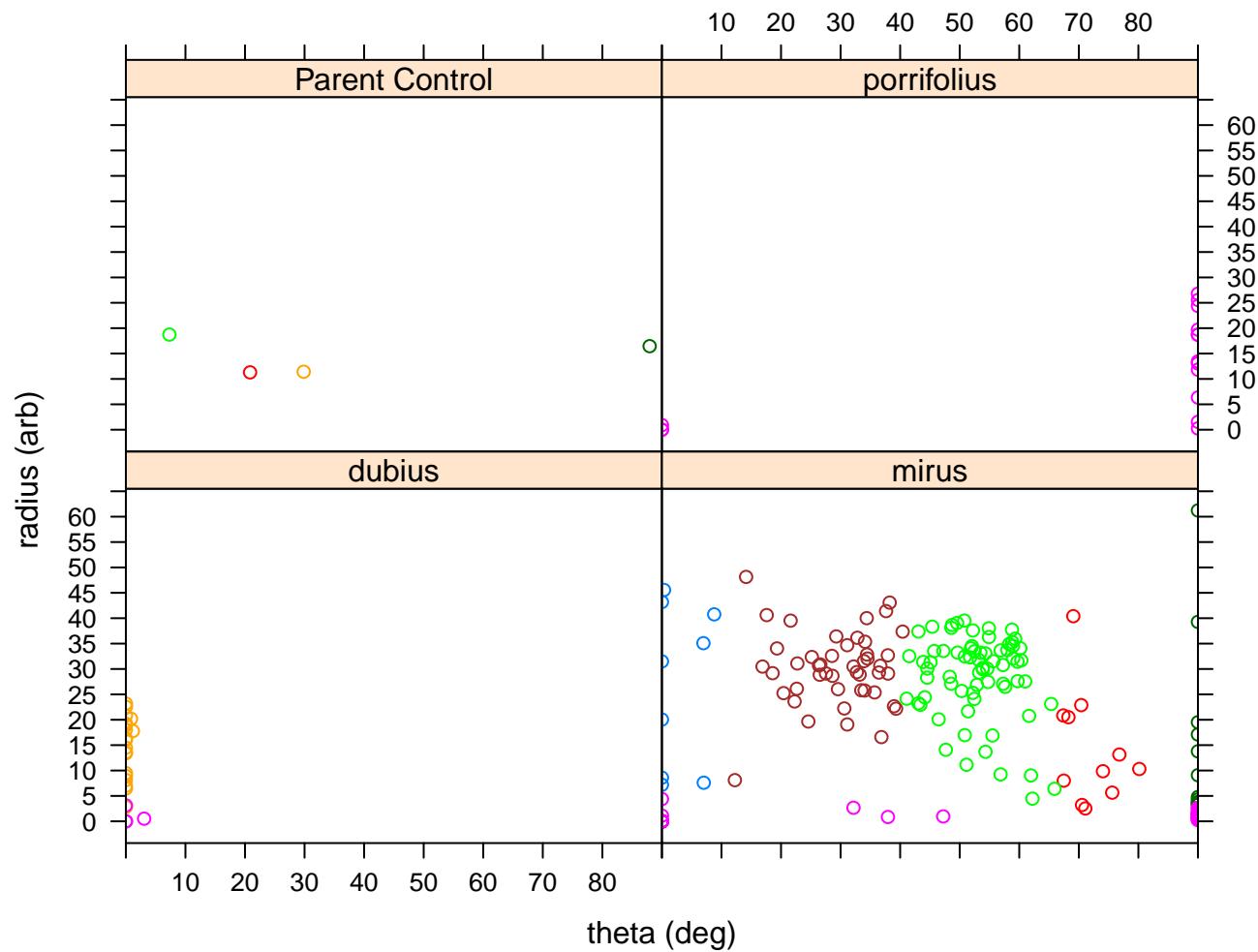
HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig09568_653 cDNA

Call

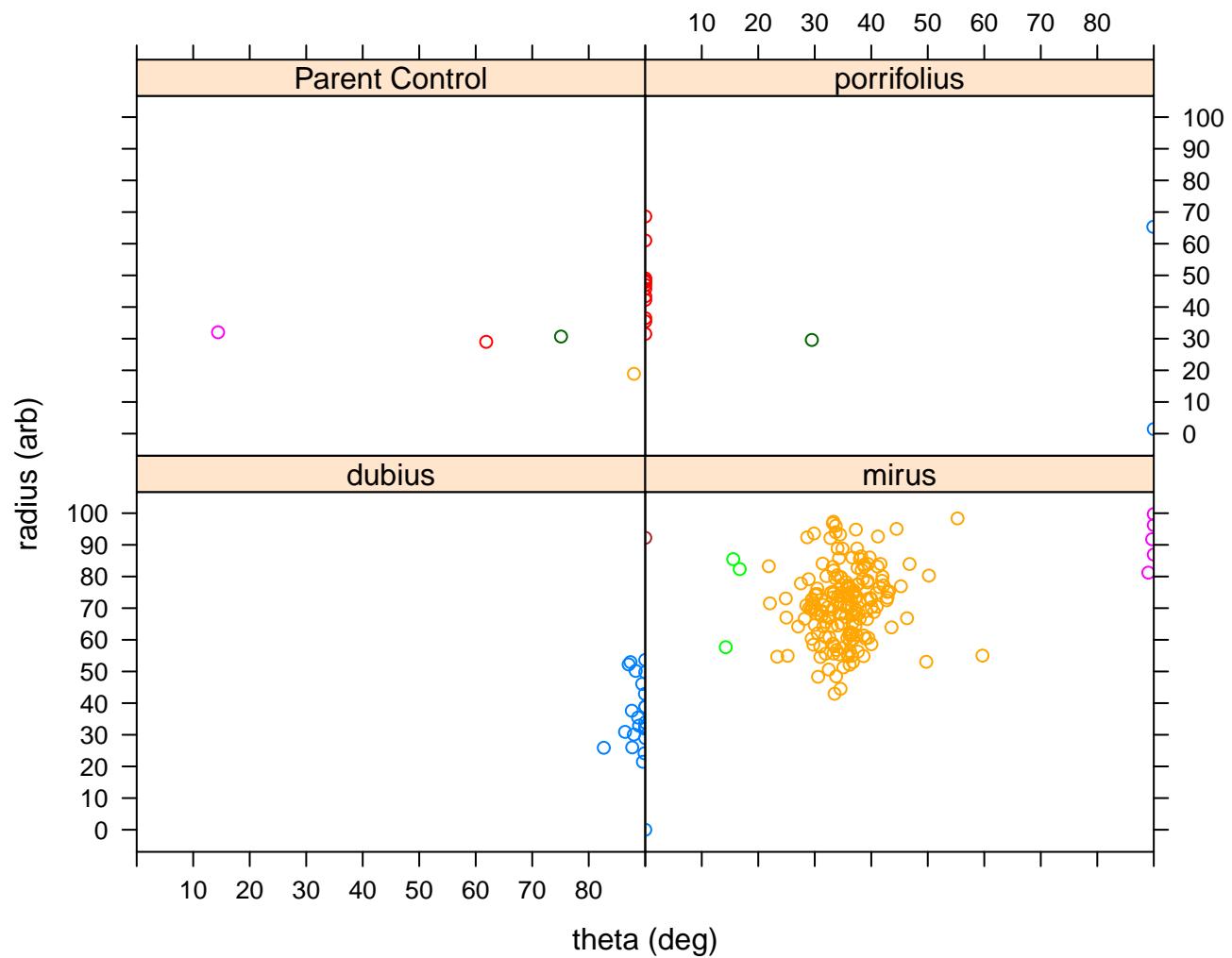
Bad_Spectrum	○	LLLL	○
HH	○	No_Alleles	○
HHHH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig09568_737 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○



V_2_5_isotig09568_737 cDNA

Call

Bad_Spectrum	○	LLLH	○
HH	○	LLLL	○
HHHH	○	No_Alleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

120
110
100
90
80
70
60
50
40
30
20
10
0

dubius

mirus

120
110
100
90
80
70
60
50
40
30
20
10
0

radius (arb)

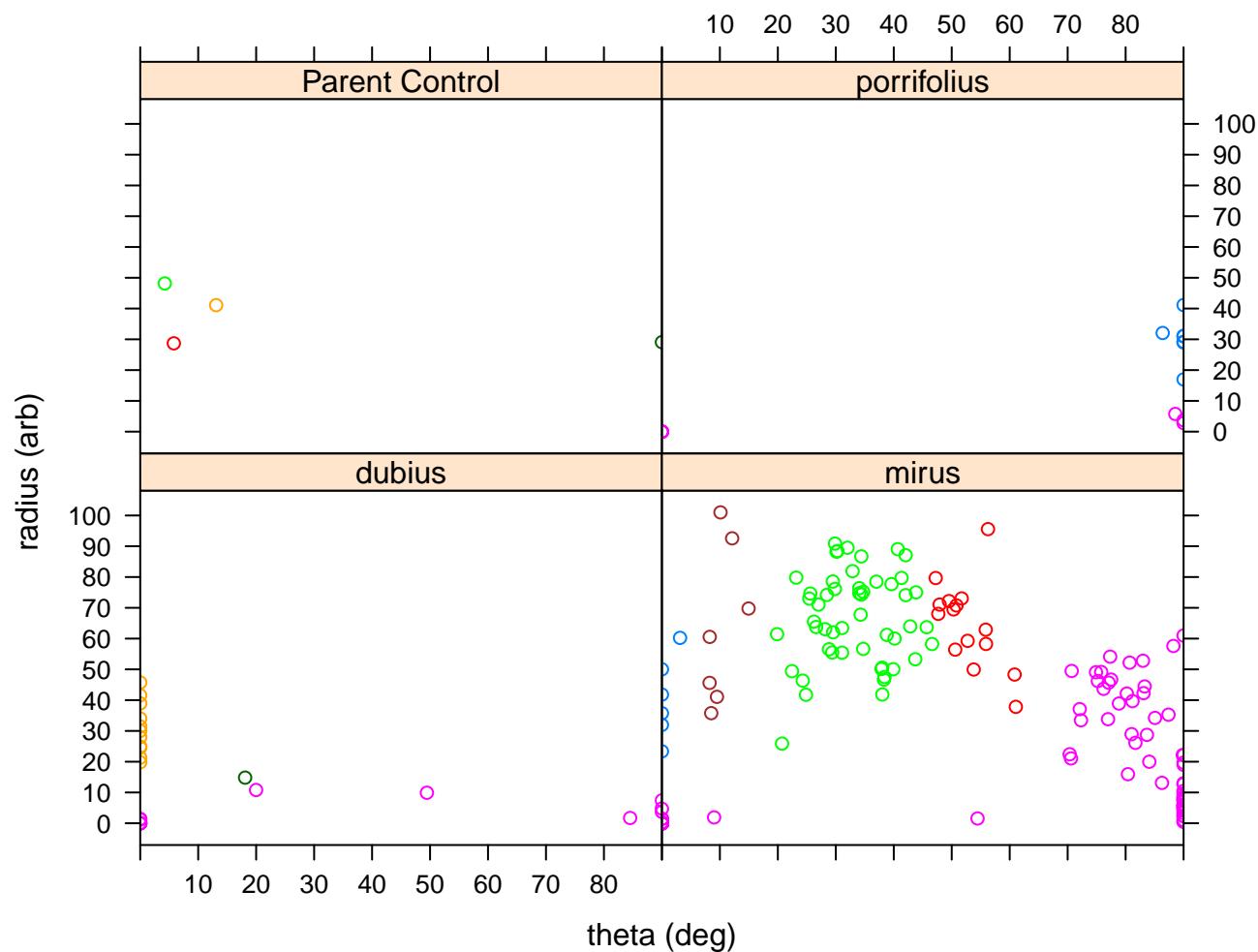
10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig09568_905 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig09576_209 gDNA

Call

HH	○	No_Aleles	○
LHHH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLL	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

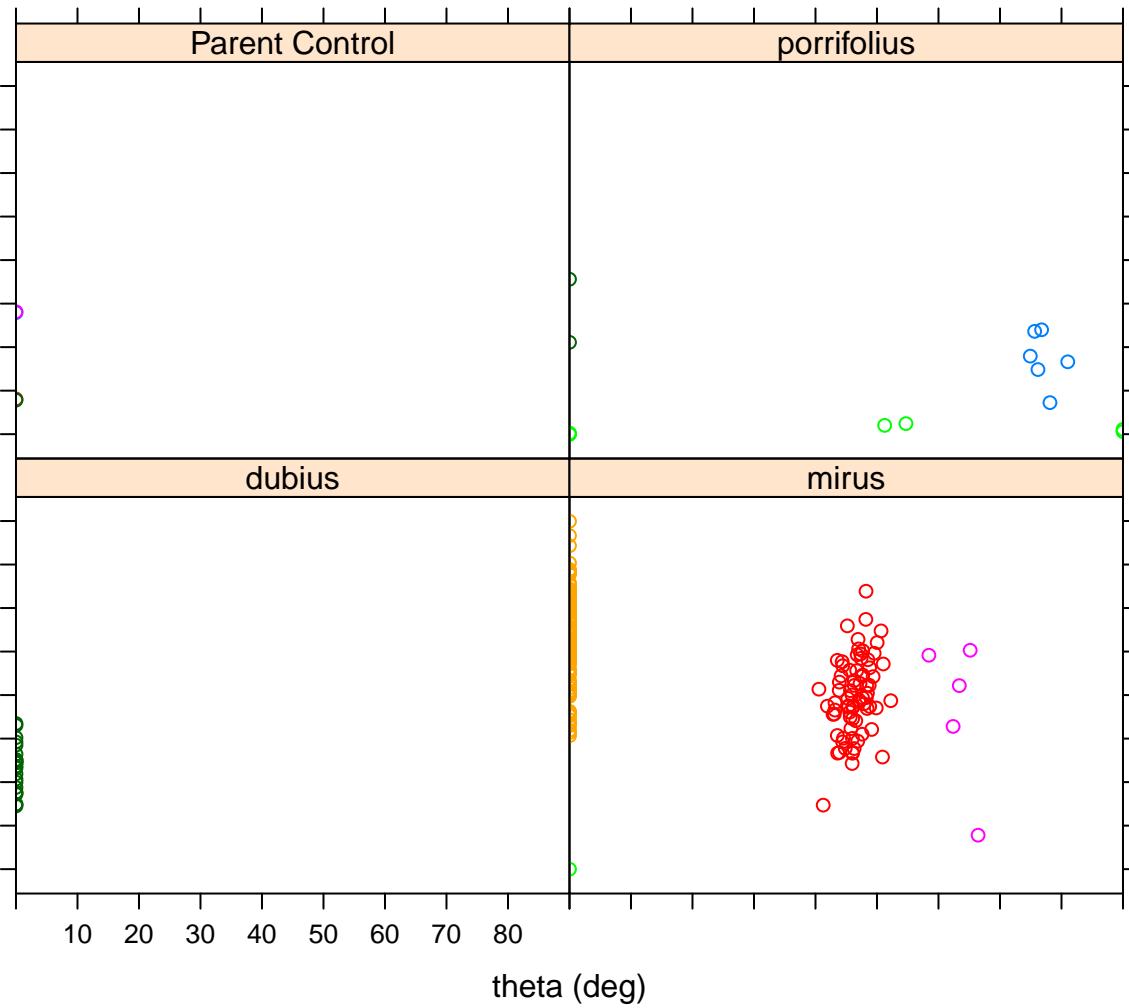
porrifolius

radius (arb)

80
70
60
50
40
30
20
10
0

dubius

mirus



theta (deg)

V_2_5_isotig09576_337 gDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

100
90
80
70
60
50
40
30
20
10

dubius

miscellus

100
90
80
70
60
50
40
30
20
10

10 20 30 40 50 60 70 80

theta (deg)

radius (arb)

V_2_5_isotig09576_409 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

110
100
90
80
70
60
50
40
30
20
10
0

dubius

miscellus

110
100
90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)

radius (arb)

V_2_5_isotig09576_986 gDNA

Call

Bad_Spectrum	○	No_Aleles	○
HH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLLL	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

55
50
45
40
35
30
25
20
15
10
5
0

radius (arb)

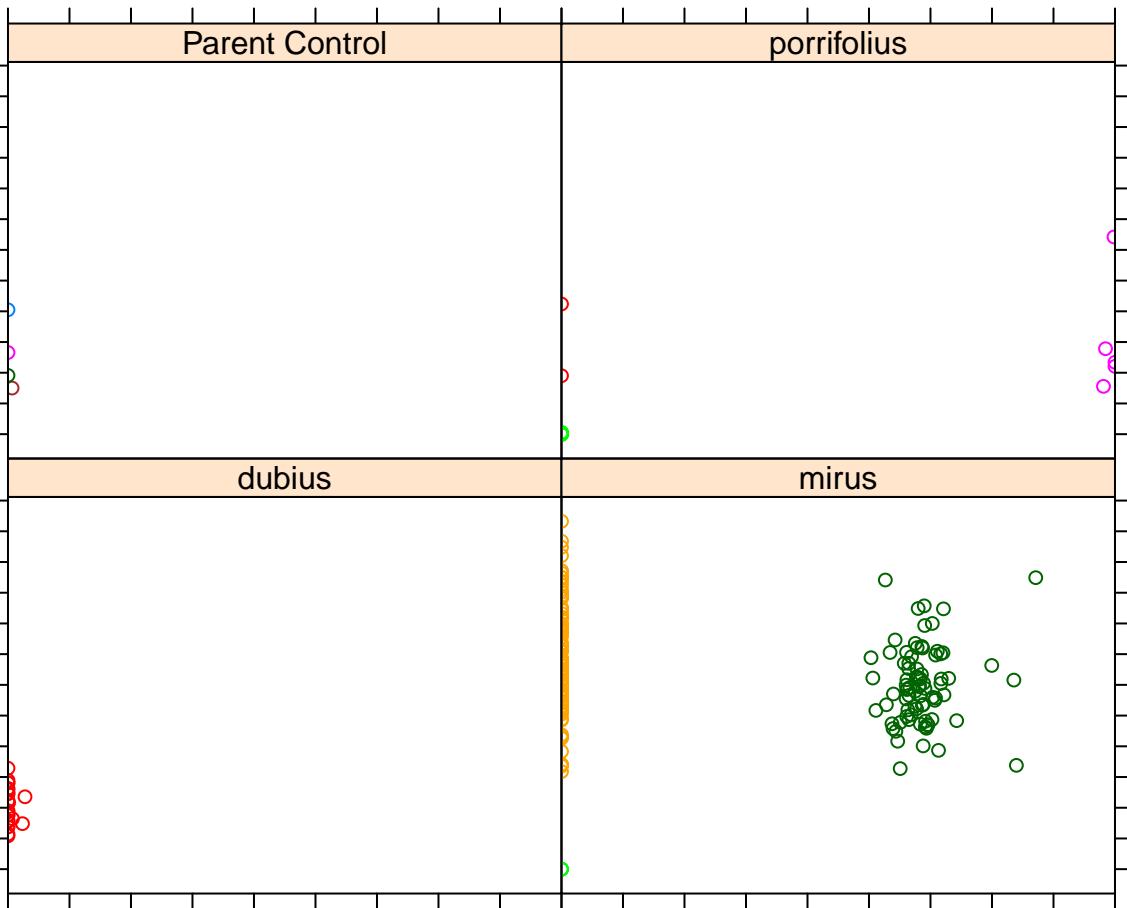
dubius

mirus

55
50
45
40
35
30
25
20
15
10
5
0

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig09606_873 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

radius (arb)

70
60
50
40
30
20
10
0

dubius

mirus

10 20 30 40 50 60 70 80

theta (deg)

70
60
50
40
30
20
10
0

V_2_5_isotig09606_873 cDNA

Call

HH	○	LLLL	○
HHHH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

radius (arb)

dubius

mirus

10 20 30 40 50 60 70 80

theta (deg)

80
70
60
50
40
30
20
10

80
70
60
50
40
30
20
10

V_2_5_isotig09607_1066 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

110
100
90
80
70
60
50
40
30
20
10
0

dubius

miscellus

radius (arb)

110
100
90
80
70
60
50
40
30
20
10
0

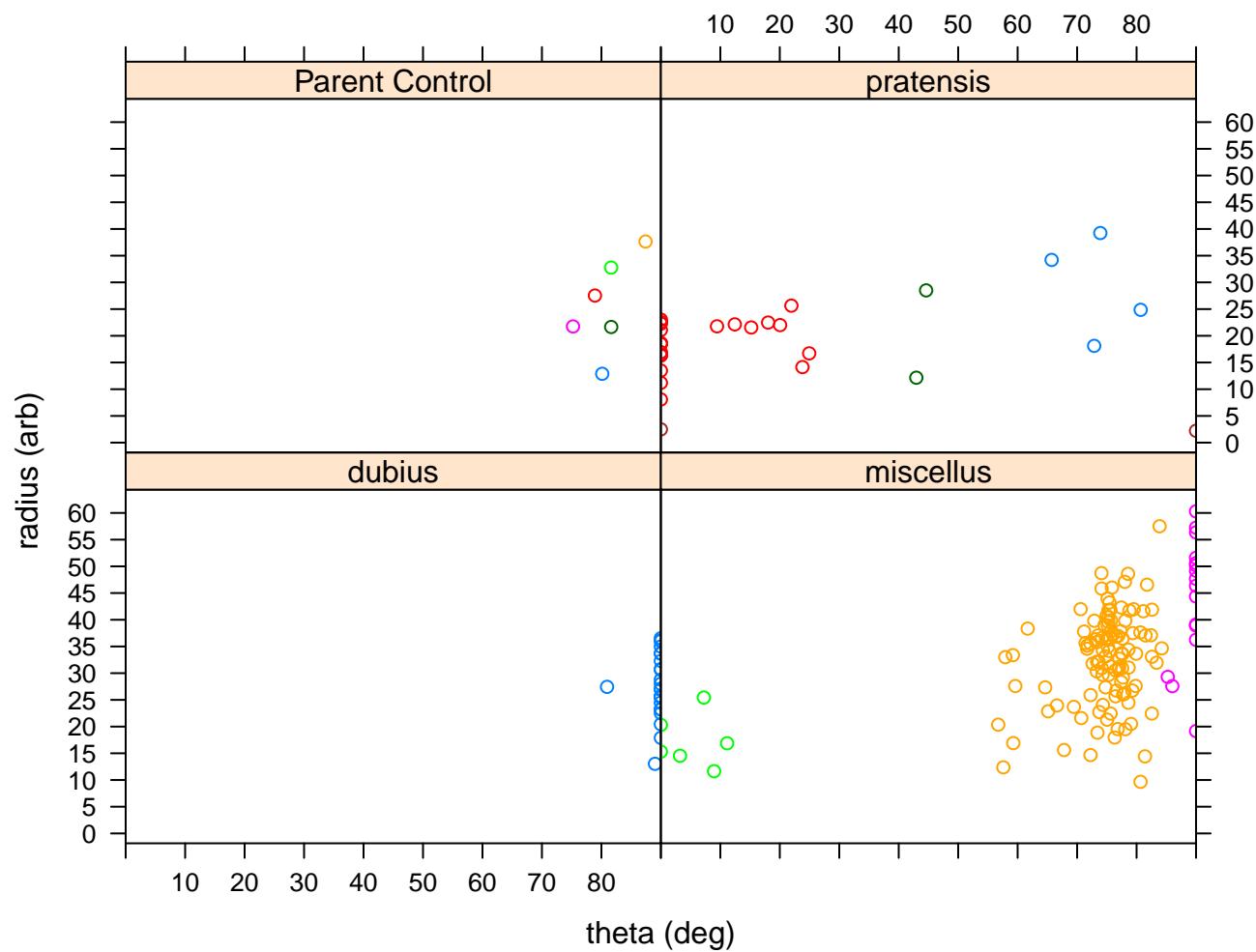
10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig09607_841 cDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○
No_Aleles	○		

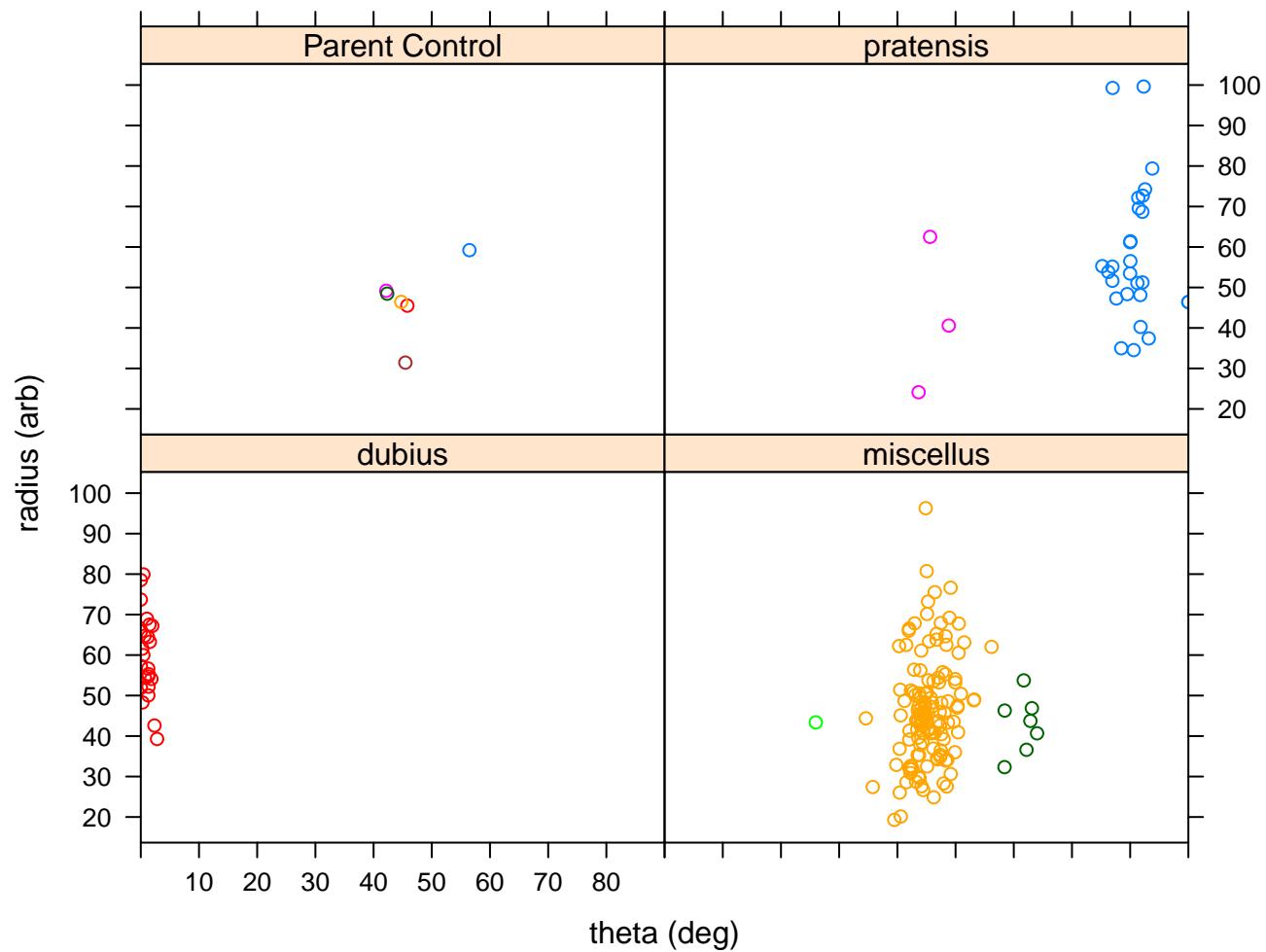


V_2_5_isotig09650_1041 gDNA

Call

HH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

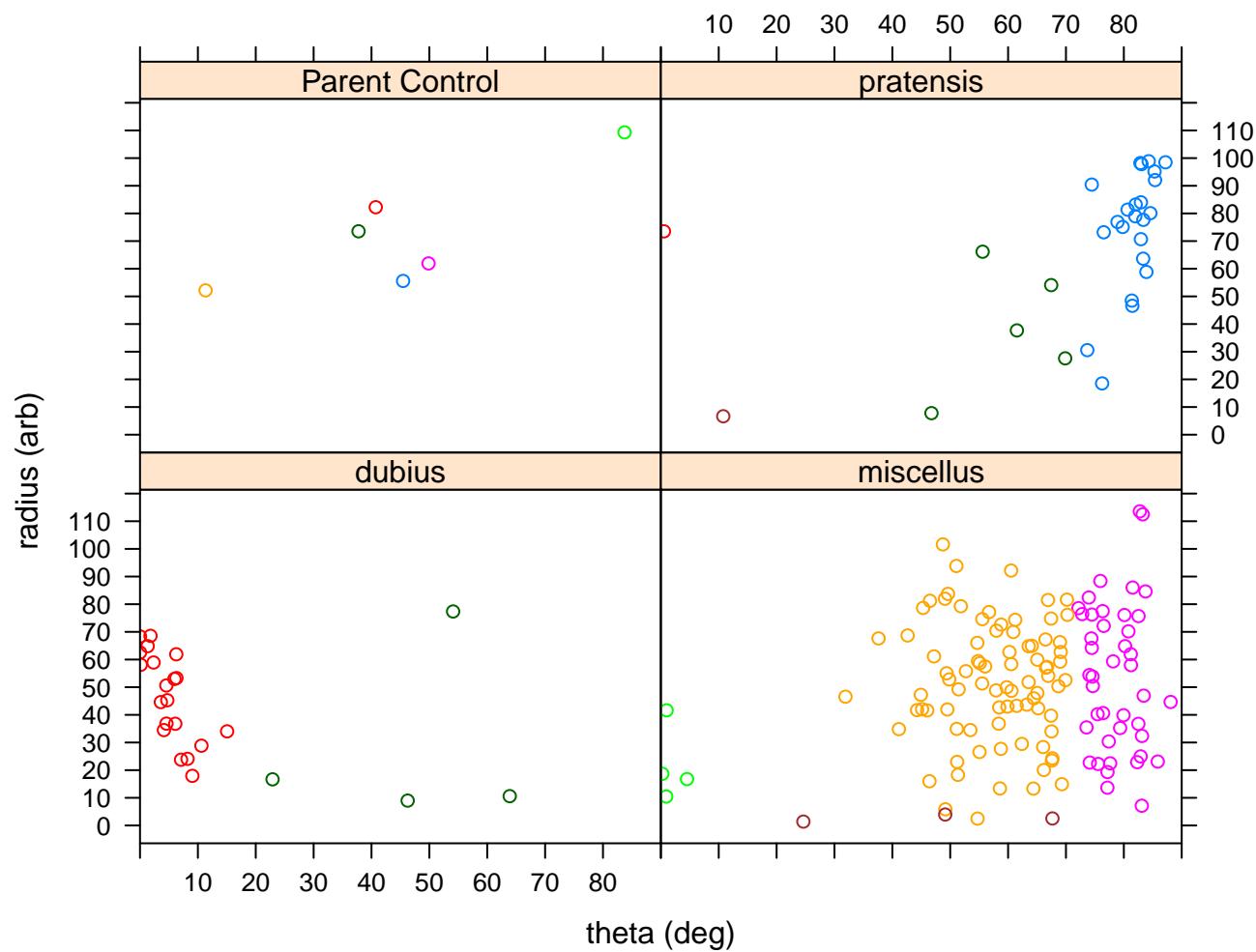
10 20 30 40 50 60 70 80



V_2_5_isotig09650_1041 cDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○
No_Alleles	○		



V_2_5_isotig09650_516 gDNA

Call

HH	○	No_Aleles	○
LH	○	PM3_1_1	○
LHHH	○	PM3_1_2	○
LL	○	PM3_2_1	○
LLHH	○	PM4	○
LLLH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

80
70
60
50
40
30
20
10
0

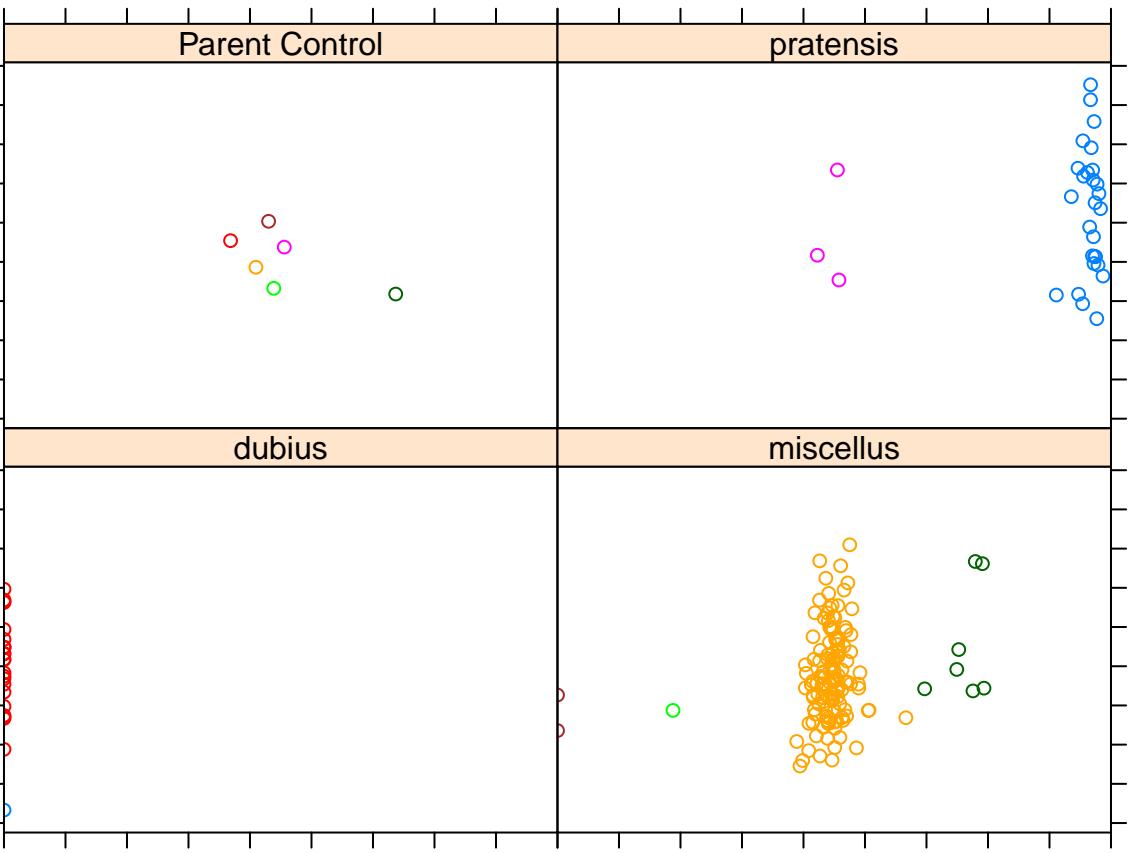
dubius

miscellus

radius (arb)

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig09650_516 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		

10 20 30 40 50 60 70 80

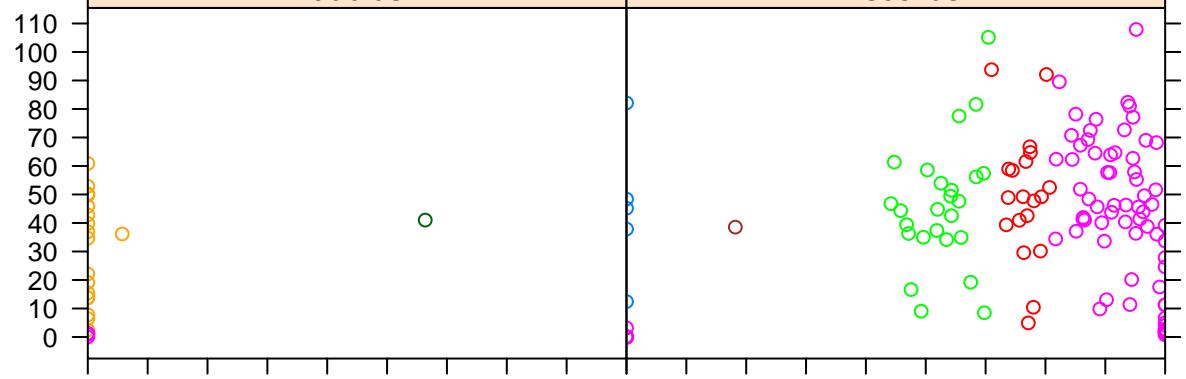
Parent Control

pratensis

110
100
90
80
70
60
50
40
30
20
10
0

dubius

miscellus

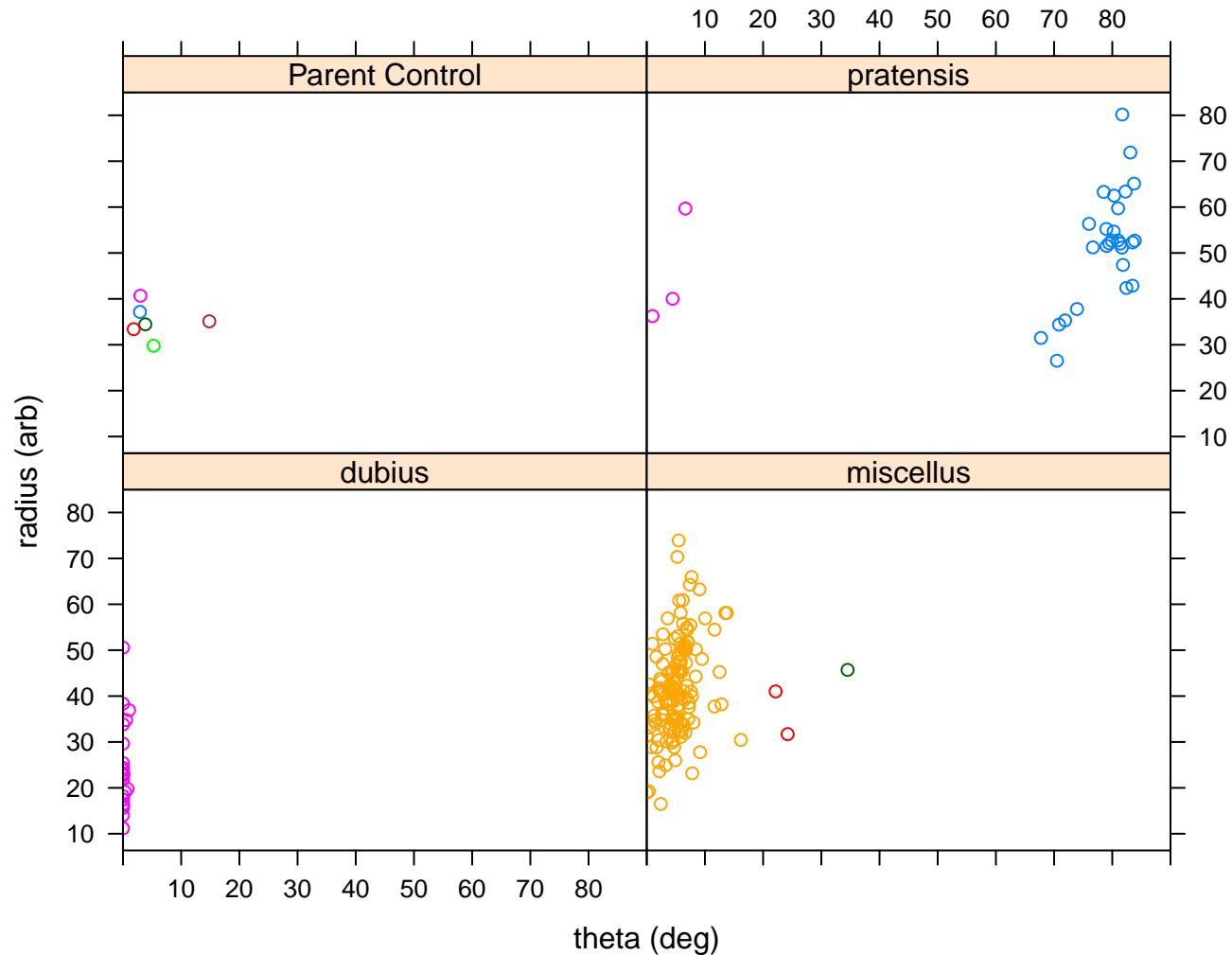


theta (deg)

V_2_5_isotig09650_594 gDNA

Call

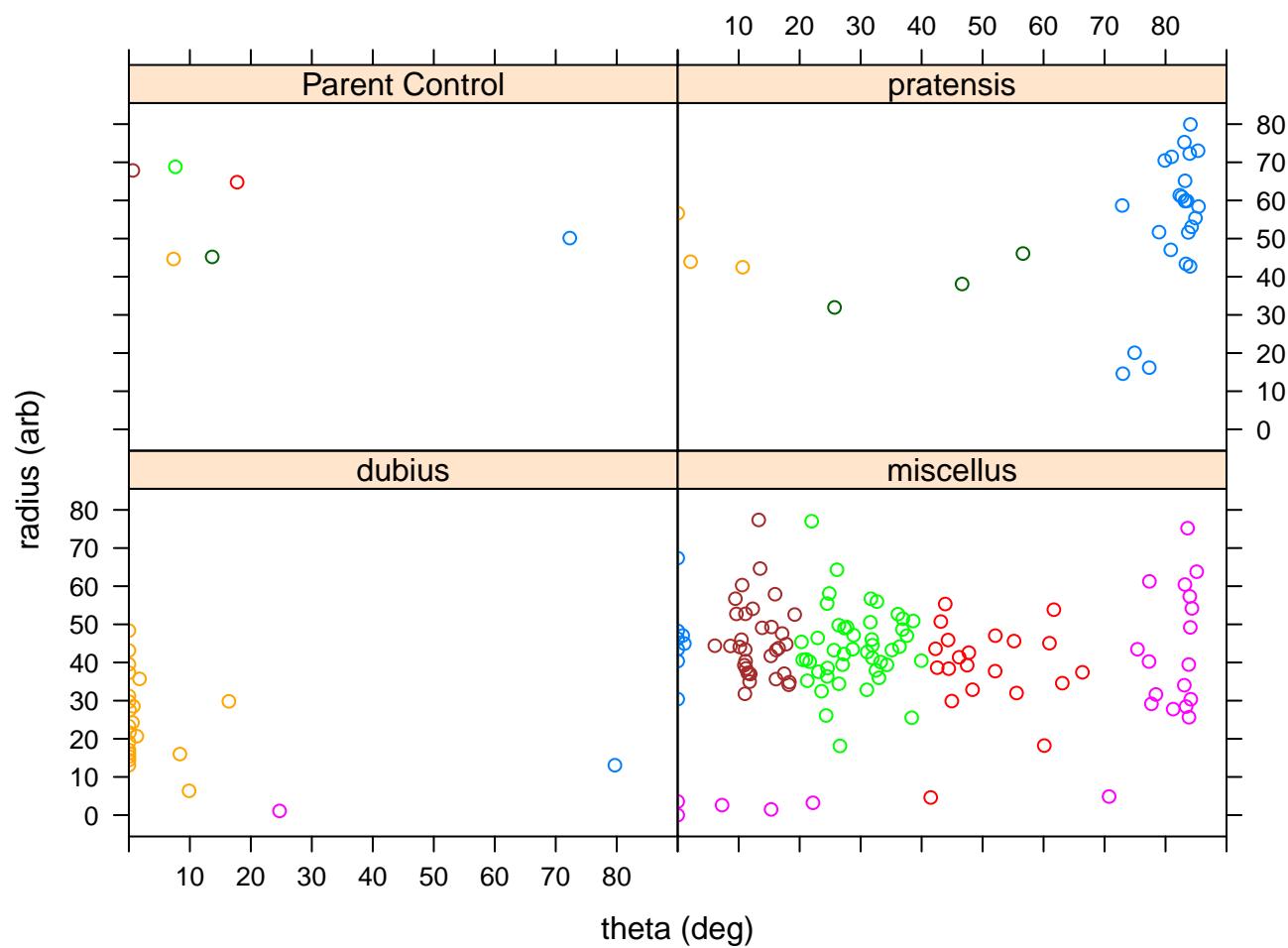
HH	○	PM3_1_2	○
LL	○	PM3_2_1	○
LLHH	○	PM4	○
LLLH	○	PM5	○
LLLL	○	PM6	○
PM3_1_1	○		



V_2_5_isotig09650_594 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		



V_2_5_isotig09650_645 gDNA

Call

HH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

radius (arb)

120
110
100
90
80
70
60
50
40
30
20
10

dubius

miscellus

120
110
100
90
80
70
60
50
40
30
20
10

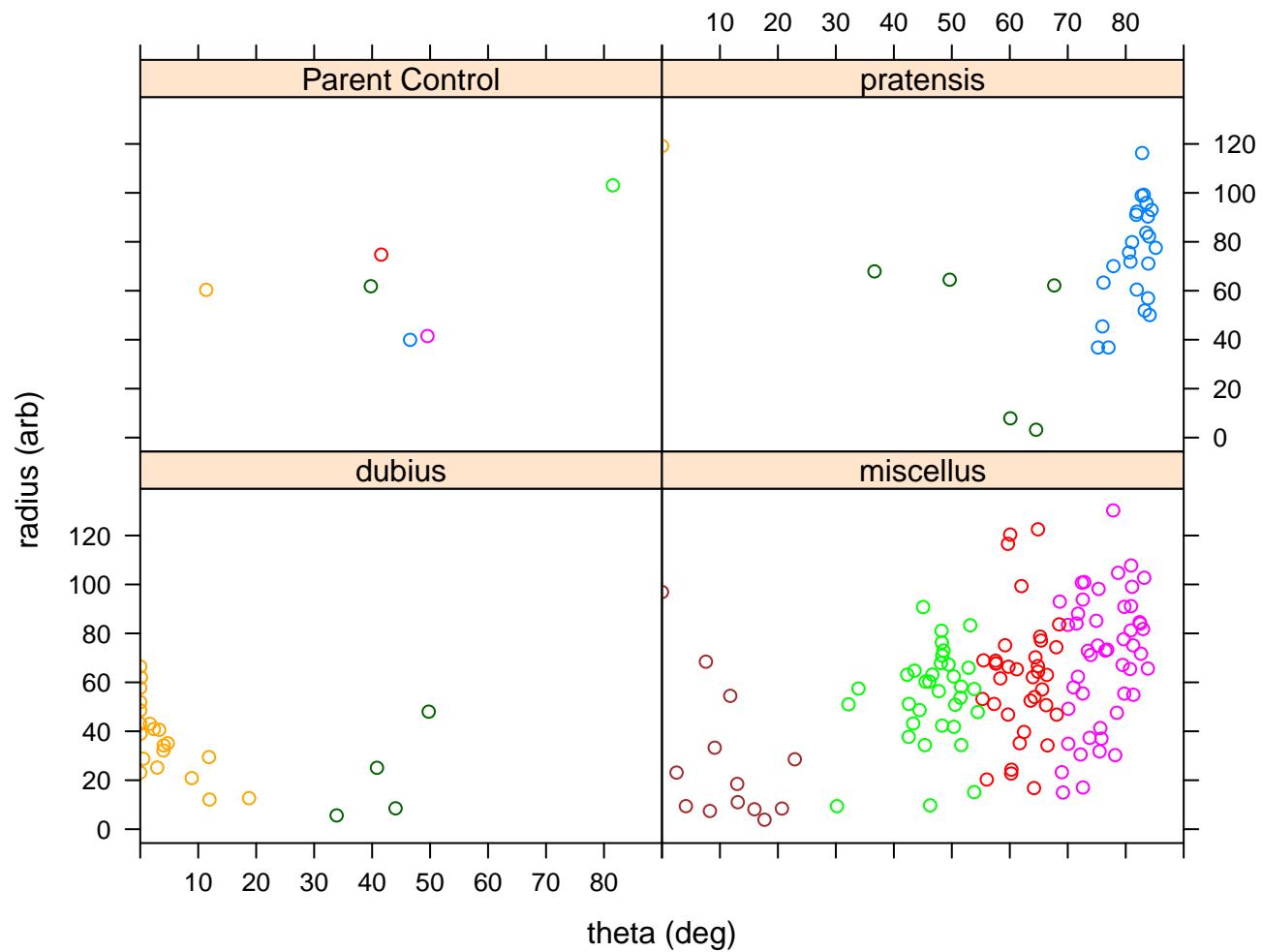
10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig09650_645 cDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LHHH	○	PM4	○
LL	○	PM5	○
LLHH	○	PM6	○
LLLL	○		



V_2_5_isotig09650_702 gDNA

Call

HH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

radius (arb)

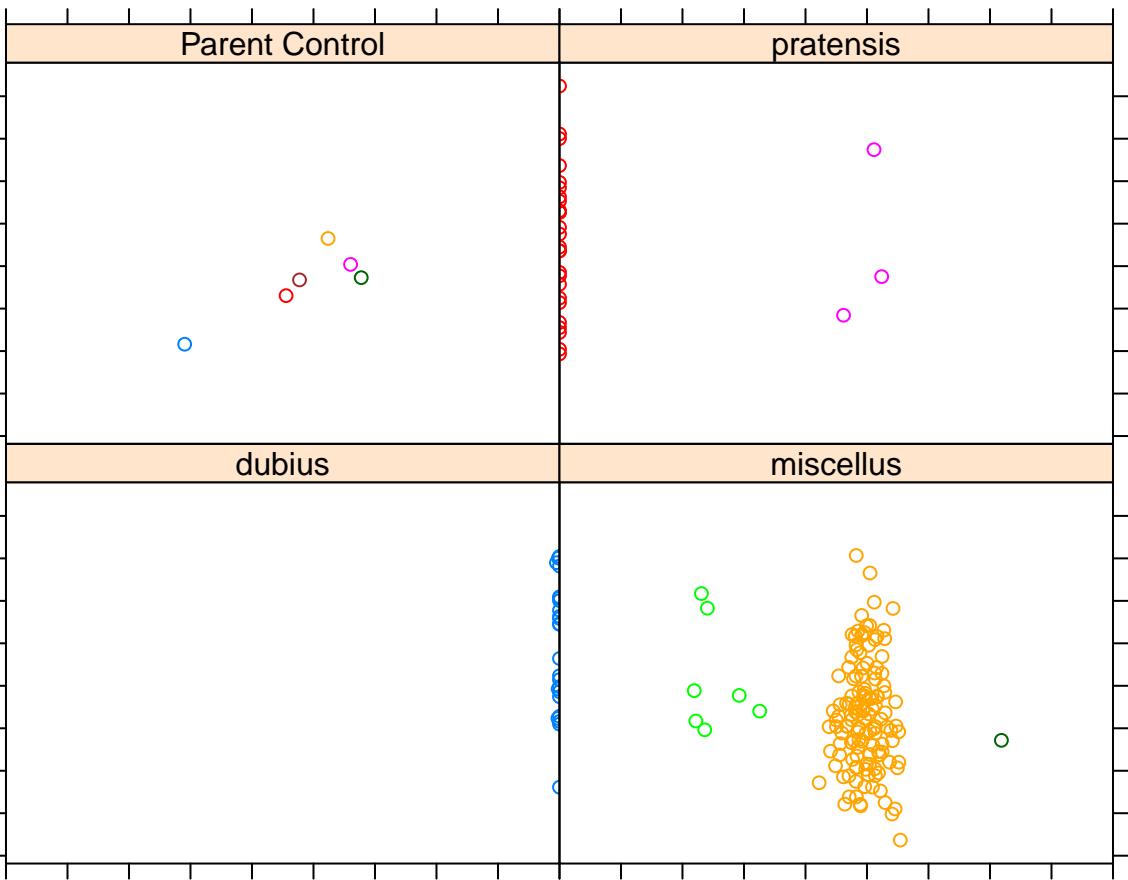
90
80
70
60
50
40
30
20
10

dubius

miscellus

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig09650_702 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		

10 20 30 40 50 60 70 80

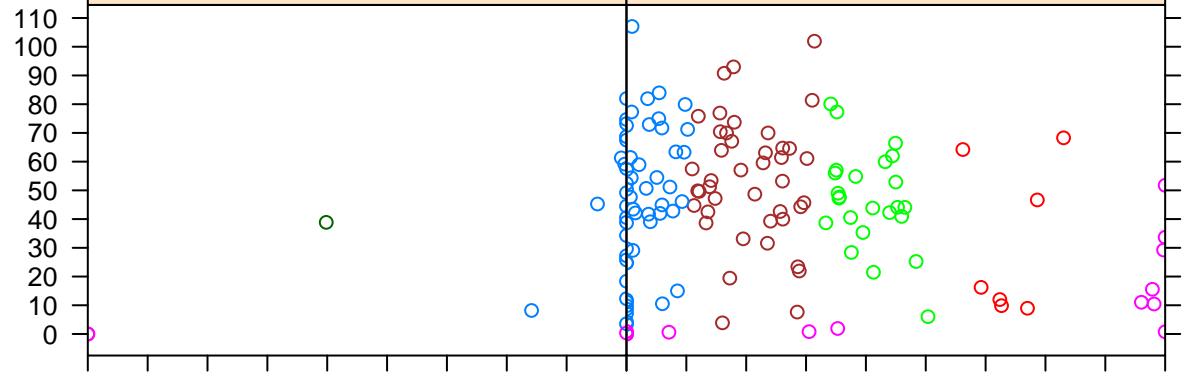
Parent Control

pratensis

110
100
90
80
70
60
50
40
30
20
10
0

dubius

miscellus



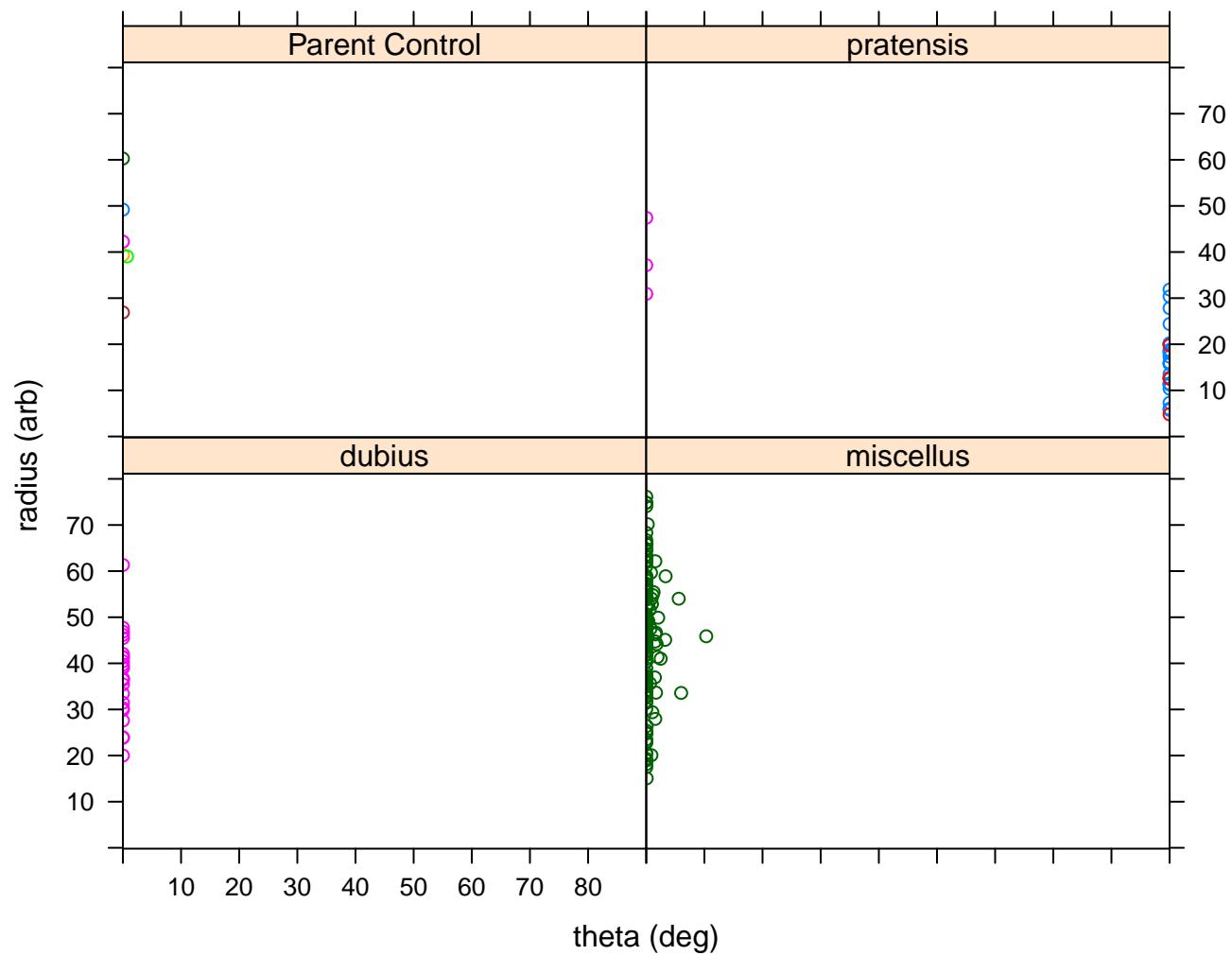
theta (deg)

V_2_5_isotig09650_762 gDNA

Call

HH	○	PM3_1_2	○
LL	○	PM3_2_1	○
LLLL	○	PM4	○
No_Aleles	○	PM5	○
PM3_1_1	○	PM6	○

10 20 30 40 50 60 70 80



V_2_5_isotig09650_762 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLLH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

100
90
80
70
60
50
40
30
20
10
0

dubius

miscellus

100
90
80
70
60
50
40
30
20
10
0

radius (arb)

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig09650_921 gDNA

Call

HH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

radius (arb)

30
25
20
15
10
5
0

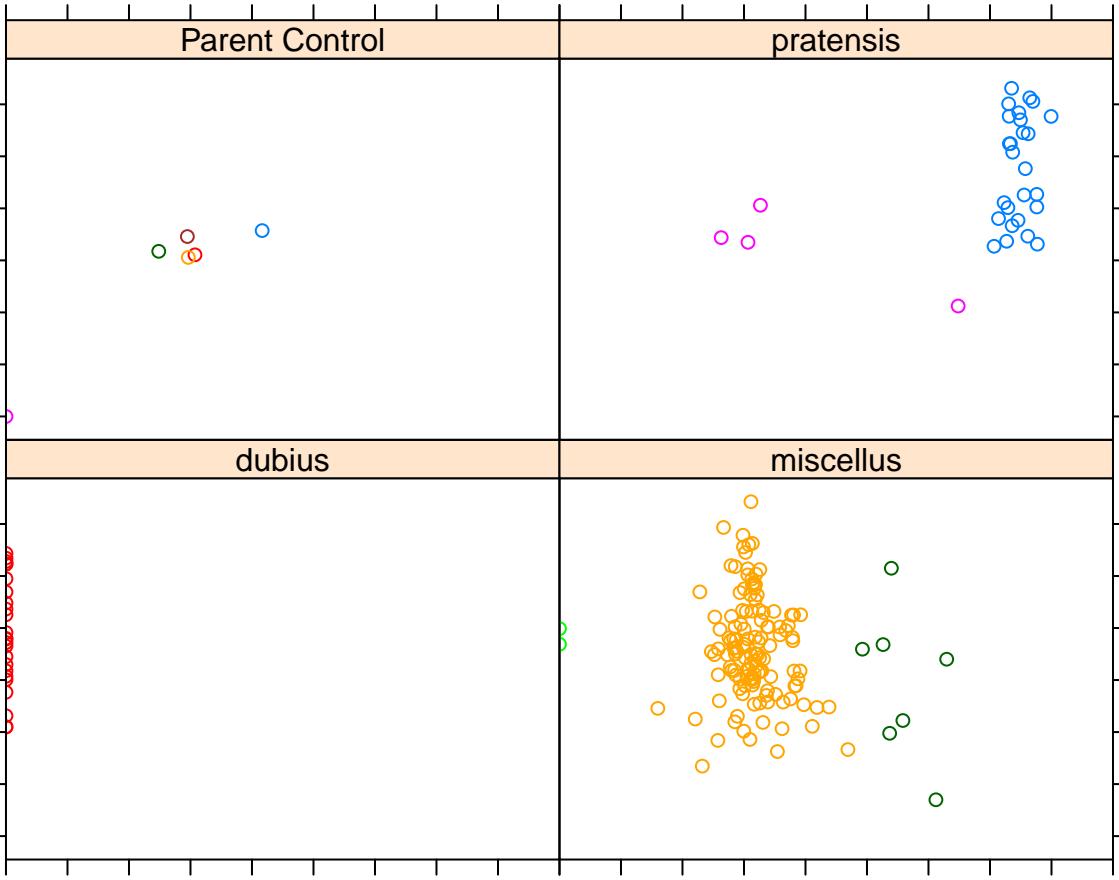
dubius

miscellus

30
25
20
15
10
5
0

10 20 30 40 50 60 70 80

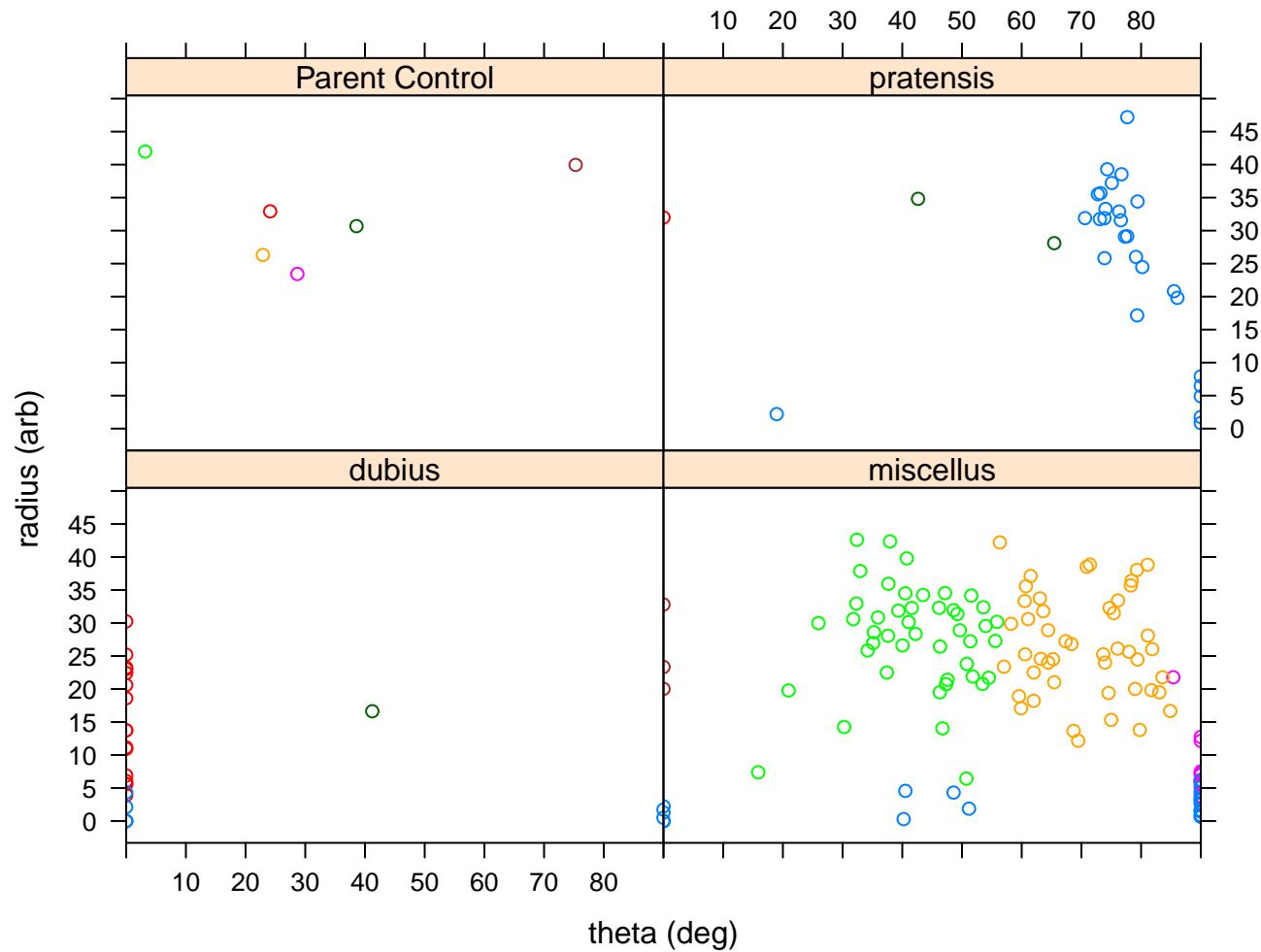
theta (deg)



V_2_5_isotig09650_921 cDNA

Call

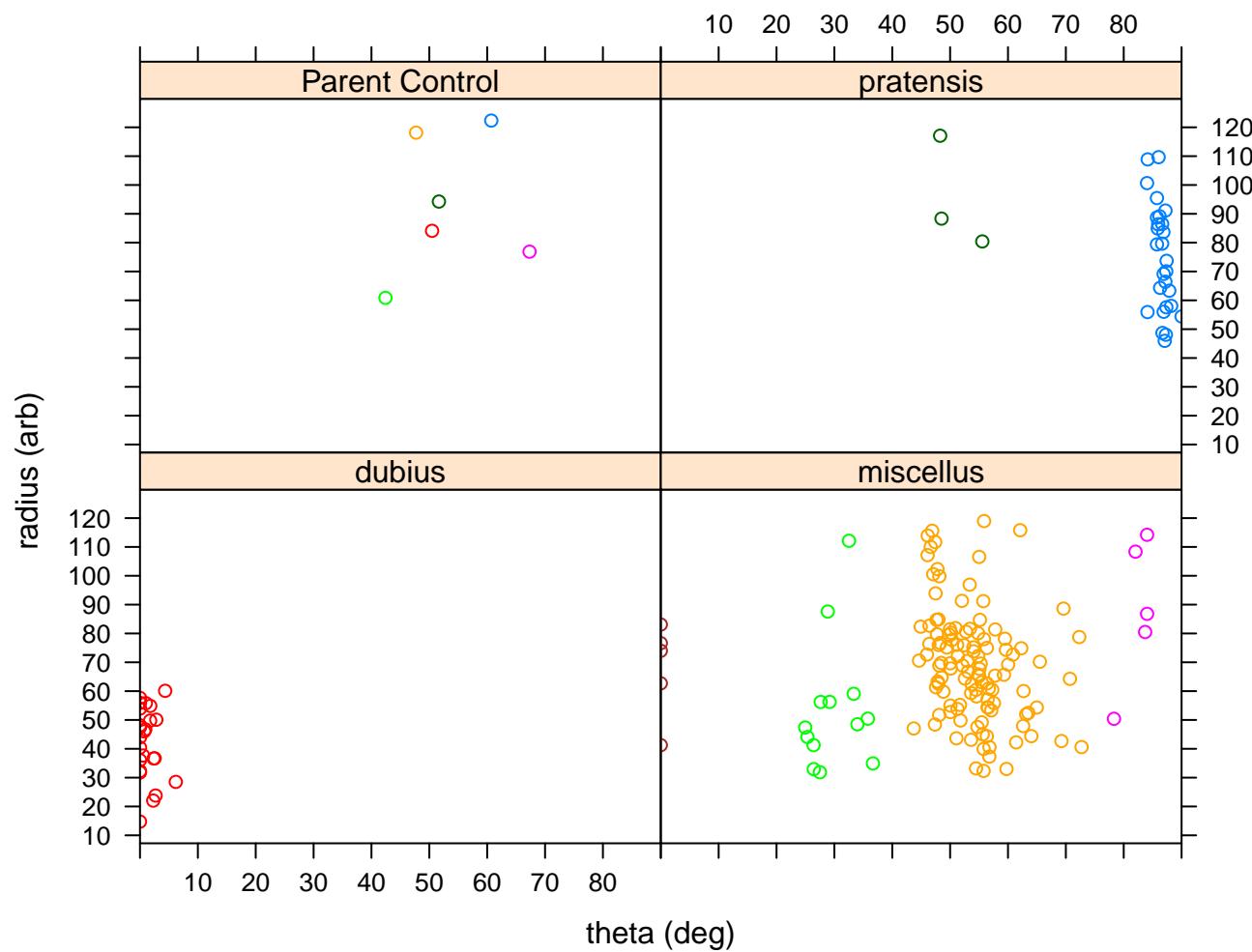
HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LL	○	PM3_2_1	○
LLHH	○	PM4	○
LLLH	○	PM5	○
LLLL	○	PM6	○



V_2_5_isotig09674_621 gDNA

Call

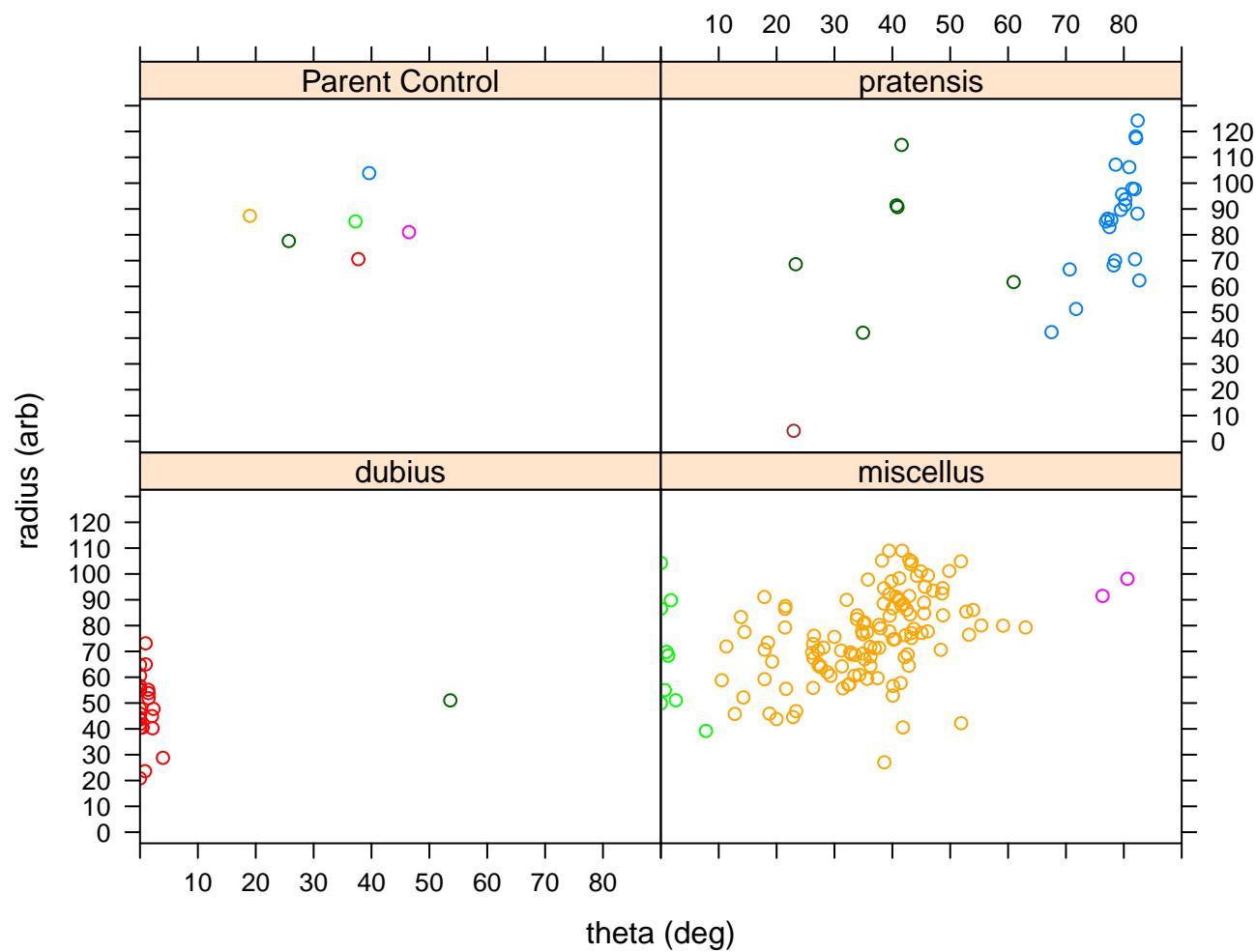
HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		



V_2_5_isotig09674_621 cDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○
No_Alleles	○		



V_2_5_isotig09694_573 gDNA

Call

Bad_Spectrum	○	LLLH	○
HH	○	LLLL	○
HHHH	○	No_Alleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

radius (arb)

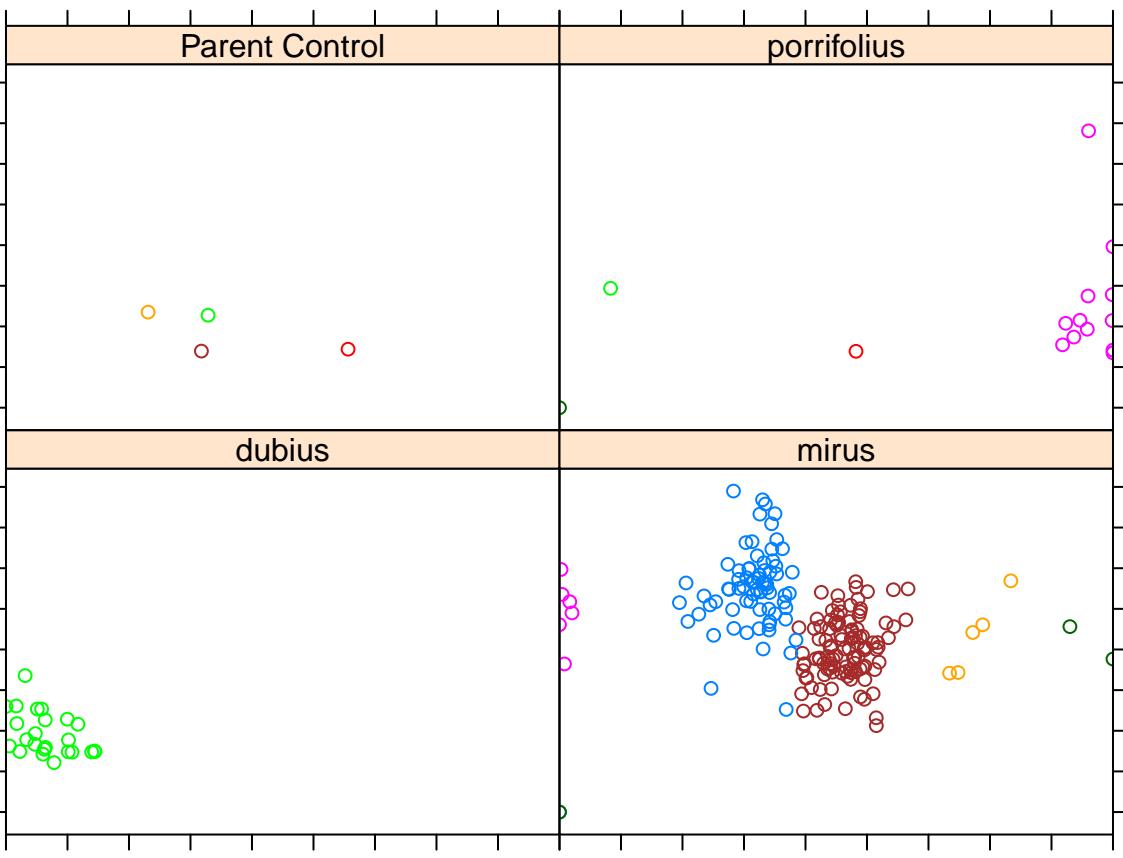
80
70
60
50
40
30
20
10
0

dubius

mirus

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig09694_573 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

porrifolius

90
80
70
60
50
40
30
20
10
0

dubius

mirus

90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

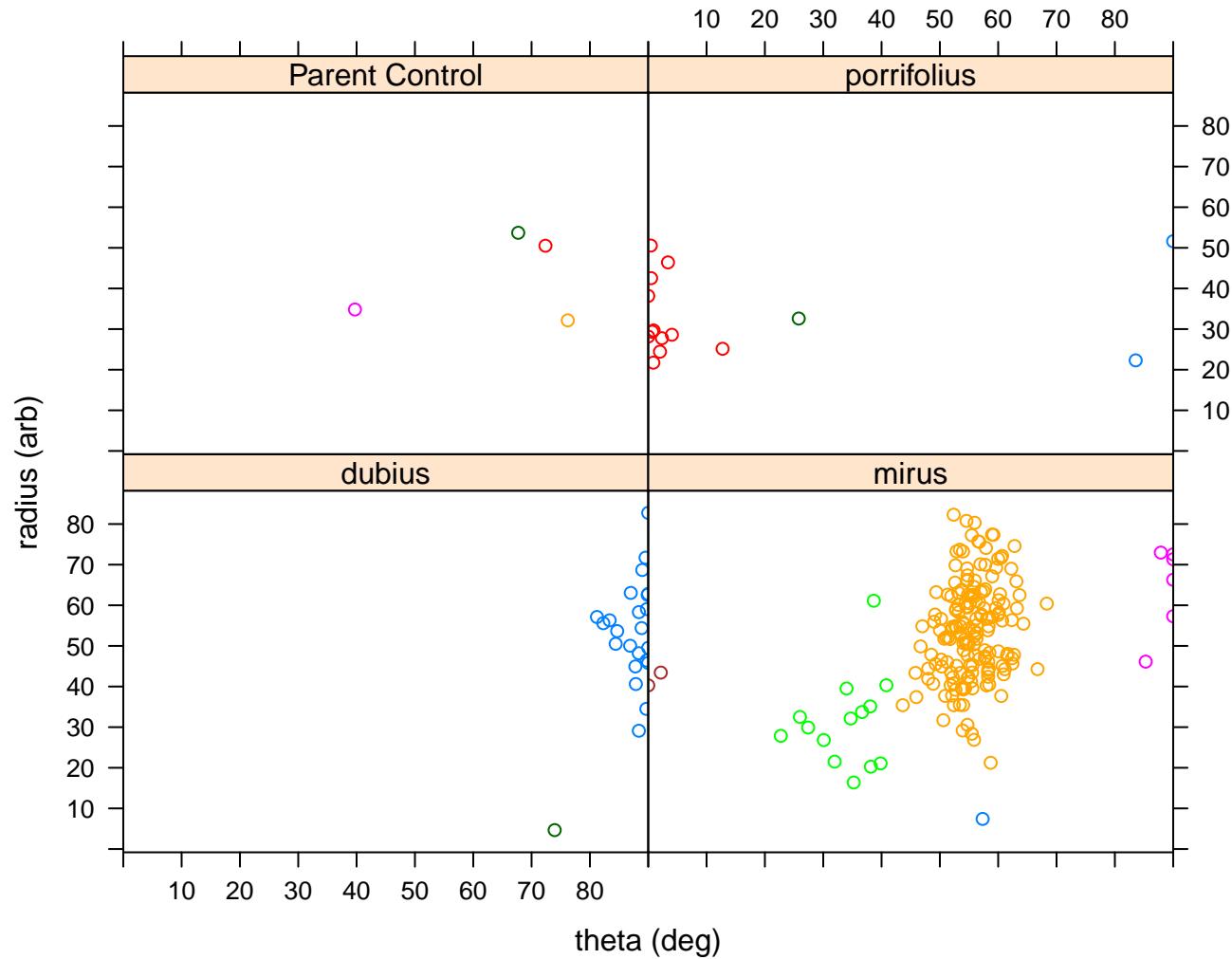
theta (deg)

radius (arb)

V_2_5_isotig09755_746 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○



V_2_5_isotig09755_746 cDNA

Call

Bad_Spectrum	○	LLLH	○
HH	○	LLLL	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

110
100
90
80
70
60
50
40
30
20
10
0

dubius

mirus

110
100
90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)

radius (arb)

V_2_5_isotig09855_192 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

80
70
60
50
40
30
20
10
0

dubius

mirus

radius (arb)

80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)

80
70
60
50
40
30
20
10
0

V_2_5_isotig09901_1092 gDNA

Call

Bad_Spectrum	LLL	No_Alleles
HH	LLL	PM3_1_1
HHHH	LLL	PM3_1_2
LH	LLL	PM3_2_1
LHHH	LLL	PM4
LL	LLL	PM5
LLHH	LLL	PM6
LLLH	LLL	

10 20 30 40 50 60 70 80

Parent Control

pratensis

radius (arb)

120
100
80
60
40
20
0

dubius

miscellus

120
100
80
60
40
20
0

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig09901_1092 cDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

140
120
100
80
60
40
20

dubius

miscellus

140
120
100
80
60
40
20

10 20 30 40 50 60 70 80

theta (deg)

radius (arb)

V_2_5_isotig09922_841 gDNA

Call

Bad_Spectrum	○	No_Aleles	○
HH	○	PM1	○
HHHH	○	PM2_1_1	○
LHHH	○	PM2_1_2	○
LL	○	PM2_2_1	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

porrifolius

80
70
60
50
40
30
20
10
0

dubius

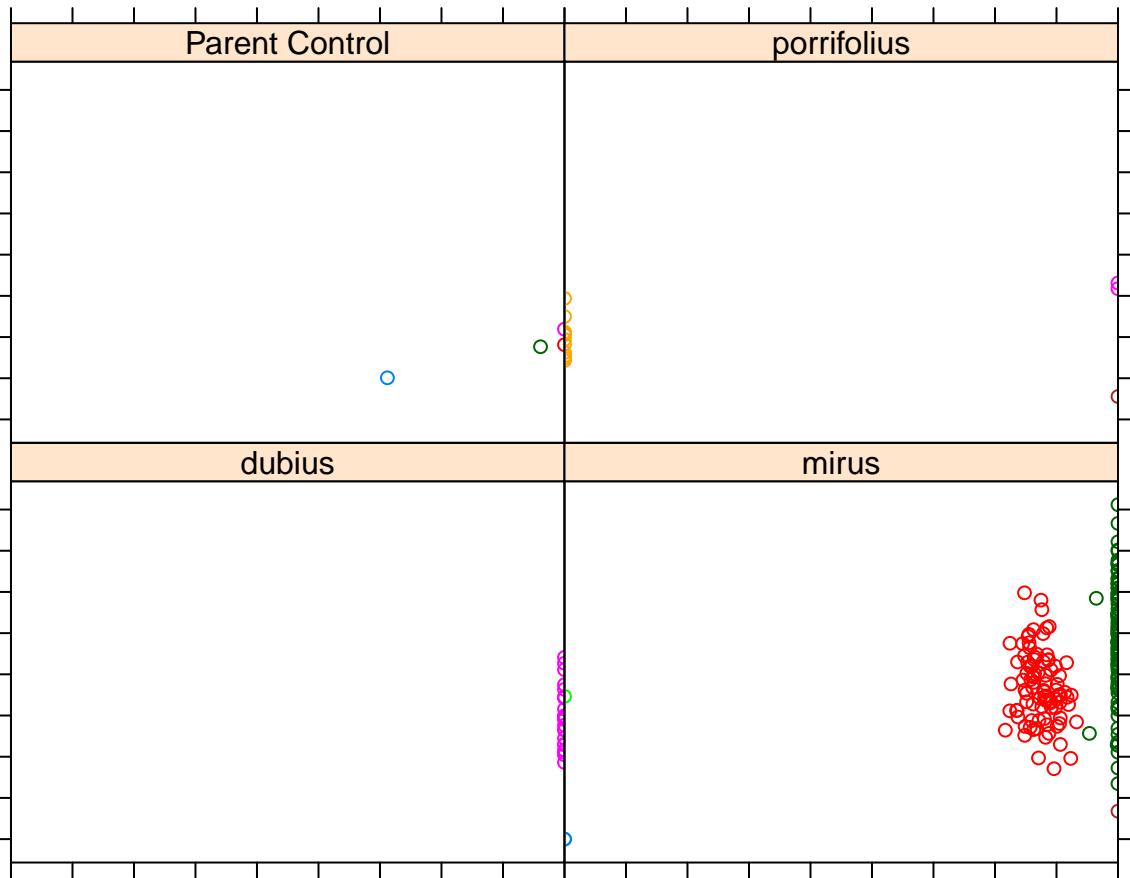
mirus

radius (arb)

80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig09922_841 cDNA

Call

HH	○	PM1	○
HHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLLL	○	PM2_2_1	○
No_Aleles			○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

70
60
50
40
30
20
10
0

dubius

mirus

radius (arb)

70

60

50

40

30

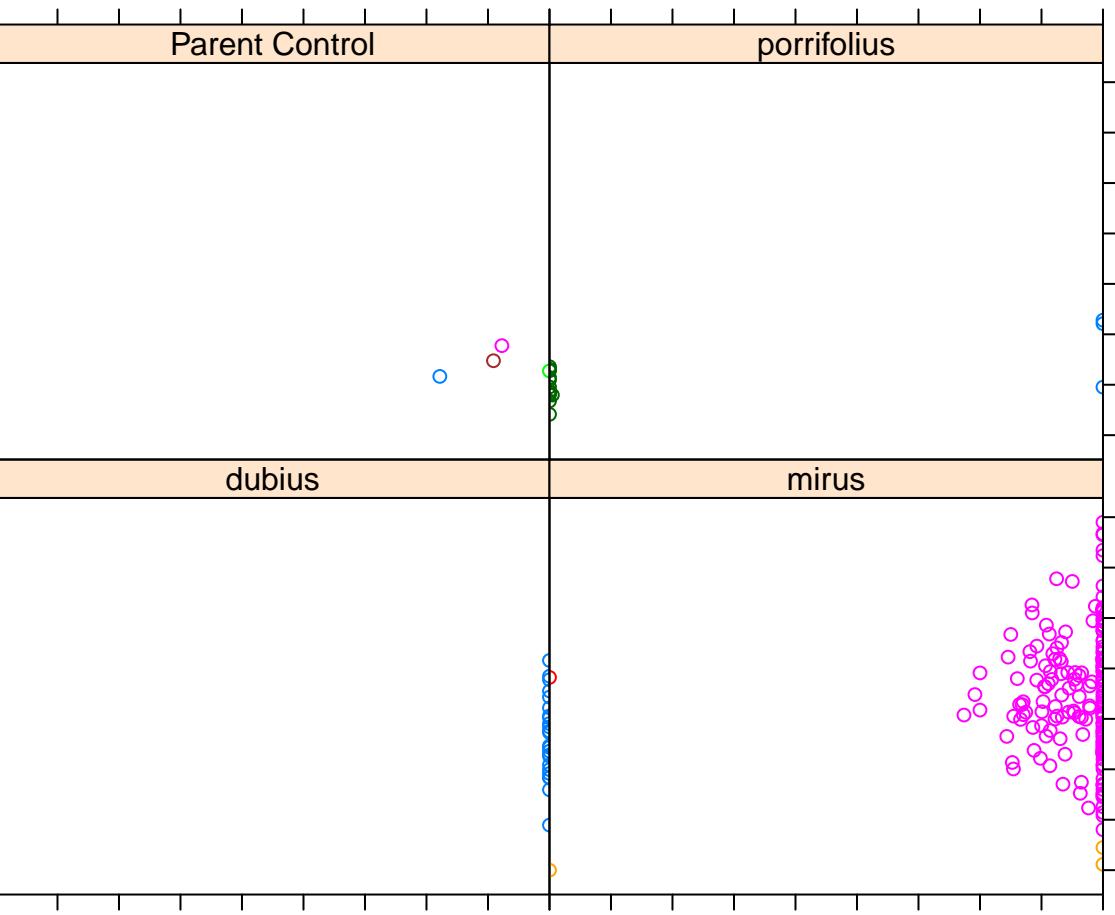
20

10

0

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig10006_66 gDNA

Call

HH	○	PM3_1_1	○
LL	○	PM3_1_2	○
LLHH	○	PM3_2_1	○
LLLH	○	PM4	○
LLLL	○	PM5	○
No_Aleles	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

14
12
10
8
6
4
2
0

dubius

miscellus

14
12
10
8
6
4
2
0

10 20 30 40 50 60 70 80

theta (deg)

radius (arb)

V_2_5_isotig10006_66 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

100
90
80
70
60
50
40
30
20
10
0

radius (arb)

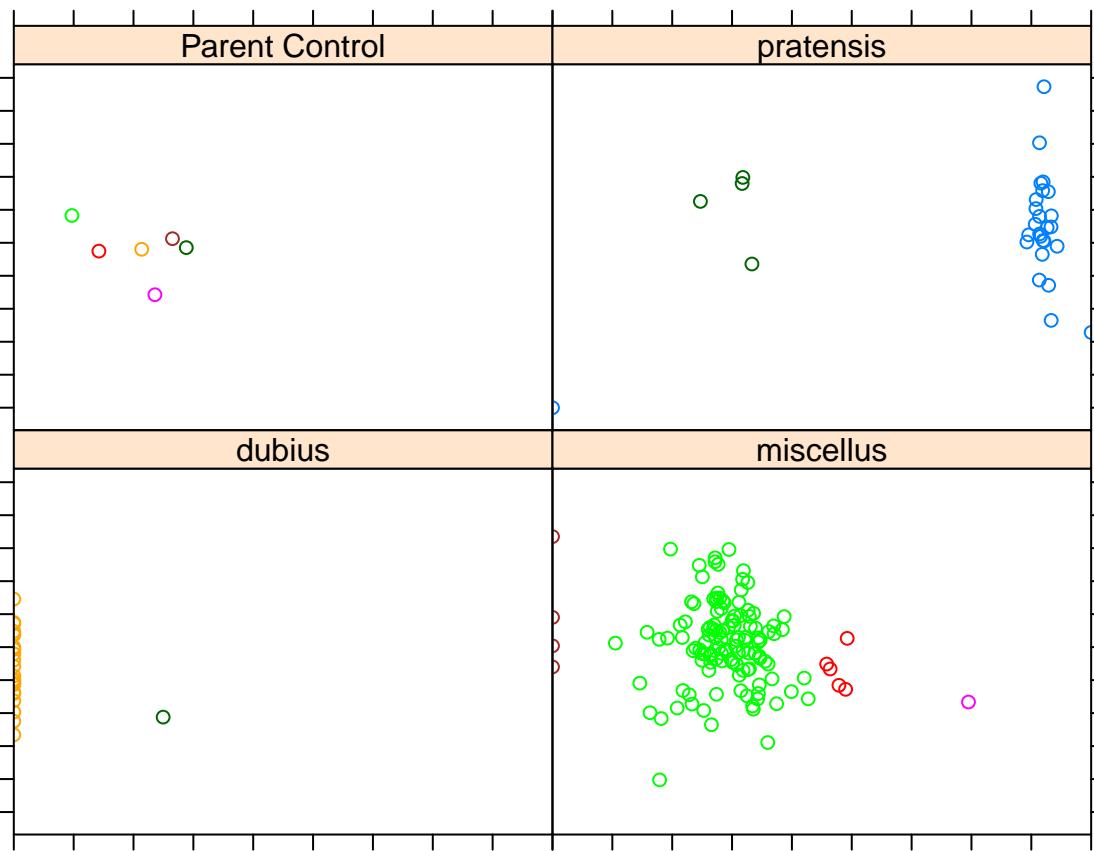
dubius

miscellus

100
90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig10011_636 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

120
100
80
60
40
20
0

dubius

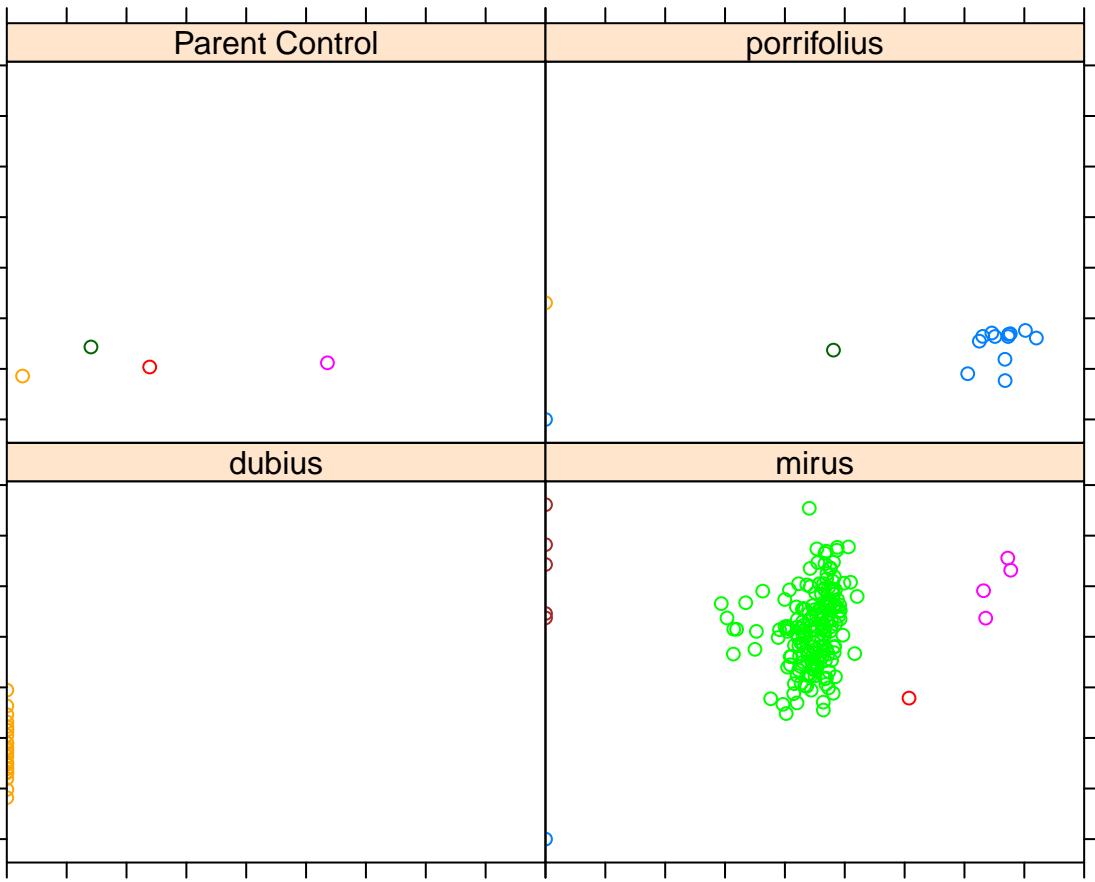
mirus

radius (arb)

120
100
80
60
40
20
0

10 20 30 40 50 60 70 80

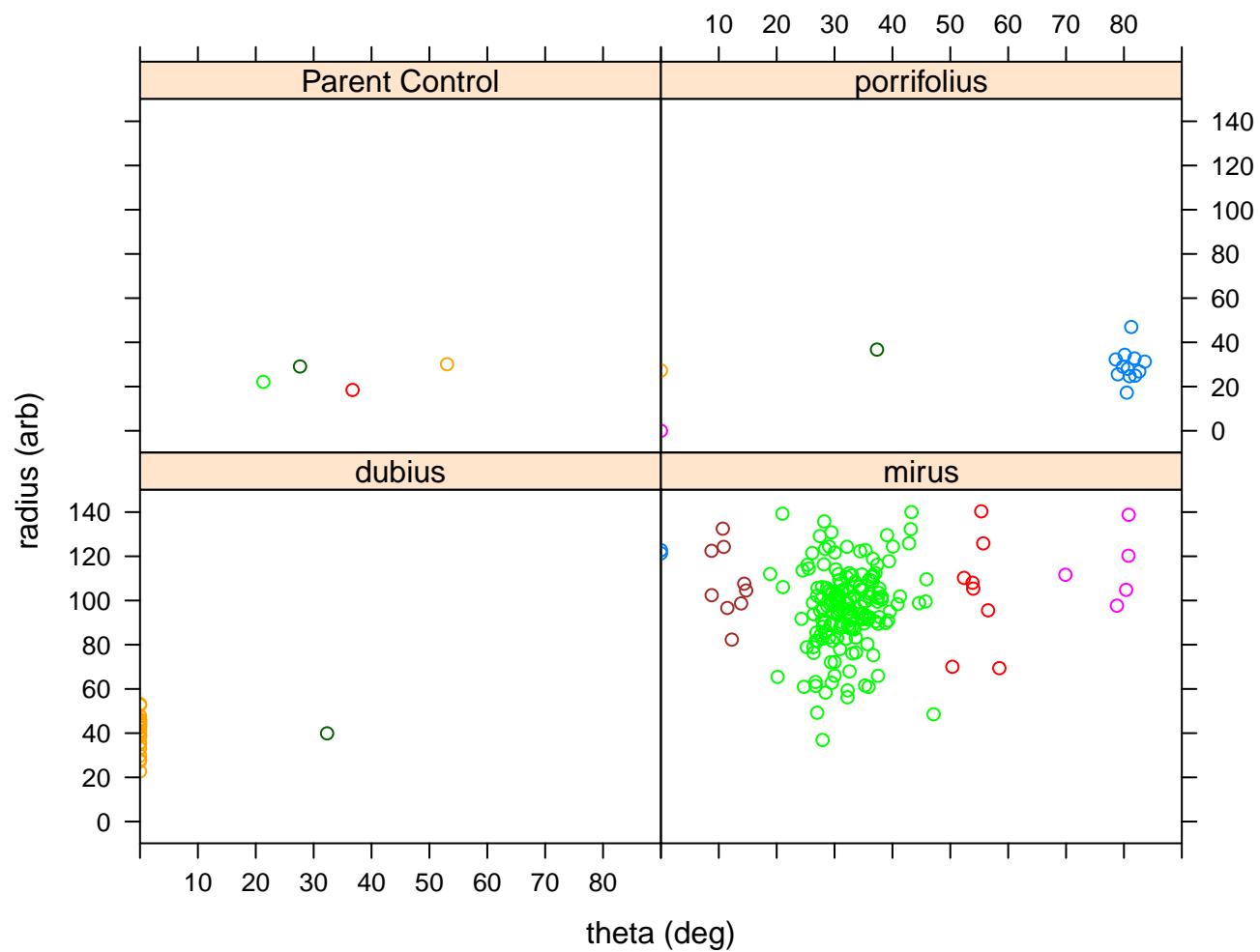
theta (deg)



V_2_5_isotig10011_636 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig10040_682 cDNA

Call

HH	○	LLLL	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		

10 20 30 40 50 60 70 80

Parent Control

porrifolius

70
60
50
40
30
20
10

dubius

mirus

radius (arb)

70

60

50

40

30

20

10

10 20 30 40 50 60 70 80

theta (deg)

10 20 30 40 50 60 70 80

V_2_5_isotig10052_809 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		

10 20 30 40 50 60 70 80

Parent Control

porrifolius

110
100
90
80
70
60
50
40
30
20
10

dubius

mirus

110
100
90
80
70
60
50
40
30
20
10

10 20 30 40 50 60 70 80

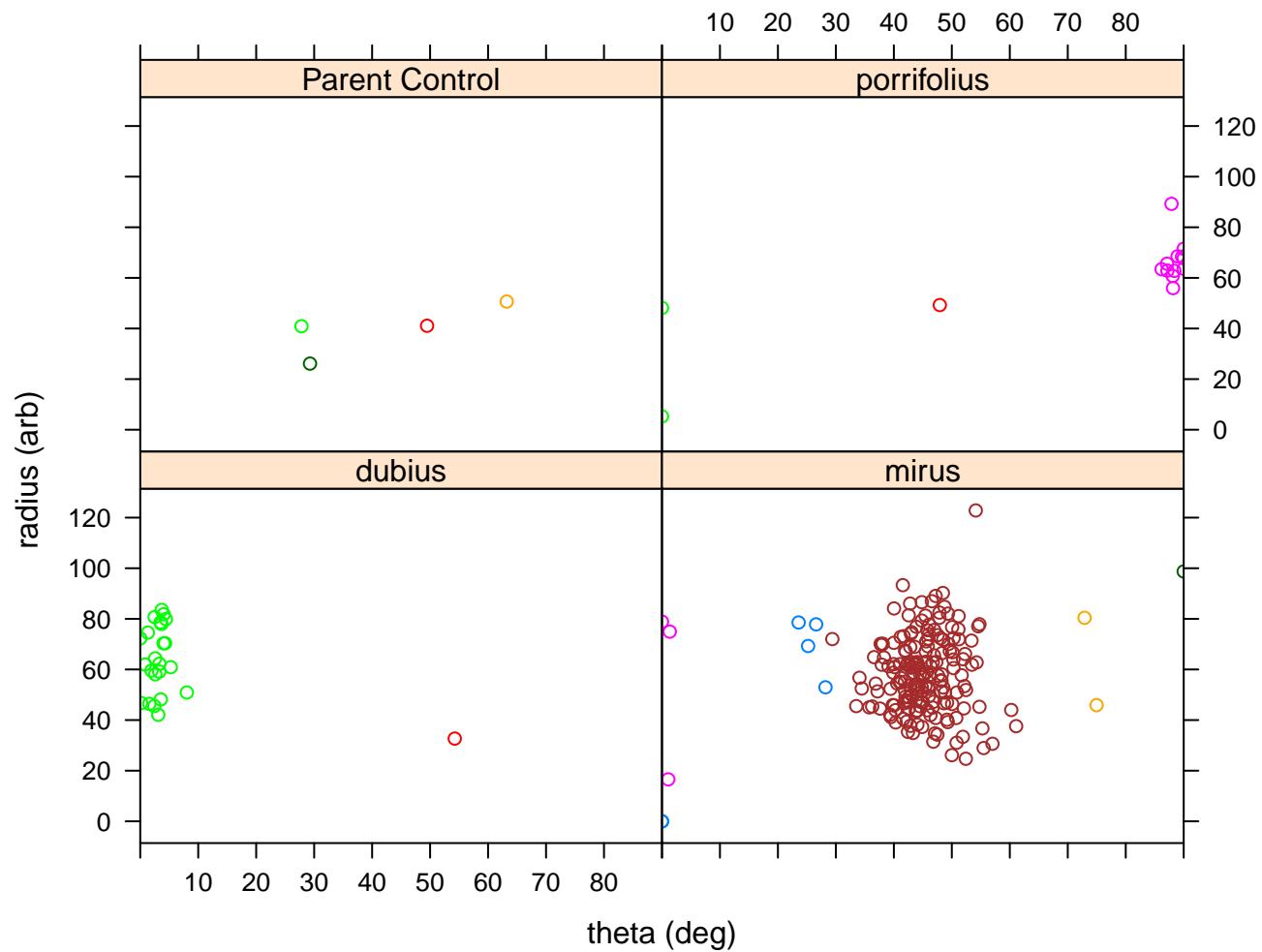
theta (deg)

radius (arb)

V_2_5_isotig10052_809 cDNA

Call

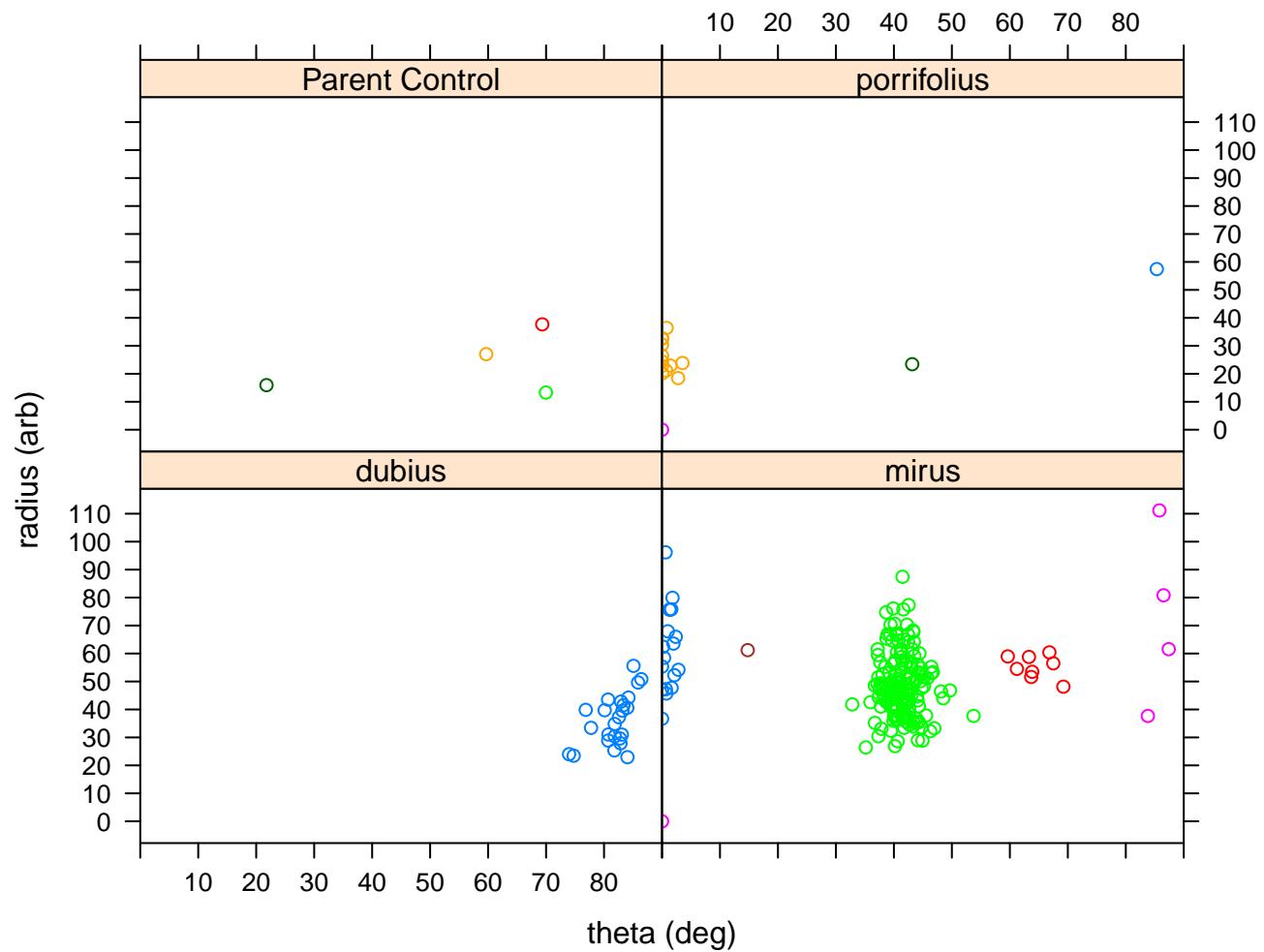
Bad_Spectrum	LLLH	LLLH
HH	LLLL	LLLL
HHHH	PM1	PM1
LH	PM2_1_1	PM2_1_1
LHHH	PM2_1_2	PM2_1_2
LL	PM2_2_1	PM2_2_1
LLHH		



V_2_5_isotig10099_214 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig10099_214 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

porrifolius

120
110
100
90
80
70
60
50
40
30
20
10
0

dubius

mirus

120
110
100
90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)

radius (arb)

V_2_5_isotig10099_875 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

radius (arb)

80
70
60
50
40
30
20
10

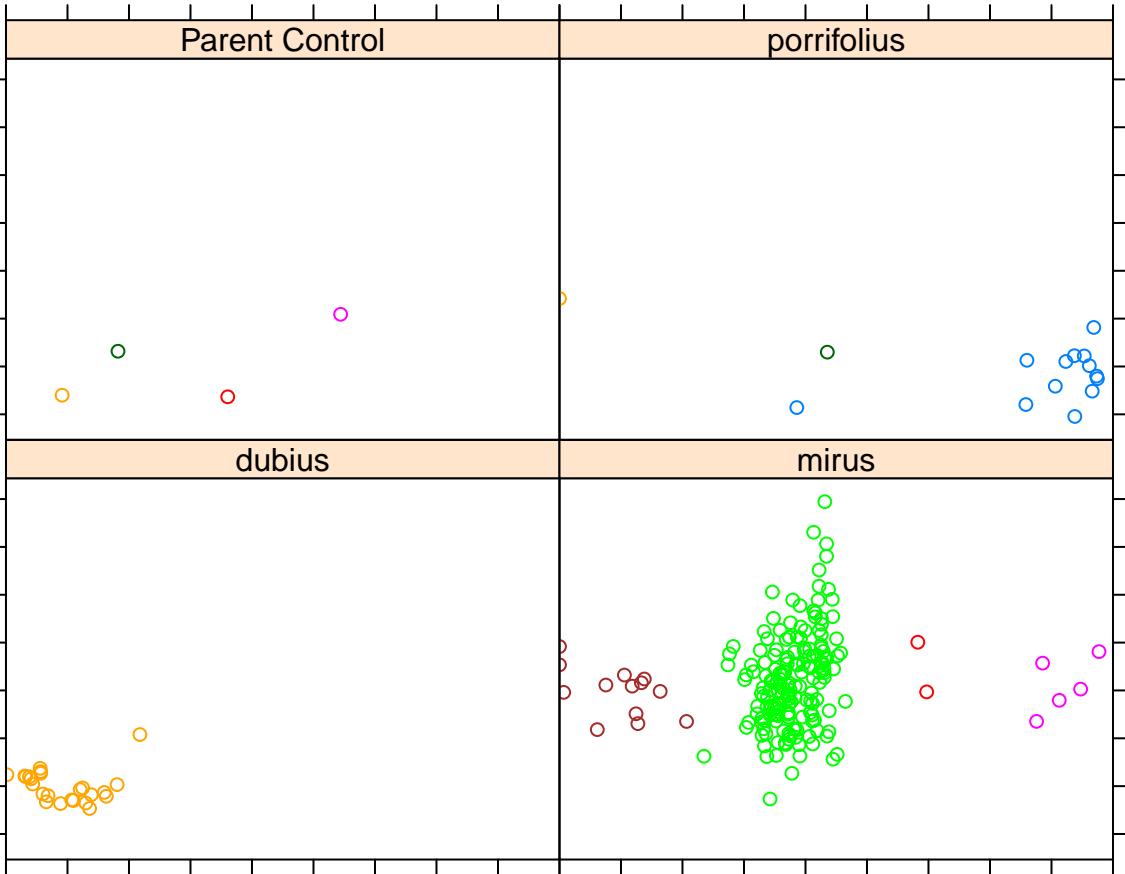
dubius

mirus

80
70
60
50
40
30
20
10

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig10099_875 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

110
100
90
80
70
60
50
40
30
20
10
0

dubius

mirus

110
100
90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)

radius (arb)

V_2_5_isotig10129_421 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

radius (arb)

45
40
35
30
25
20
15
10
5
0

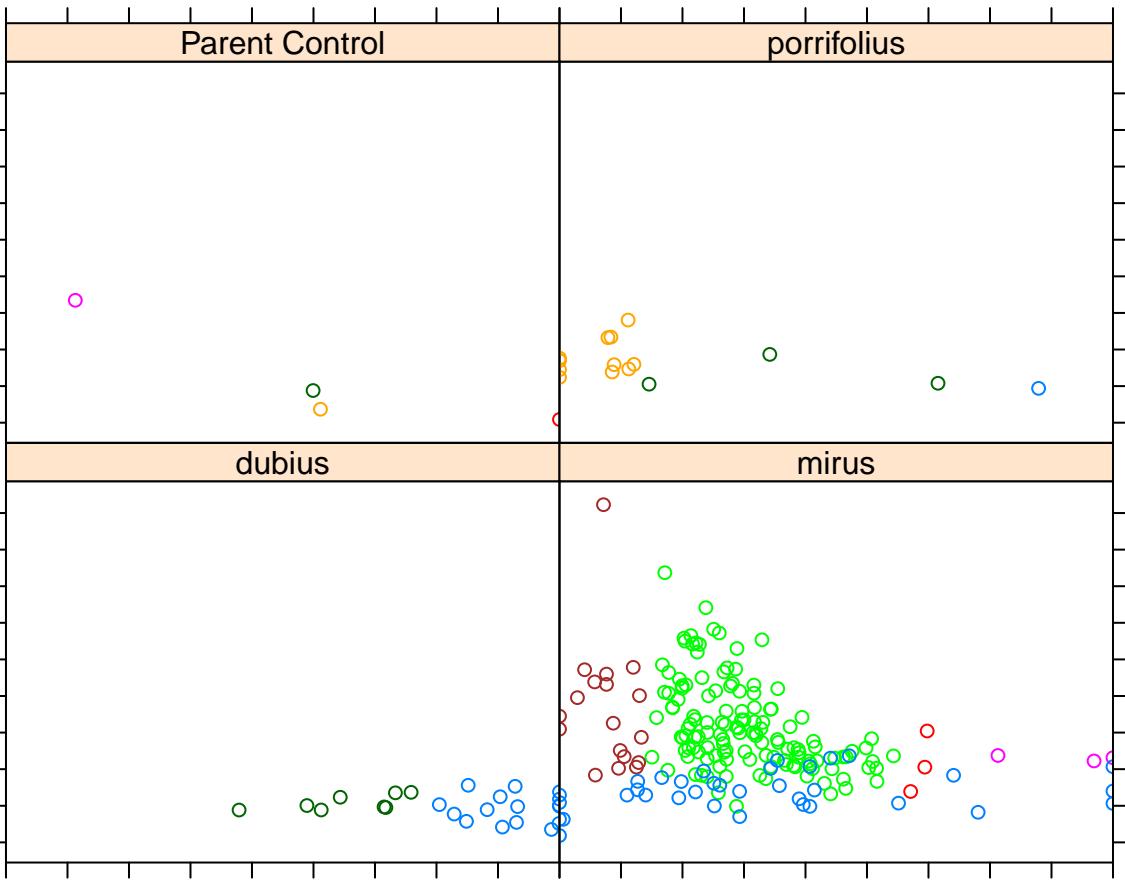
dubius

mirus

45
40
35
30
25
20
15
10
5
0

10 20 30 40 50 60 70 80

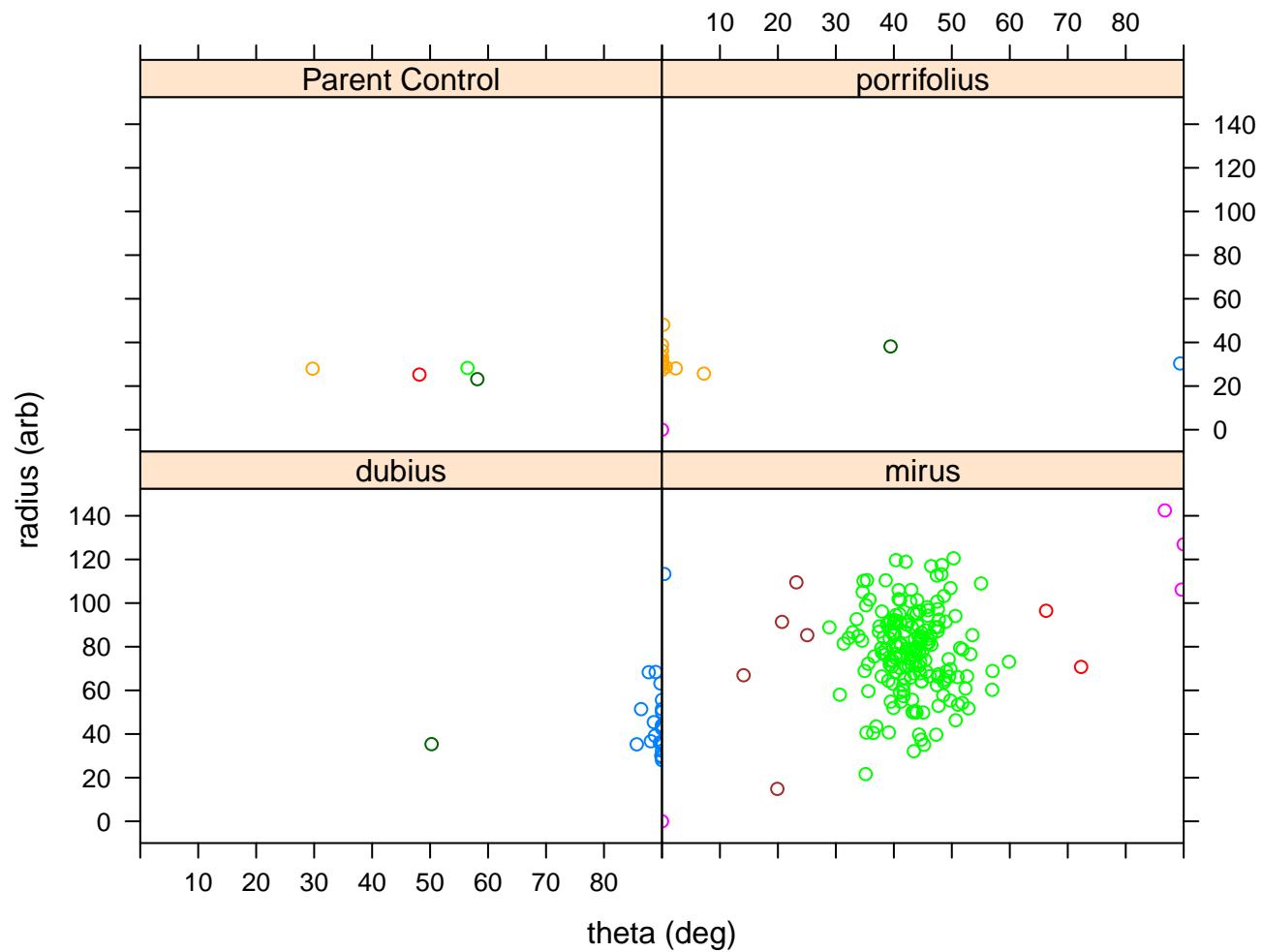
theta (deg)



V_2_5_isotig10129_421 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig10135_628 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		

10 20 30 40 50 60 70 80

Parent Control

porrifolius

100
90
80
70
60
50
40
30
20

dubius

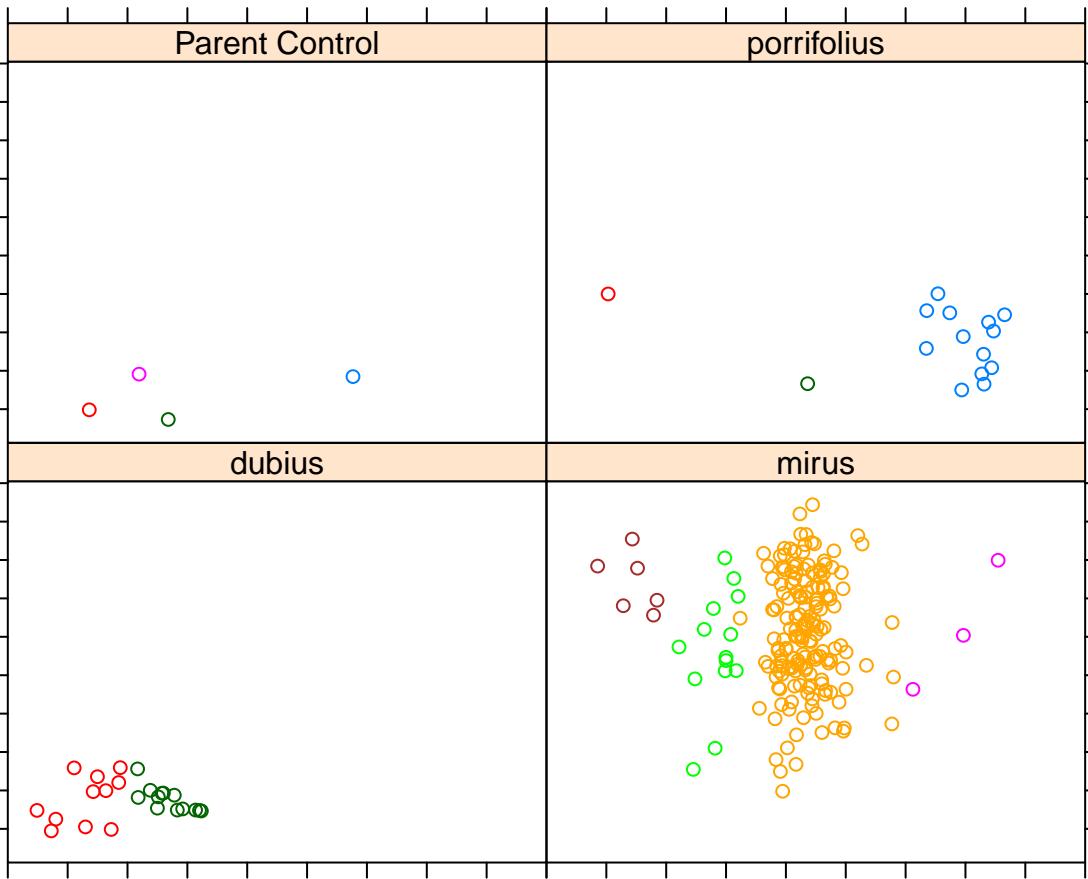
mirus

100
90
80
70
60
50
40
30
20

radius (arb)

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig10135_628 cDNA

Call

HH	○	LLLH	○
HHHH	○	LLLL	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

140
130
120
110
100
90
80
70
60
50
40
30
20

dubius

mirus

140
130
120
110
100
90
80
70
60
50
40
30
20

10 20 30 40 50 60 70 80

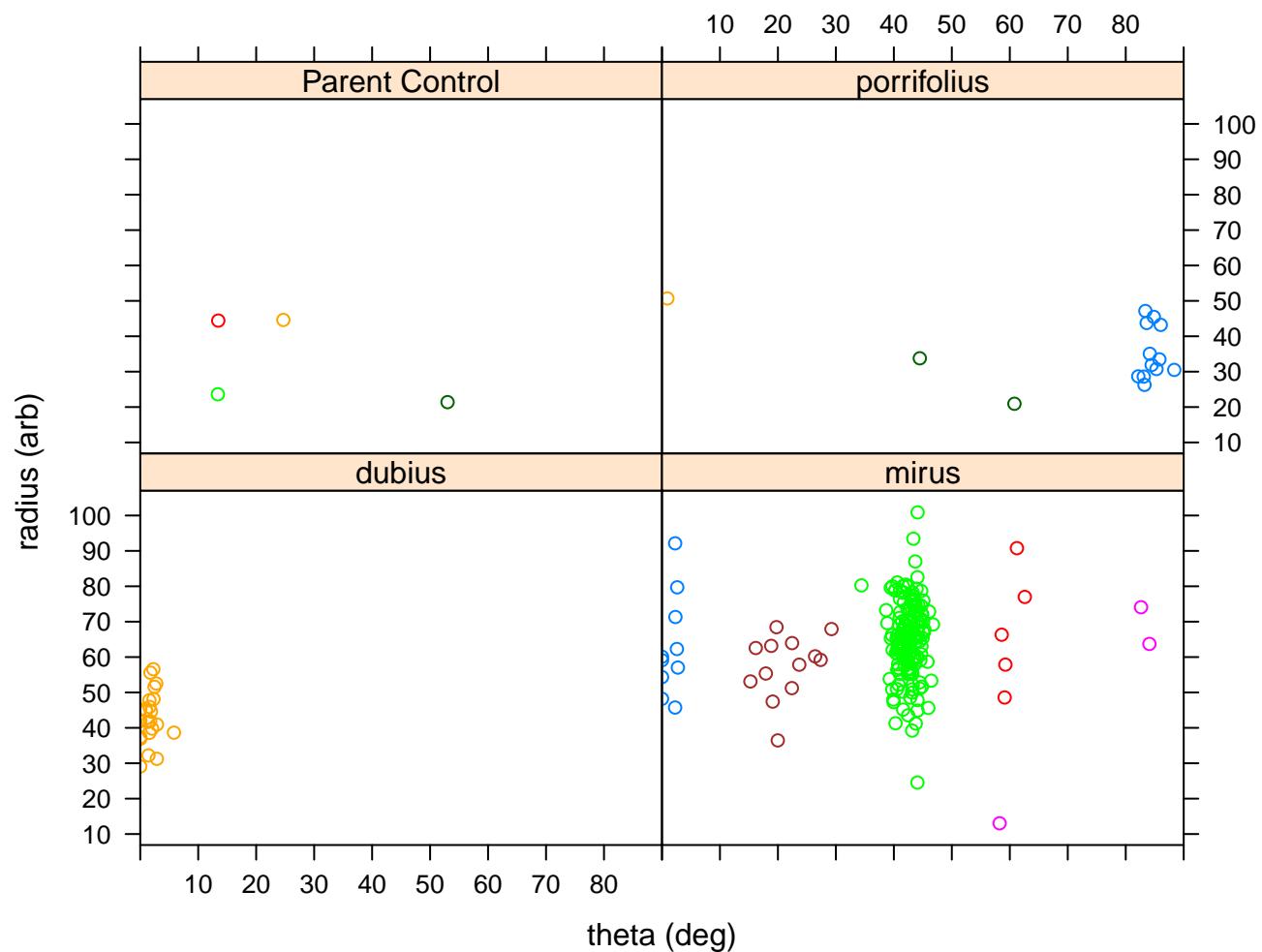
theta (deg)

radius (arb)

V_2_5_isotig10135_697 gDNA

Call

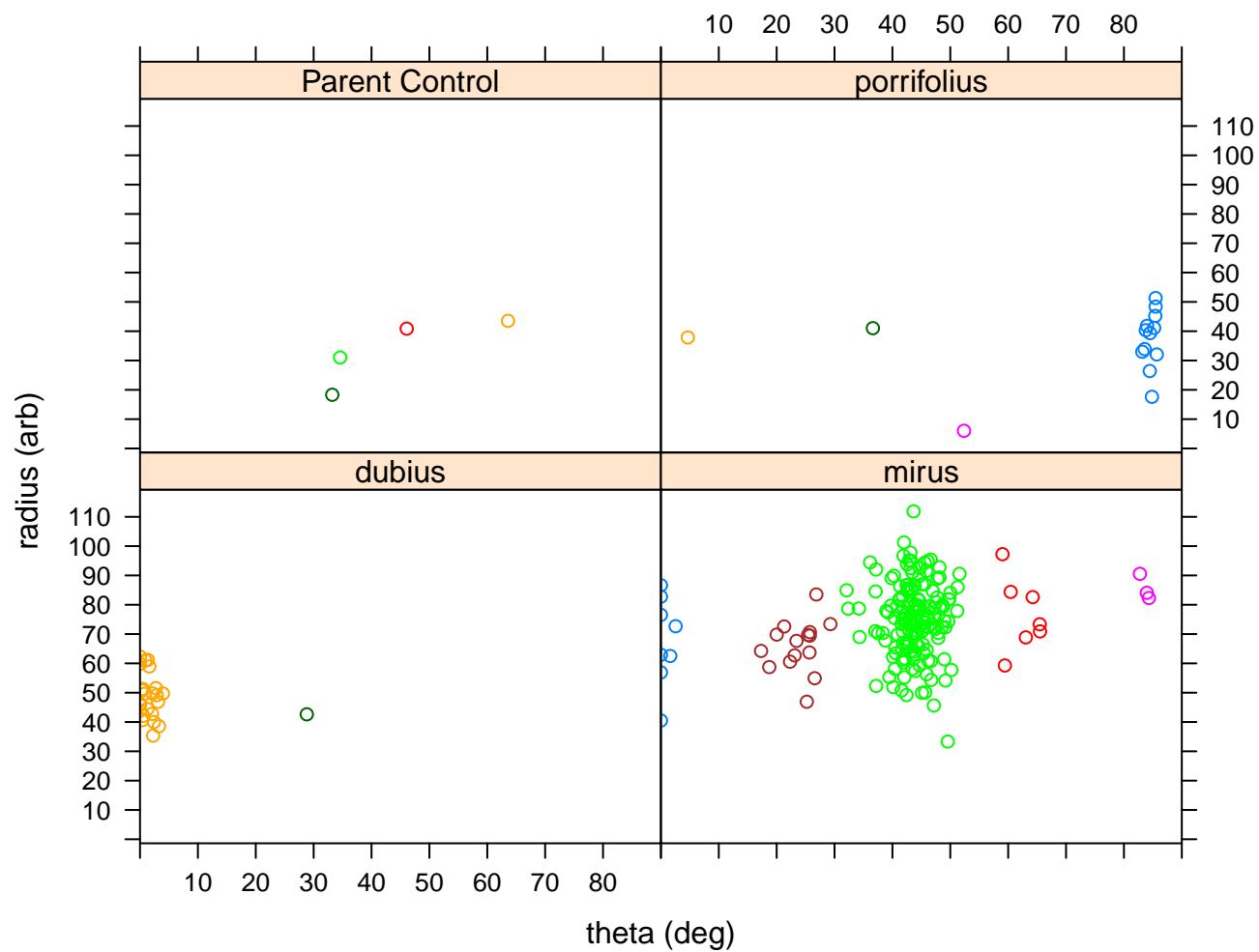
HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig10135_697 cDNA

Call

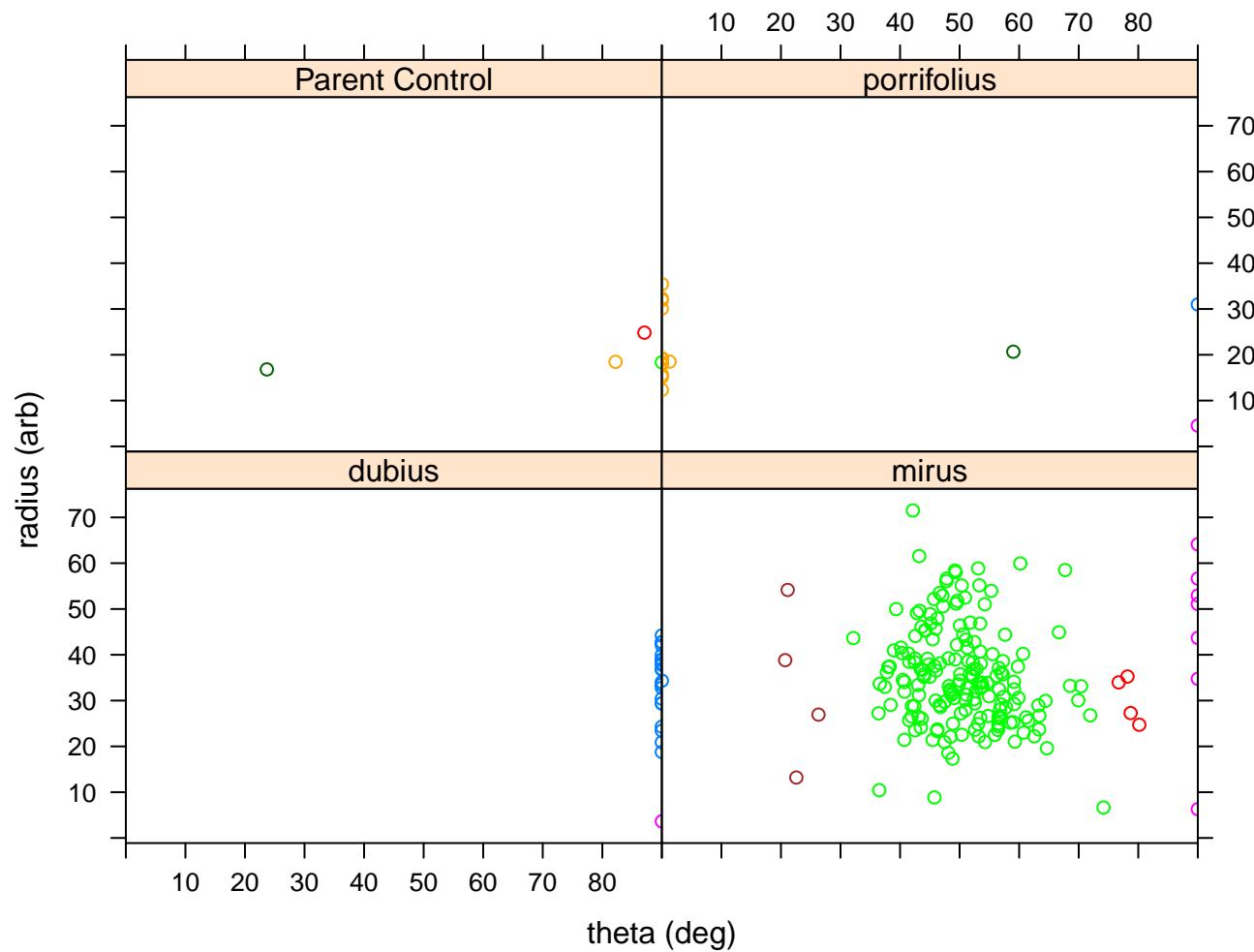
HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig10142_92 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig10142_92 cDNA

Call

Bad_Spectrum	○	No_Alleles	○
HH	○	PM1	○
HHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

porrifolius

80
70
60
50
40
30
20
10
0

dubius

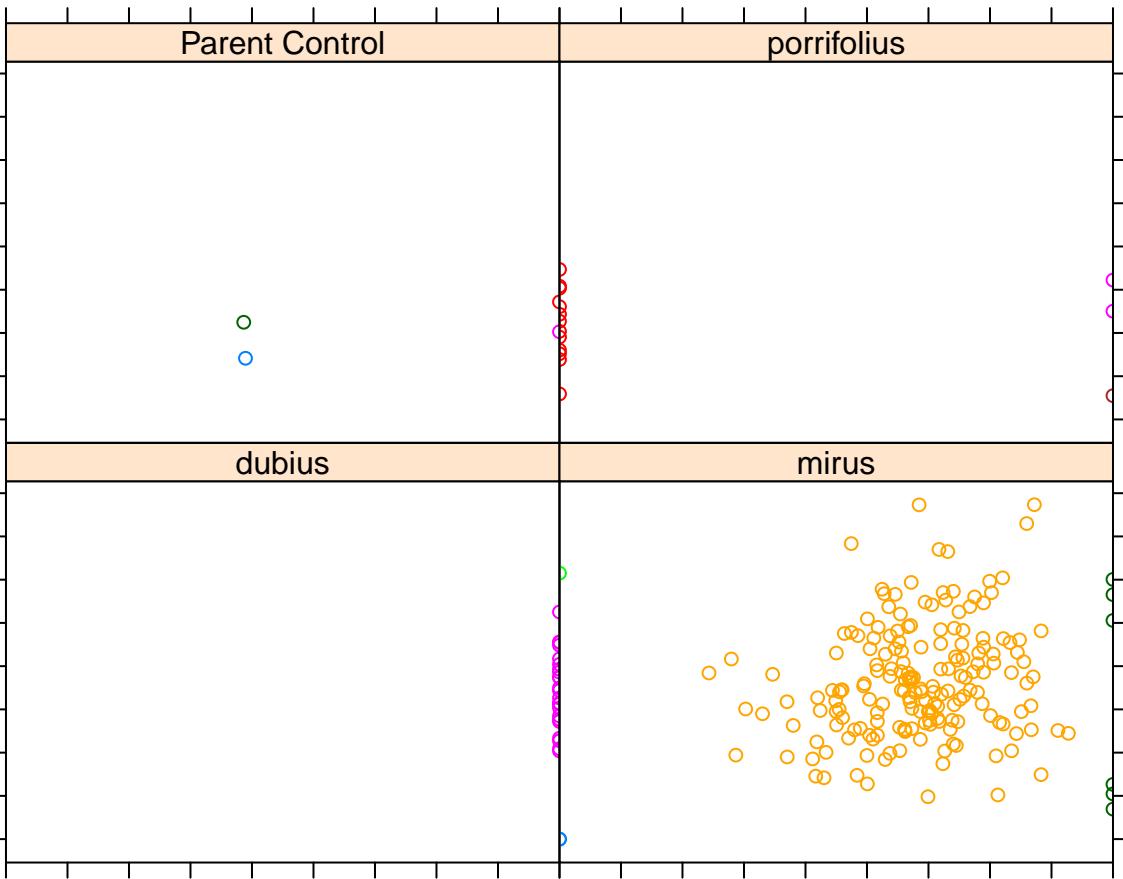
mirus

radius (arb)

80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig10167_998 gDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

porrifolius

70
60
50
40
30
20
10
0

dubius

mirus

radius (arb)

70

60

50

40

30

20

10

0

10 20 30 40 50 60 70 80

theta (deg)

10

20

30

40

50

60

70

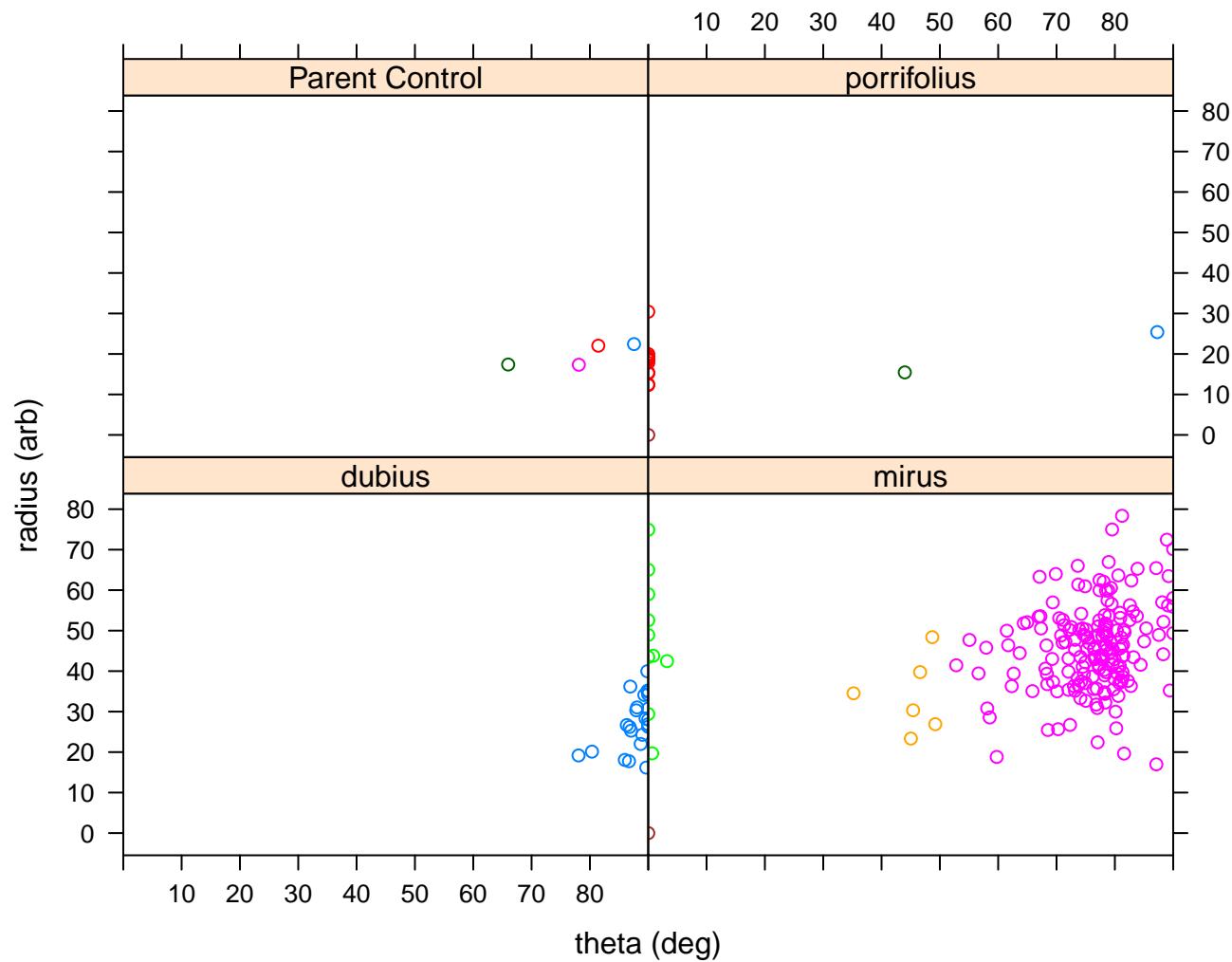
80

theta (deg)

V_2_5_isotig10167_998 cDNA

Call

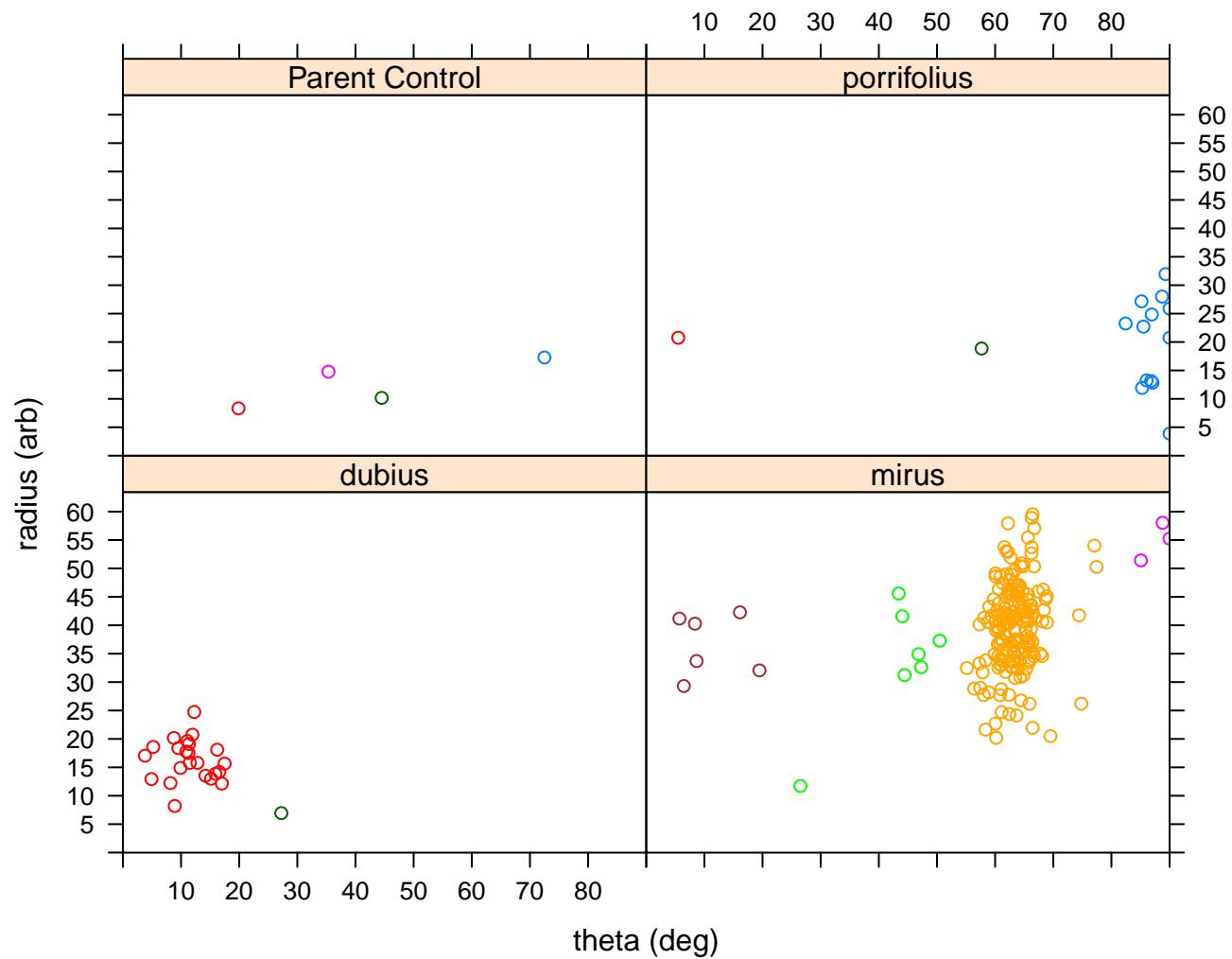
HH	○	No_Aleles	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLL	○		



V_2_5_isotig10174_396 gDNA

Call

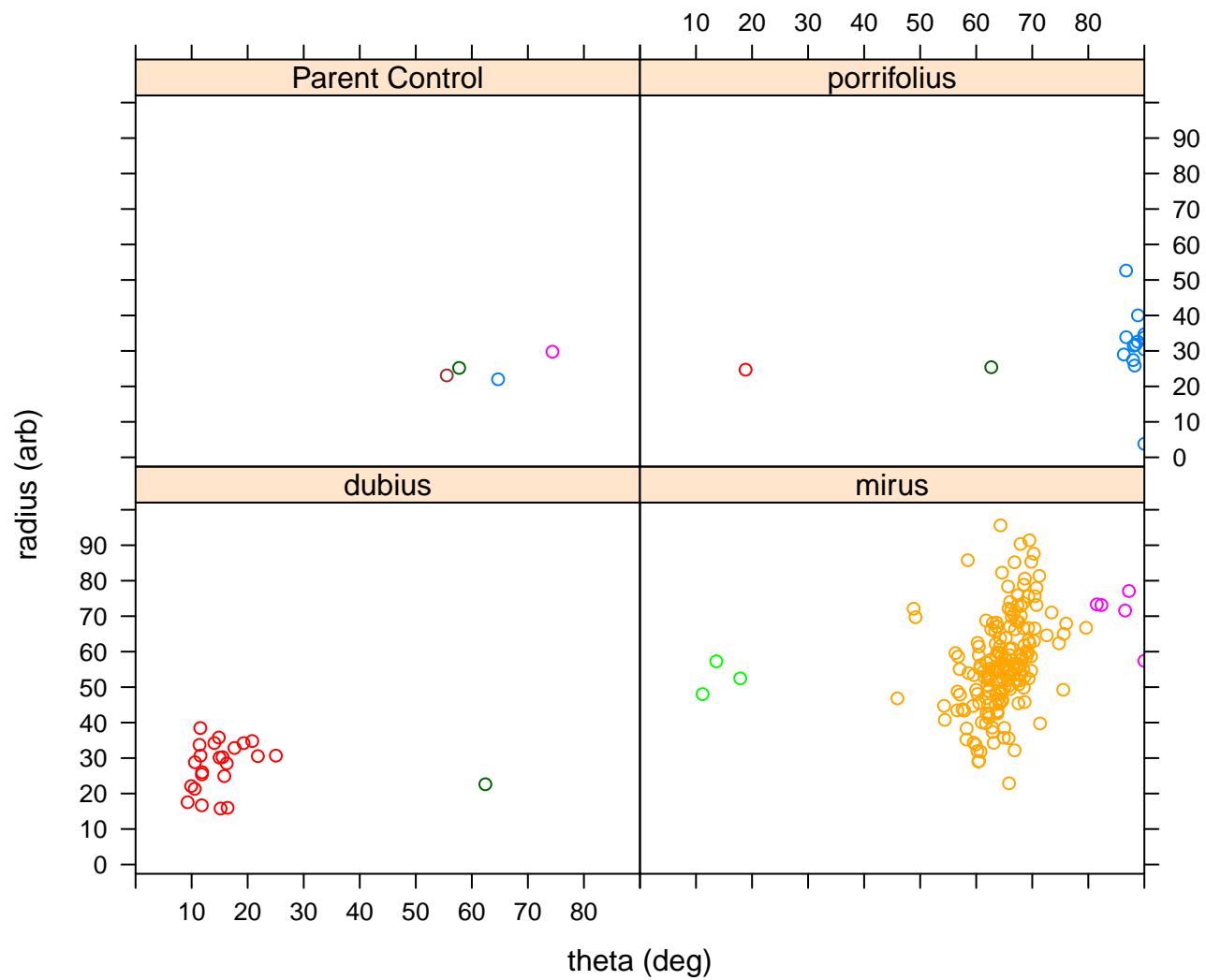
HH	○	LLLL	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig10174_396 cDNA

Call

HH	○	LLLL	●
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○



V_2_5_isotig10198_151 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

100
90
80
70
60
50
40
30
20
10
0

dubius

mirus

100
90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)

radius (arb)

V_2_5_isotig10198_151 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

porrifolius

90
80
70
60
50
40
30
20
10
0

dubius

mirus

radius (arb)

90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)

20

10

0

50

40

30

20

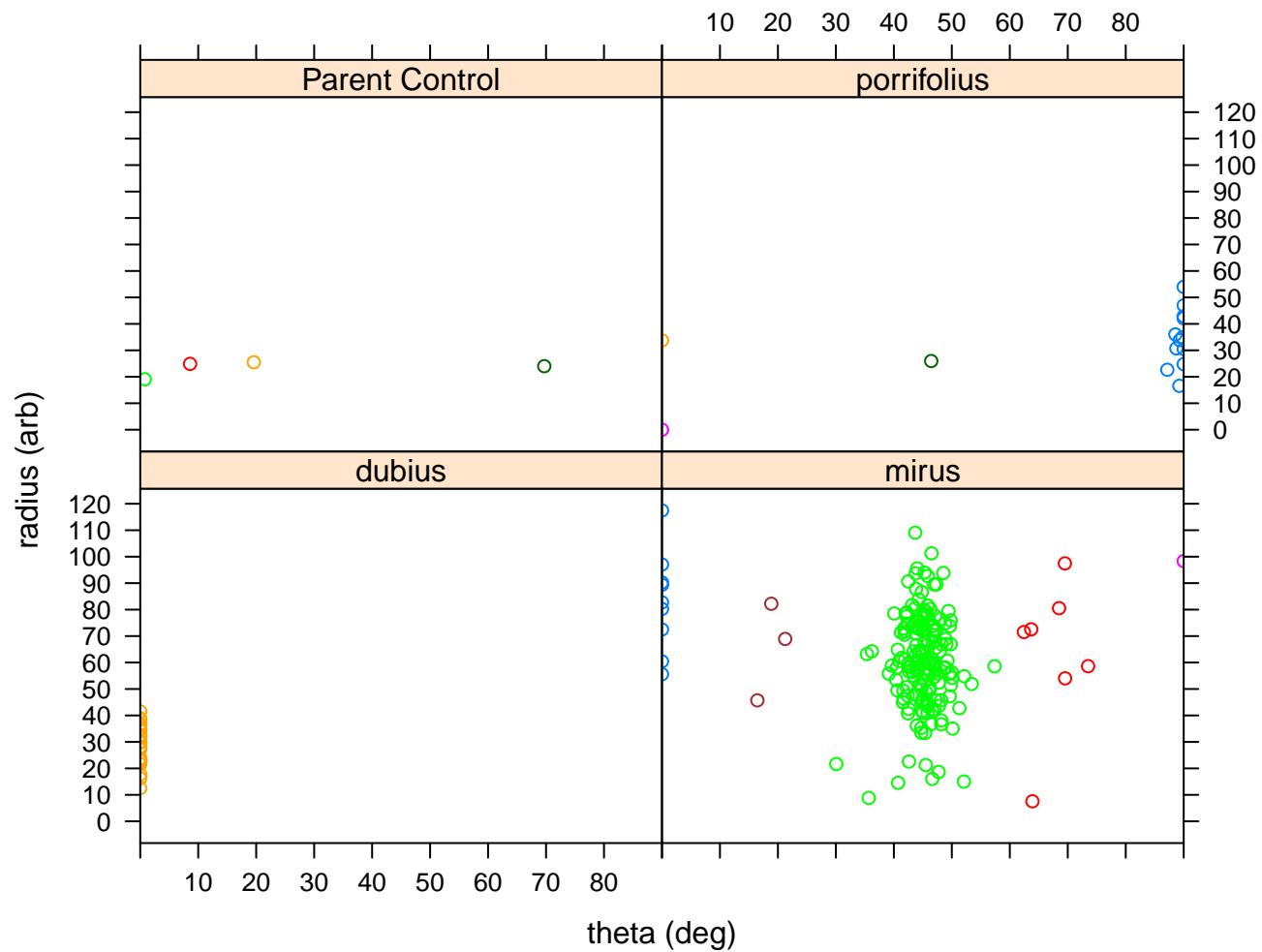
10

0

V_2_5_isotig10198_275 gDNA

Call

HH	○	LLLL	○
HHHH	●	No_Aleles	●
LH	○	PM1	○
LHHH	●	PM2_1_1	●
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	●		



V_2_5_isotig10198_275 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LHHH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

120
110
100
90
80
70
60
50
40
30
20
10
0

dubius

mirus

120
110
100
90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

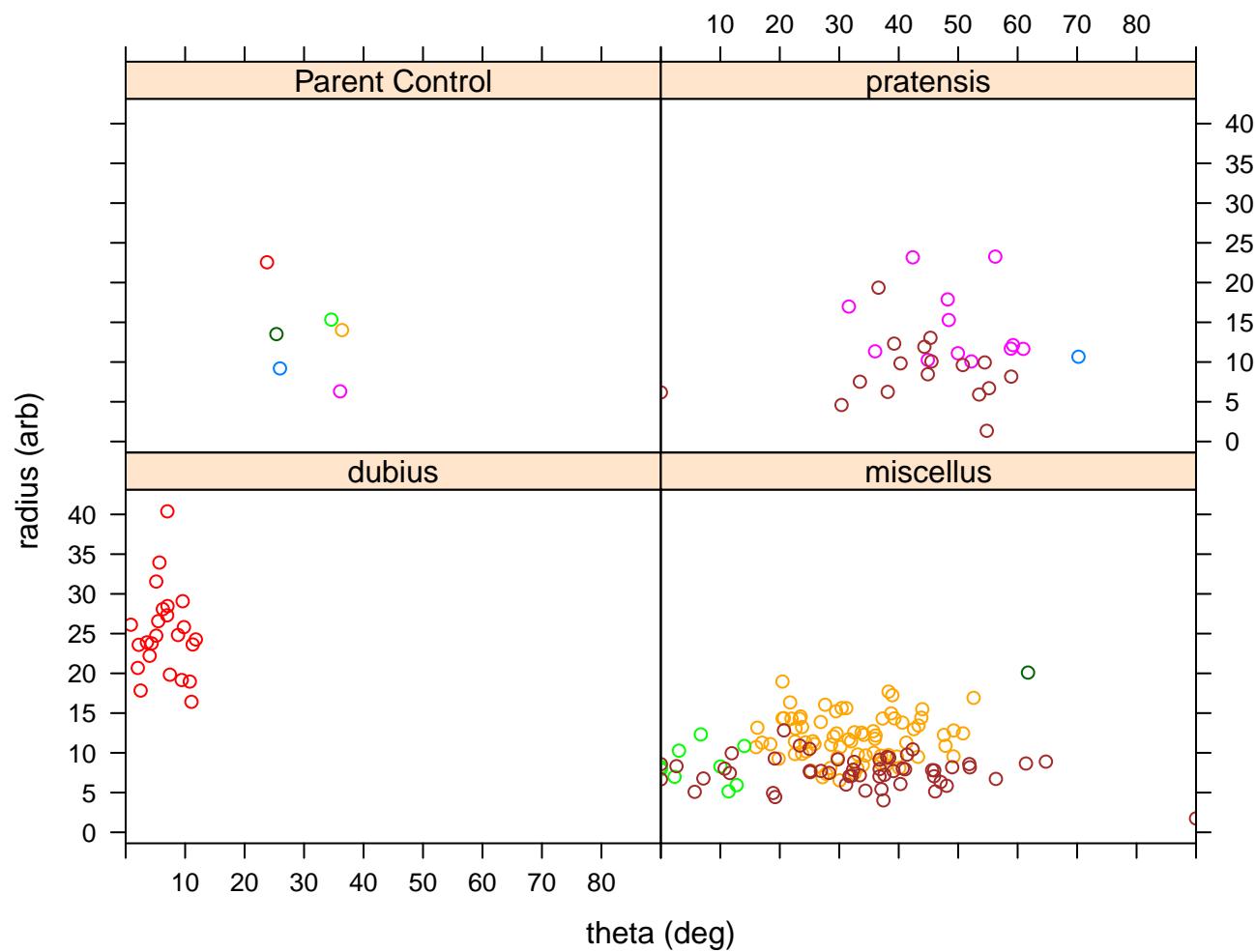
theta (deg)

radius (arb)

V_2_5_isotig10215_145 gDNA

Call

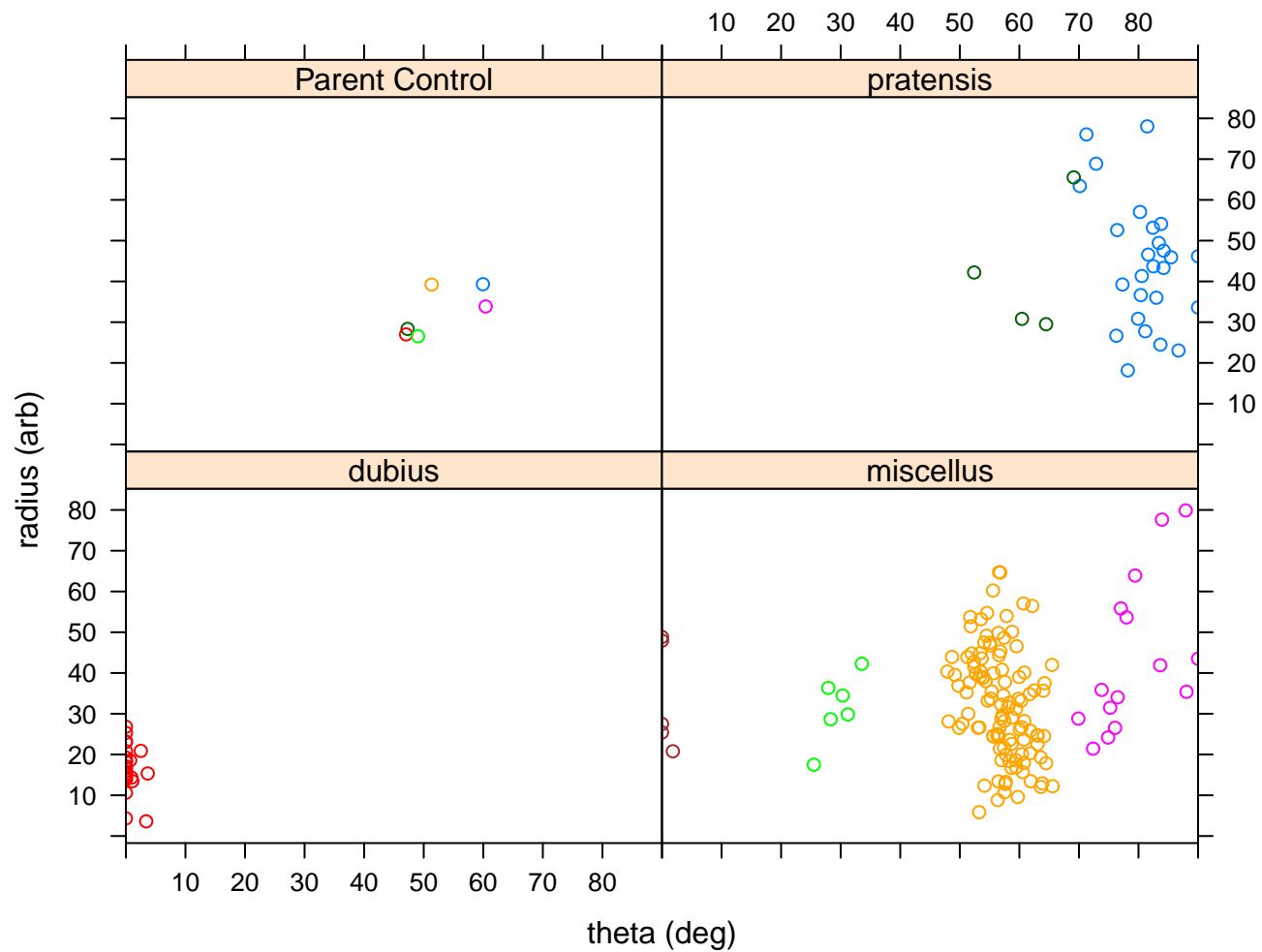
HH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○
No_Alleles	○		



V_2_5_isotig10215_178 gDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		



V_2_5_isotig10215_178 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

110
100
90
80
70
60
50
40
30
20
10
0

dubius

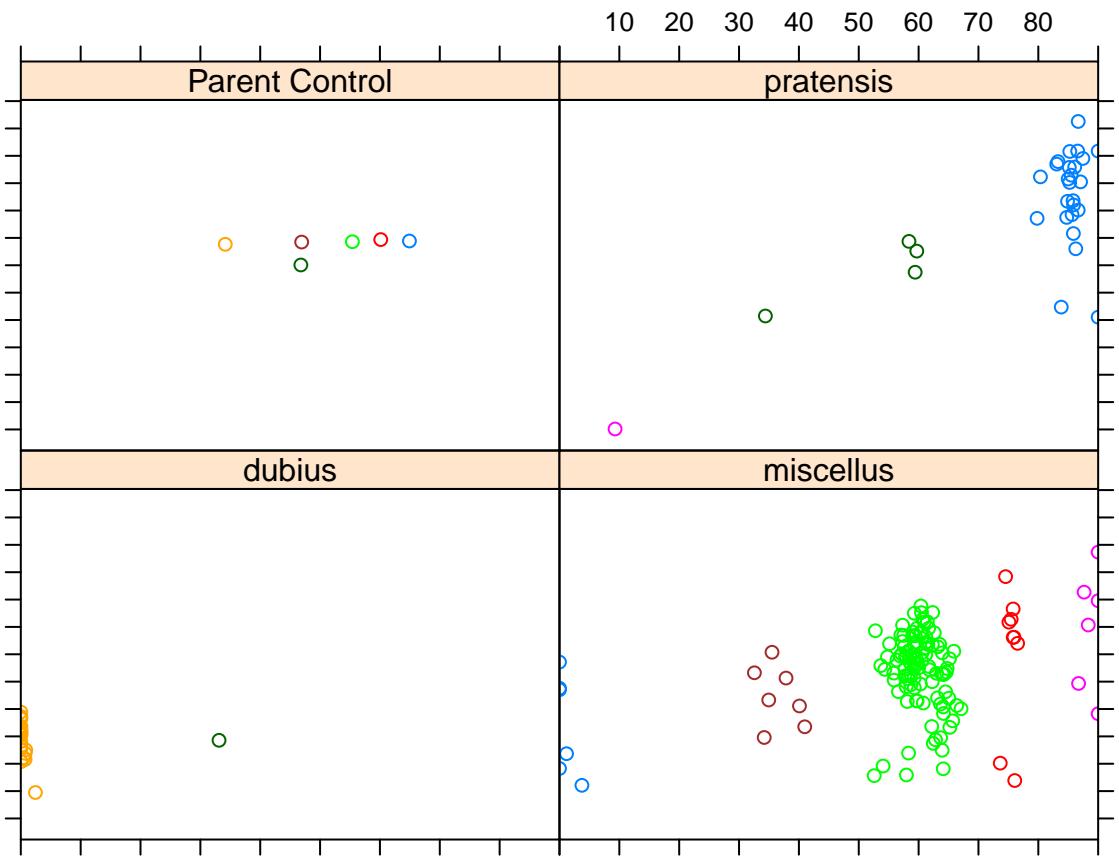
miscellus

radius (arb)

110
100
90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig10215_559 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

130
120
110
100
90
80
70
60
50
40
30
20
10

dubius

miscellus

130
120
110
100
90
80
70
60
50
40
30
20
10

10 20 30 40 50 60 70 80

theta (deg)

radius (arb)

V_2_5_isotig10215_559 cDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

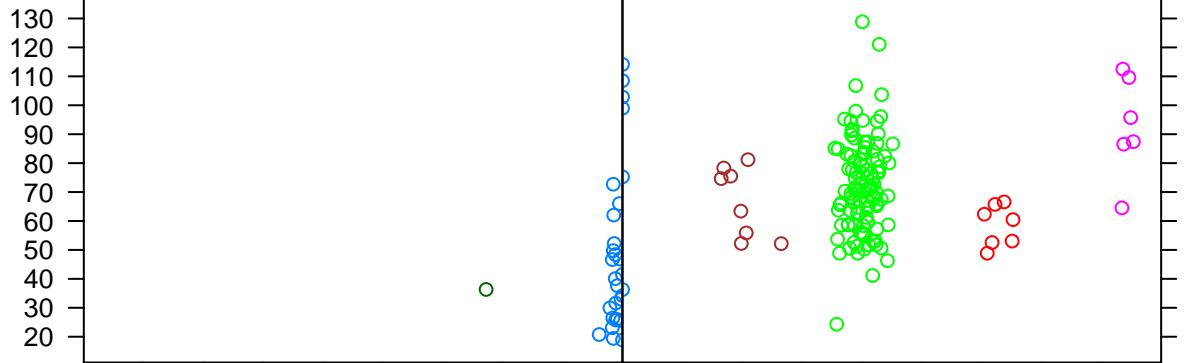
Parent Control

pratensis

130
120
110
100
90
80
70
60
50
40
30
20

dubius

miscellus

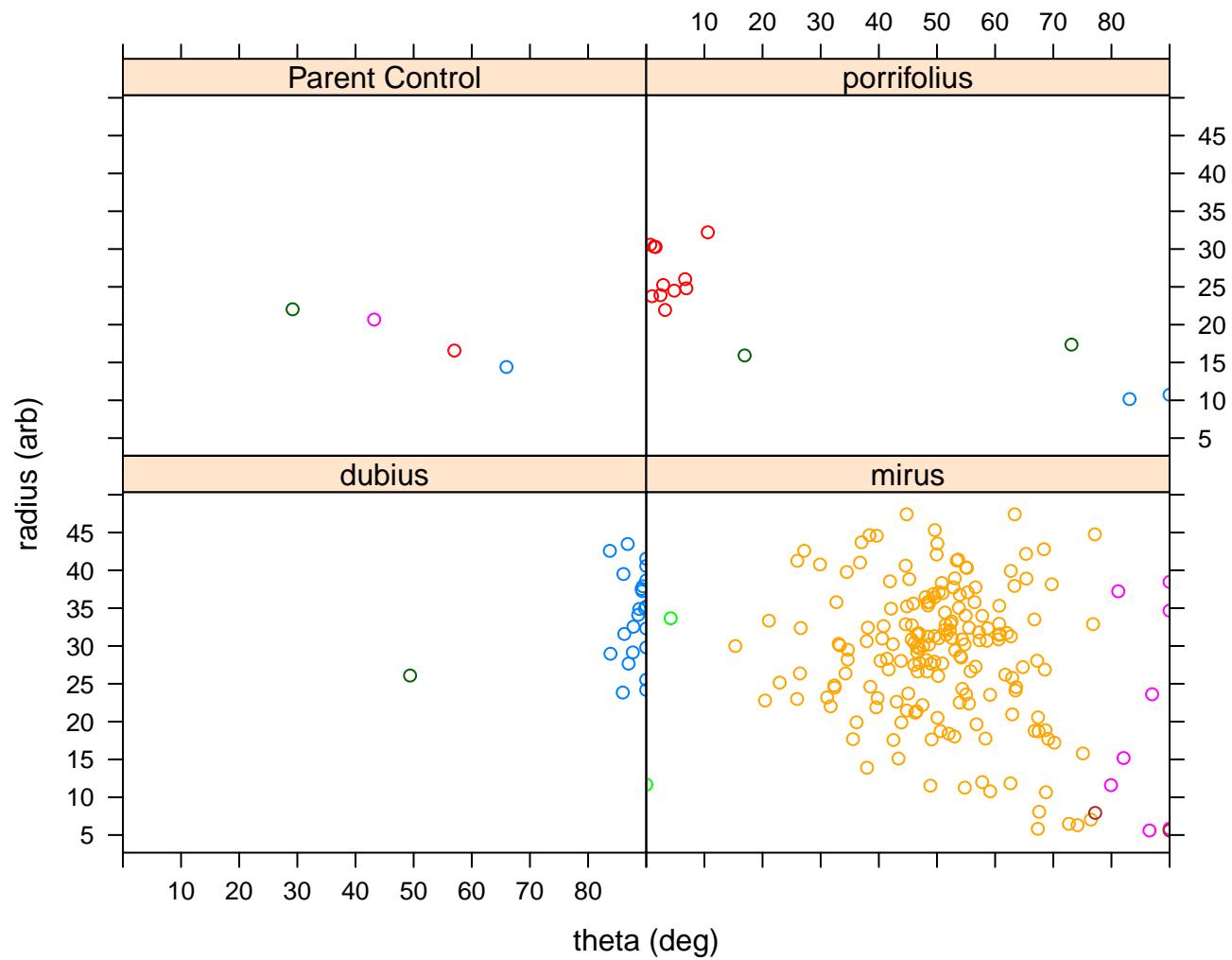


theta (deg)

V_2_5_isotig10294_99 cDNA

Call

		No_Aleles
HH	○	PM1
HHHH	○	PM2_1_1
LH	○	PM2_1_2
LL	○	PM2_2_1
LLHH	○	PM2_2_1
LLL	○	PM2_2_1



V_2_5_isotig10319_624 gDNA

Call

Bad_Spectrum	LLLL	○
HH	No_Alleles	○
HHHH	PM3_1_1	○
LH	PM3_1_2	○
LHHH	PM3_2_1	○
LL	PM4	○
LLHH	PM5	○
LLLH	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

100
90
80
70
60
50
40
30
20
10
0

dubius

miscellus

100
90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)

radius (arb)

V_2_5_isotig10319_624 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

140
120
100
80
60
40
20
0

dubius

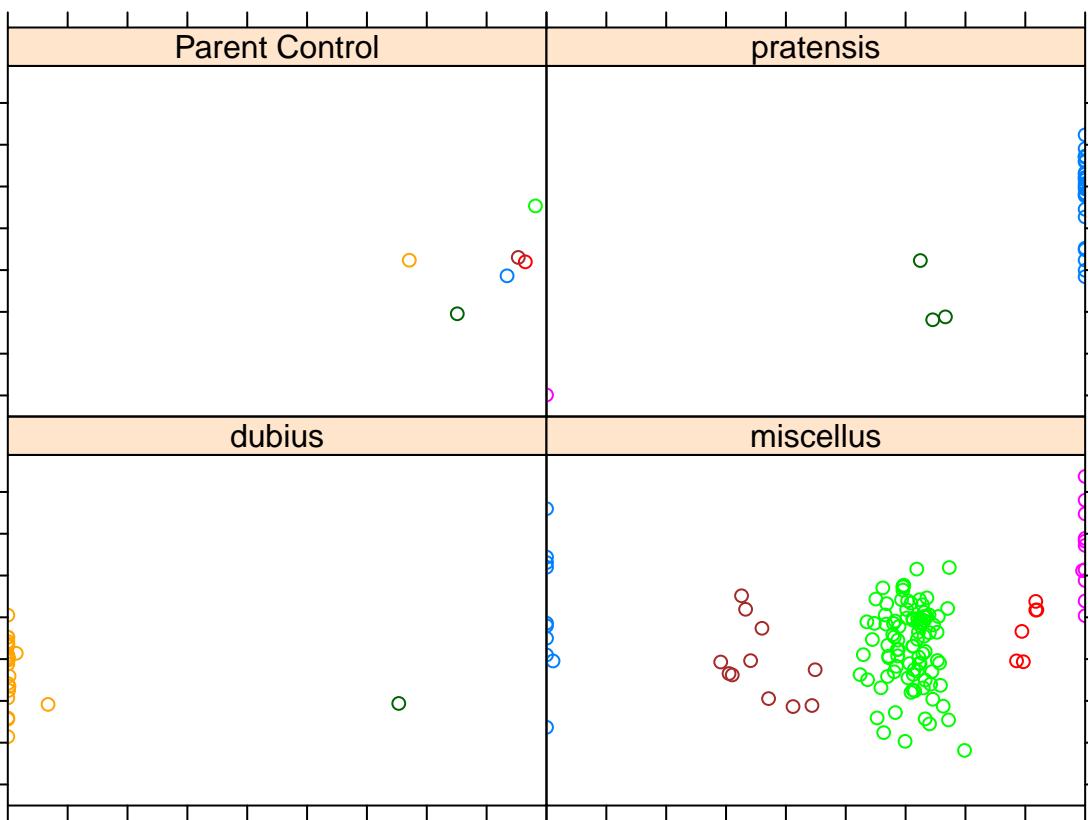
miscellus

radius (arb)

140
120
100
80
60
40
20
0

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig10338_437 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

100
90
80
70
60
50
40
30
20
10
0

dubius

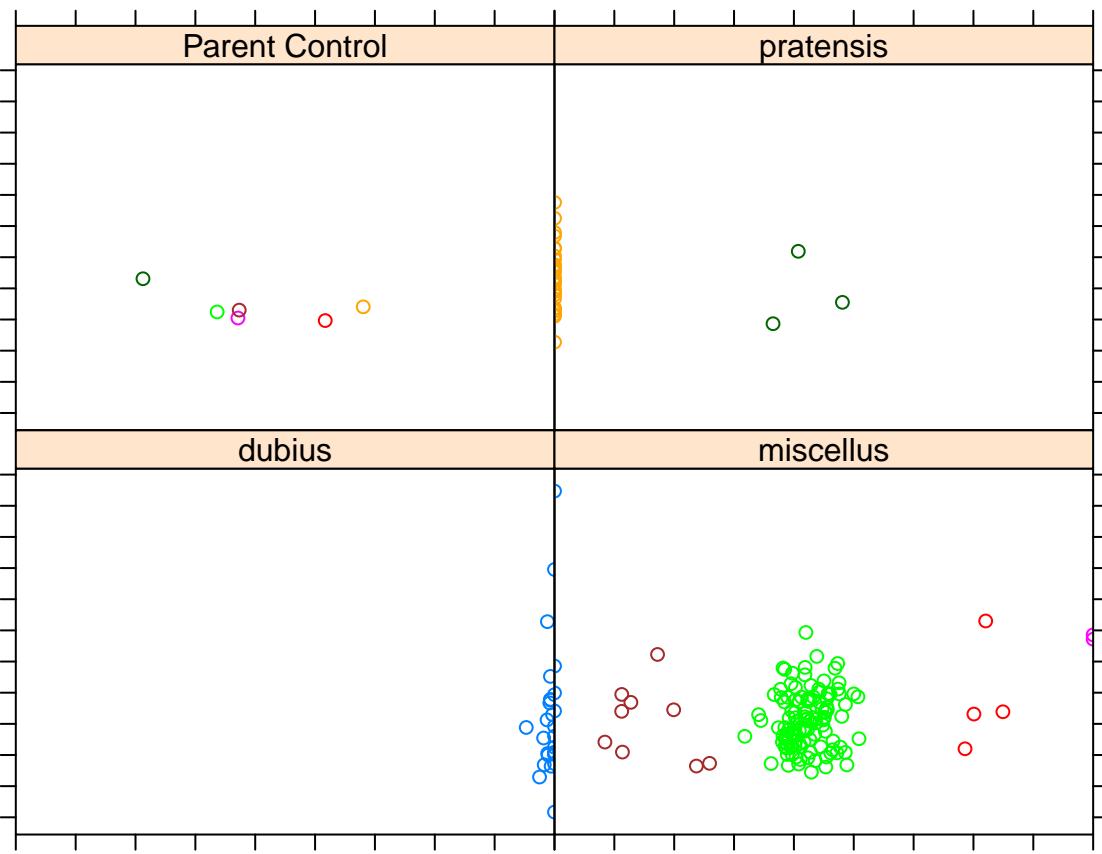
miscellus

100
90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)

radius (arb)



V_2_5_isotig10338_437 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

90
80
70
60
50
40
30
20
10
0

dubius

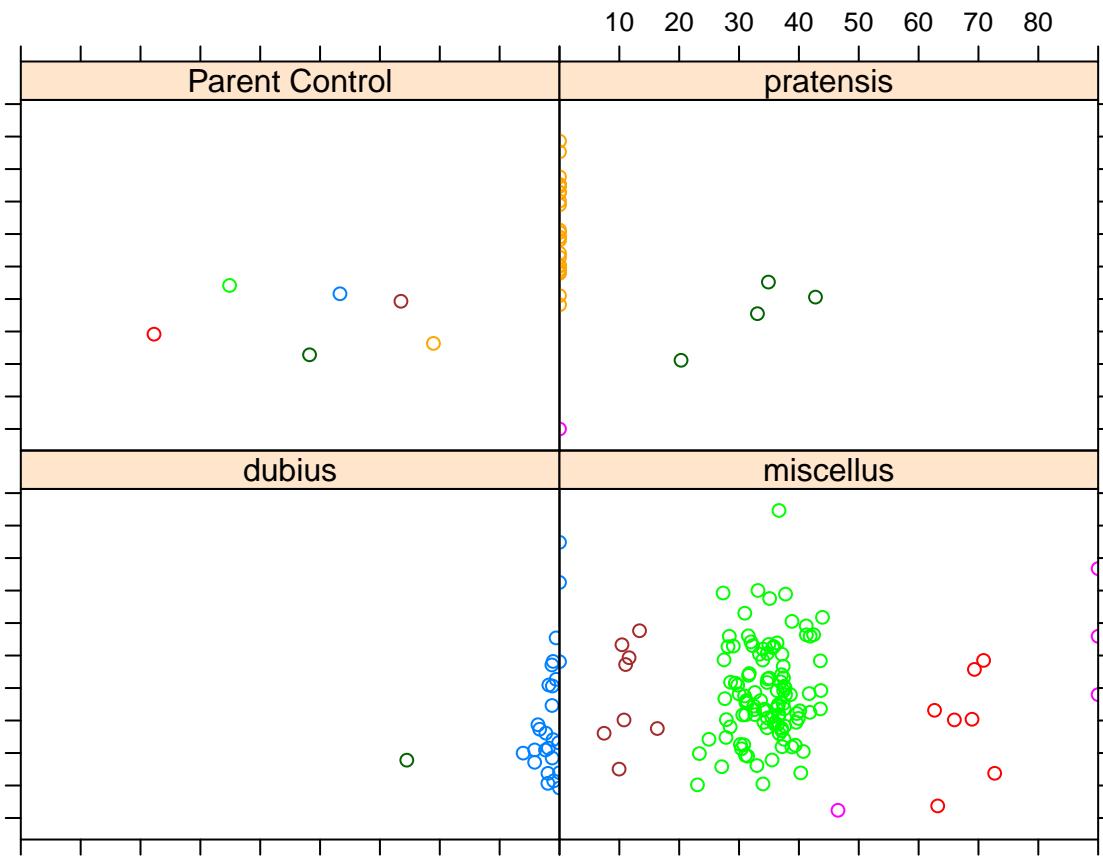
miscellus

90
80
70
60
50
40
30
20
10
0

radius (arb)

10 20 30 40 50 60 70 80

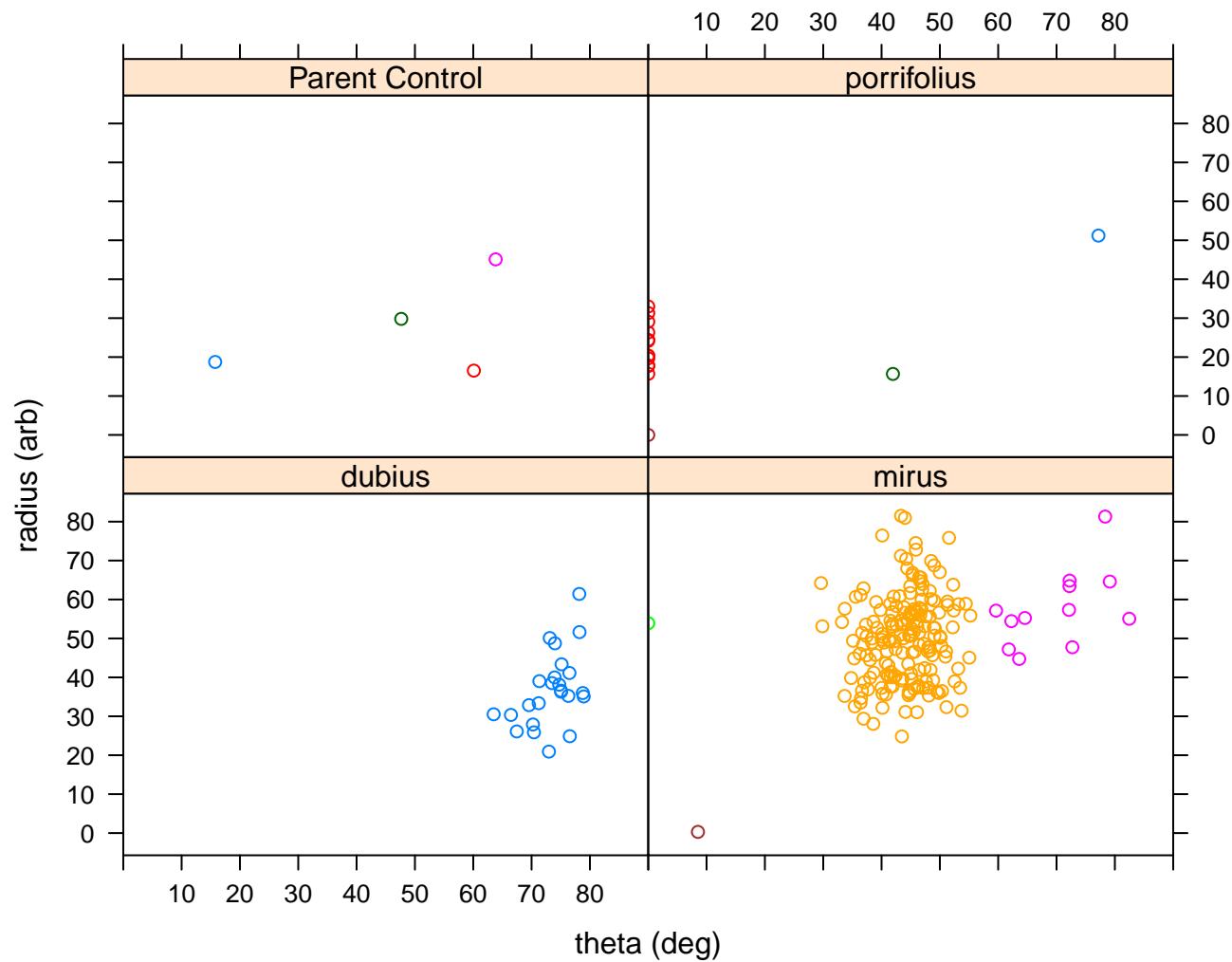
theta (deg)



V_2_5_isotig10342_389 gDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLL	○		



V_2_5_isotig10342_389 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LHHH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

90
80
70
60
50
40
30
20
10
0

dubius

mirus

90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

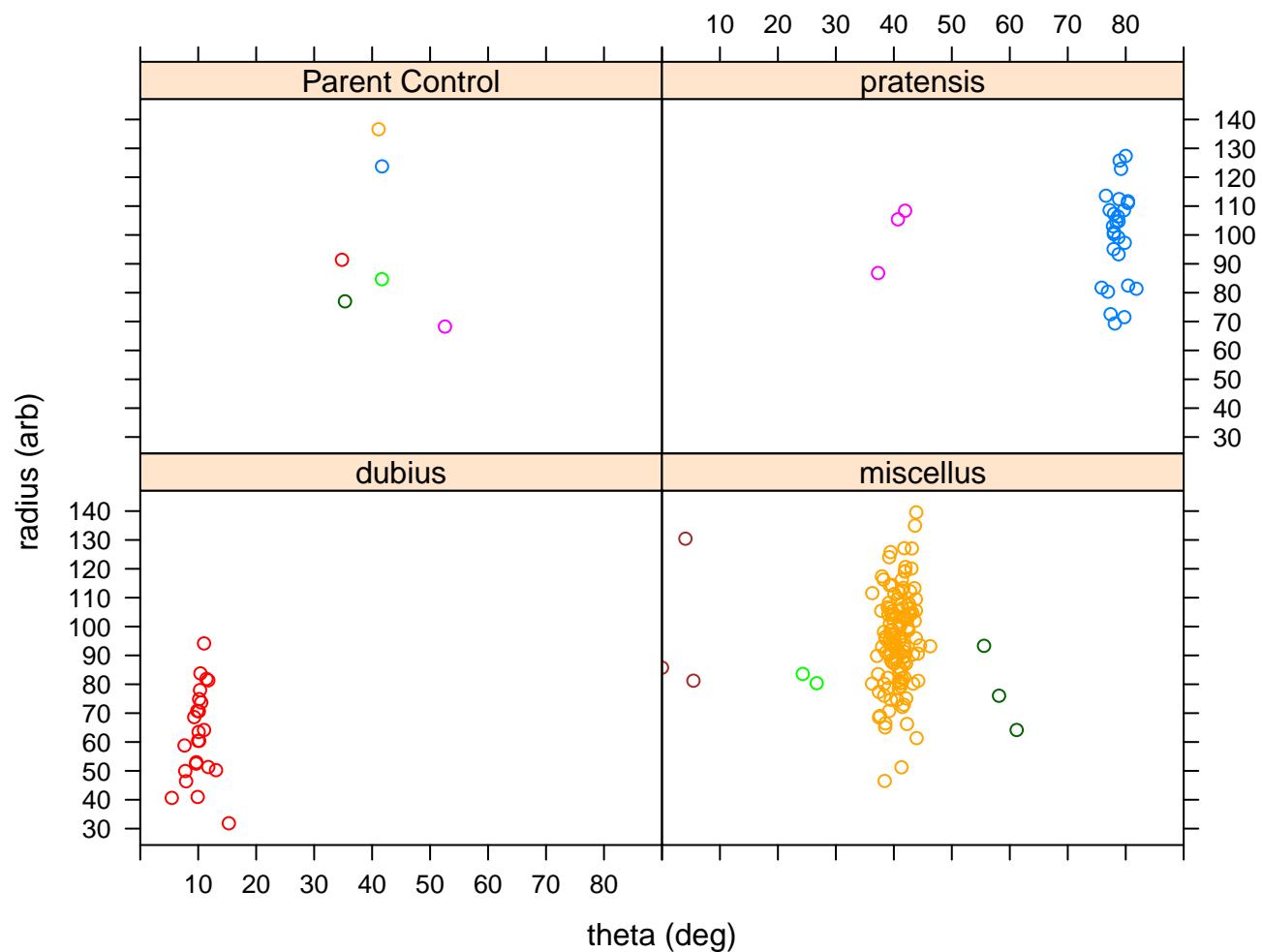
theta (deg)

radius (arb)

V_2_5_isotig10342_463 gDNA

Call

HH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		



V_2_5_isotig10380_230 cDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

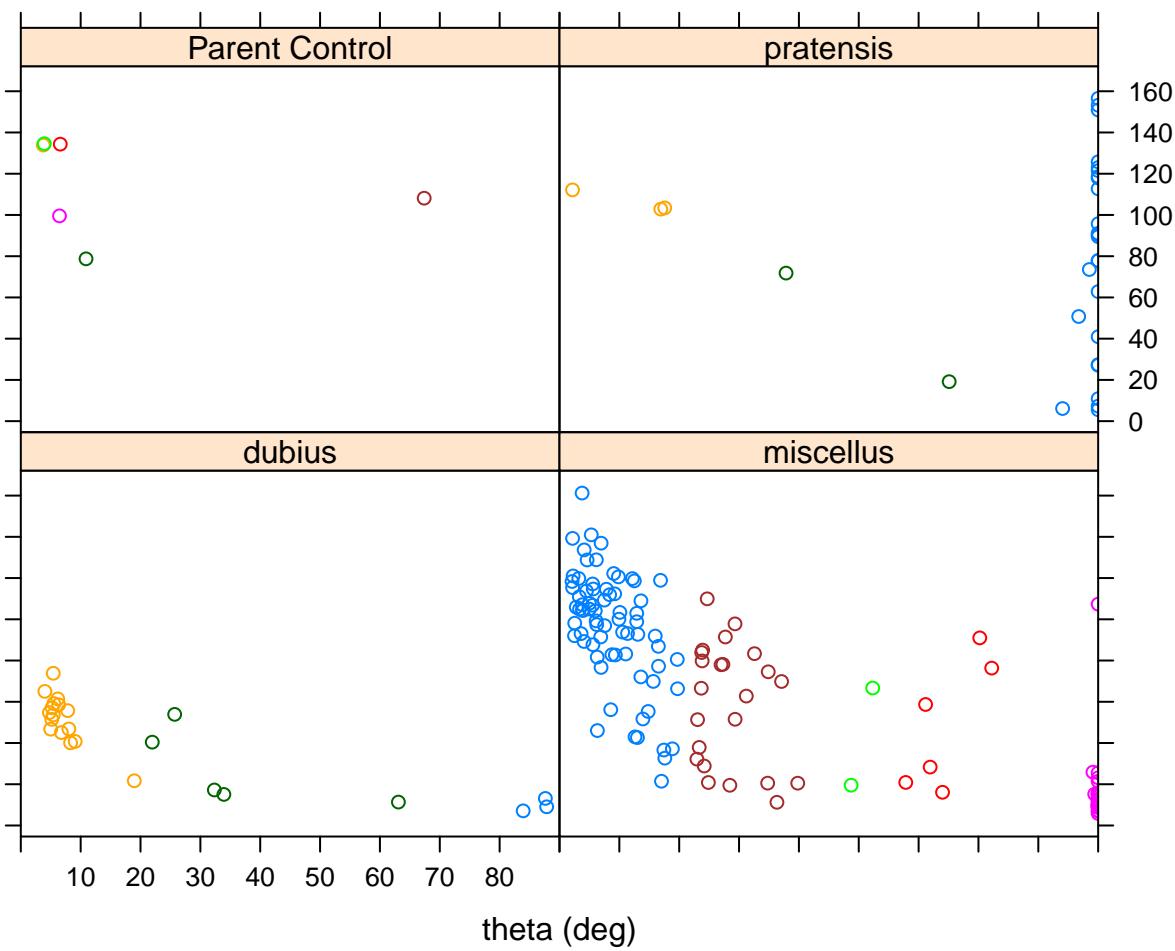
radius (arb)

Parent Control

pratensis

dubius

miscellus



V_2_5_isotig10380_599 gDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

110
100
90
80
70
60
50
40
30
20
10
0

dubius

miscellus

radius (arb)

110
100
90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig10380_618 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

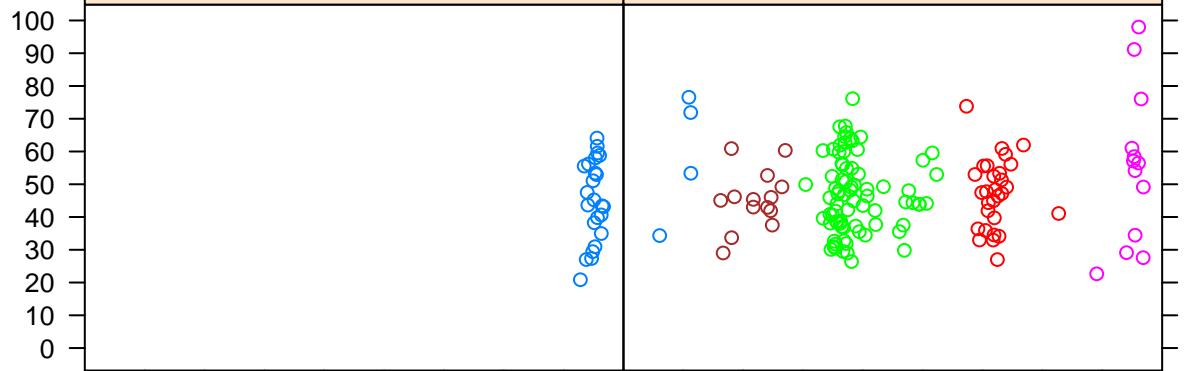
pratensis

100
90
80
70
60
50
40
30
20
10
0

radius (arb)

dubius

miscellus



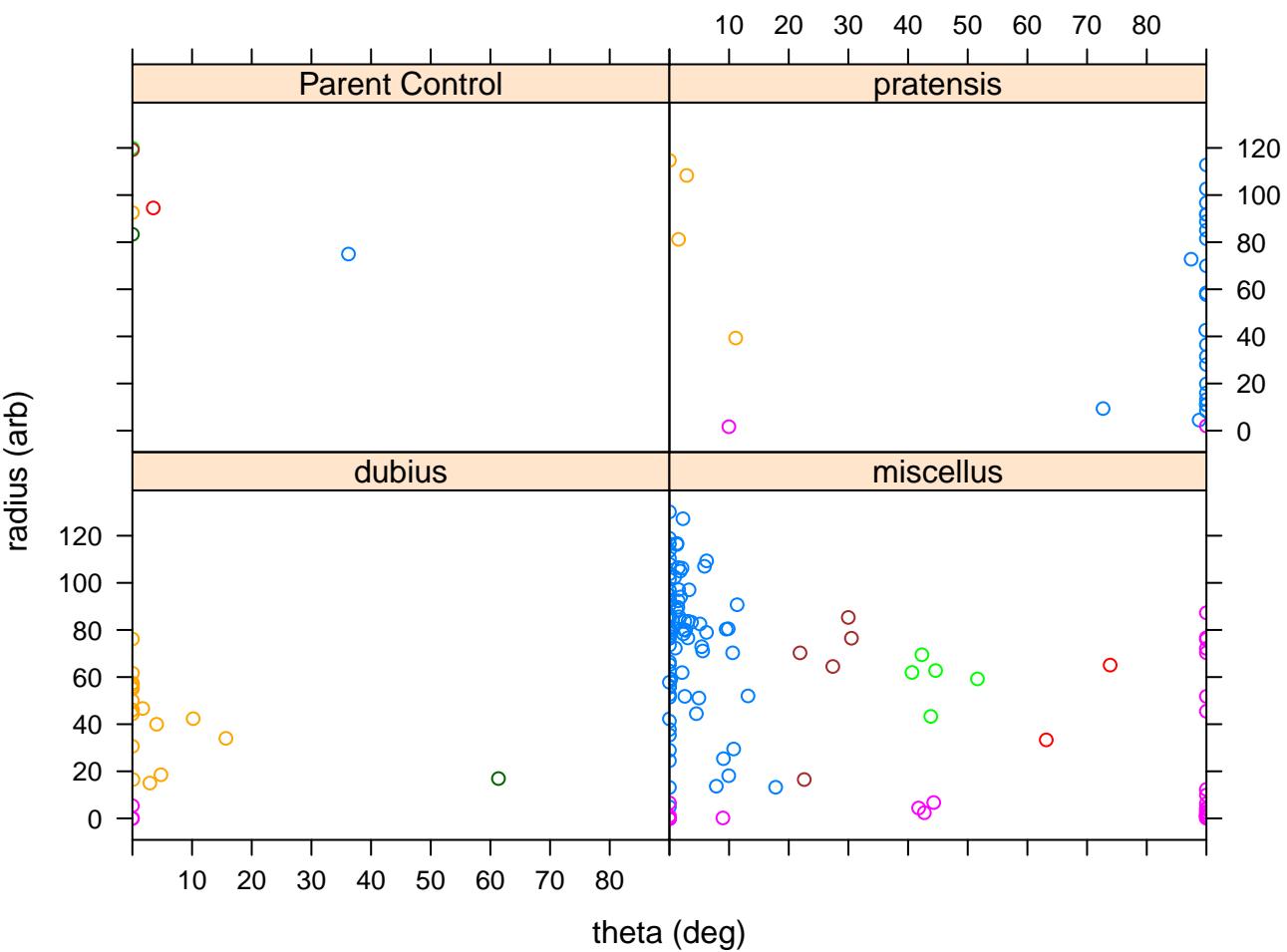
theta (deg)

V_2_5_isotig10380_79 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		

10 20 30 40 50 60 70 80



V_2_5_isotig10411_292 cDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

220
200
180
160
140
120
100
80
60
40

dubius

miscellus

220
200
180
160
140
120
100
80
60
40

radius (arb)

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig10411_890 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

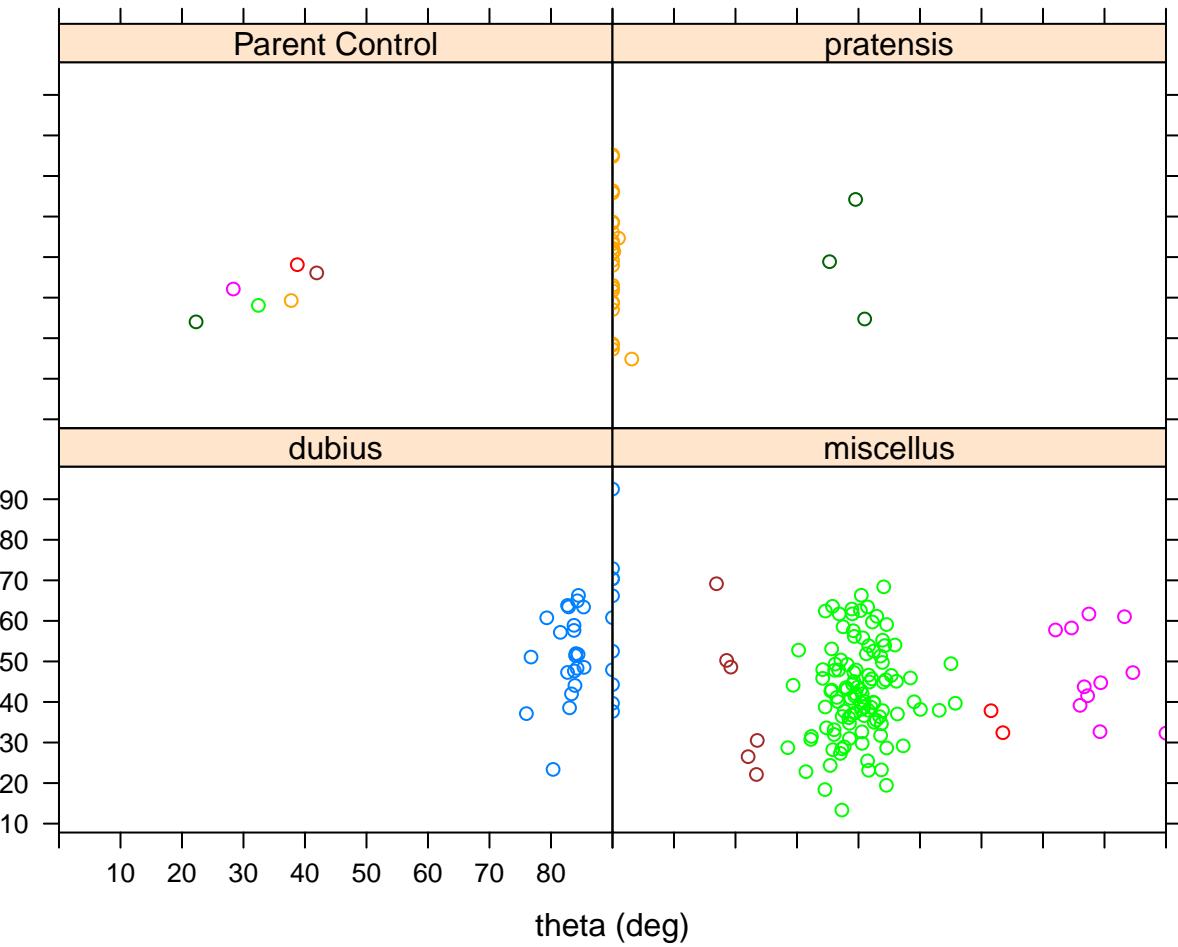
pratensis

radius (arb)

90
80
70
60
50
40
30
20
10

dubius

miscellus



theta (deg)

V_2_5_isotig10411_890 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LL	○	PM3_2_1	○
LLHH	○	PM4	○
LLLH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

140
120
100
80
60
40
20
0

dubius

miscellus

140
120
100
80
60
40
20
0

10 20 30 40 50 60 70 80

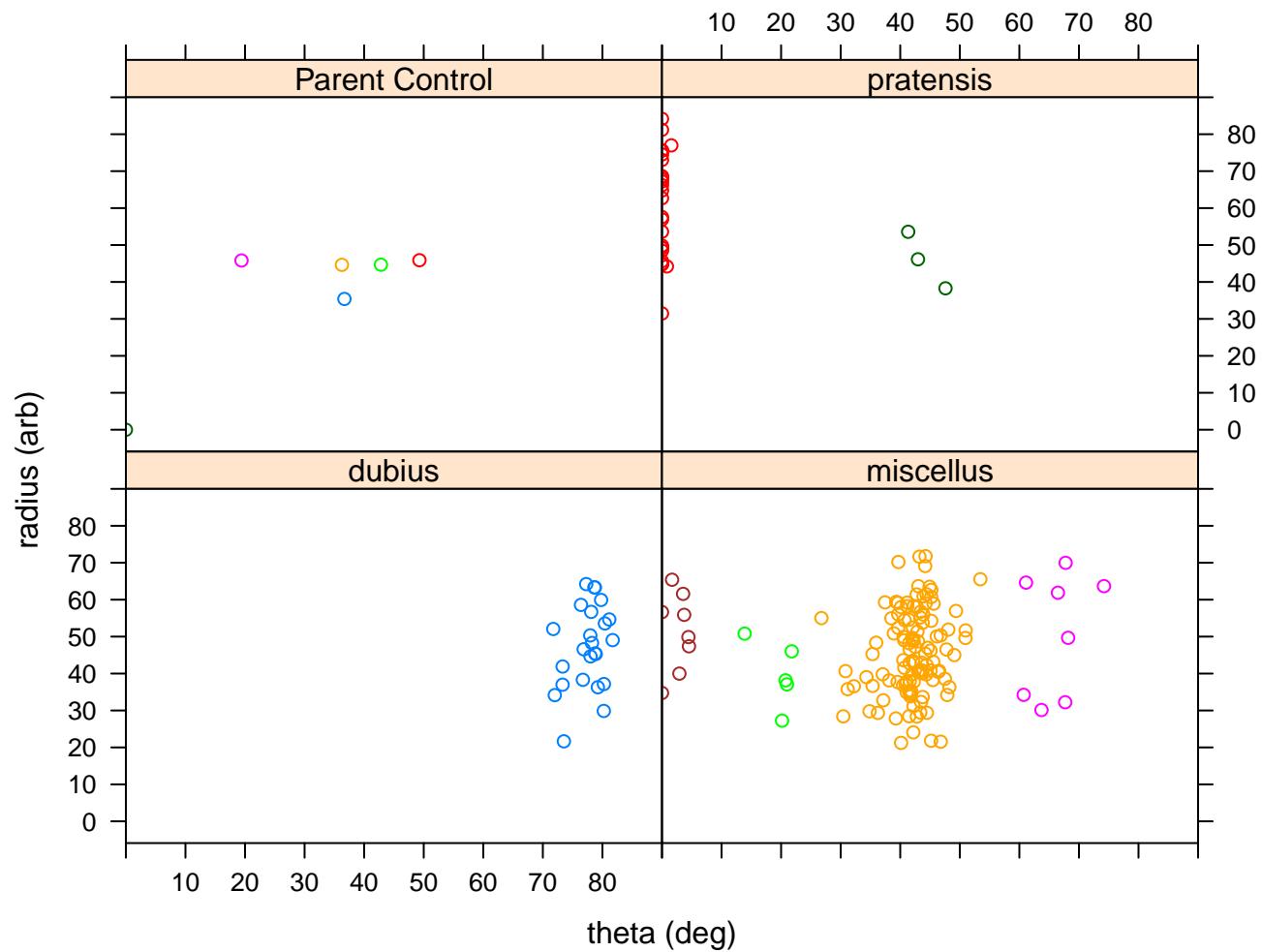
theta (deg)

radius (arb)

V_2_5_isotig10439_133 gDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		



V_2_5_isotig10439_133 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LL	○	PM3_2_1	○
LLHH	○	PM4	○
LLLH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

110
100
90
80
70
60
50
40
30
20
10
0

dubius

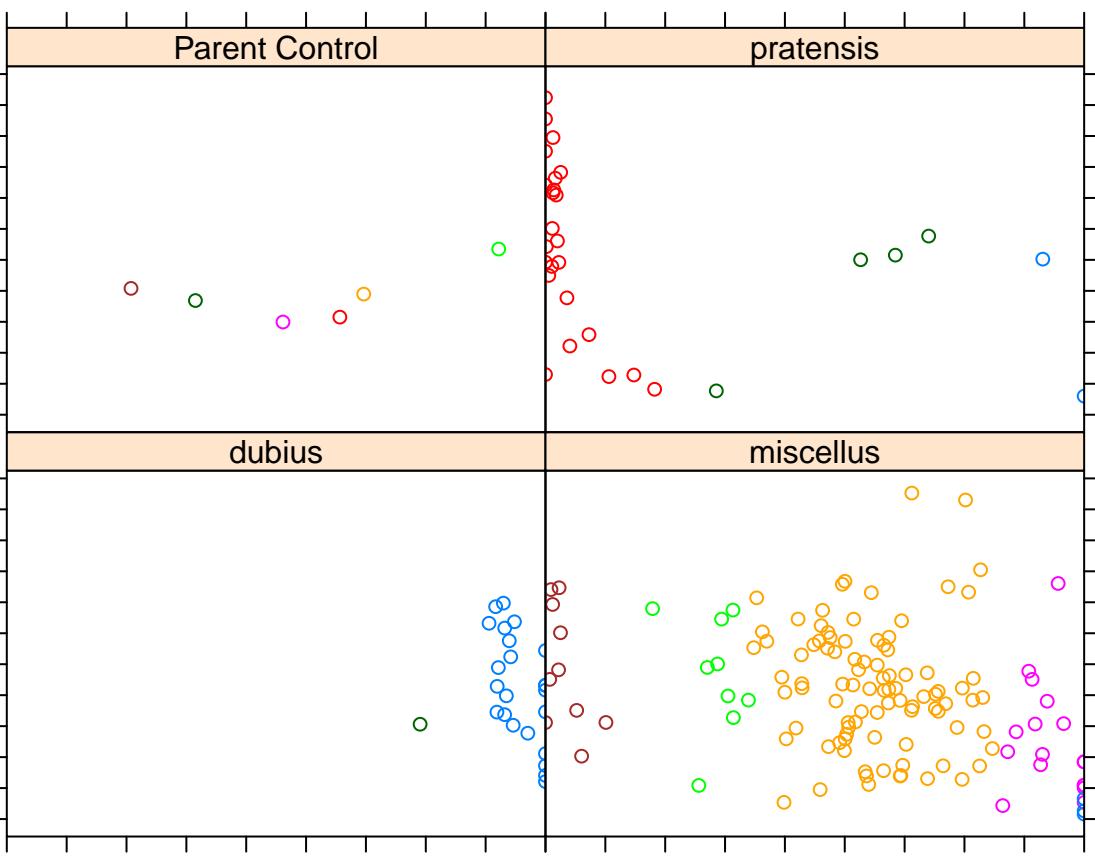
miscellus

radius (arb)

110
100
90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig10439_617 gDNA

Call

HH	○	PM3_1_2	○
HHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○
PM3_1_1	○		

10 20 30 40 50 60 70 80

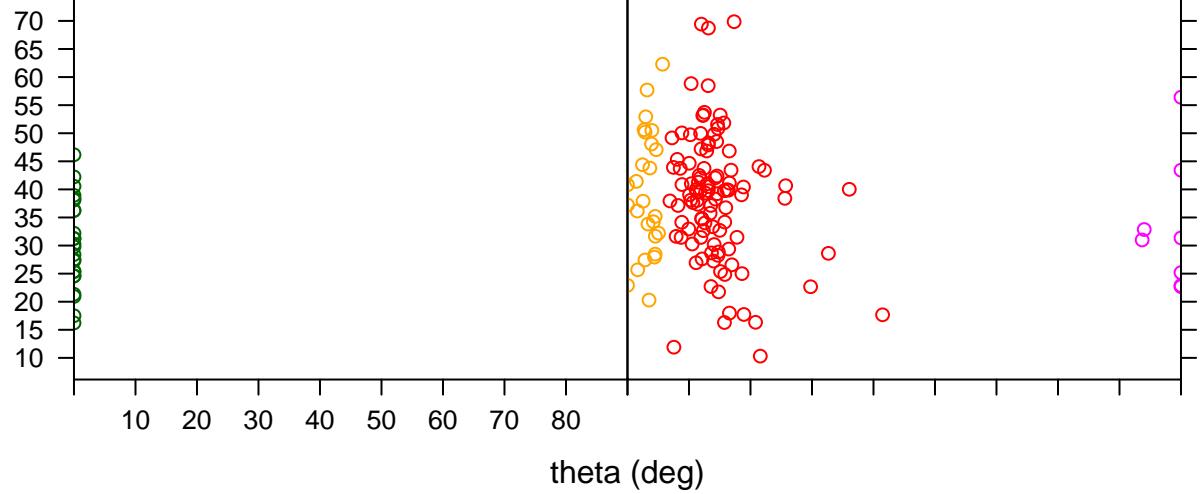
Parent Control

pratensis

70
65
60
55
50
45
40
35
30
25
20
15
10

dubius

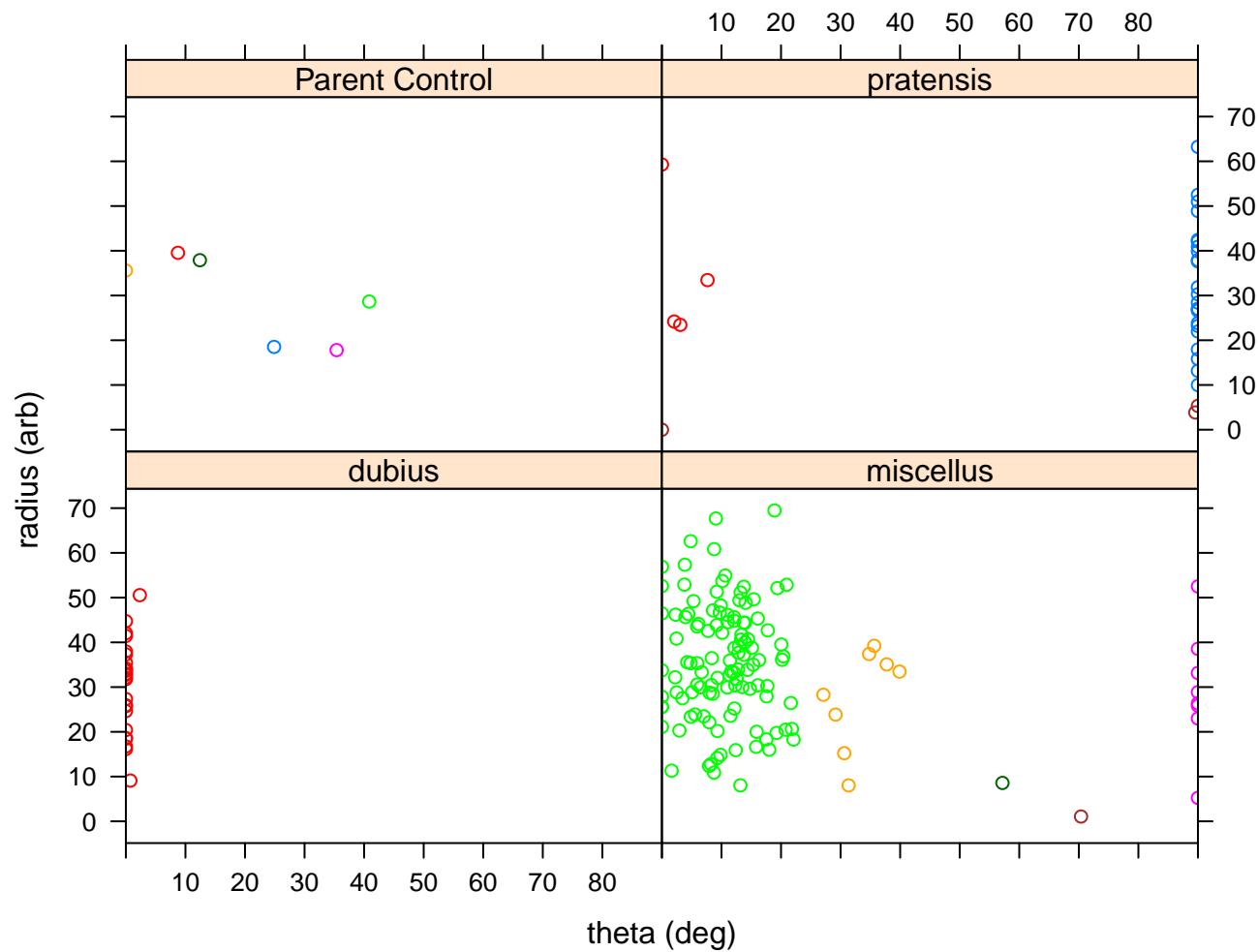
miscellus



V_2_5_isotig10439_617 cDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLLH	○	PM5	○
LLLL	○	PM6	○
No_Aleles	○		



V_2_5_isotig10449_716 cDNA

Call

HH	○	PM1	○
HHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLLL	○	PM2_2_1	○
No_Aleles			○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

100
90
80
70
60
50
40
30
20
10
0

radius (arb)

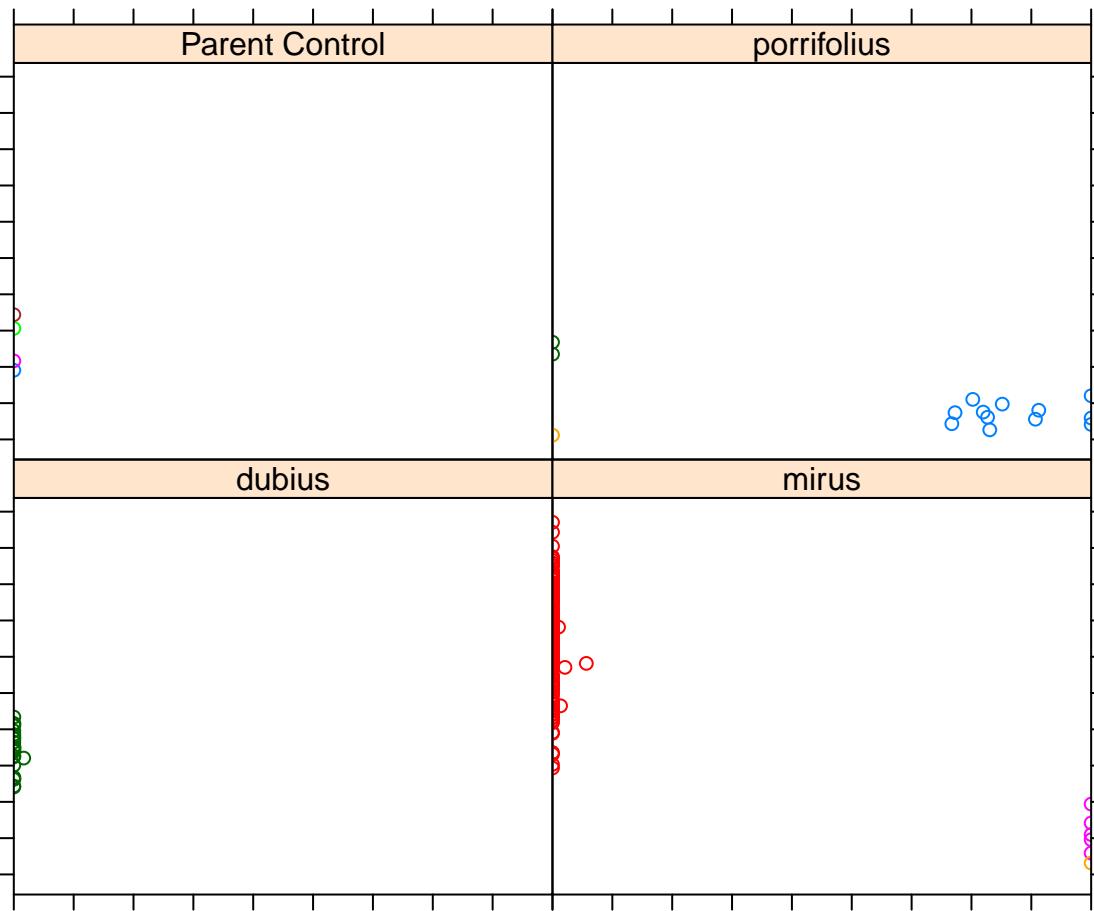
dubius

mirus

100
90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig10460_231 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

60
55
50
45
40
35
30
25
20
15
10
5
0

dubius

mirus

60
55
50
45
40
35
30
25
20
15
10
5
0

10 20 30 40 50 60 70 80

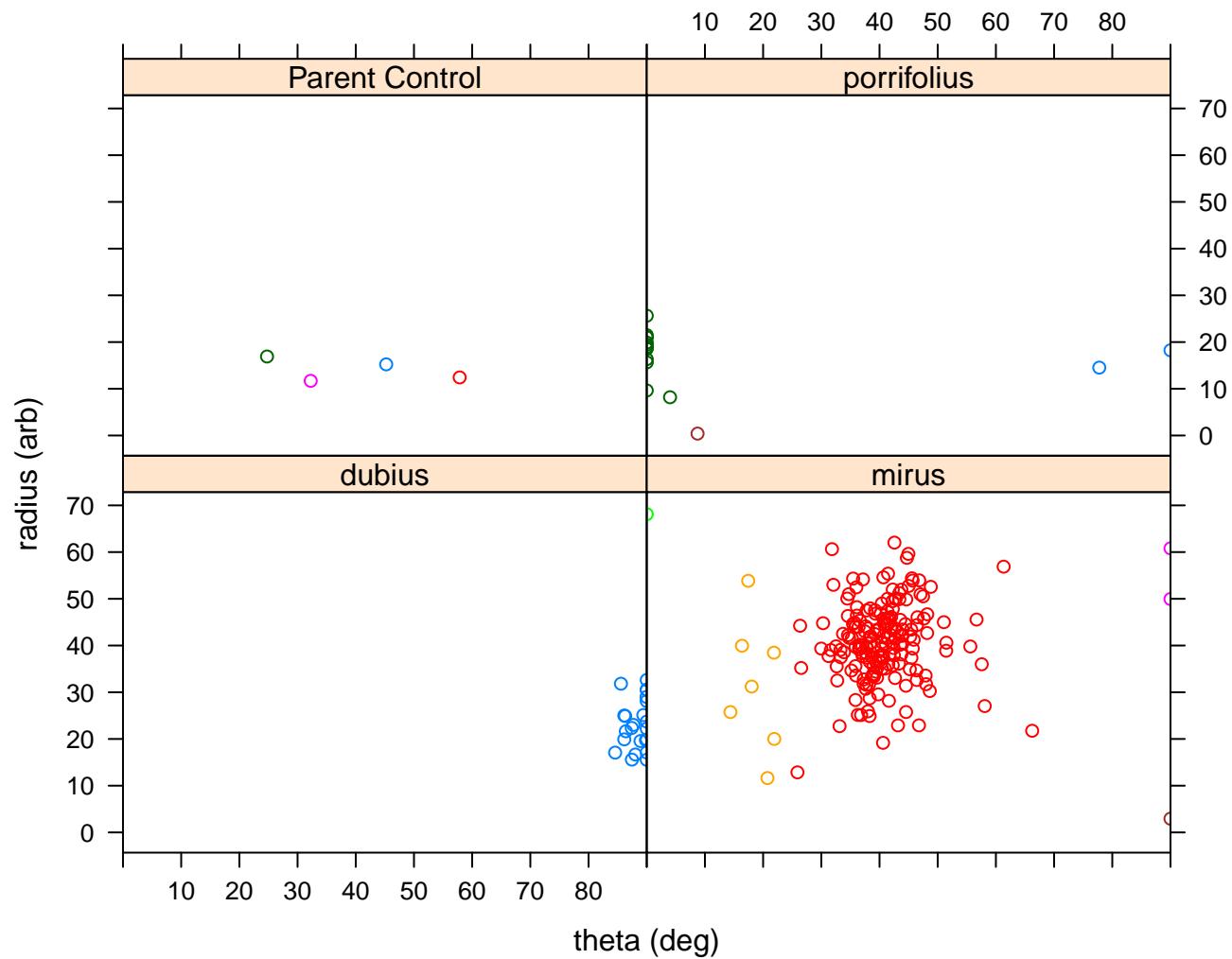
theta (deg)

radius (arb)

V_2_5_isotig10460_231 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○
LLLL	○		



V_2_5_isotig10474_297 gDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LHHH	○	PM4	○
LL	○	PM5	○
LLHH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

65
60
55
50
45
40
35
30
25
20
15
10
5

dubius

miscellus

65
60
55
50
45
40
35
30
25
20
15
10
5

radius (arb)

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig10474_297 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

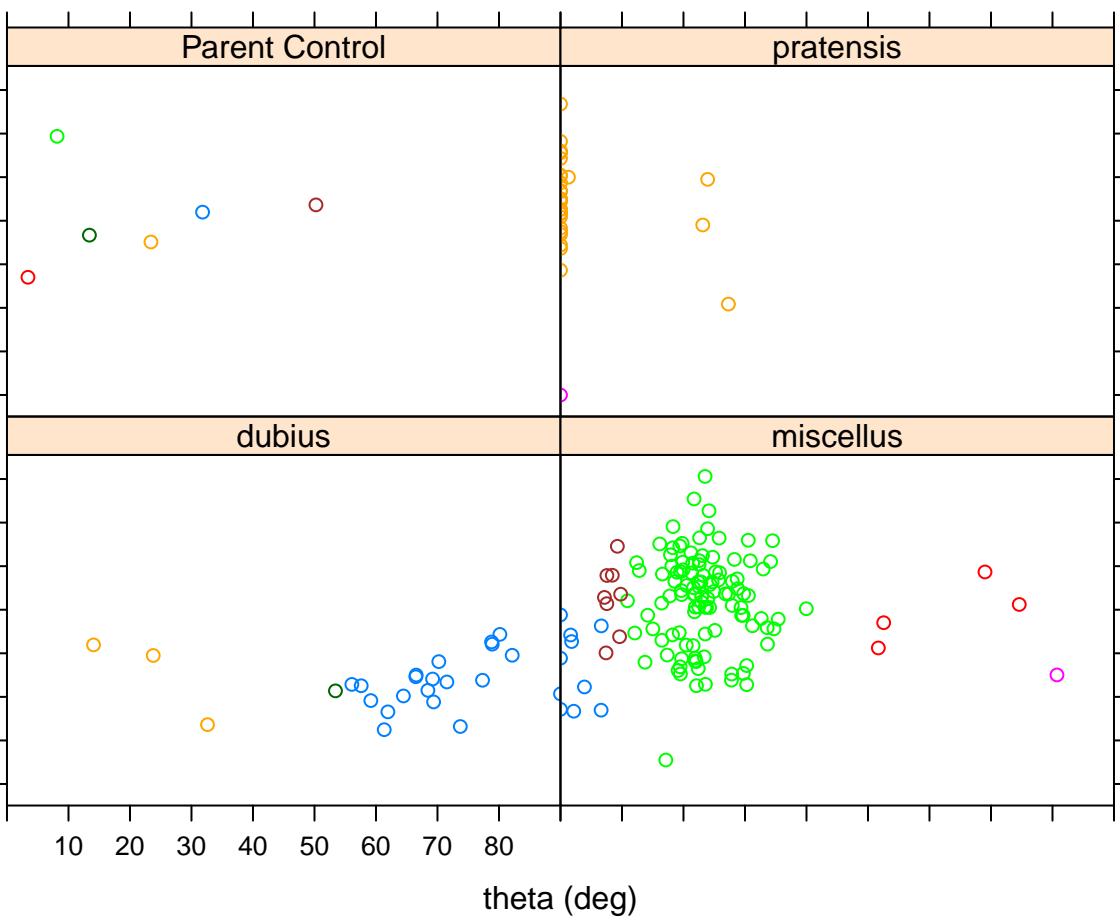
pratensis

70
60
50
40
30
20
10
0

dubius

miscellus

radius (arb)



V_2_5_isotig10511_532 gDNA

Call

HH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

90
80
70
60
50
40
30
20
10

dubius

miscellus

90
80
70
60
50
40
30
20
10

10 20 30 40 50 60 70 80

theta (deg)

radius (arb)

V_2_5_isotig10511_532 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LL	○	PM3_2_1	○
LLHH	○	PM4	○
LLLH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

120
110
100
90
80
70
60
50
40
30
20
10
0

dubius

miscellus

radius (arb)

120
110
100
90
80
70
60
50
40
30
20
10
0

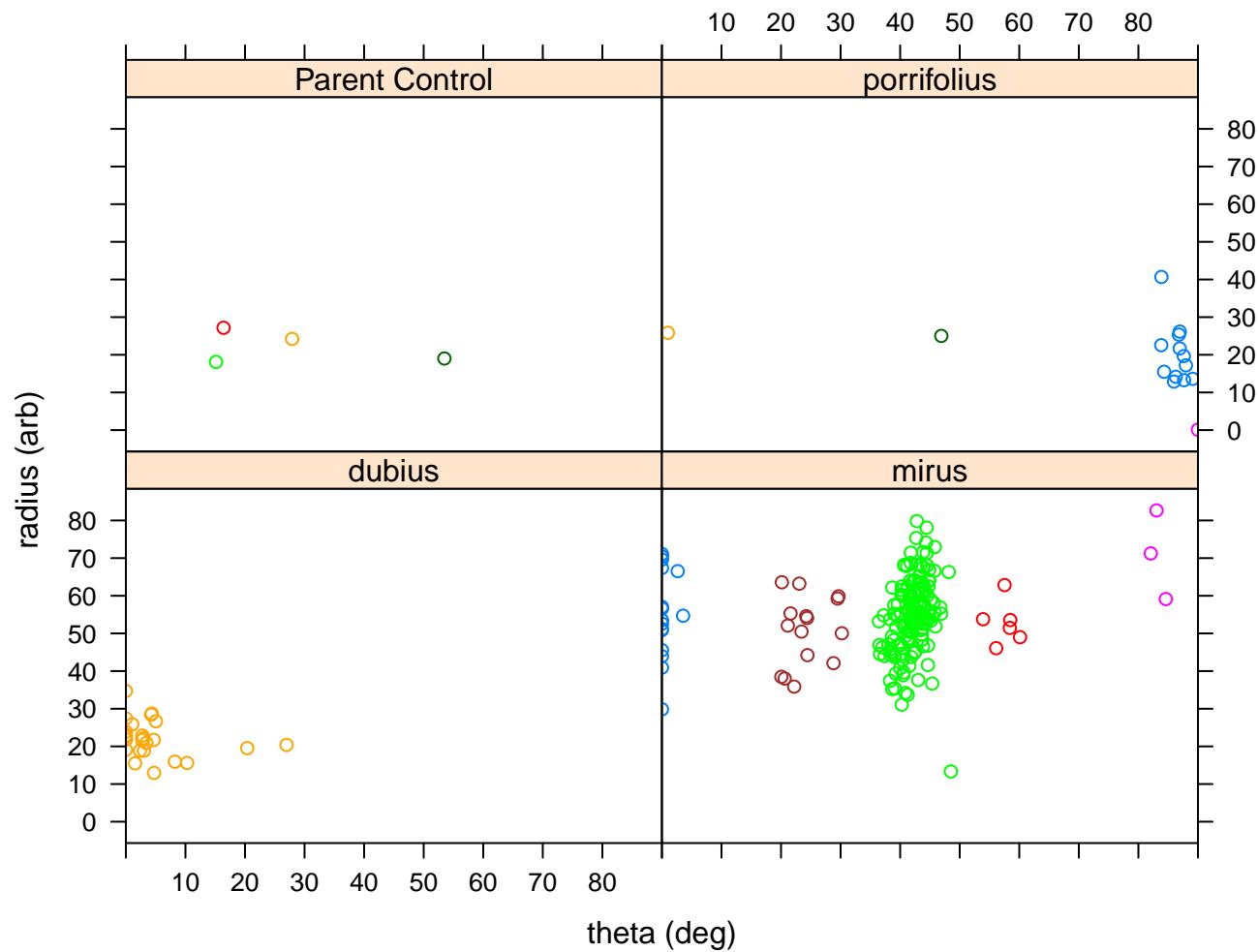
10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig10579_790 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		

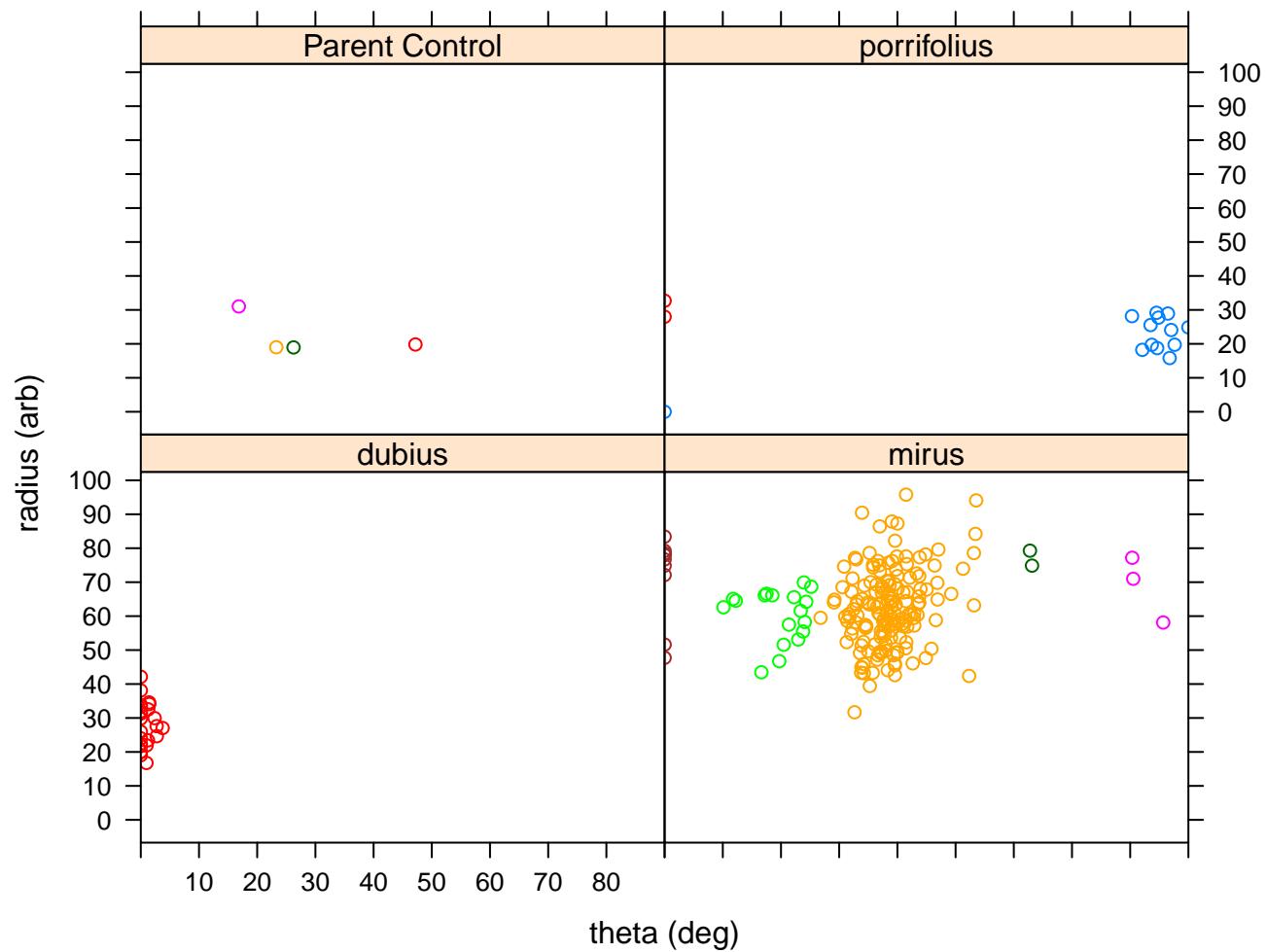


V_2_5_isotig10579_790 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LHHH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

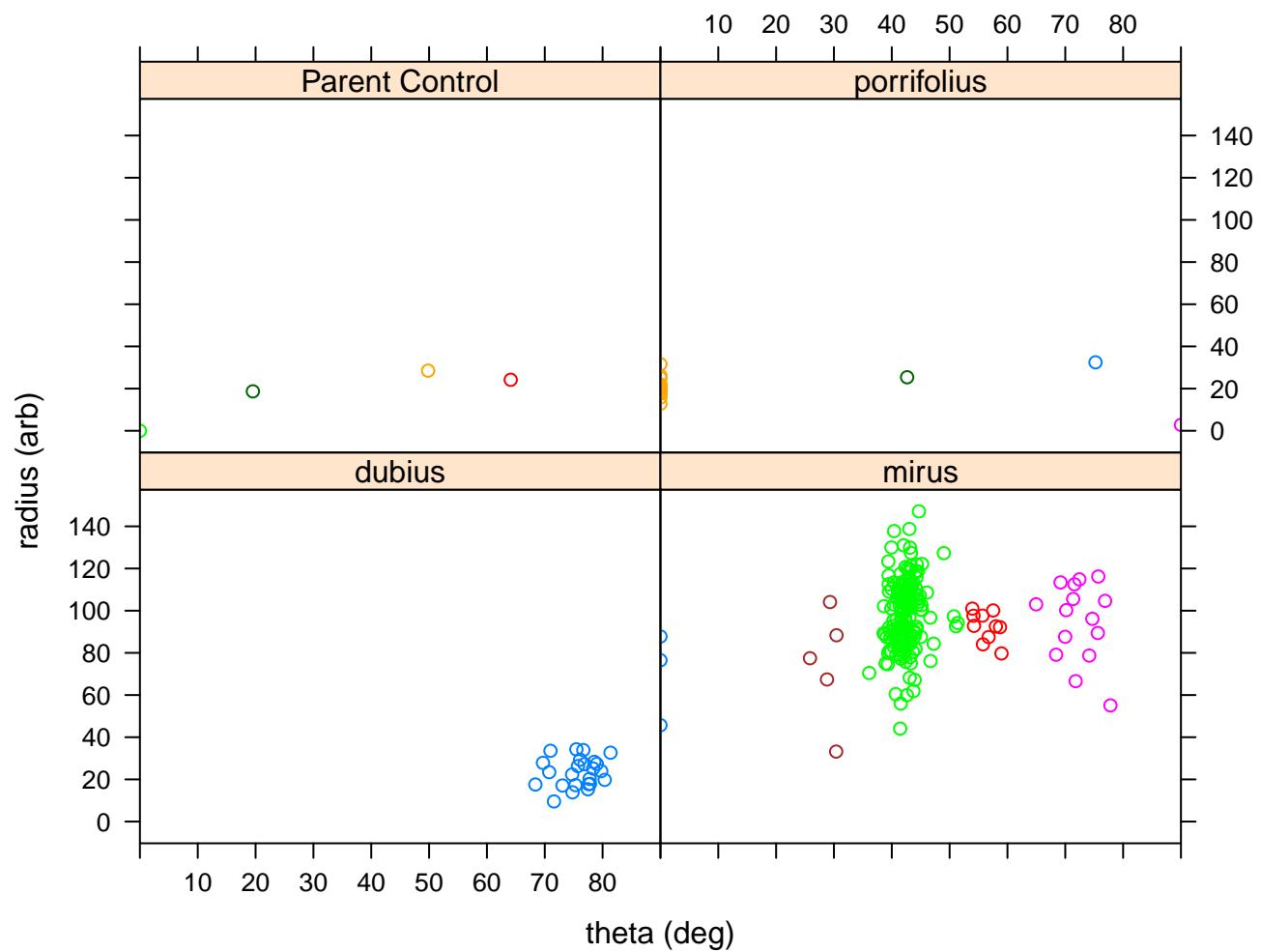
10 20 30 40 50 60 70 80



V_2_5_isotig10579_894 gDNA

Call

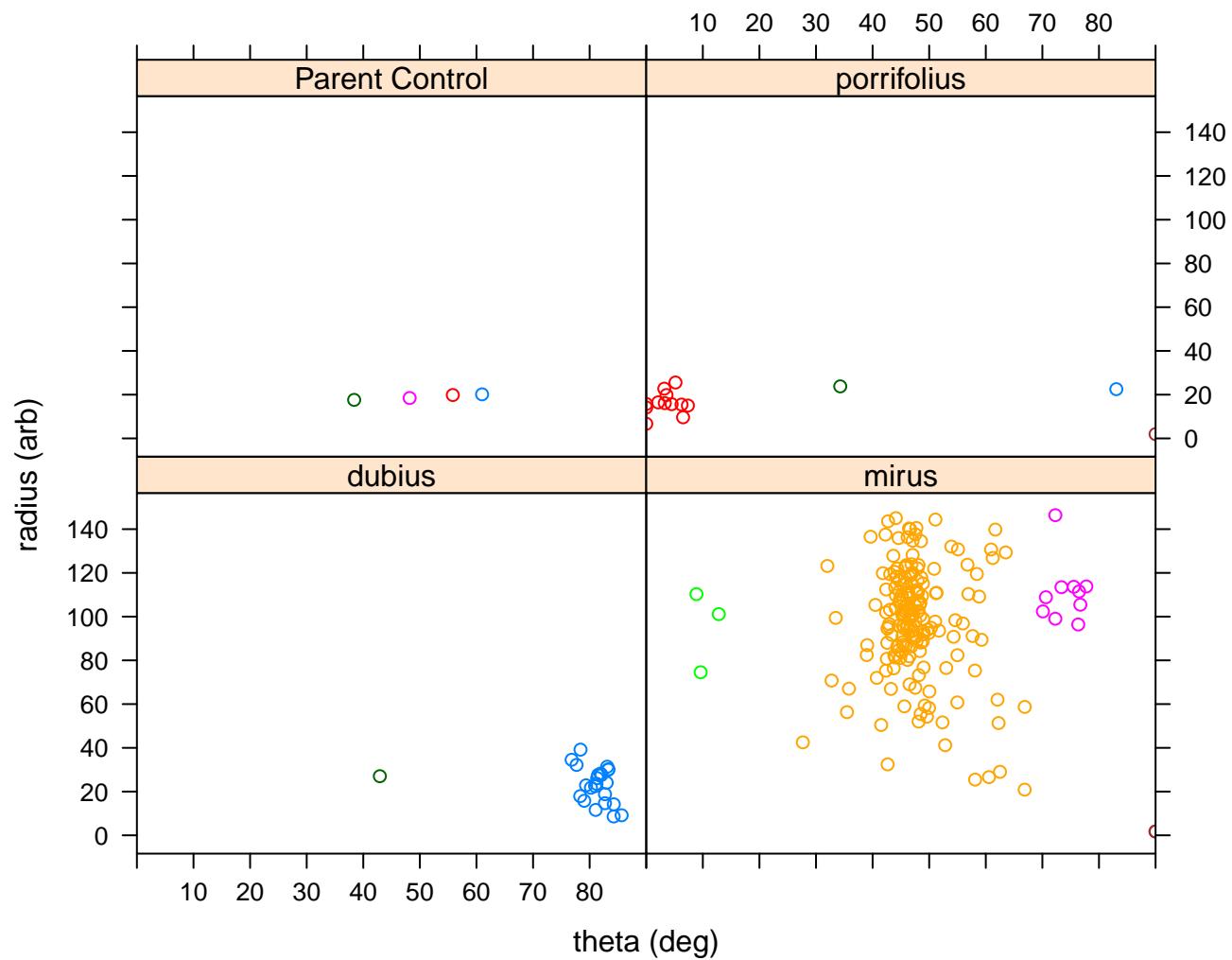
HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig10579_894 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLL	○		○



V_2_5_isotig10590_198 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

100
90
80
70
60
50
40
30
20
10

dubius

miscellus

100
90
80
70
60
50
40
30
20
10

10 20 30 40 50 60 70 80

theta (deg)

radius (arb)

V_2_5_isotig10590_198 cDNA

Call

Bad_Spectrum	○	LLLL	○
HH	○	No_Alleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

120
110
100
90
80
70
60
50
40
30
20
10
0

dubius

miscellus

radius (arb)

120
110
100
90
80
70
60
50
40
30
20
10
0

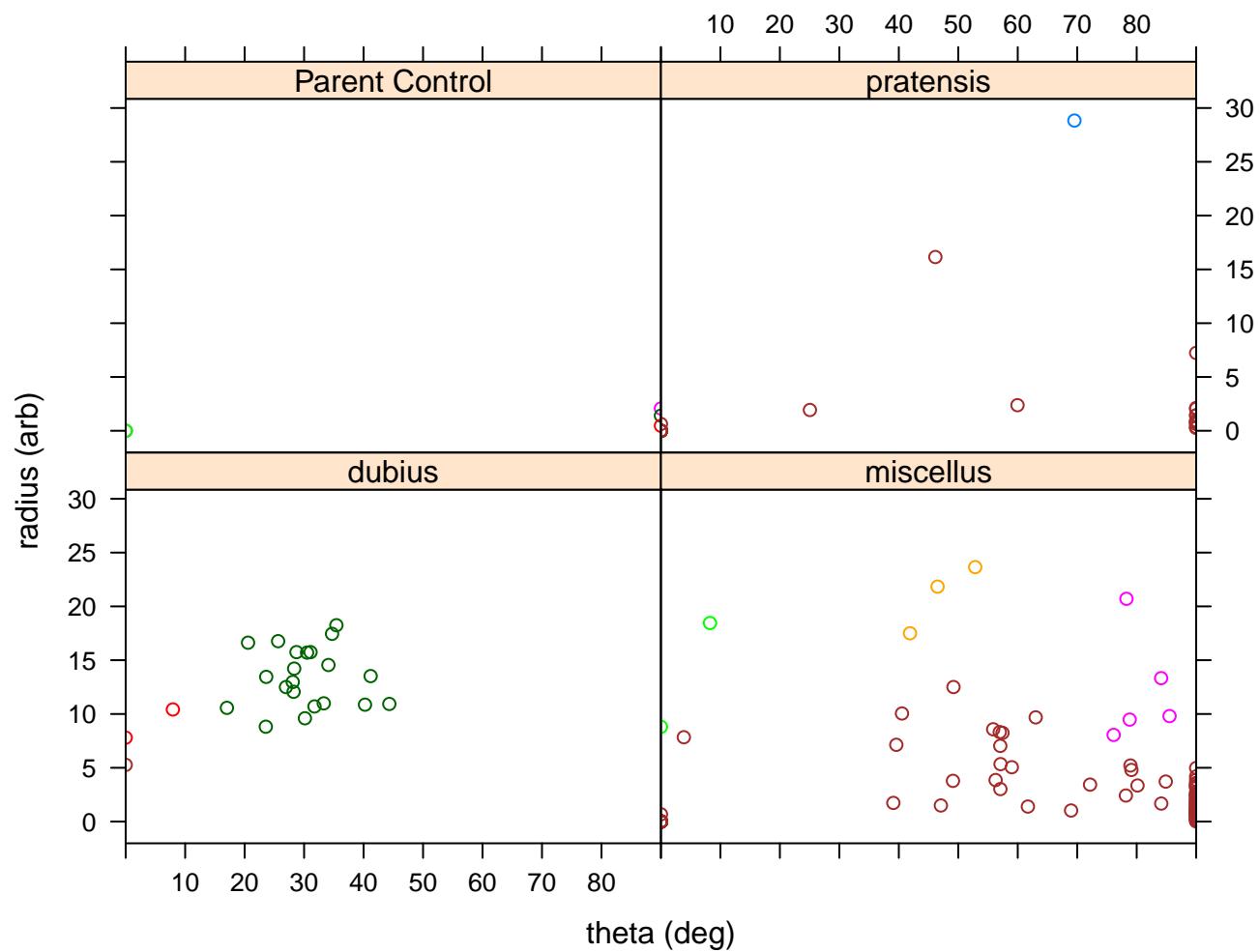
10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig10601_263 gDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○
No_Alleles	○		



V_2_5_isotig10601_263 cDNA

Call

HH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○
PM3_1_1	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

120
110
100
90
80
70
60
50
40
30
20
10

dubius

miscellus

120
110
100
90
80
70
60
50
40
30
20
10

10 20 30 40 50 60 70 80

theta (deg)

radius (arb)

V_2_5_isotig10601_300 gDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

radius (arb)

200
180
160
140
120
100
80
60
40
20
0

dubius

miscellus

200
180
160
140
120
100
80
60
40
20
0

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig10601_300 cDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

260
240
220
200
180
160
140
120
100
80
60
40
20

dubius

miscellus

260
240
220
200
180
160
140
120
100
80
60
40
20

radius (arb)

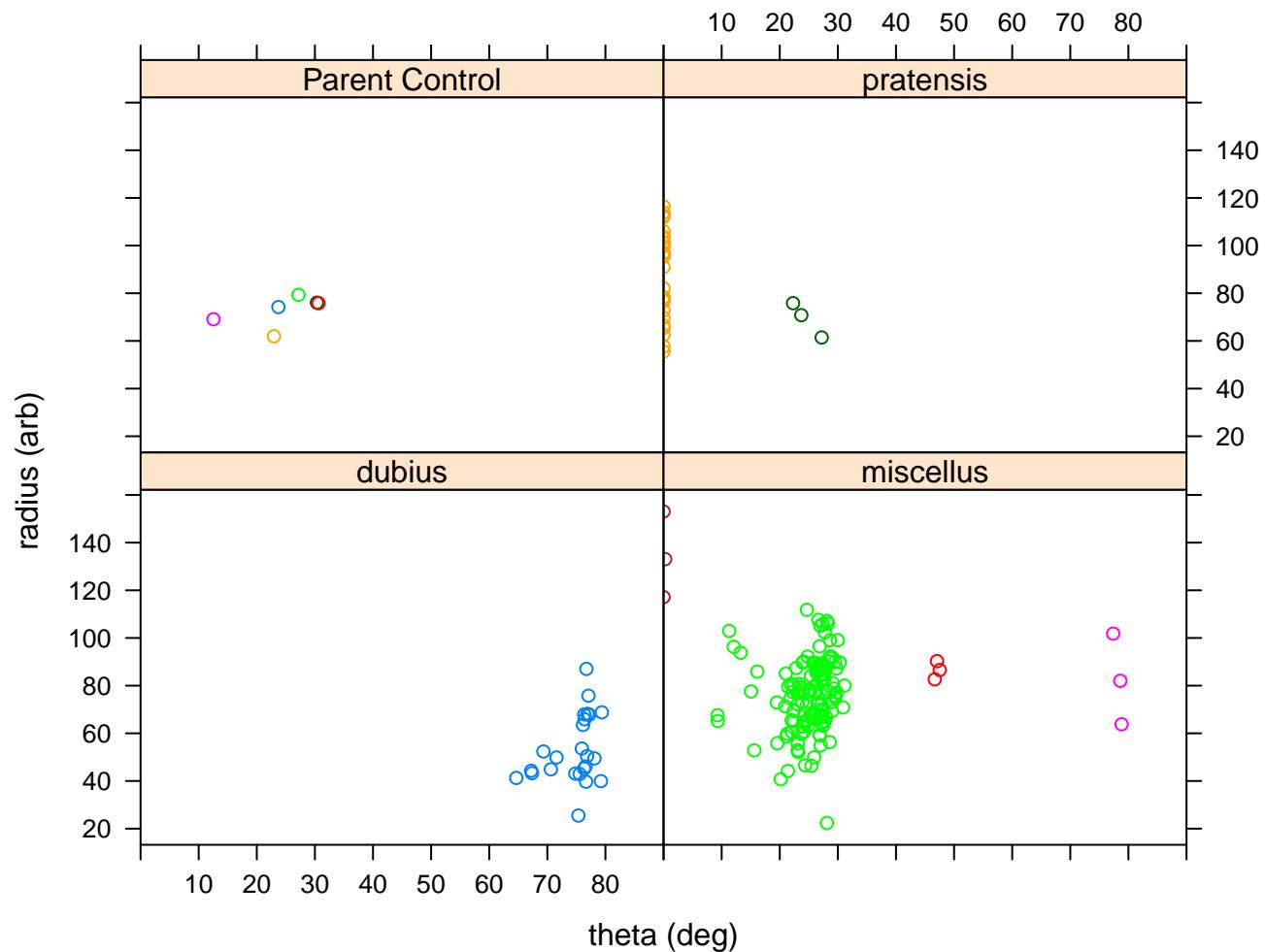
10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig10601_446 gDNA

Call

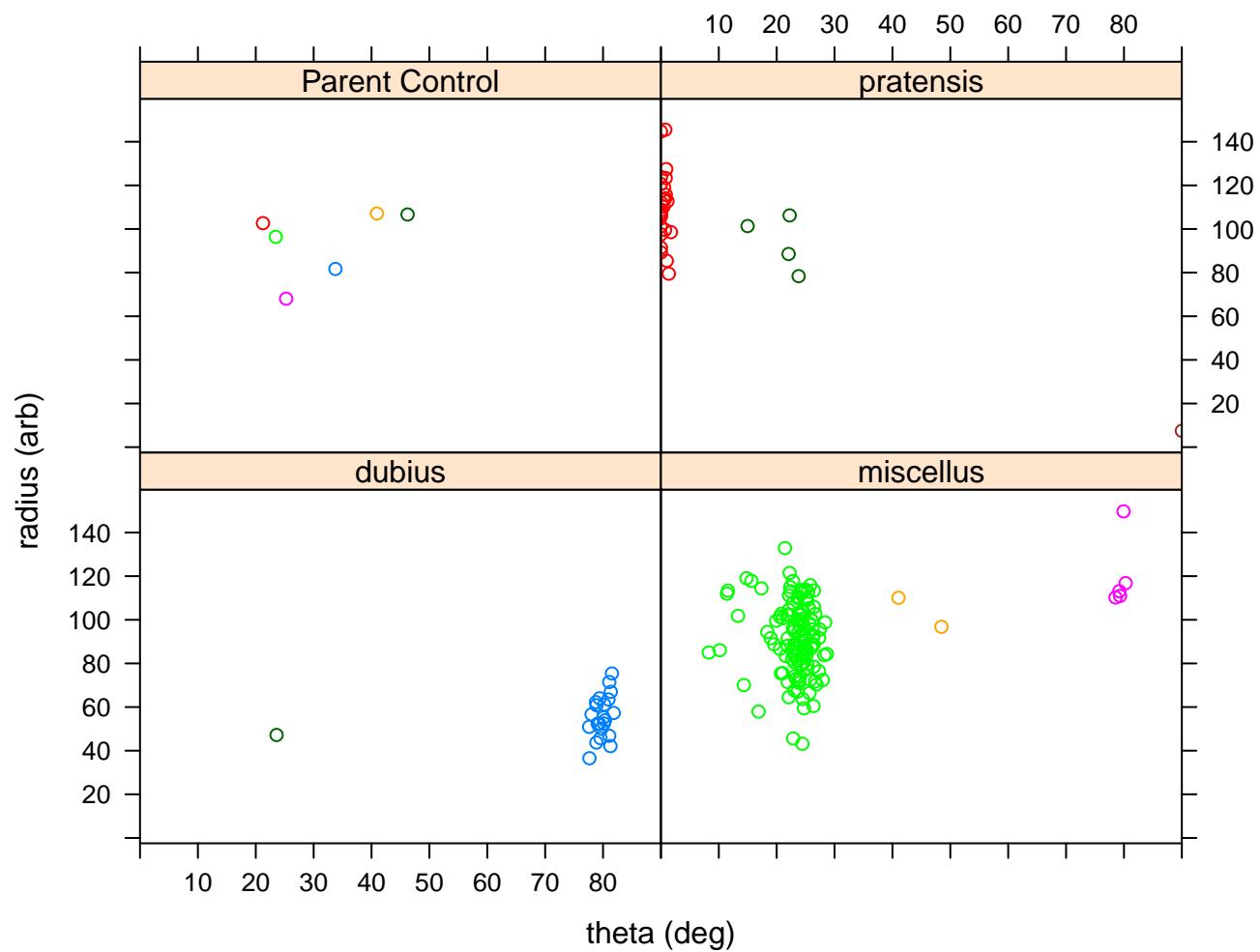
HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LHHH	○	PM4	○
LL	○	PM5	○
LLHH	○	PM6	○
LLLL	○		



V_2_5_isotig10601_446 cDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
No_Alleles	○		



V_2_5_isotig10601_455 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

100
90
80
70
60
50
40
30
20
10

dubius

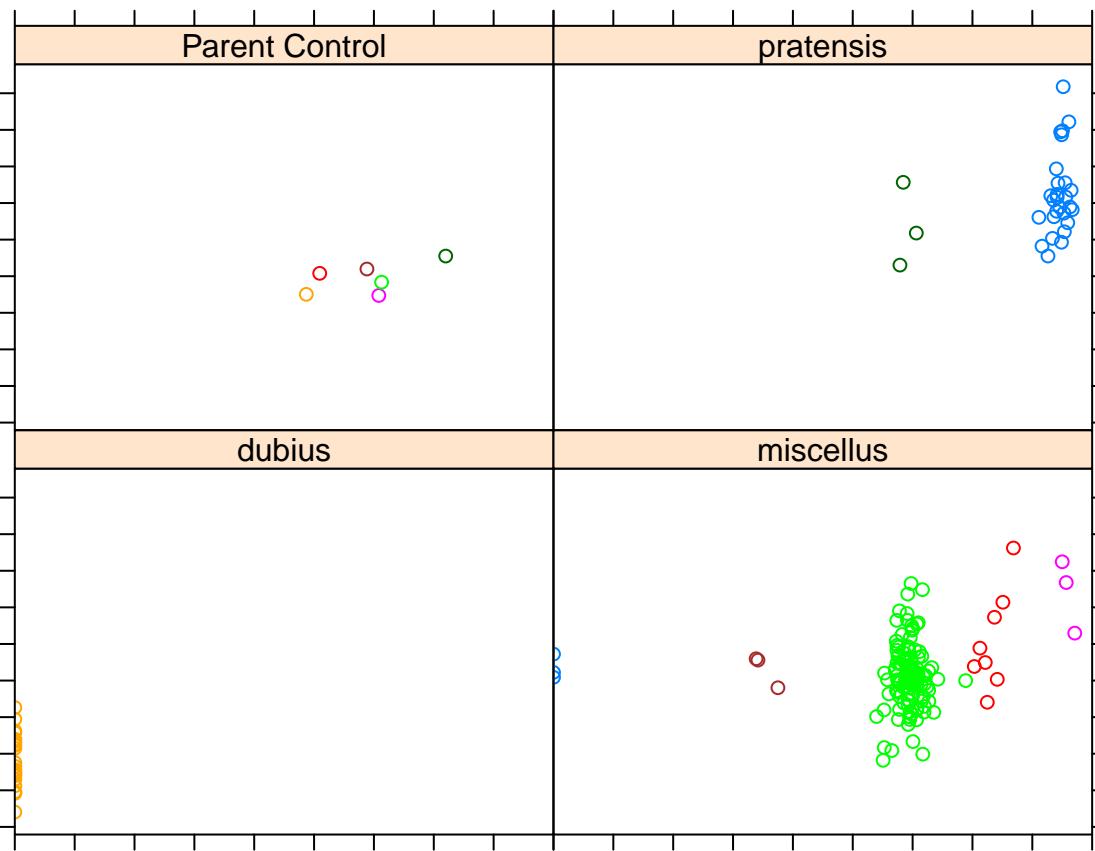
miscellus

100
90
80
70
60
50
40
30
20
10

radius (arb)

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig10601_455 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LL	○	PM3_2_1	○
LLHH	○	PM4	○
LLLH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

110
100
90
80
70
60
50
40
30
20
10
0

radius (arb)

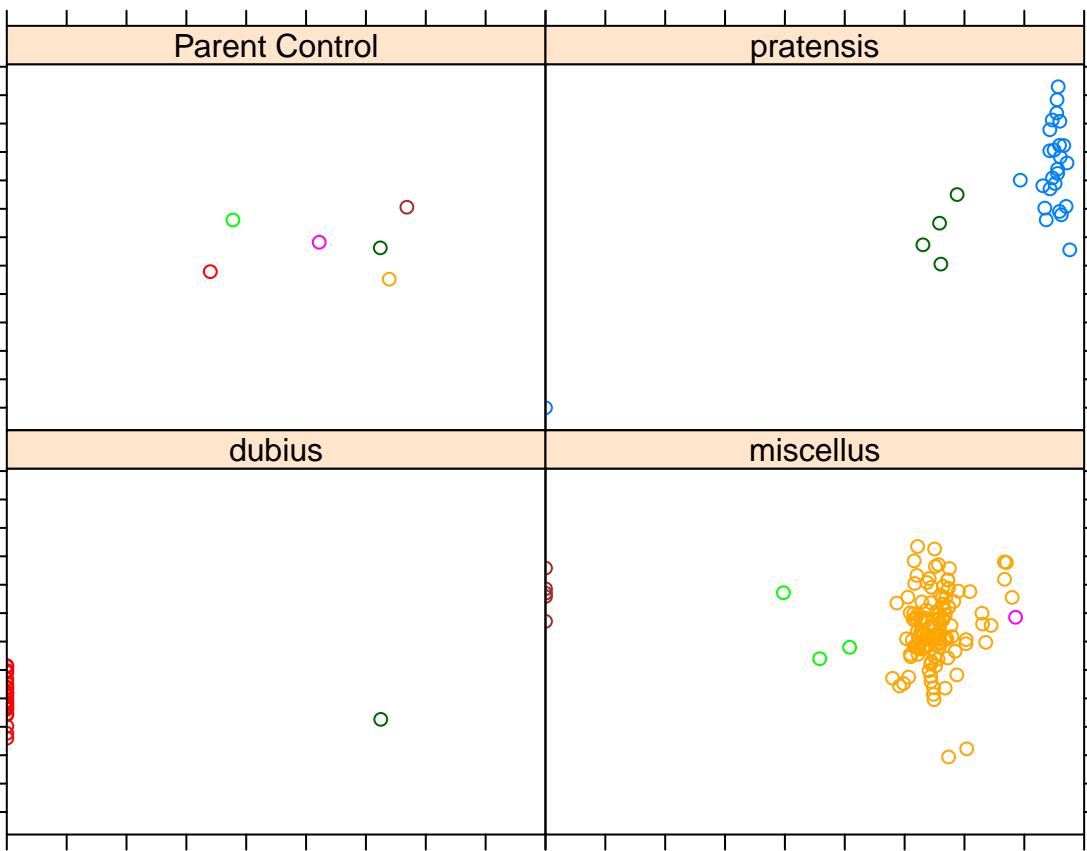
dubius

miscellus

110
100
90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

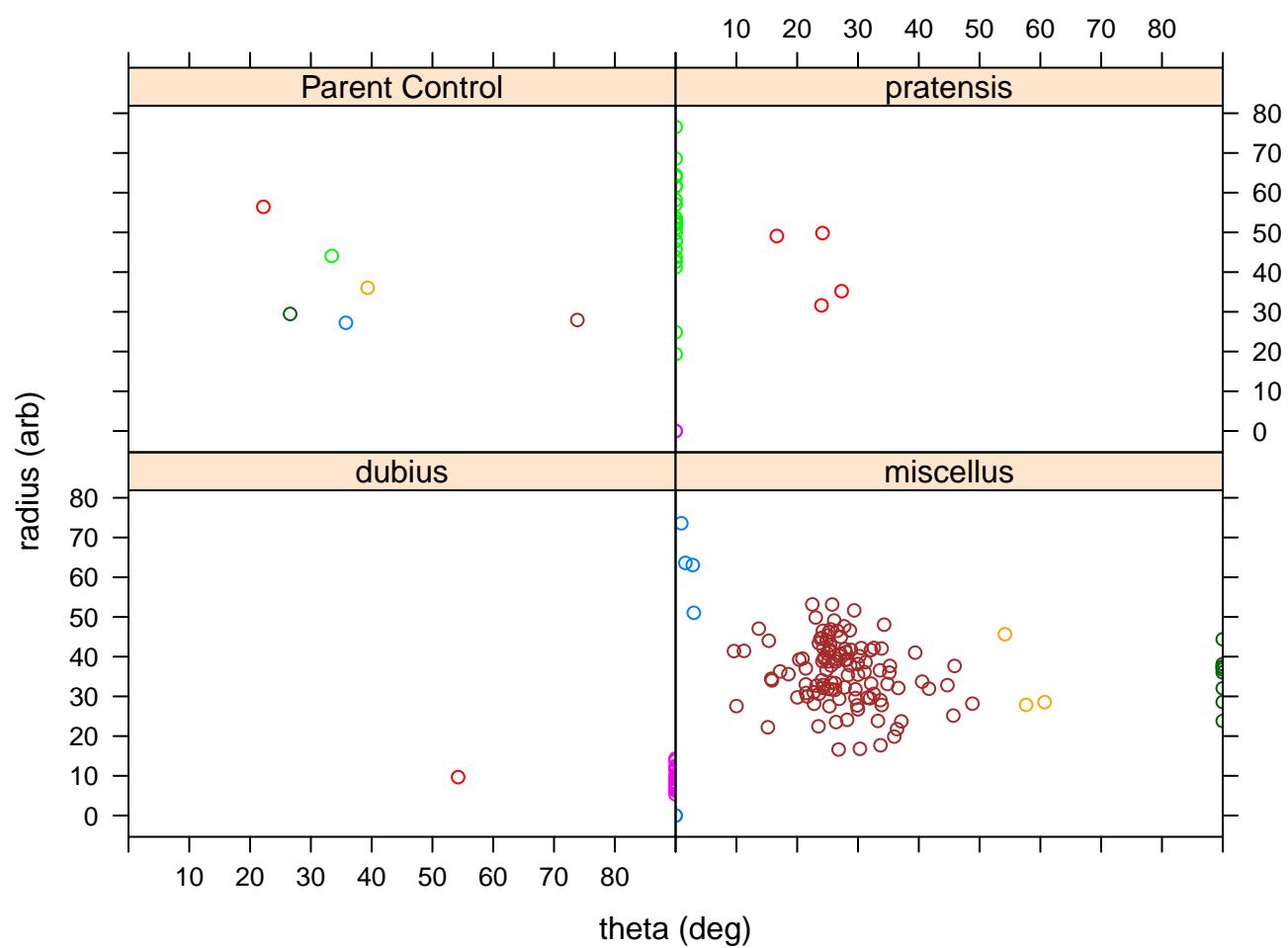
theta (deg)



V_2_5_isotig10606_599 cDNA

Call

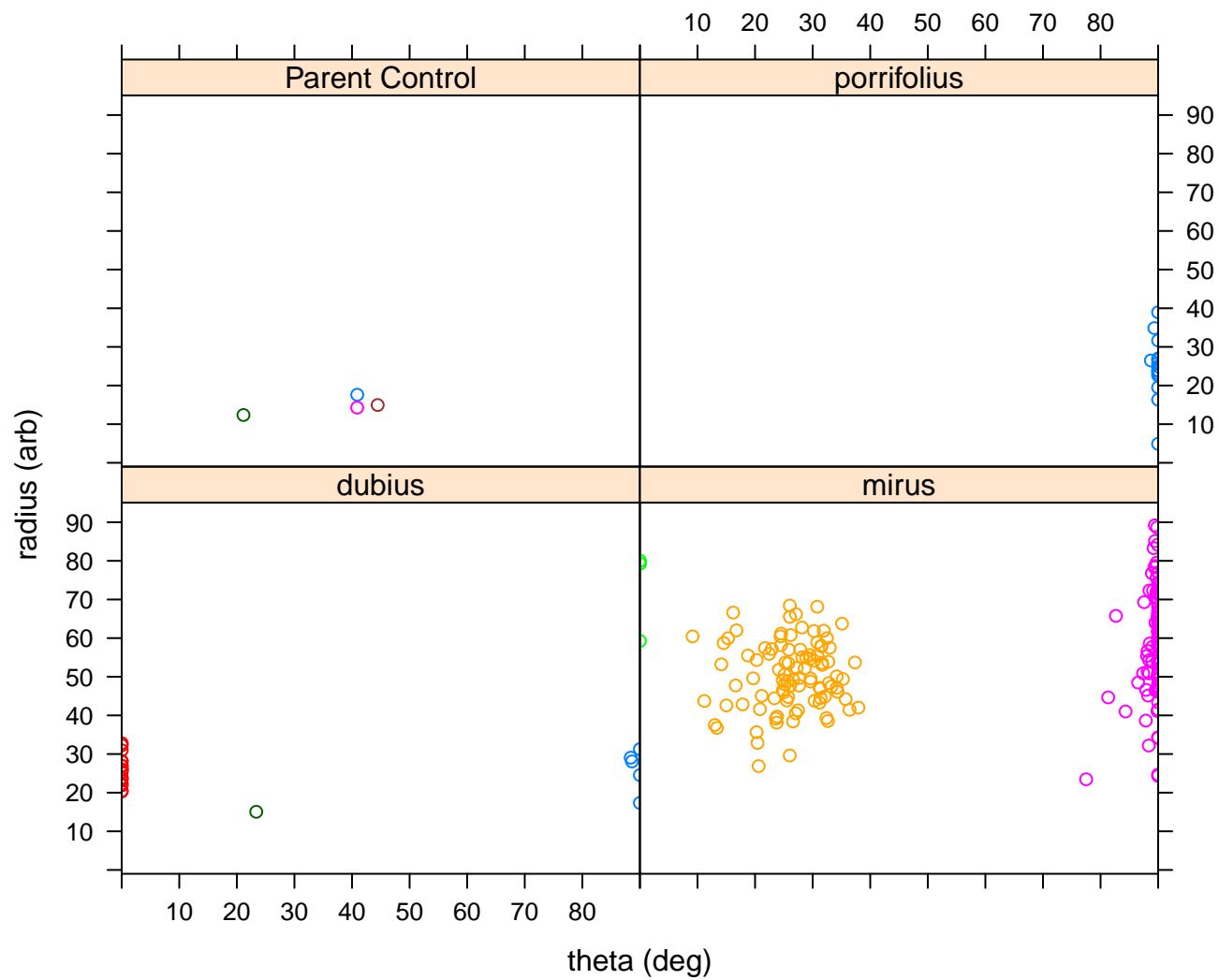
Bad_Spectrum	○	No_Alleles	○
HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LHHH	○	PM4	○
LL	○	PM5	○
LLHH	○	PM6	○
LLLL	○		



V_2_5_isotig10627_284 gDNA

Cal

HH	○	LLLL	●
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

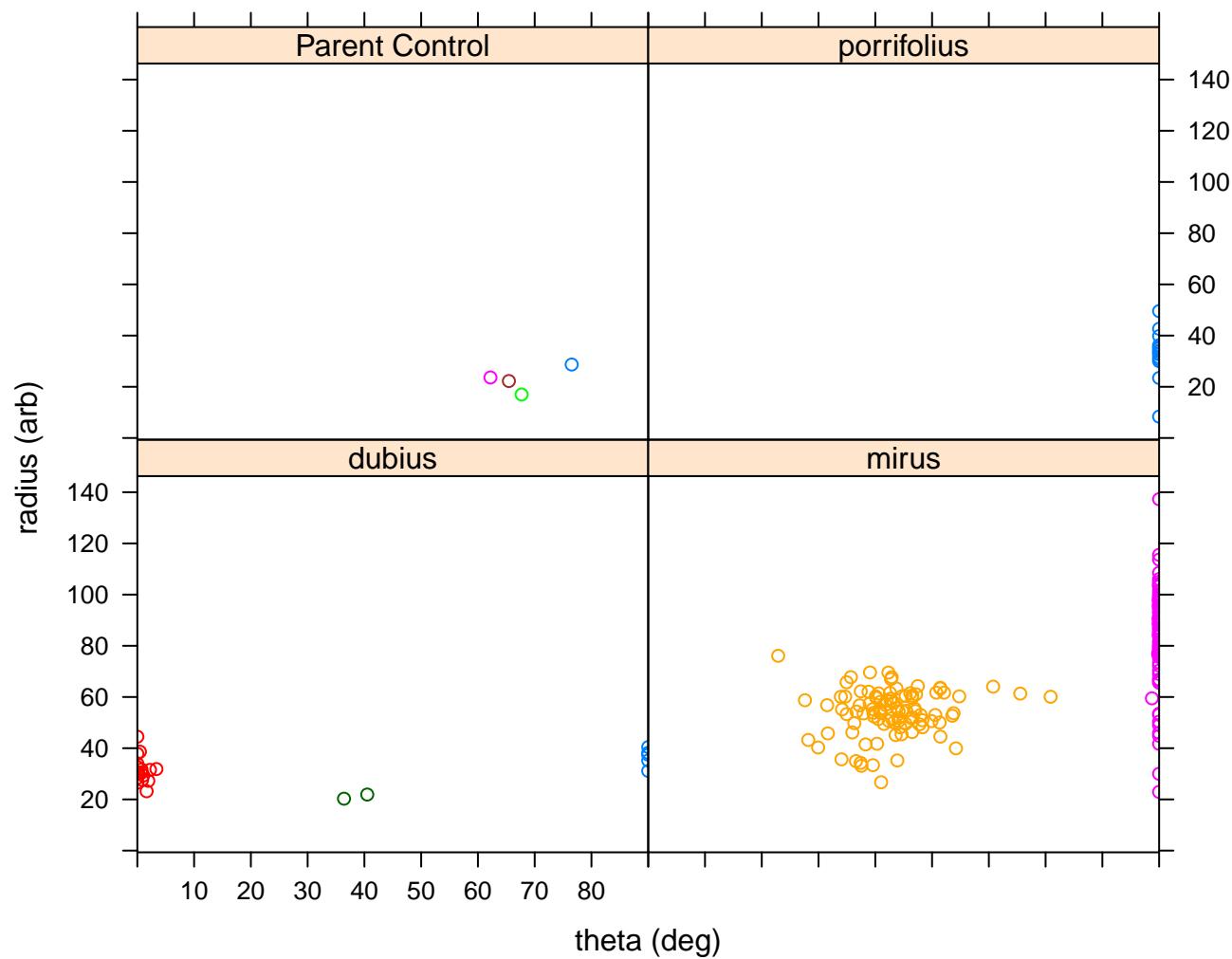


V_2_5_isotig10627_284 cDNA

Call

HH	○	PM1	○
HHHH	○	PM2_1_1	○
LH	○	PM2_1_2	○
LL	○	PM2_2_1	○
LLHH	○		

10 20 30 40 50 60 70 80



V_2_5_isotig10630_813 cDNA

Call

Bad_Spectrum	○	No_Aleles	○
HH	○	PM1	○
HHHH	○	PM2_1_1	○
LHHH	○	PM2_1_2	○
LL	○	PM2_2_1	○
LLHH	○		

10 20 30 40 50 60 70 80

Parent Control

porrifolius

10
9
8
7
6
5
4
3
2
1
0

dubius

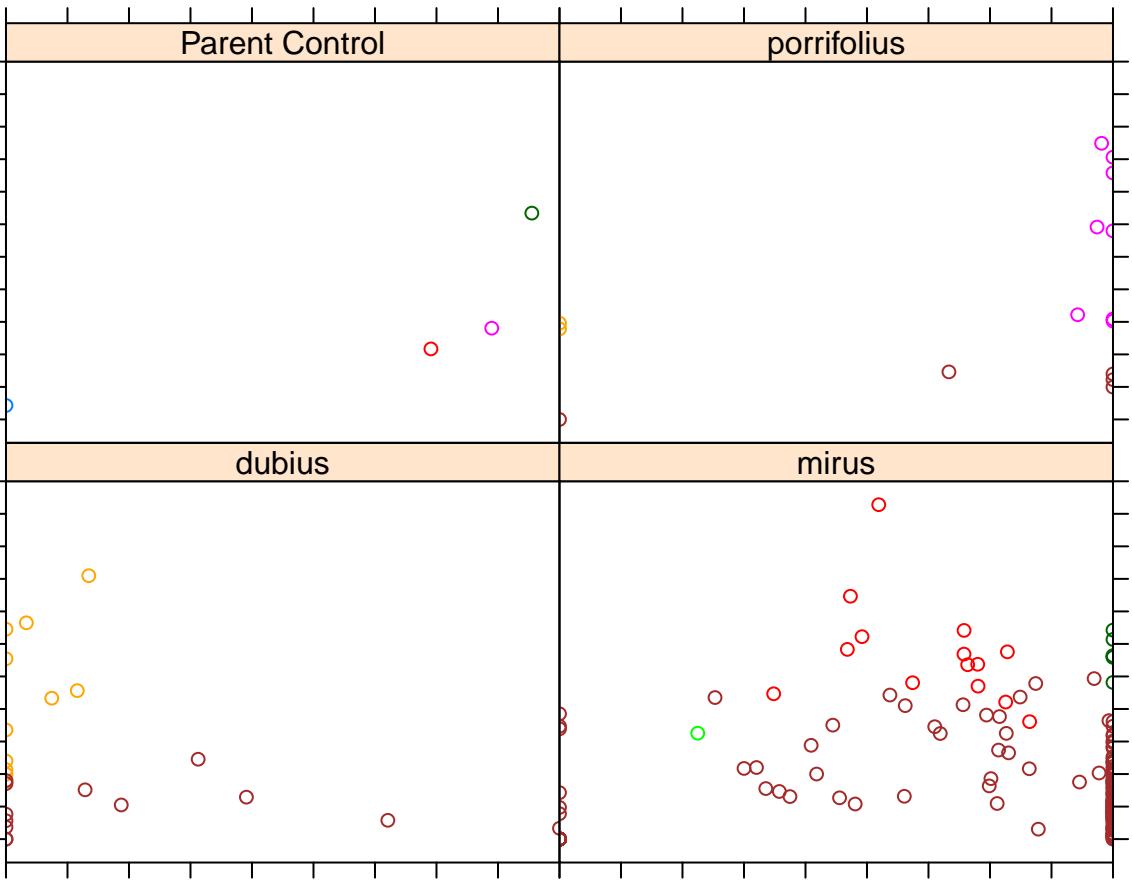
mirus

10
9
8
7
6
5
4
3
2
1
0

radius (arb)

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig10662_383 cDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

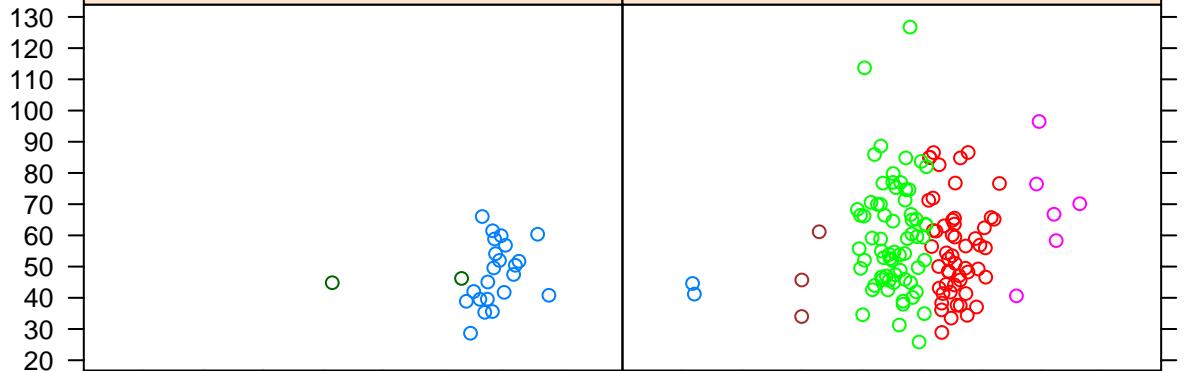
Parent Control

pratensis

130
120
110
100
90
80
70
60
50
40
30
20

dubius

miscellus



theta (deg)

V_2_5_isotig10662_505 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

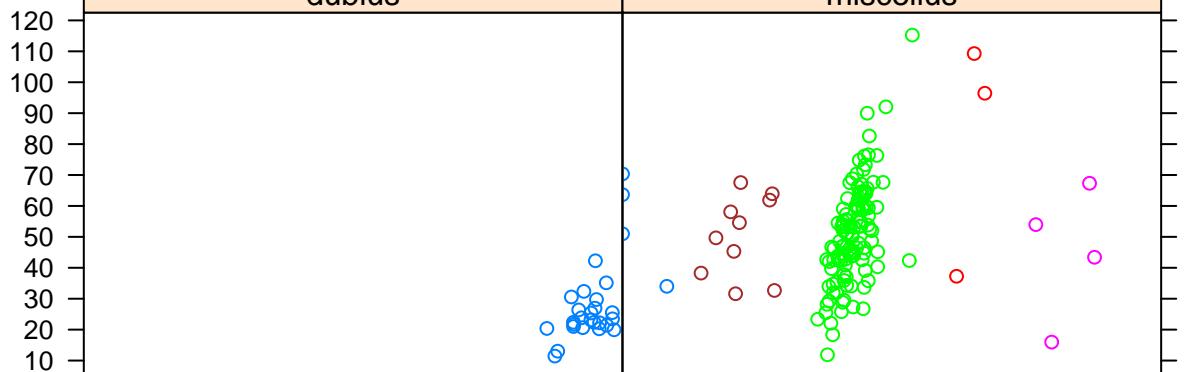
Parent Control

pratensis

120
110
100
90
80
70
60
50
40
30
20
10

dubius

miscellus



theta (deg)

V_2_5_isotig10662_505 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LL	○	PM3_2_1	○
LLHH	○	PM4	○
LLLH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

90
80
70
60
50
40
30
20
10
0

dubius

miscellus

radius (arb)

90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig10662_733 gDNA

Call

HH	No_Aleles
HHHH	PM3_1_1
LH	PM3_1_2
LHHH	PM3_2_1
LL	PM4
LLHH	PM5
LLLL	PM6

10 20 30 40 50 60 70 80

Parent Control

pratensis

radius (arb)

90
80
70
60
50
40
30
20
10

dubius

miscellus

90
80
70
60
50
40
30
20
10

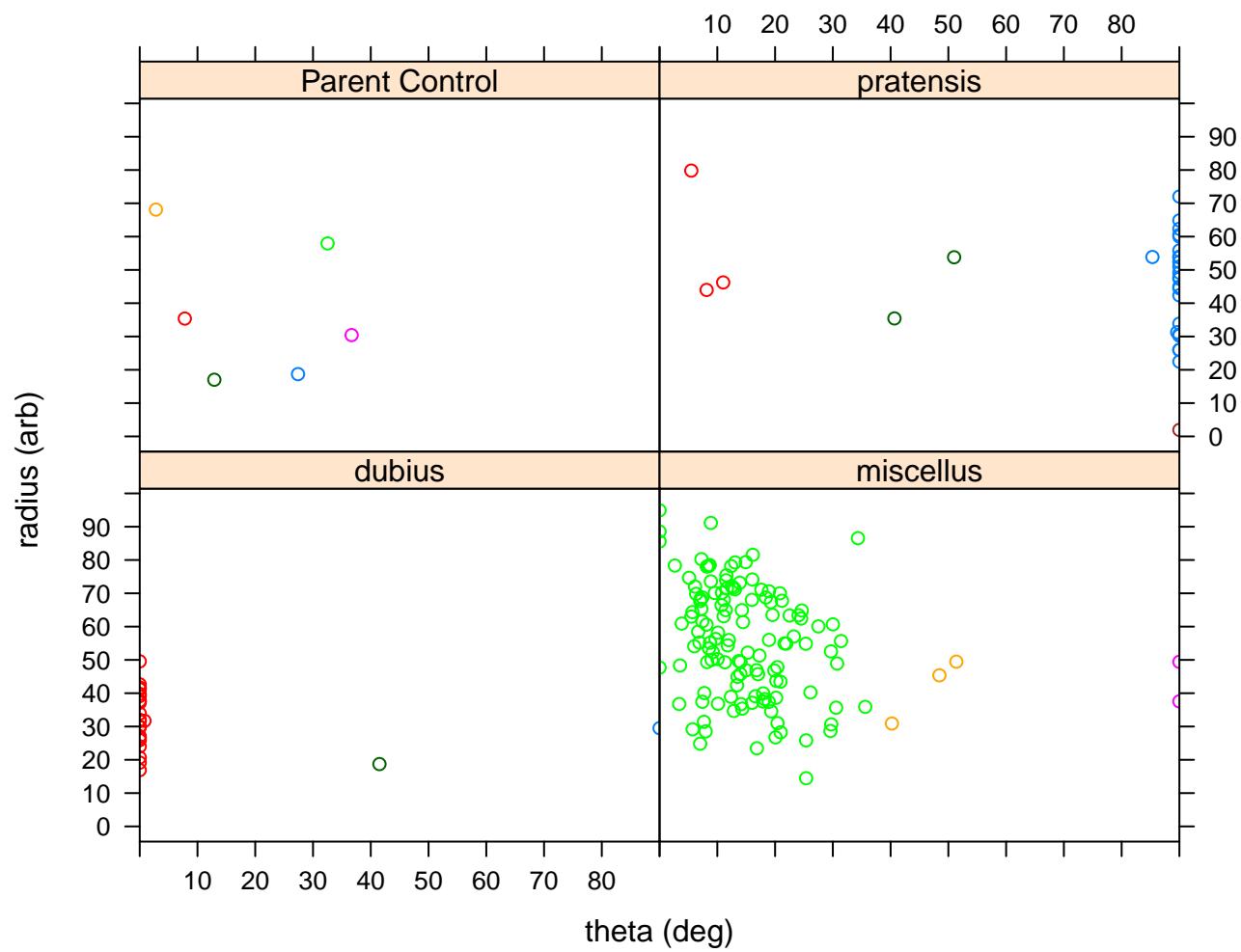
10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig10662_733 cDNA

Call

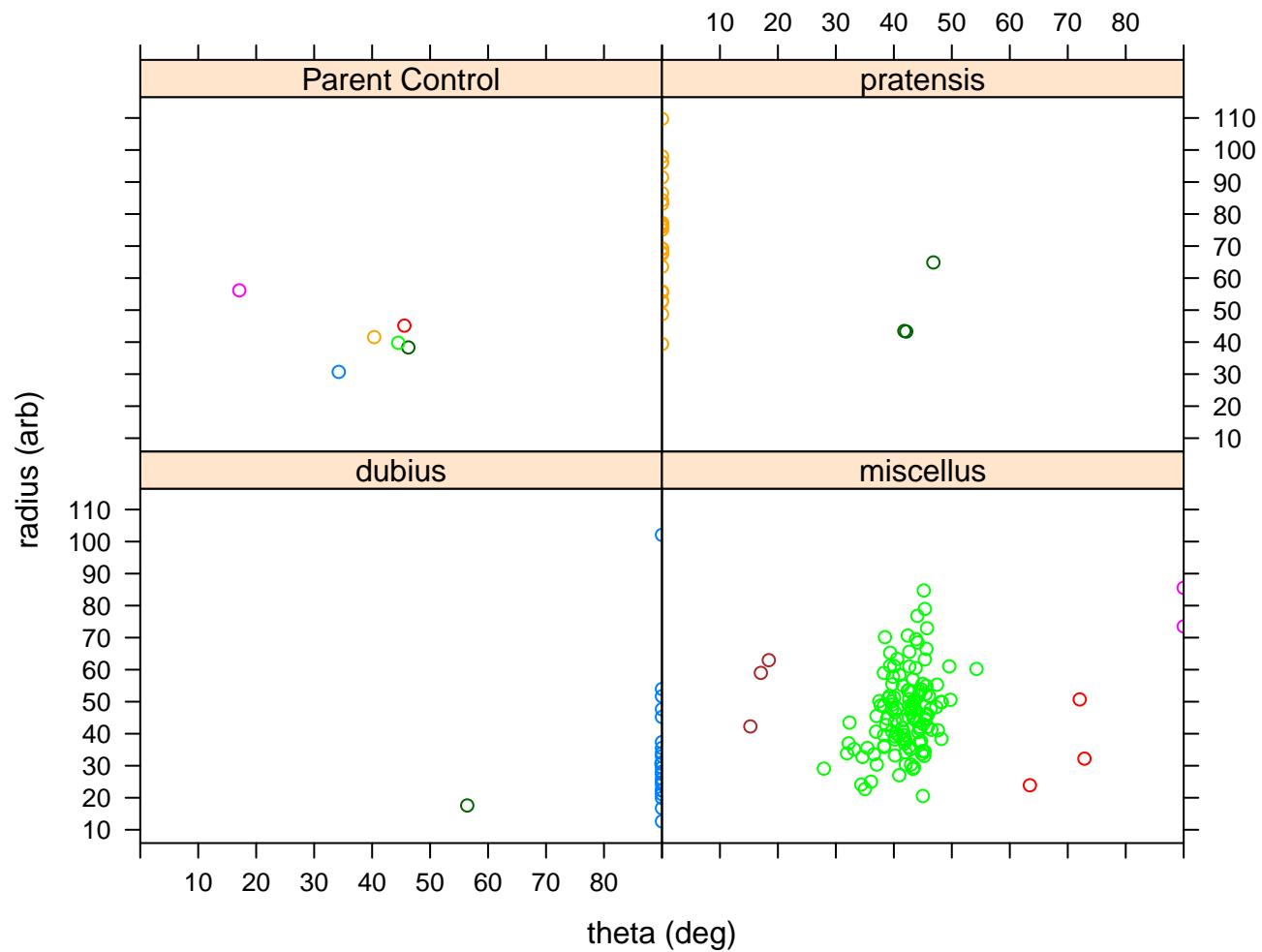
HH	○	PM3_1_1
HHHH	○	PM3_1_2
LH	○	PM3_2_1
LL	○	PM4
LLHH	○	PM5
LLLL	○	PM6
No Alleles	○	



V_2_5_isotig10667_199 gDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LHHH	○	PM4	○
LL	○	PM5	○
LLHH	○	PM6	○
LLLH	○		



V_2_5_isotig10667_199 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

120
110
100
90
80
70
60
50
40
30
20
10
0

dubius

miscellus

120
110
100
90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

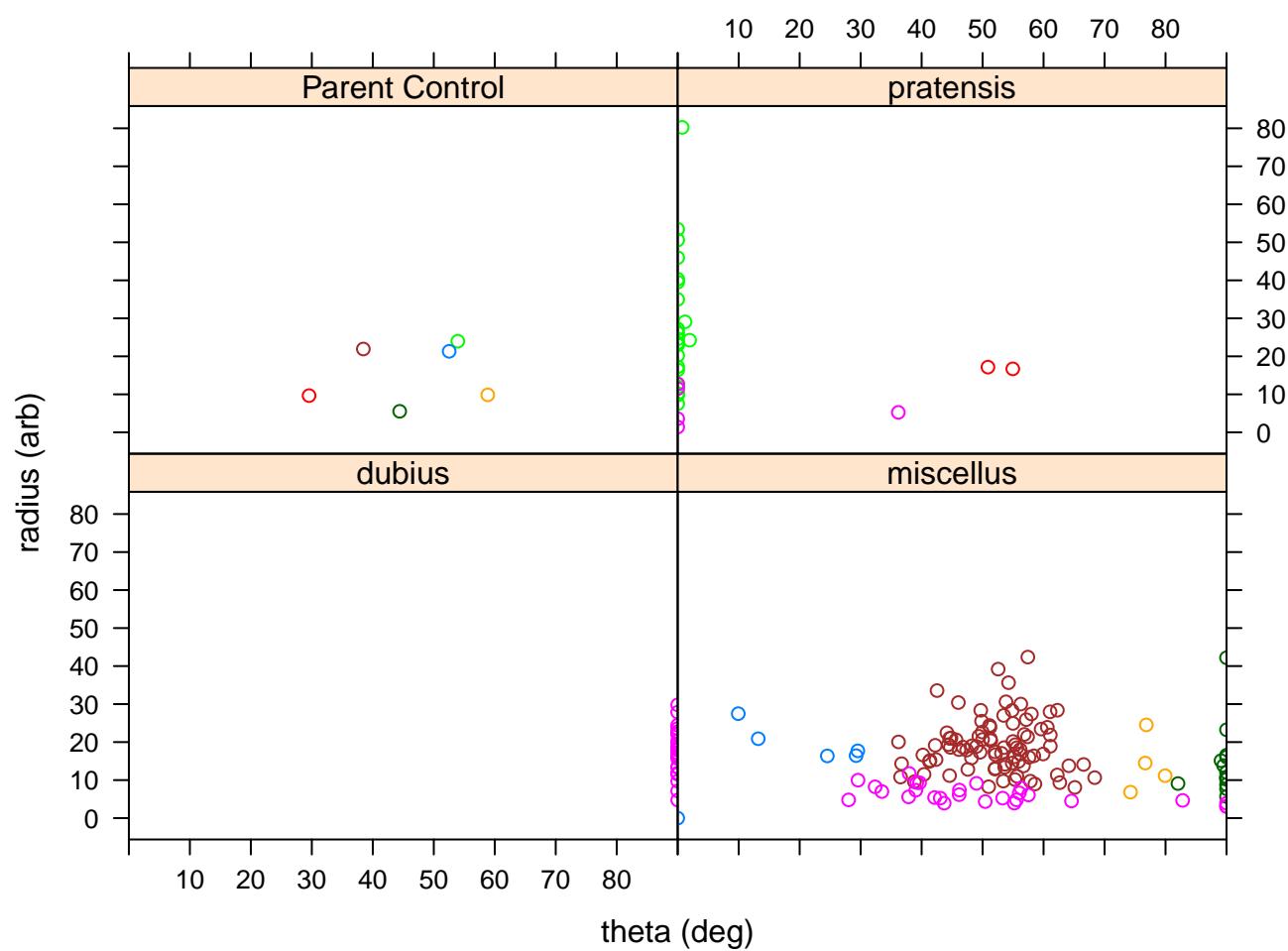
theta (deg)

radius (arb)

V_2_5_isotig10667_447 gDNA

Call

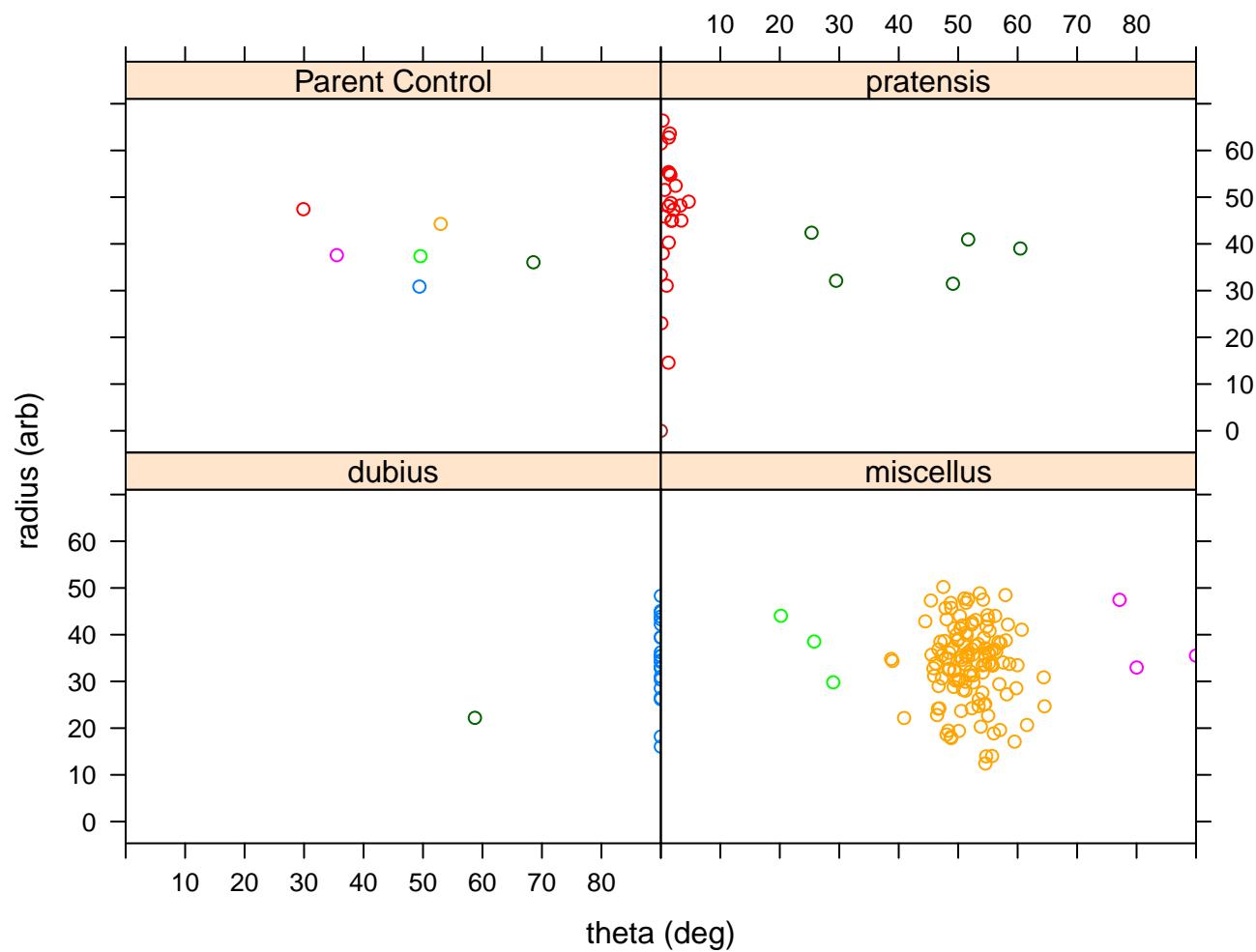
Bad_Spectrum	○	No_Aleles	○
HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LHHH	○	PM4	○
LL	○	PM5	○
LLHH	○	PM6	○
LLLH	○		



V_2_5_isotig10667_447 cDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
No_Alleles	○		



V_2_5_isotig10667_753 gDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

35
30
25
20
15
10
5
0

dubius

miscellus

radius (arb)

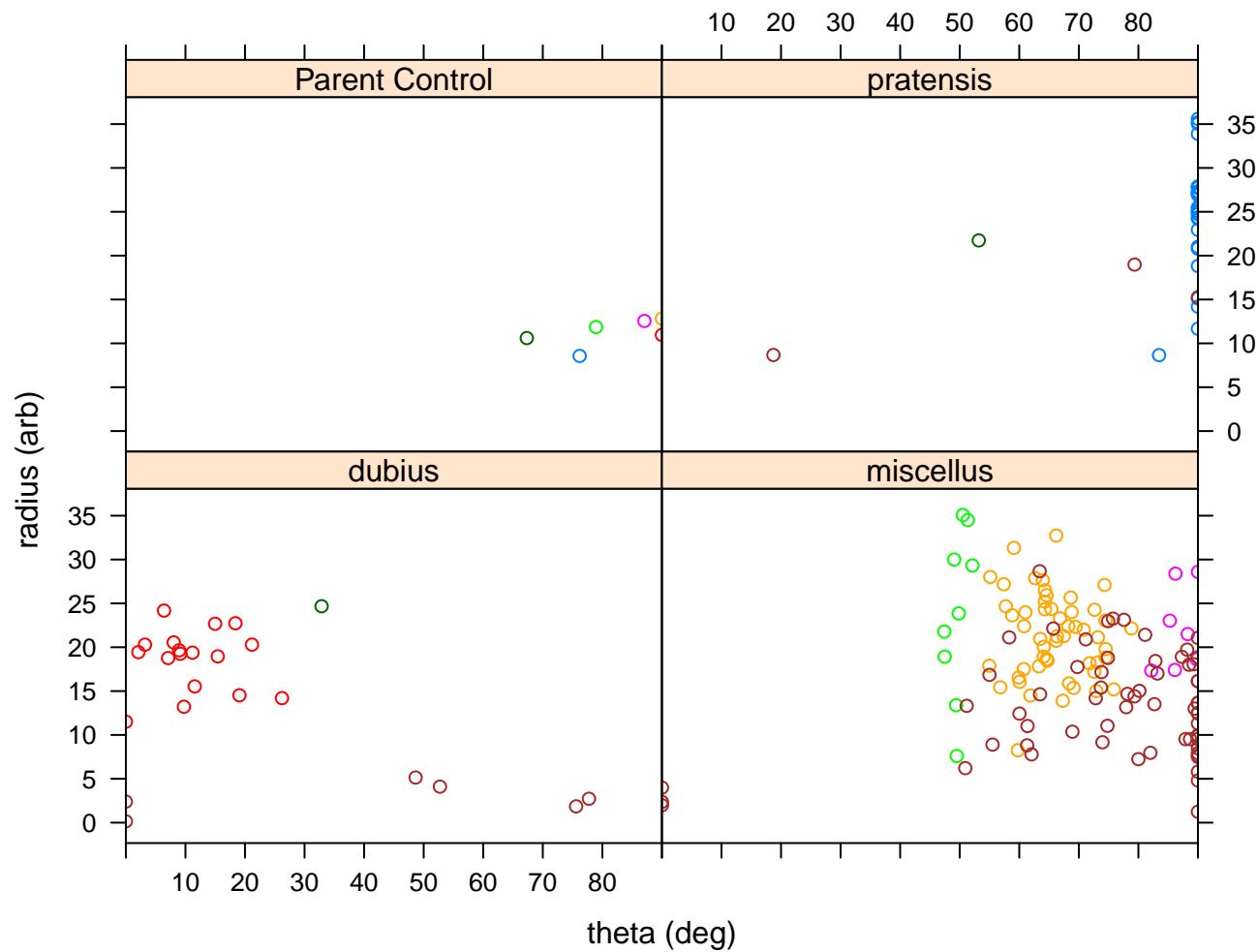
10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig10667_753 cDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
No_Alleles	○		



V_2_5_isotig10701_455 cDNA

Call

Bad_Spectrum	○	LLLL	○
HH	○	No_Alleles	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

70
60
50
40
30
20
10
0

dubius

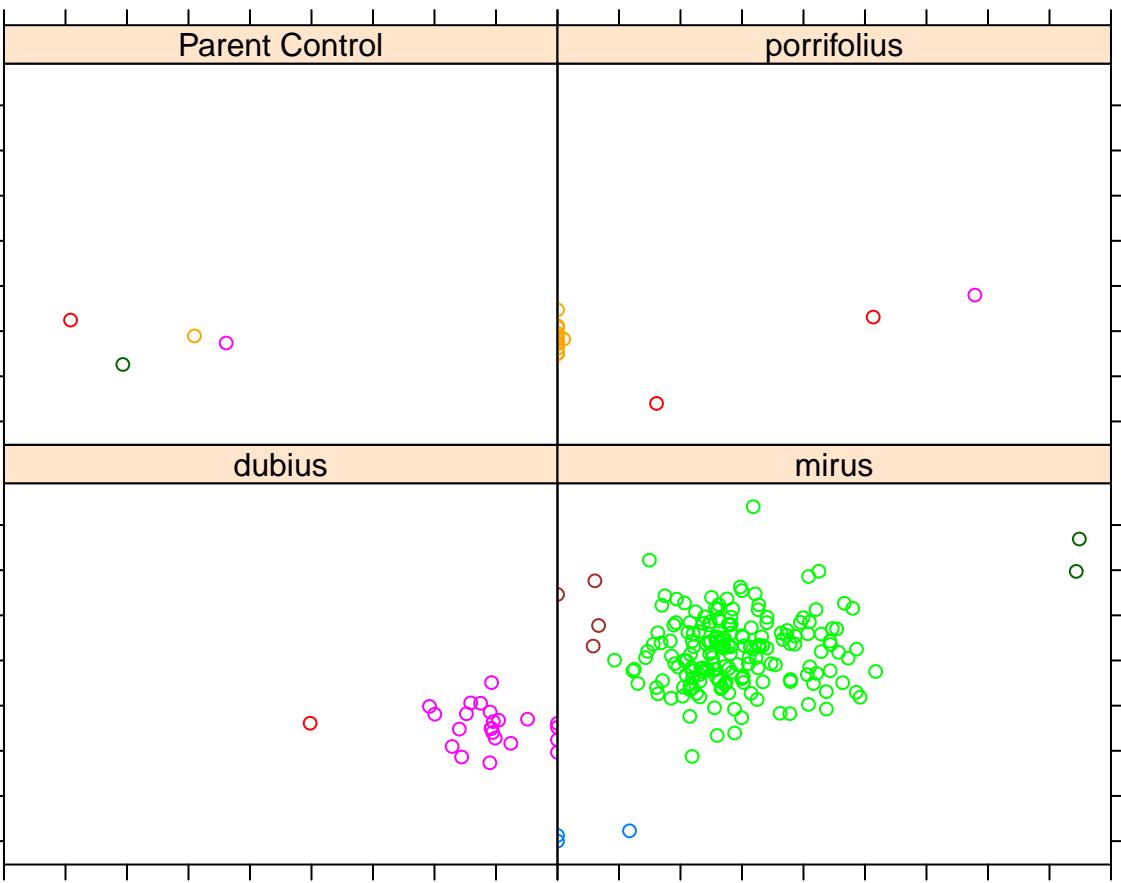
mirus

radius (arb)

70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig10701_526 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LHHH	○	PM2_1_2	○
LL	○	PM2_2_1	○
LLHH	○		

10 20 30 40 50 60 70 80

Parent Control

porrifolius

110
100
90
80
70
60
50
40
30
20

dubius

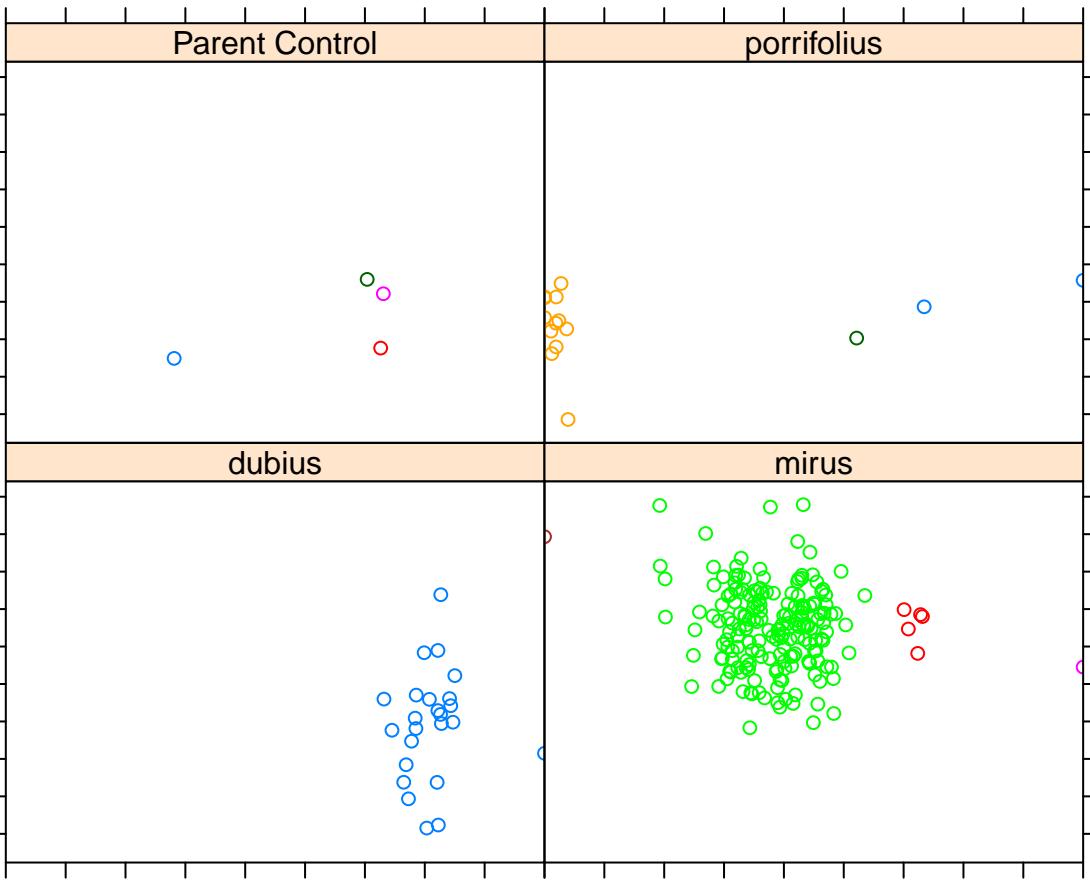
mirus

110
100
90
80
70
60
50
40
30
20

10 20 30 40 50 60 70 80

theta (deg)

radius (arb)



V_2_5_isotig10701_526 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLL	○		○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

radius (arb)

140
120
100
80
60
40
20
0

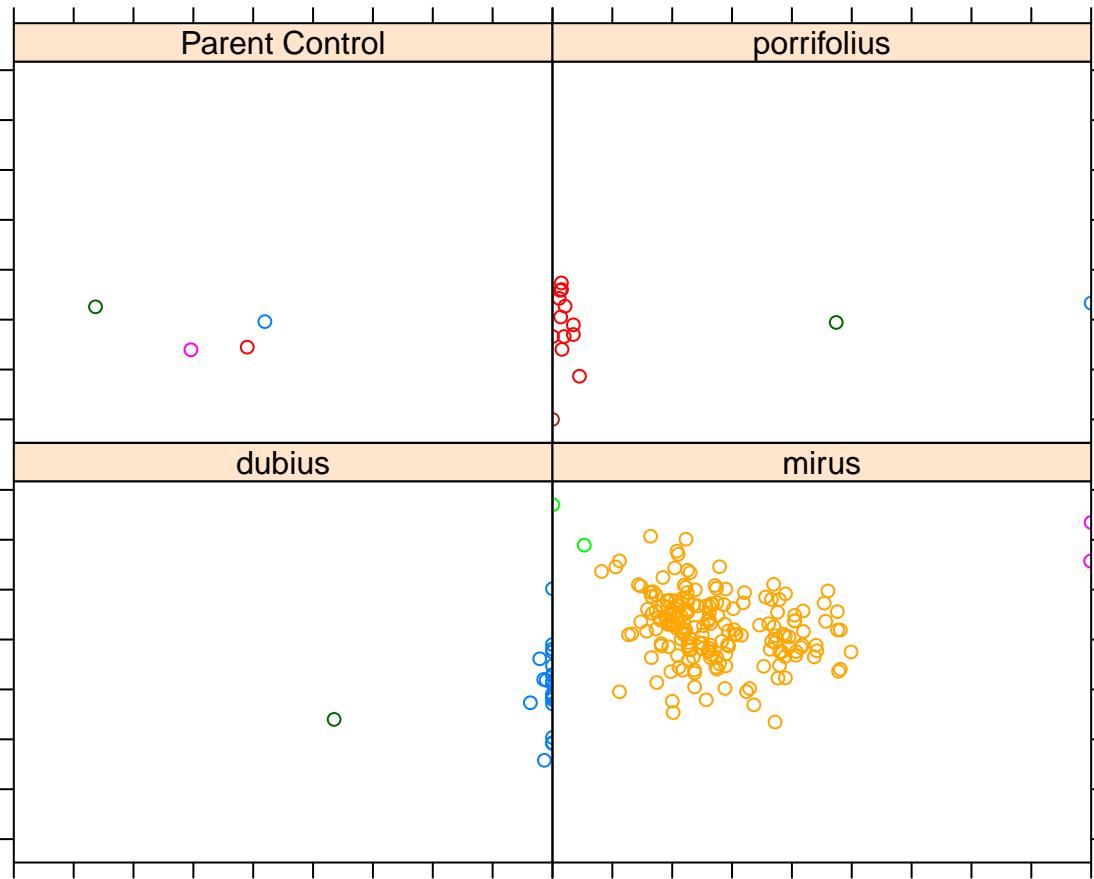
dubius

mirus

140
120
100
80
60
40
20
0

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig10710_939 gDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

80
70
60
50
40
30
20
10
0

dubius

miscellus

radius (arb)

80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig10710_939 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

90
80
70
60
50
40
30
20
10
0

dubius

miscellus

radius (arb)

90
80
70
60
50
40
30
20
10
0

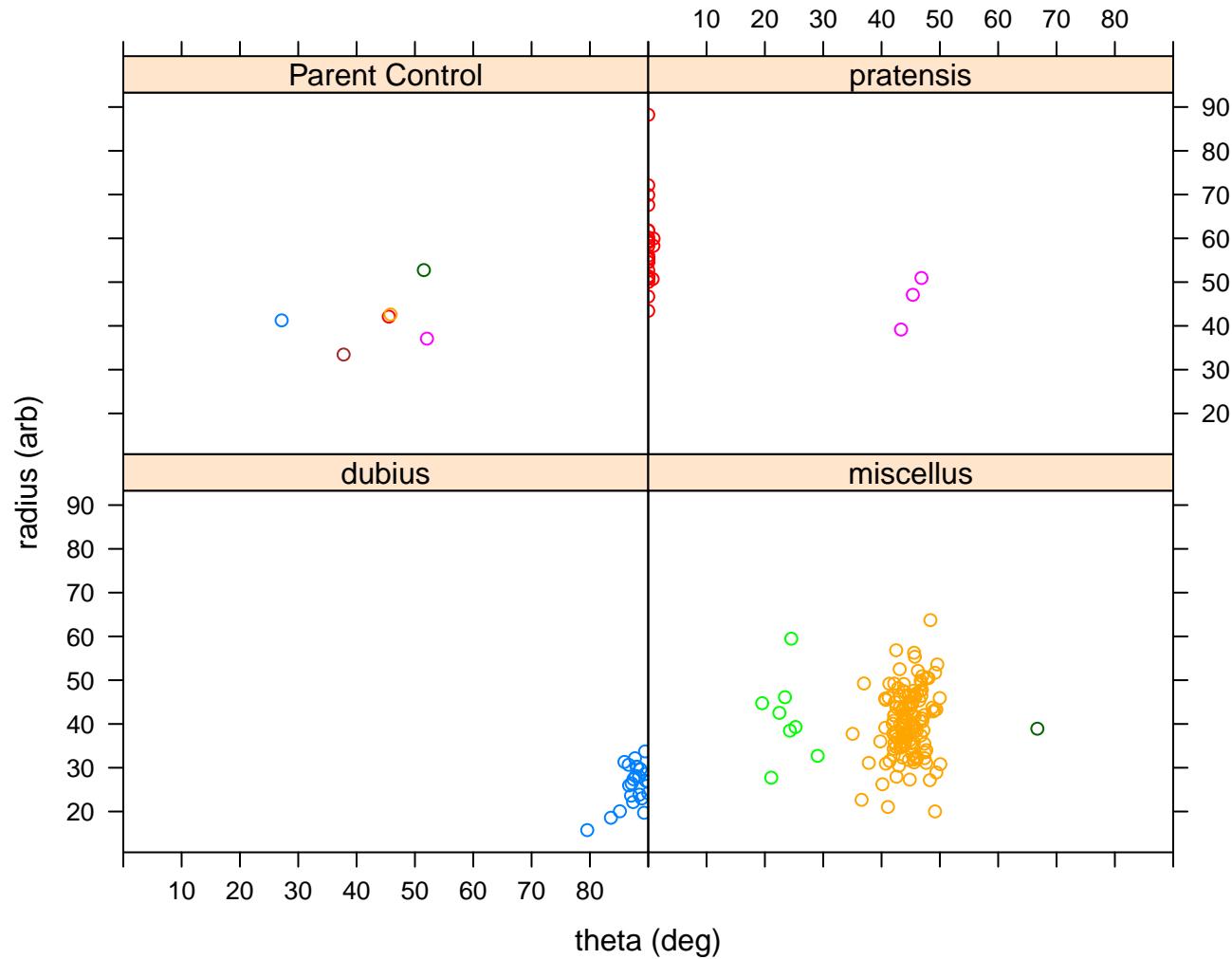
10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig10797_256 gDNA

Call

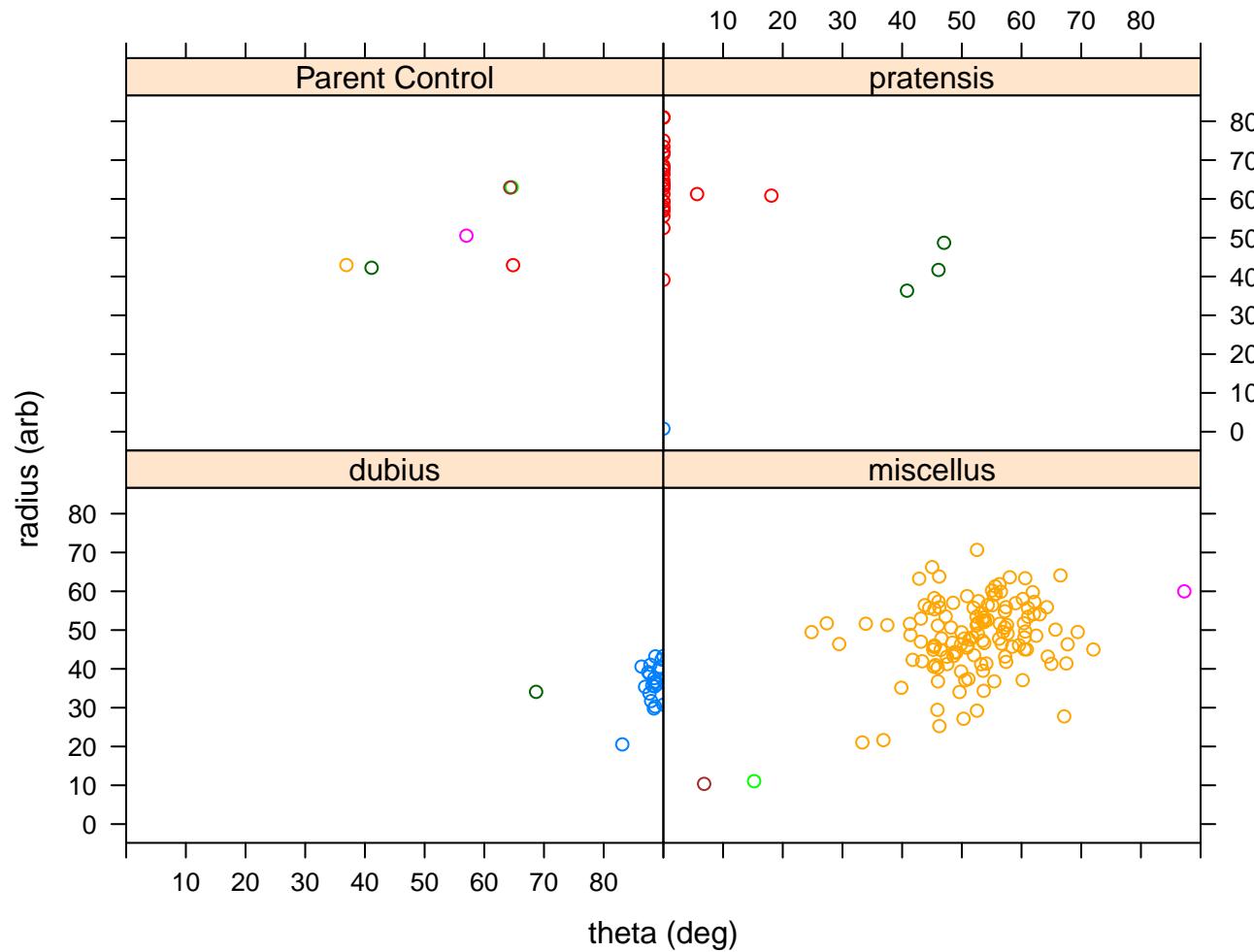
HH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○



V_2_5_isotig10797_256 cDNA

Call

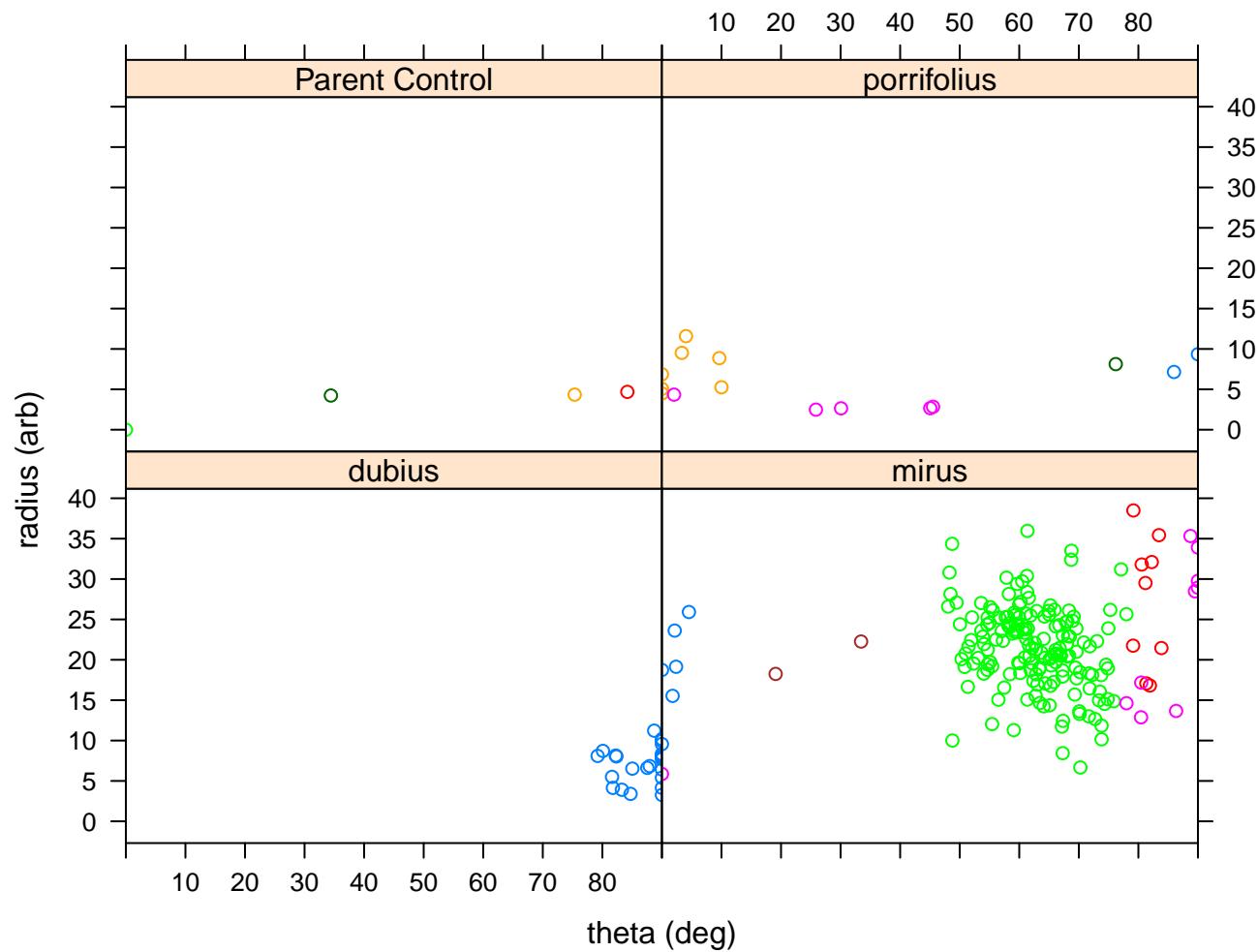
HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LL	○	PM3_2_1	○
LLHH	○	PM4	○
LLLH	○	PM5	○
LLLL	○	PM6	○



V_2_5_isotig10801_873 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig10801_873 cDNA

Call

HH	○	LLLL	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

55
50
45
40
35
30
25
20
15
10
5

radius (arb)

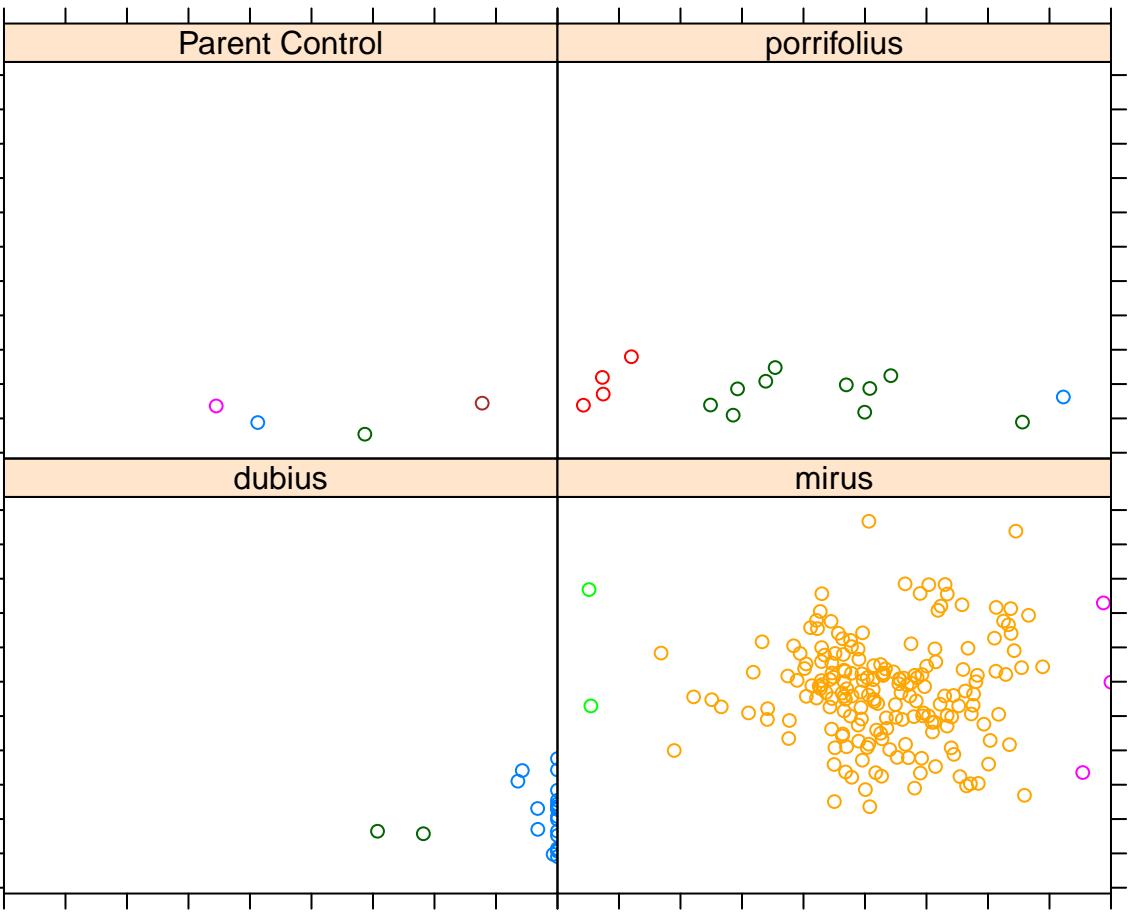
dubius

mirus

55
50
45
40
35
30
25
20
15
10
5

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig10816_65 gDNA

Call

HH	○	LLLL	○
LH	○	No_Aleles	○
LHHH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

90
80
70
60
50
40
30
20
10
0

radius (arb)

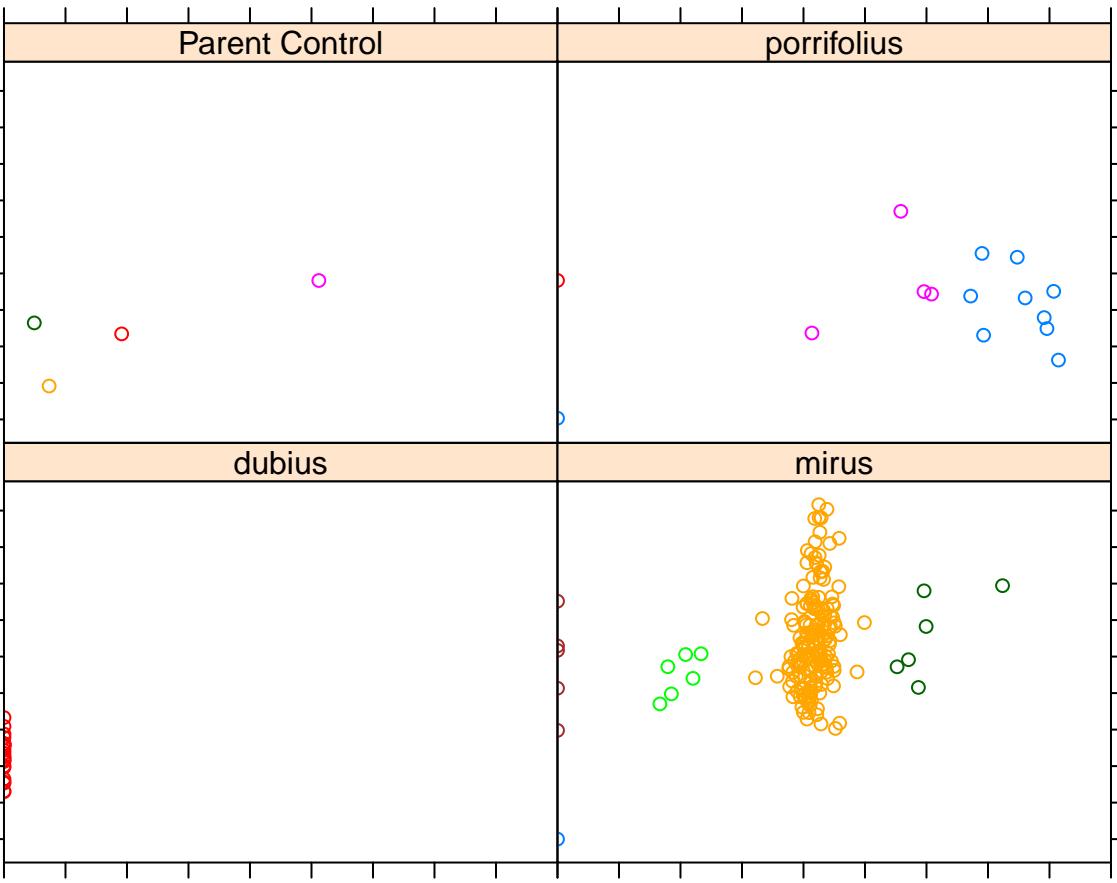
dubius

mirus

90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

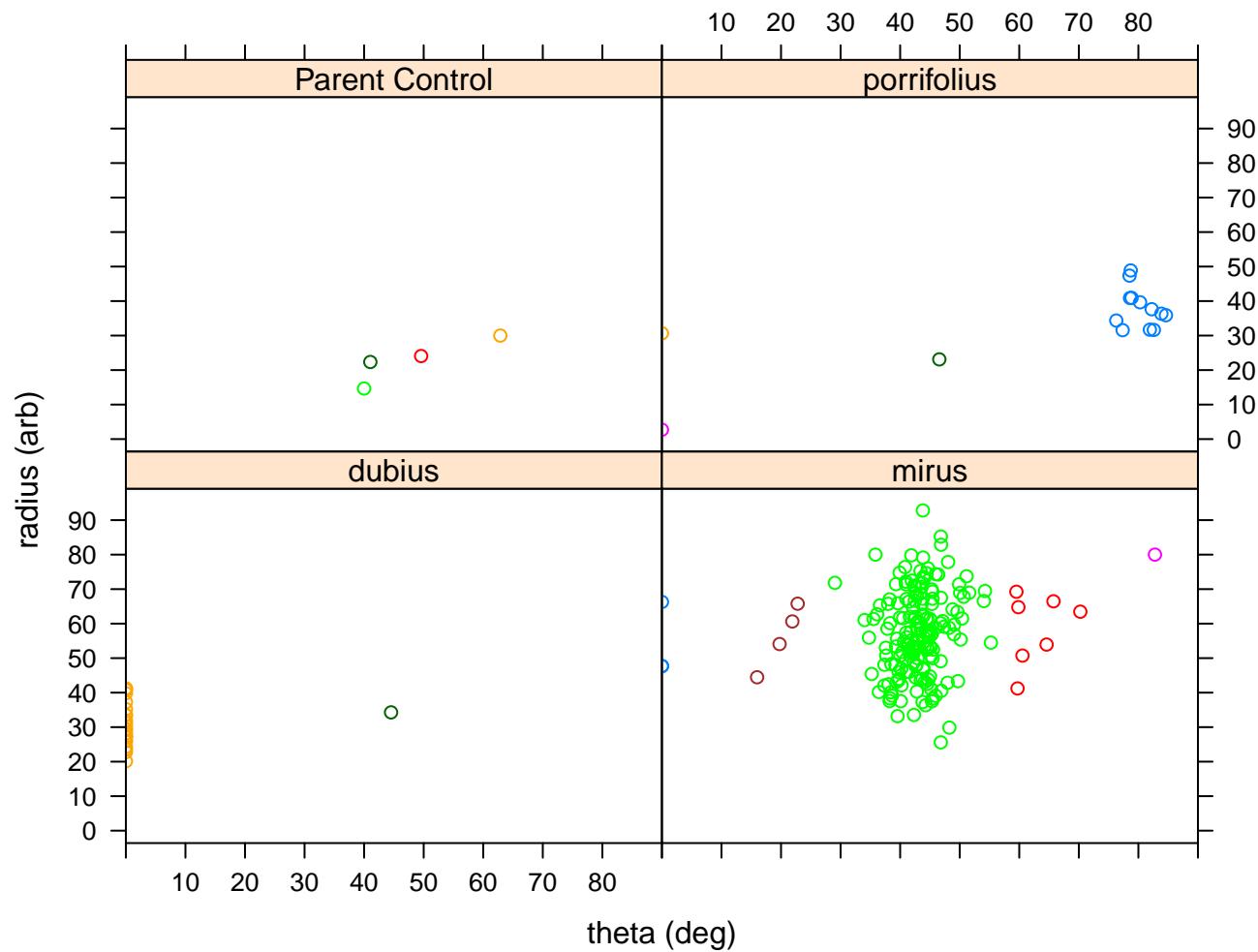
theta (deg)



V_2_5_isotig10816_65 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig10816_883 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

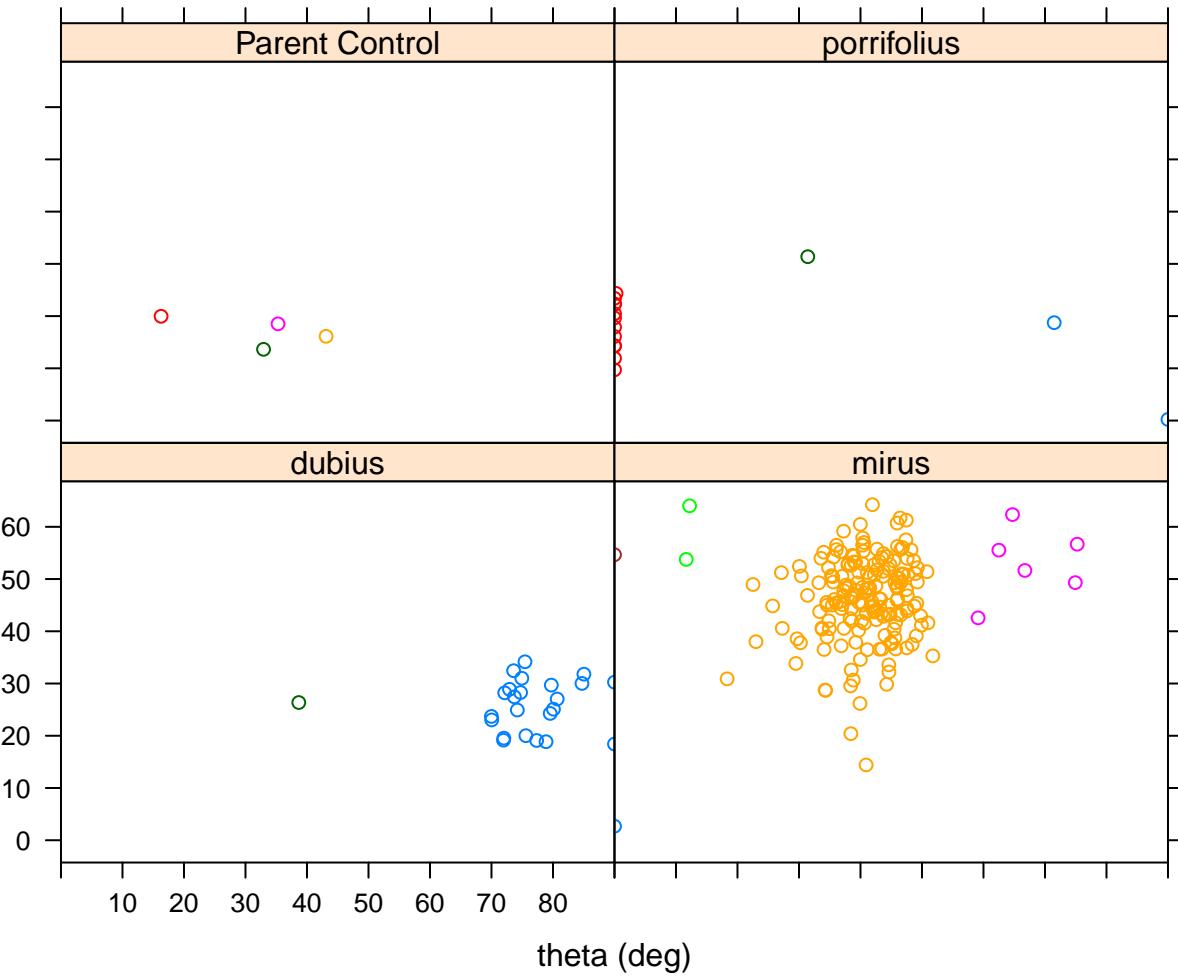
porrifolius

60
50
40
30
20
10
0

dubius

mirus

radius (arb)



10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig10823_891 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

200
180
160
140
120
100
80
60
40
20
0

dubius

mirus

200
180
160
140
120
100
80
60
40
20
0

10 20 30 40 50 60 70 80

theta (deg)

radius (arb)

V_2_5_isotig10876_702 gDNA

Call

HH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

90
80
70
60
50
40
30
20
10

dubius

miscellus

90

80

70

60

50

40

30

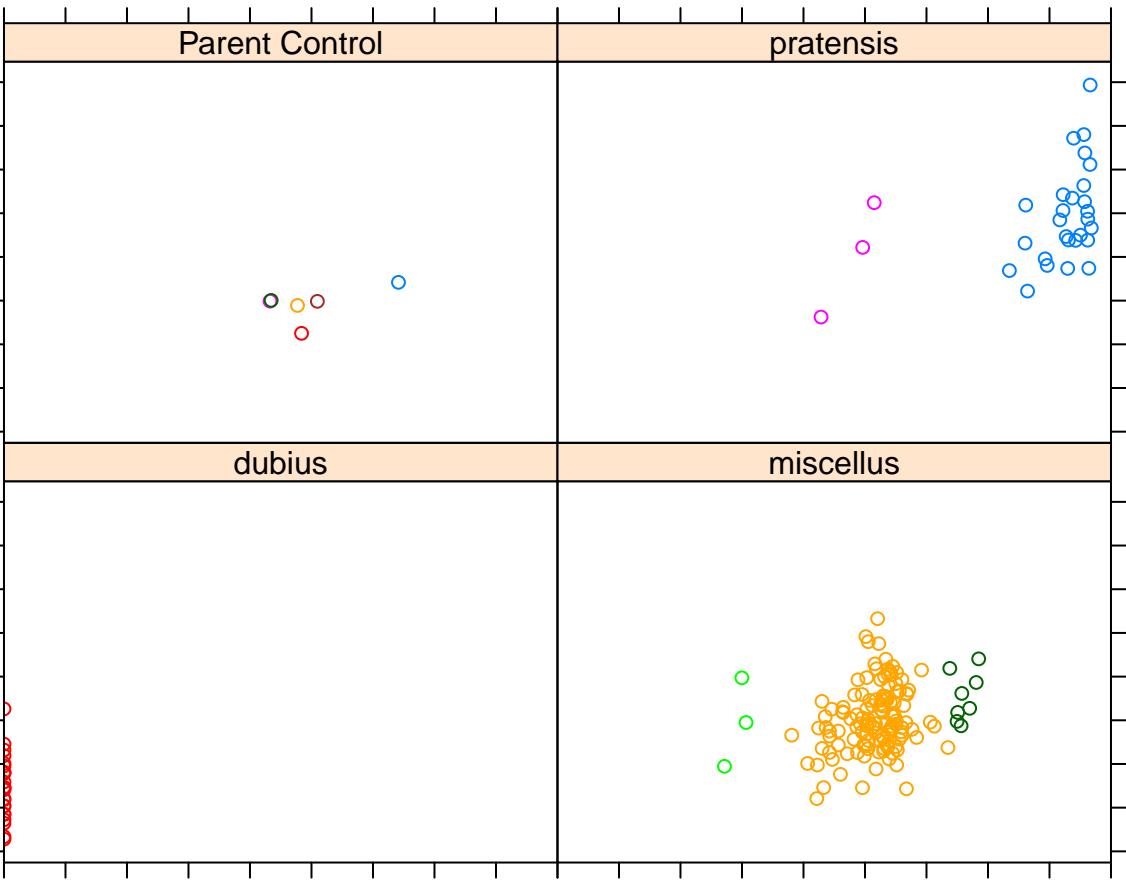
20

10

10 20 30 40 50 60 70 80

theta (deg)

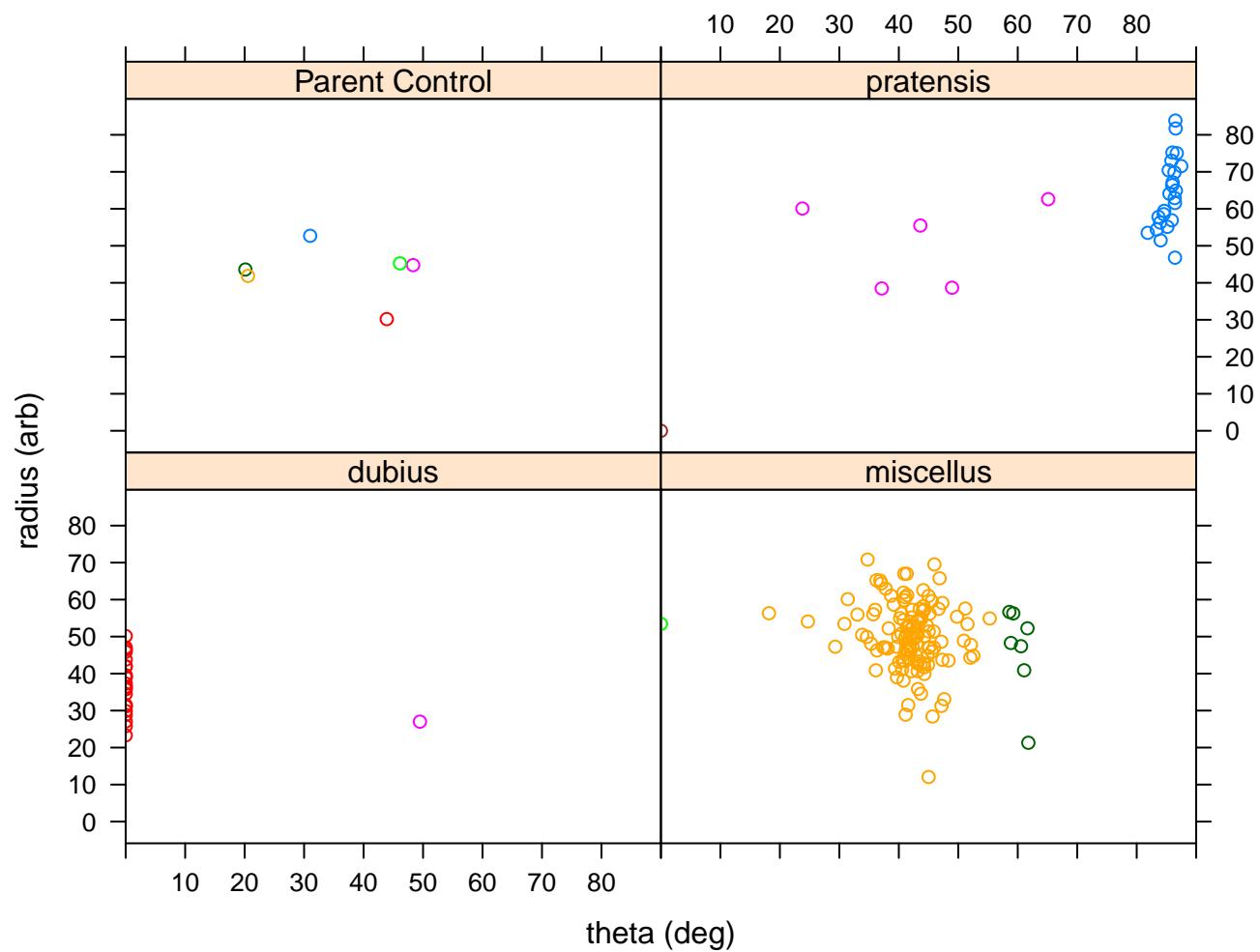
radius (arb)



V_2_5_isotig10876_702 cDNA

Call

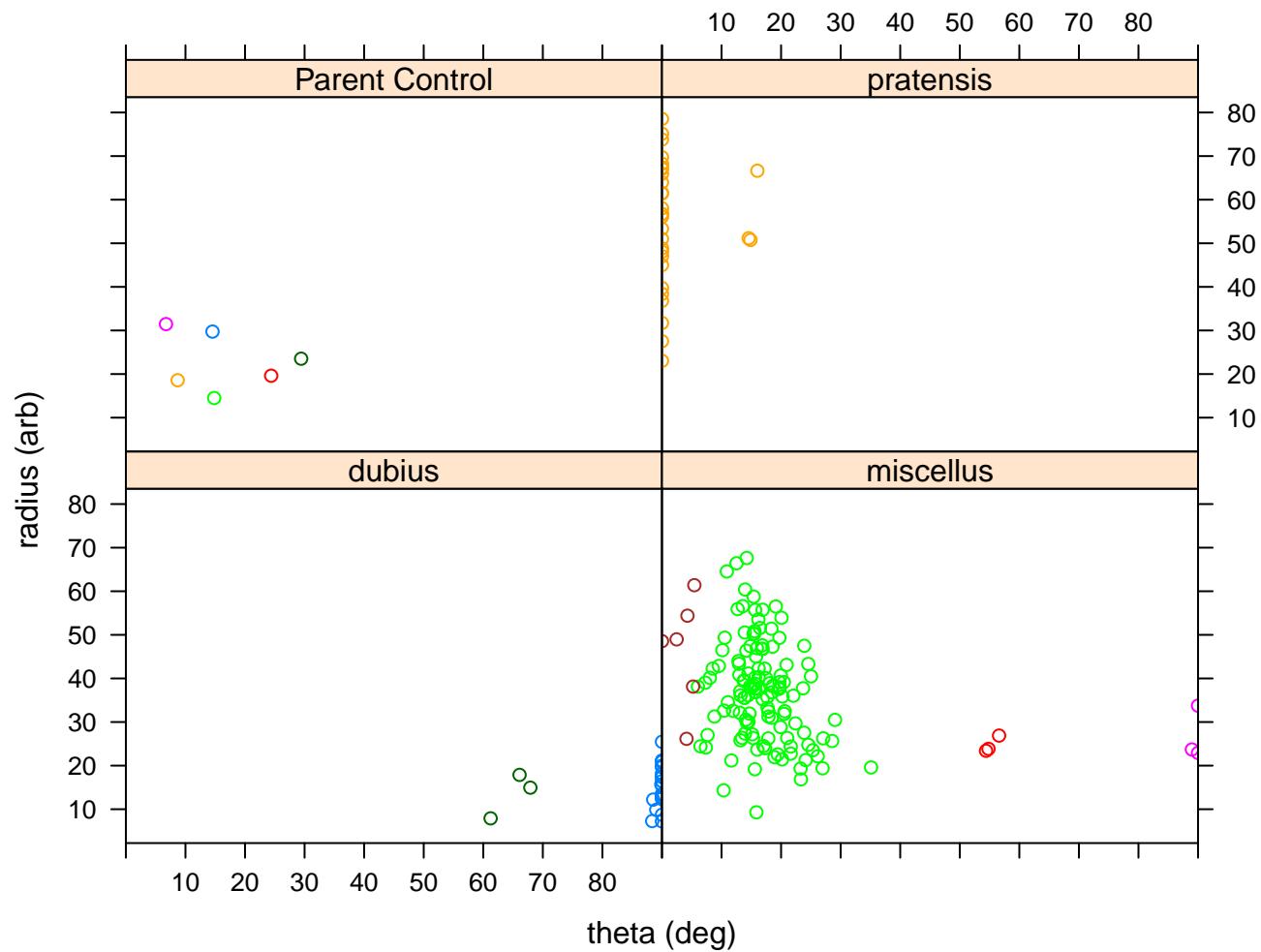
HH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○
No_Alleles	○		



V_2_5_isotig10898_371 gDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LHHH	○	PM4	○
LL	○	PM5	○
LLHH	○	PM6	○
LLLL	○		



V_2_5_isotig10898_371 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

100
90
80
70
60
50
40
30
20
10
0

dubius

miscellus

radius (arb)

100
90
80
70
60
50
40
30
20
10
0

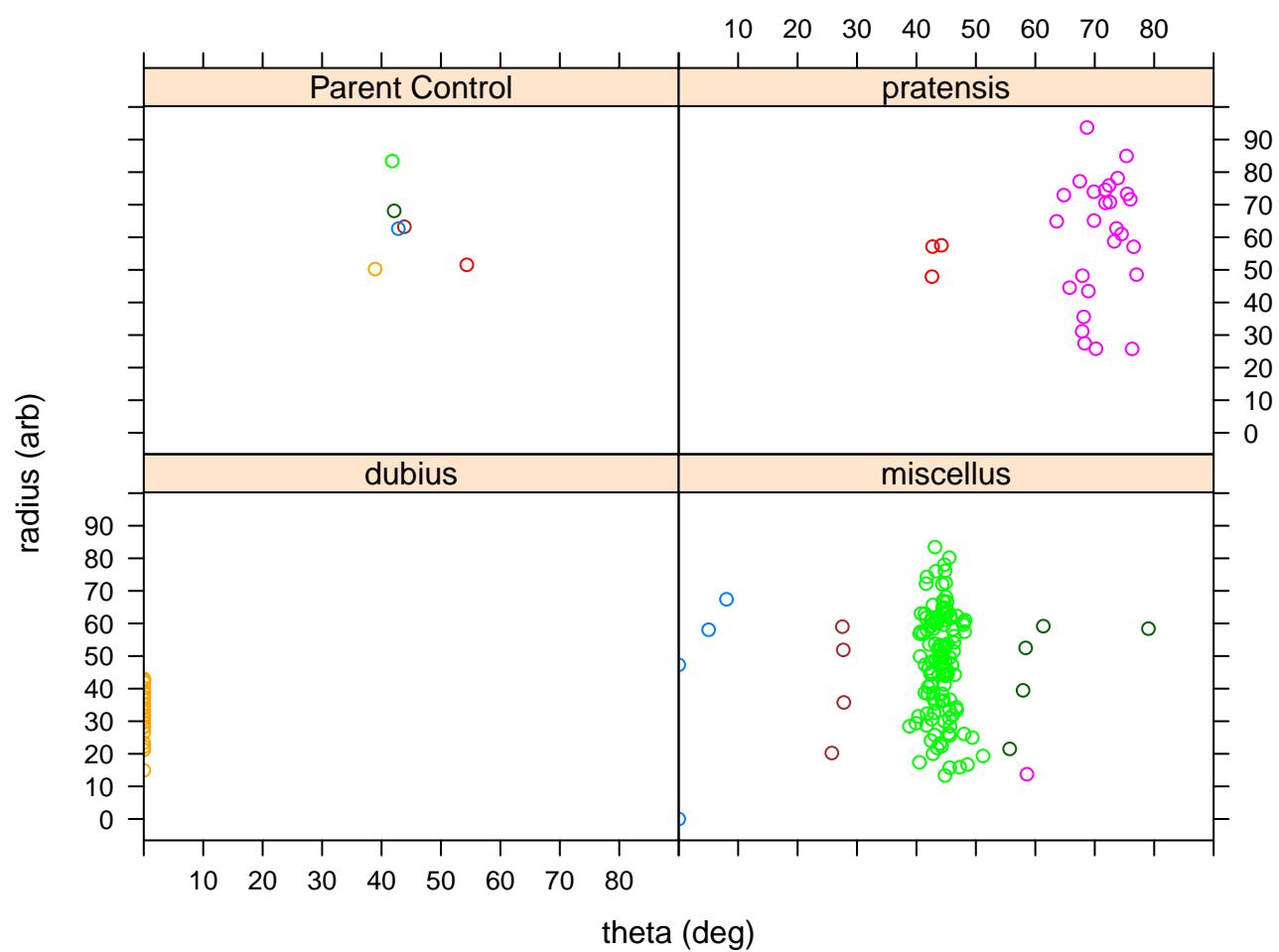
10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig10898_407 gDNA

Call

Bad_Spectrum	○	No_Alleles	○
HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		



V_2_5_isotig10898_407 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

110
100
90
80
70
60
50
40
30
20
10
0

dubius

miscellus

radius (arb)

110
100
90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig10911_151 gDNA

Call

HH	○	LLLH	○
HHHH	○	LLLL	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

radius (arb)

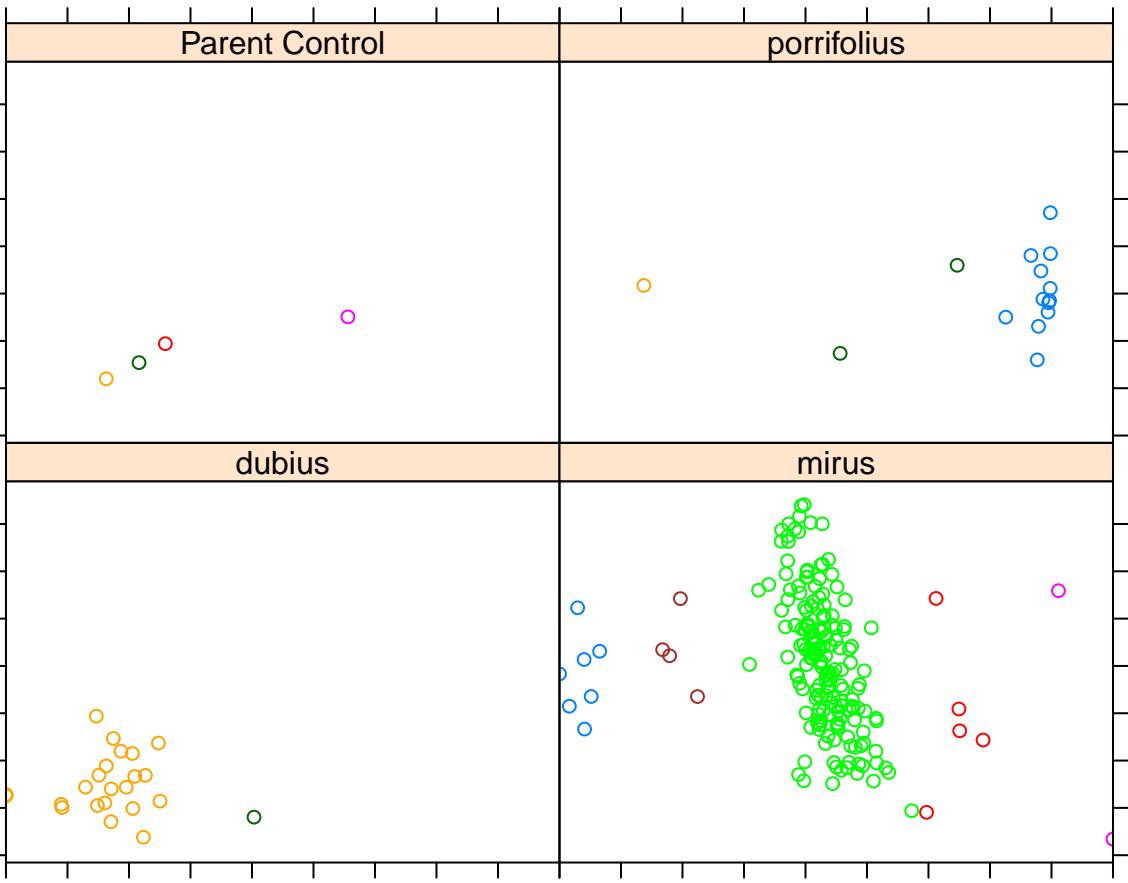
80
70
60
50
40
30
20

dubius

mirus

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig10911_151 cDNA

Call

Bad_Spectrum	LLLH	LLHH
HH	LLLL	HHHH
HHHH	No_Aleles	HH
LH	PM1	LH
LHHH	PM2_1_1	LHHH
LL	PM2_1_2	LL
LLHH	PM2_2_1	LLHH

10 20 30 40 50 60 70 80

Parent Control

porrifolius

55
50
45
40
35
30
25
20
15
10
5
0

dubius

mirus

radius (arb)

theta (deg)

10 20 30 40 50 60 70 80

V_2_5_isotig10915_704 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

50
45
40
35
30
25
20
15
10
5
0

dubius

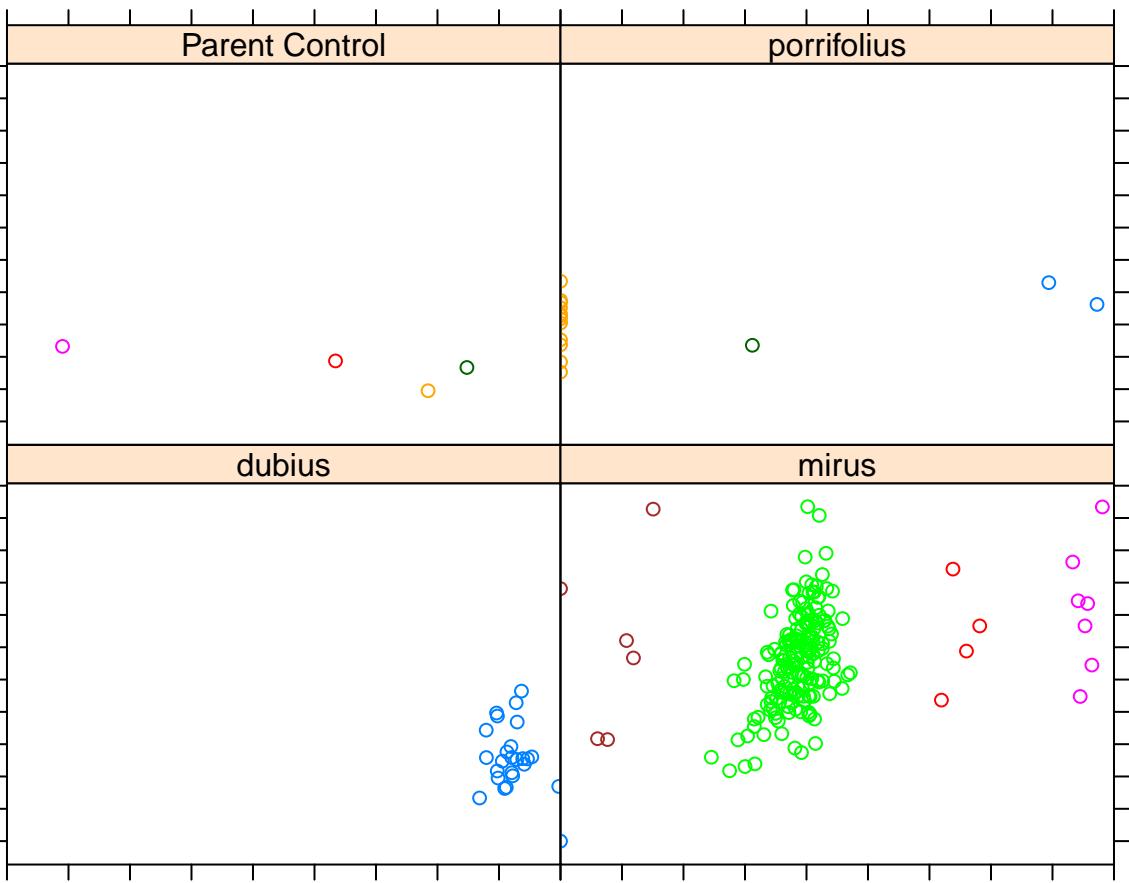
mirus

radius (arb)

50
45
40
35
30
25
20
15
10
5
0

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig10915_704 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

radius (arb)

70
60
50
40
30
20
10
0

dubius

mirus

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig10915_919 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

70
60
50
40
30
20
10
0

dubius

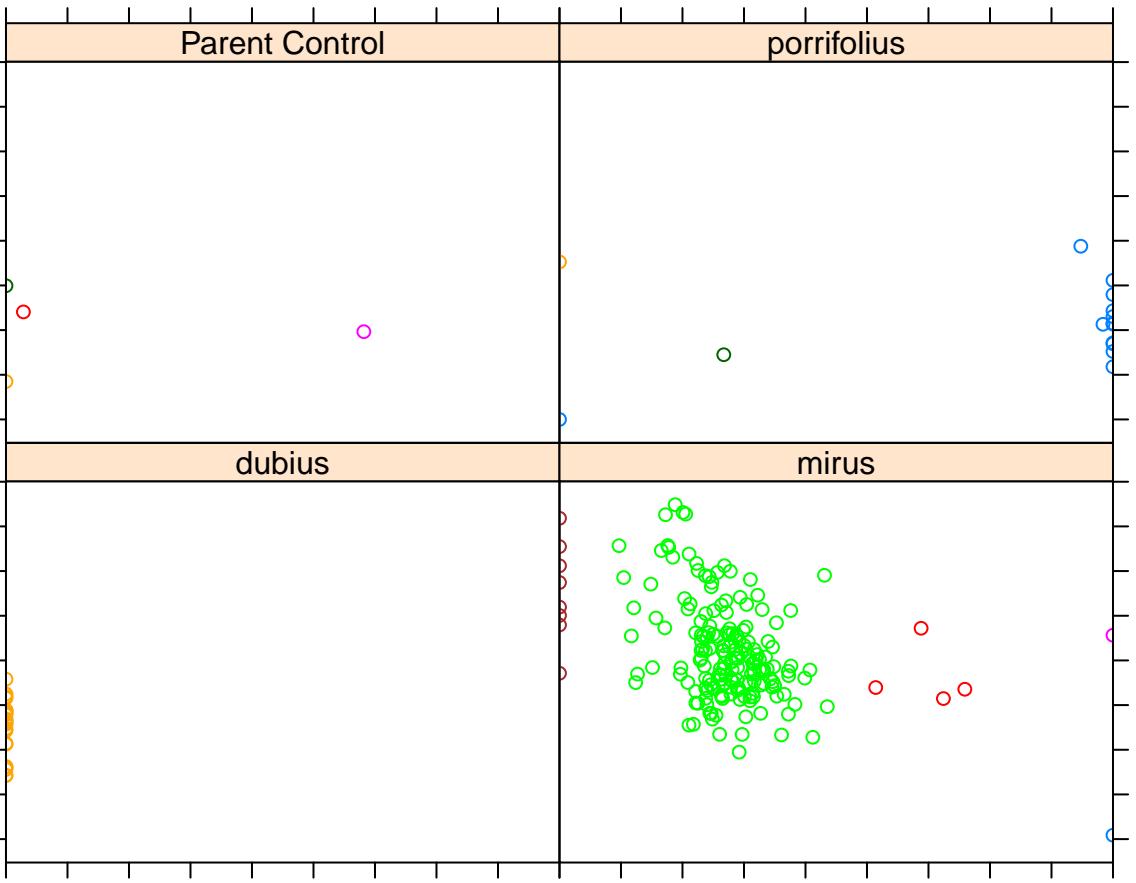
mirus

radius (arb)

70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

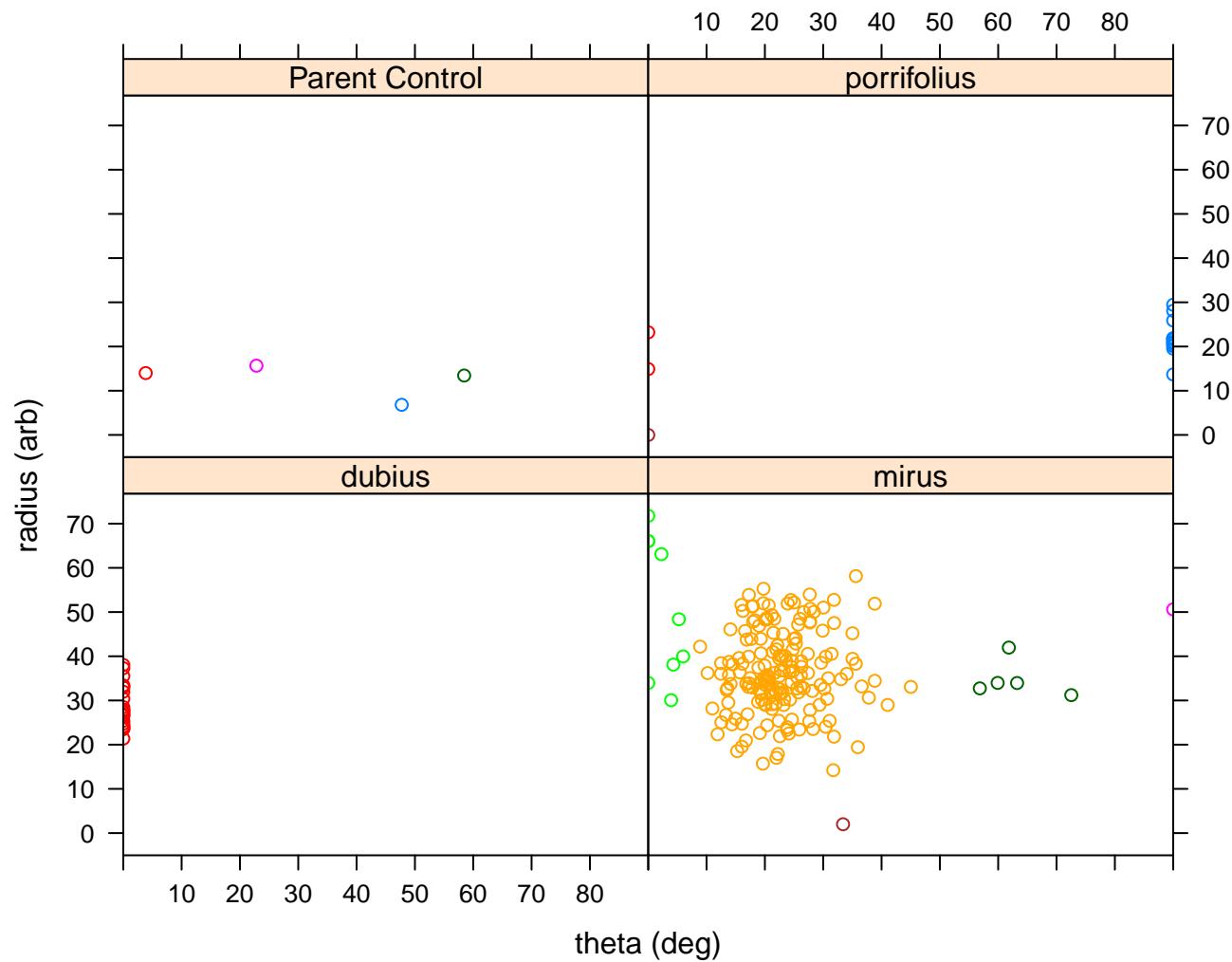
theta (deg)



V_2_5_isotig10915_919 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLL	○		



V_2_5_isotig10928_829 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

radius (arb)

100
90
80
70
60
50
40
30
20
10
0

dubius

miscellus

100
90
80
70
60
50
40
30
20
10
0

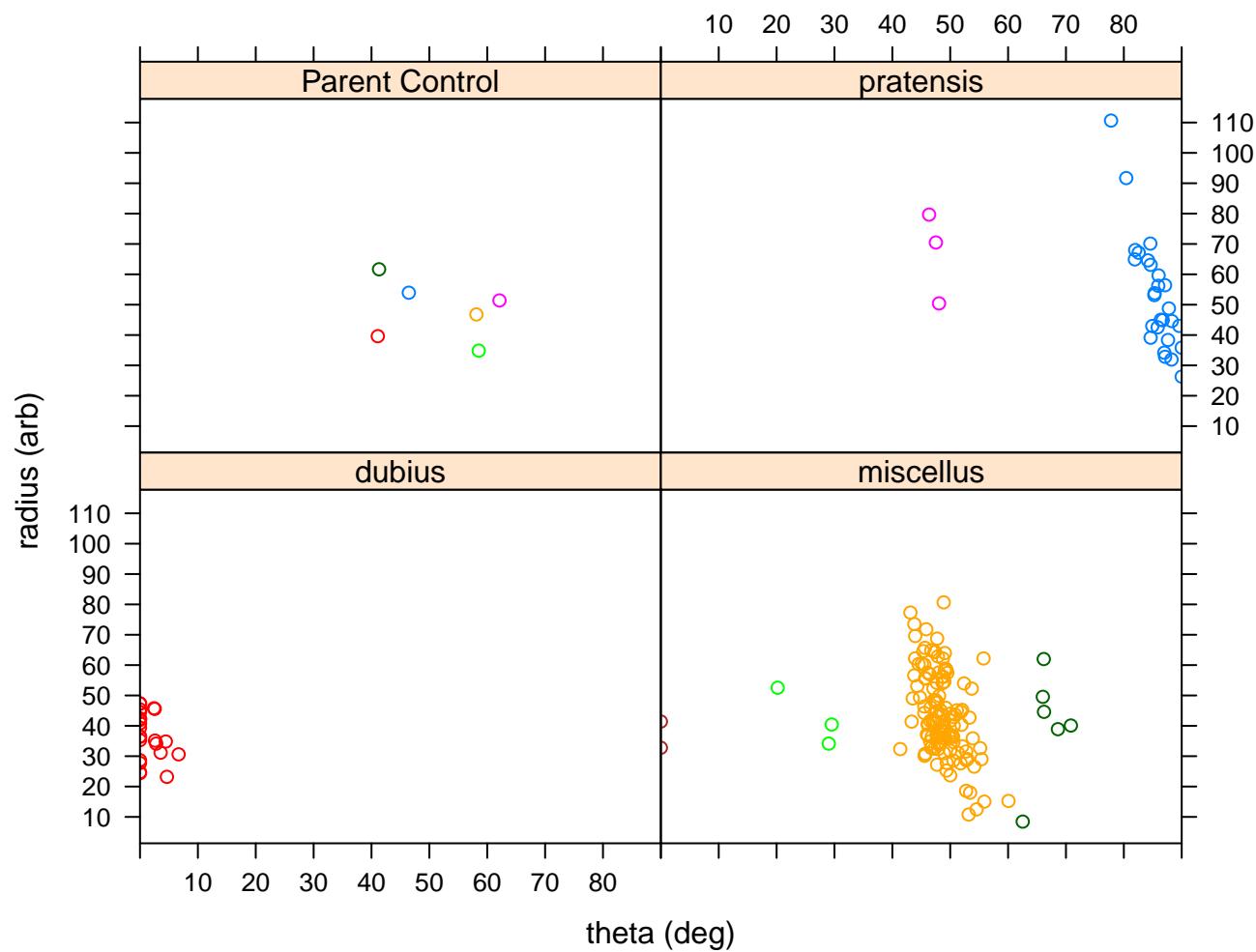
10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig10935_360 gDNA

Call

HH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		



V_2_5_isotig10935_360 cDNA

Call

HH	○	No_Aleles	○
LH	○	PM3_1_1	○
LHHH	○	PM3_1_2	○
LL	○	PM3_2_1	○
LLHH	○	PM4	○
LLLH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

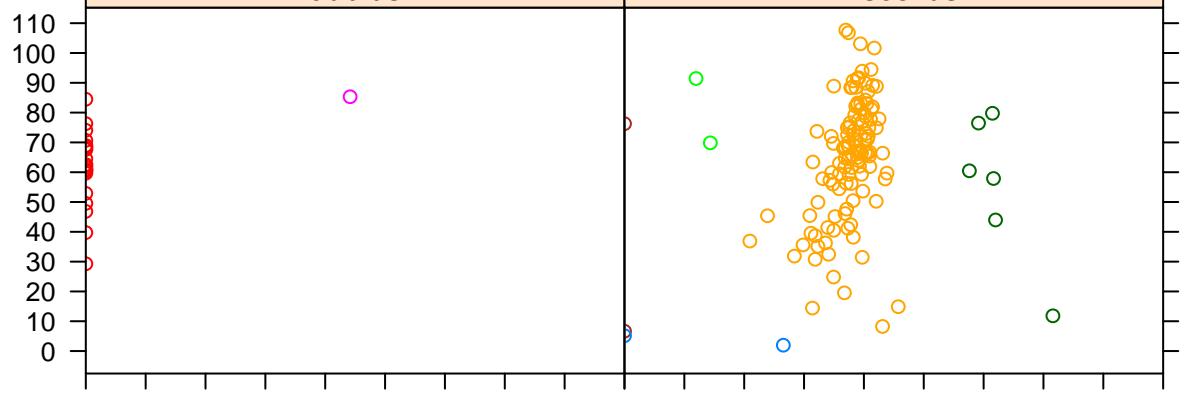
pratensis

110
100
90
80
70
60
50
40
30
20
10
0

radius (arb)

dubius

miscellus



theta (deg)

V_2_5_isotig10963_229 gDNA

Call

Bad_Spectrum	○	No_Aleles	○
HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

70
60
50
40
30
20
10
0

dubius

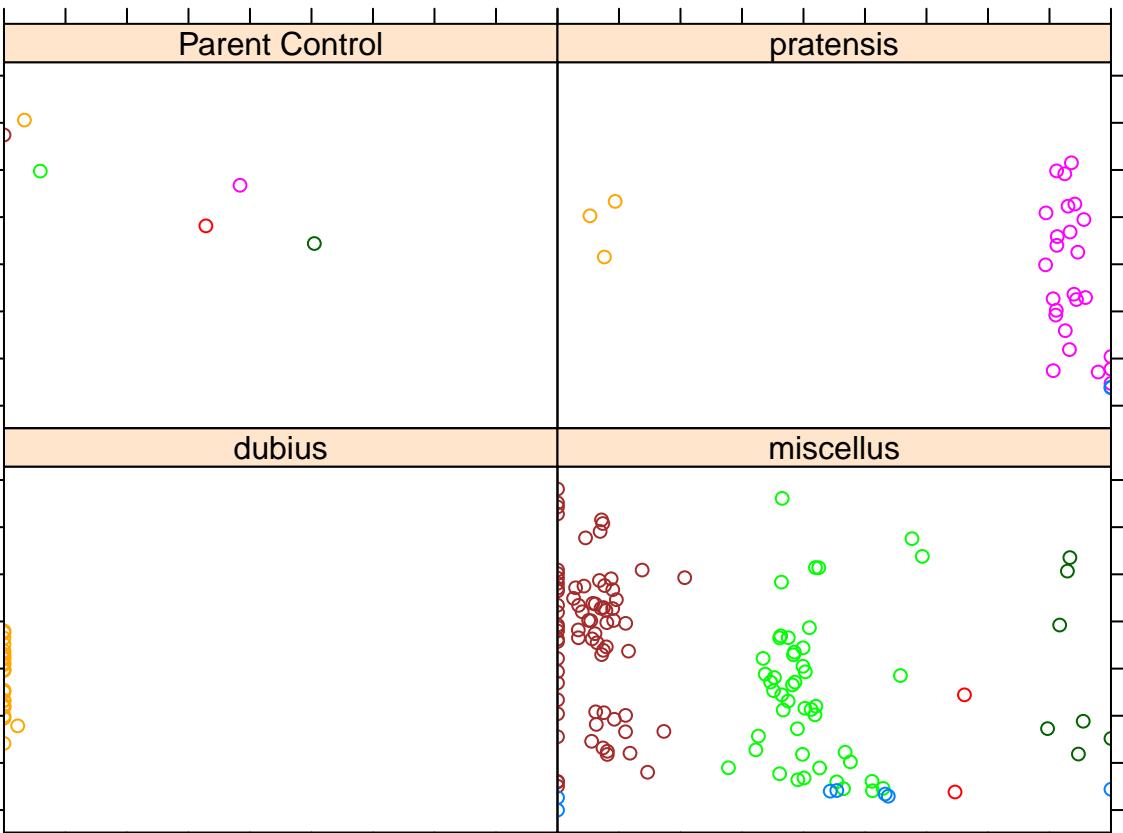
miscellus

radius (arb)

70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig10963_229 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

80
70
60
50
40
30
20
10
0

radius (arb)

dubius

miscellus

80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)

70
60
50
40
30
20
10
0

V_2_5_isotig11004_223 gDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

80
70
60
50
40
30
20
10

dubius

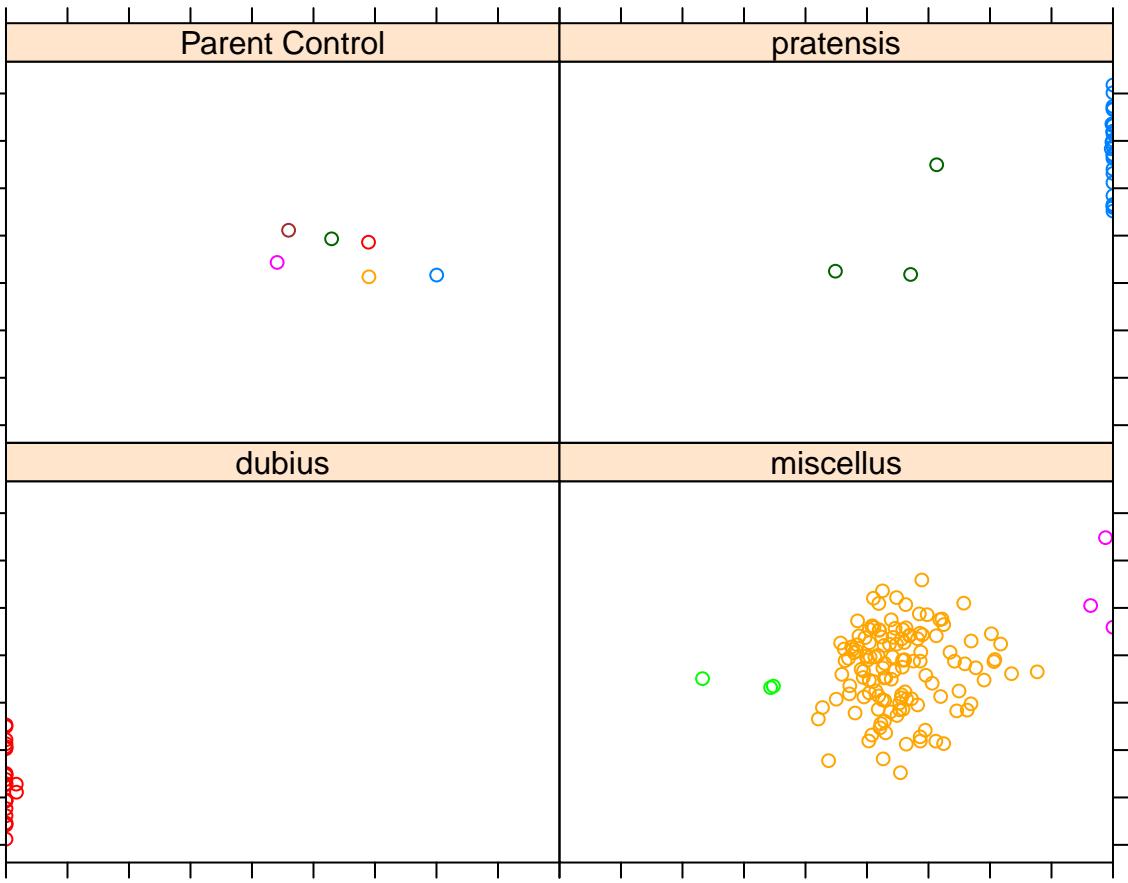
miscellus

80
70
60
50
40
30
20
10

10 20 30 40 50 60 70 80

theta (deg)

radius (arb)



V_2_5_isotig11004_223 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

65
60
55
50
45
40
35
30
25
20
15
10
5

dubius

miscellus

radius (arb)

65
60
55
50
45
40
35
30
25
20
15
10
5

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig11004_365 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

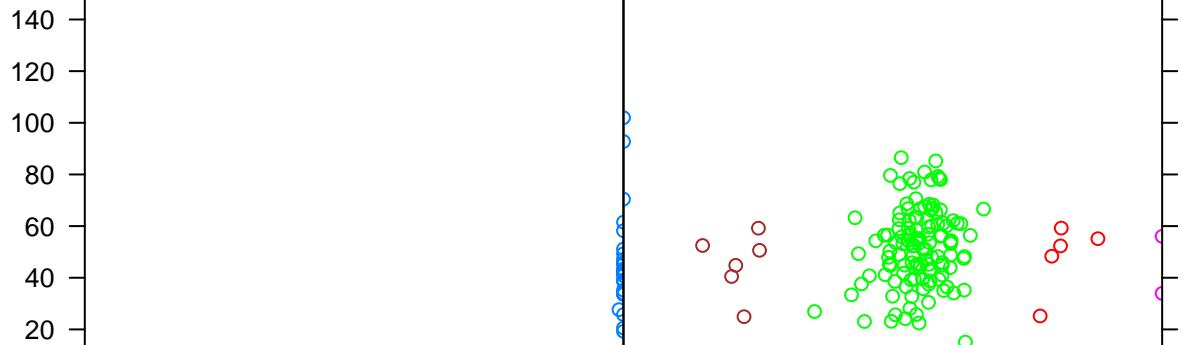
Parent Control

pratensis

140
120
100
80
60
40
20

dubius

miscellus



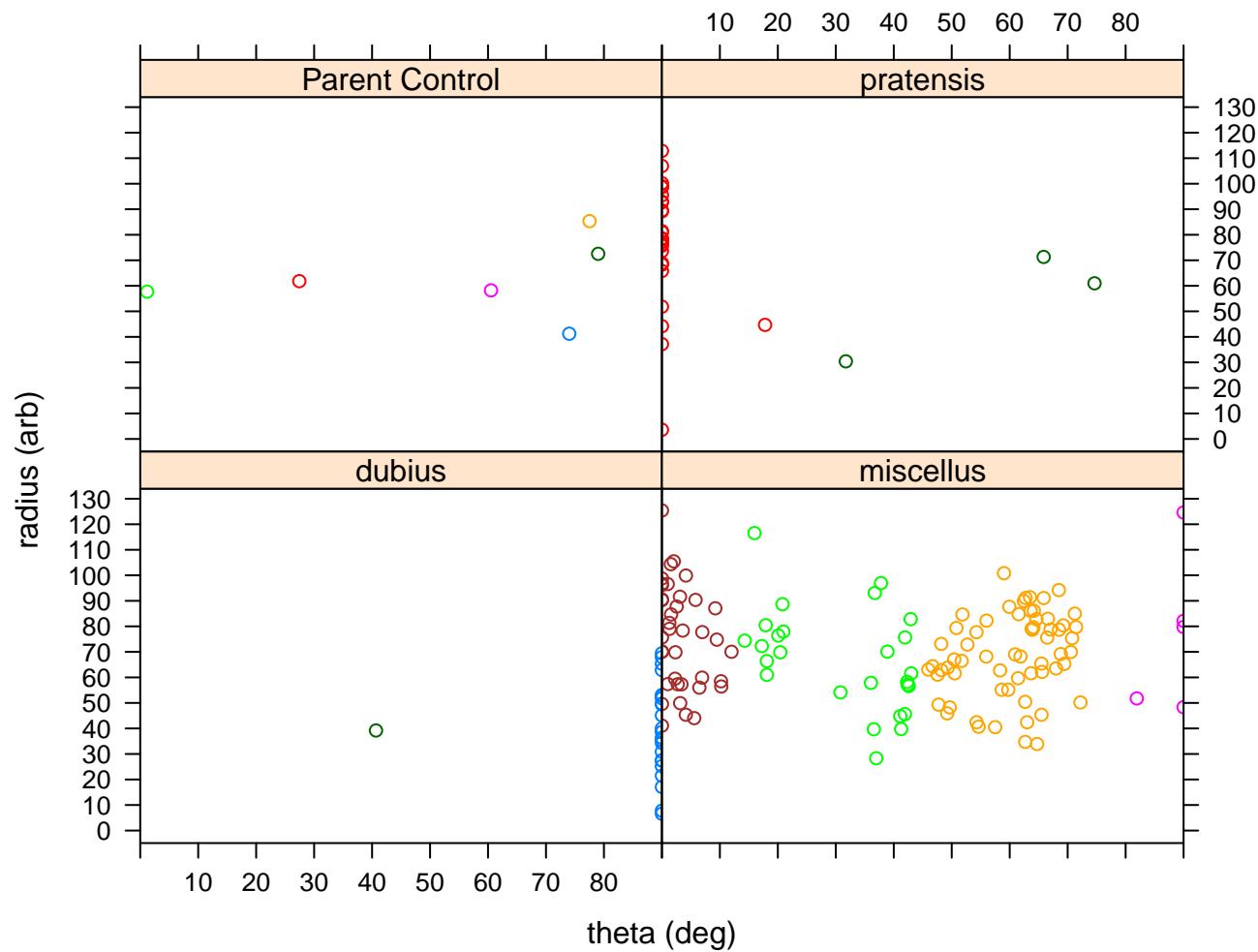
10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig11004_365 cDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		



V_2_5_isotig11032_433 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

100
90
80
70
60
50
40
30
20
10
0

dubius

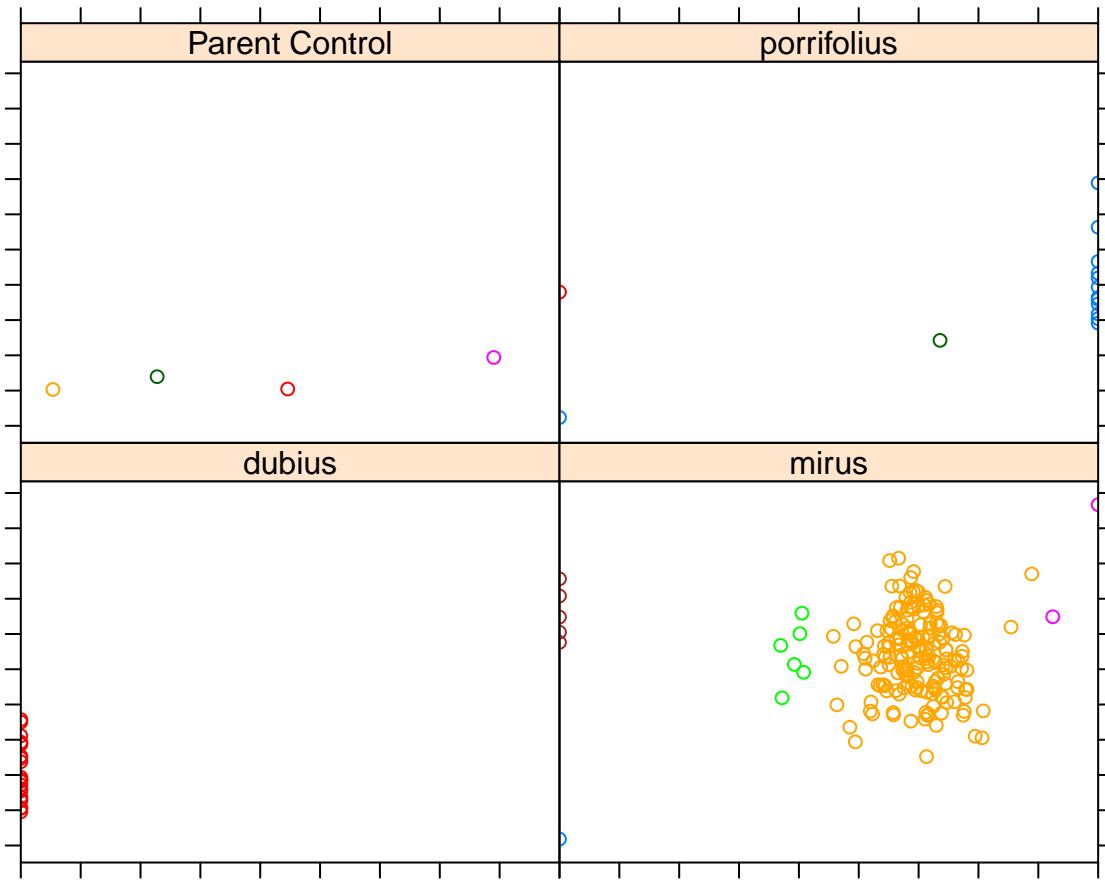
mirus

100
90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)

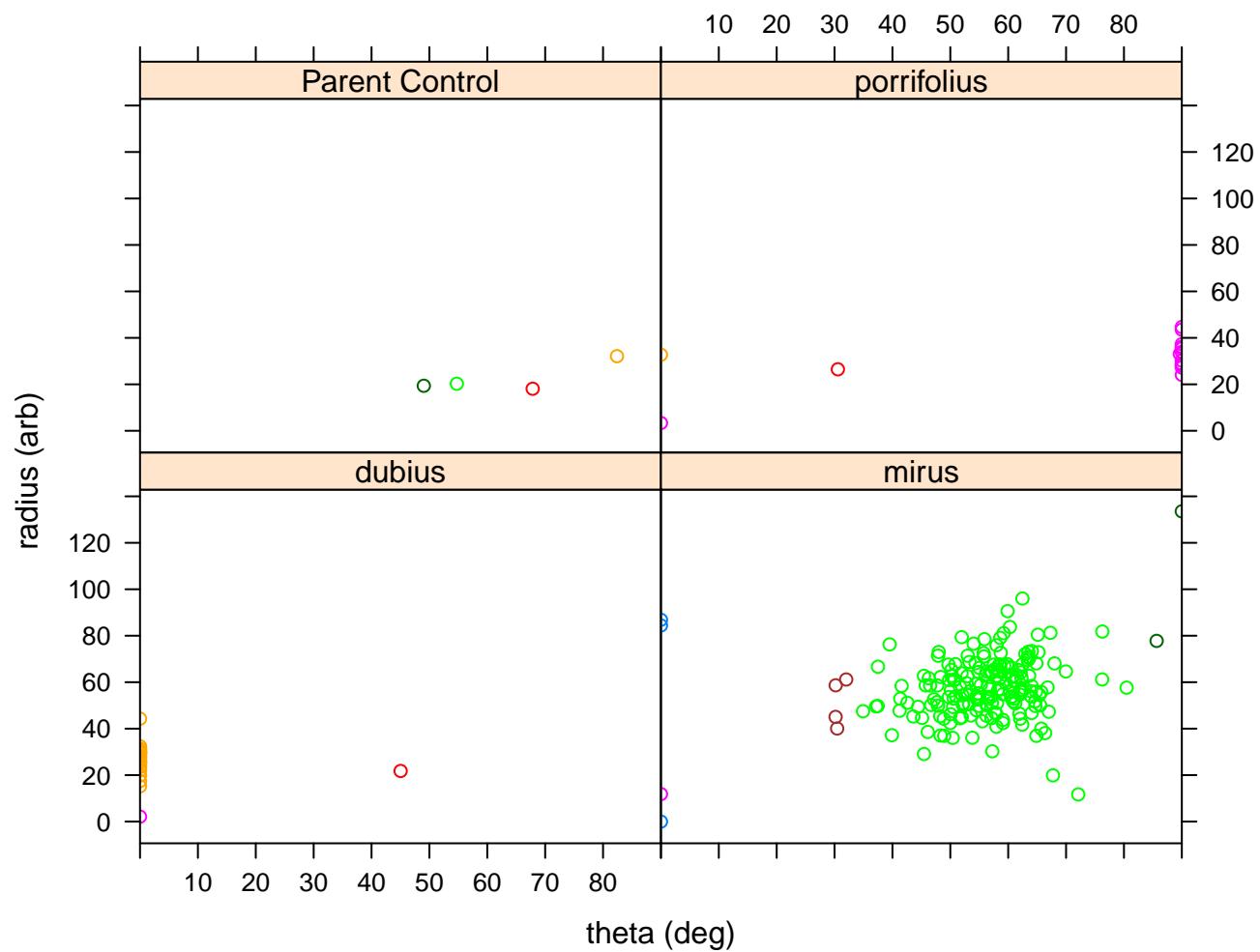
radius (arb)



V_2_5_isotig11032_433 cDNA

Call

Bad_Spectrum	○	LLLL	○
HH	○	No_Alleles	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig11094_460 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LHHH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

70
60
50
40
30
20
10
0

dubius

mirus

radius (arb)

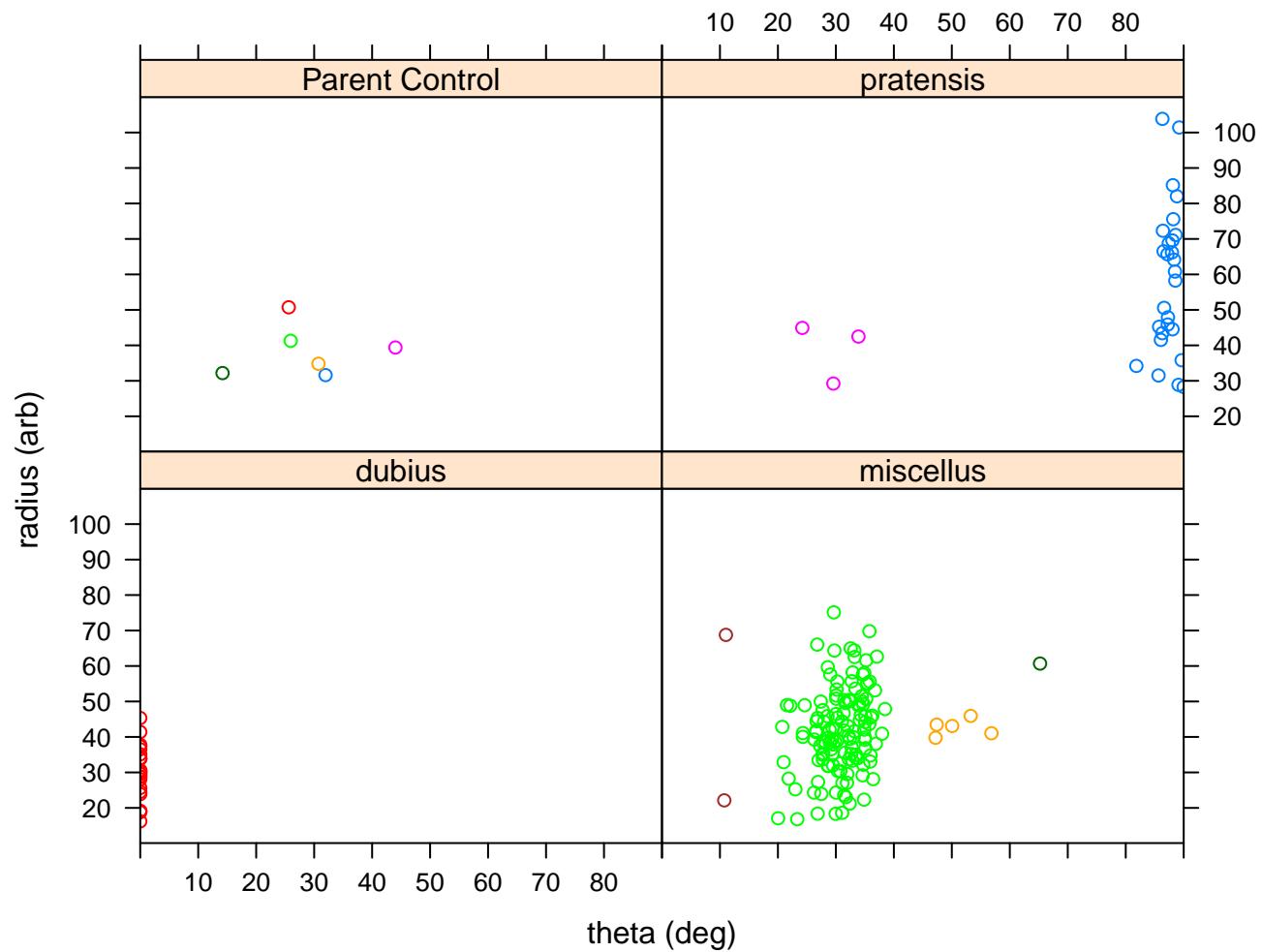
10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig11131_805 gDNA

Call

HH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		



V_2_5_isotig11131_805 cDNA

Call

HH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

110
100
90
80
70
60
50
40
30
20
10

radius (arb)

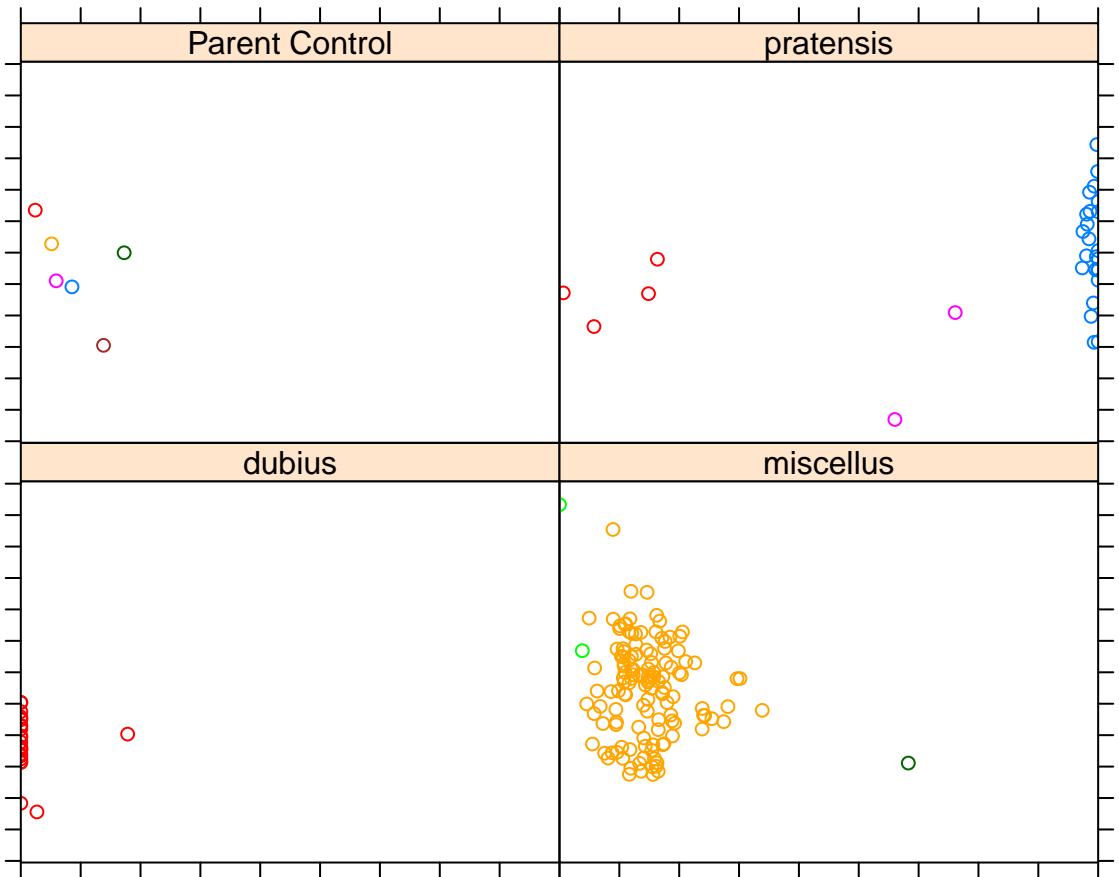
dubius

miscellus

110
100
90
80
70
60
50
40
30
20
10

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig11155_189 gDNA

Call

HH	○	LLLH	○
HHHH	○	LLLL	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

140
120
100
80
60
40
20

dubius

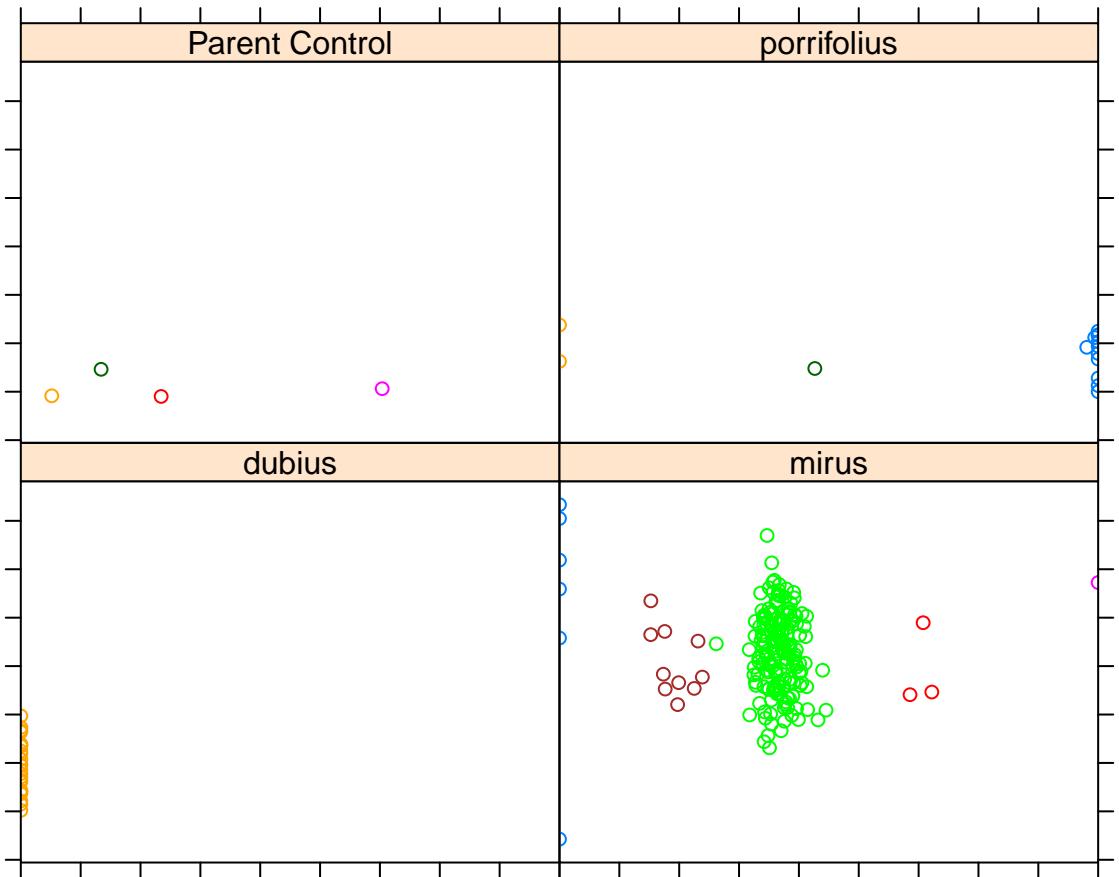
mirus

140
120
100
80
60
40
20

10 20 30 40 50 60 70 80

theta (deg)

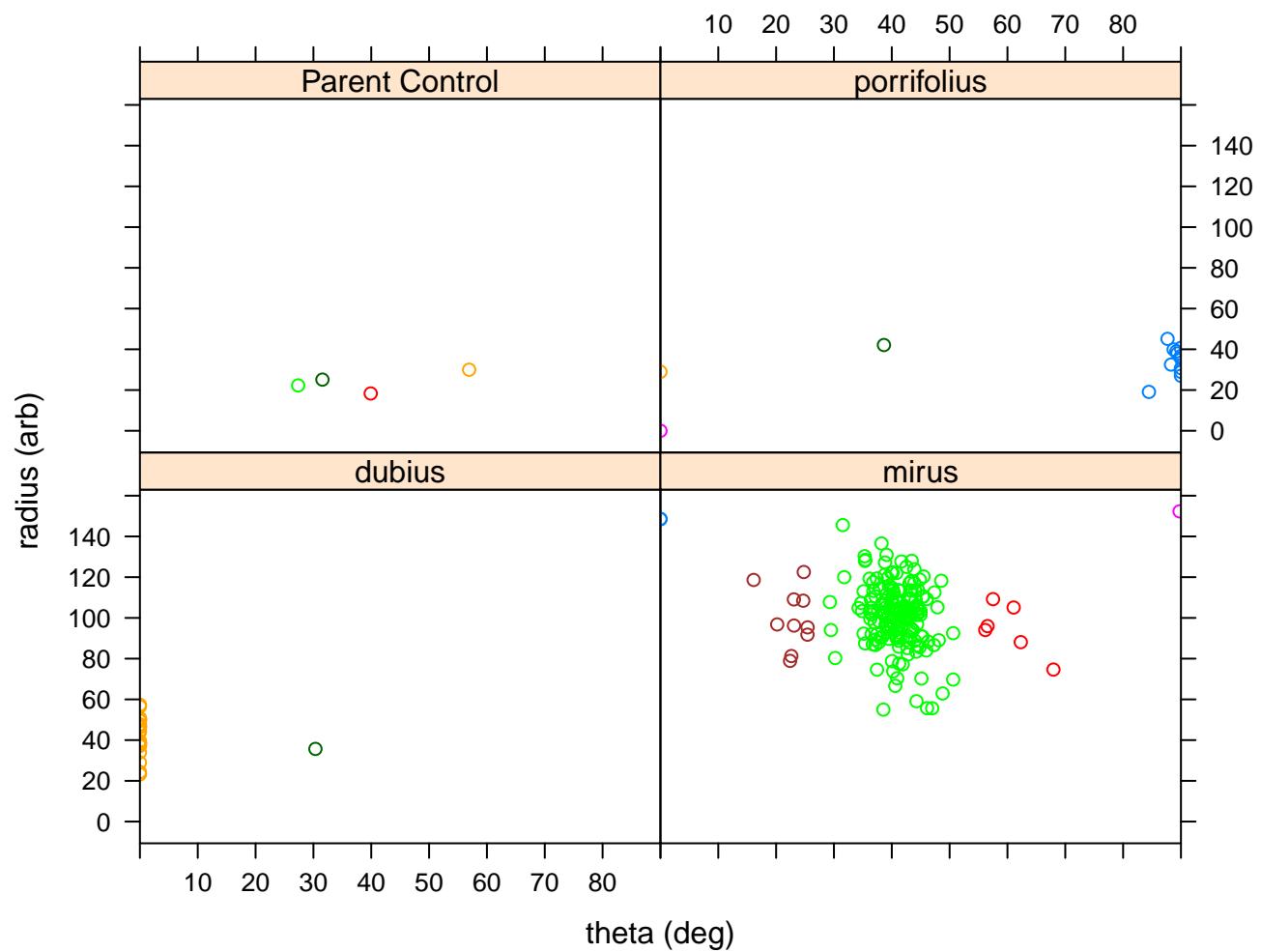
radius (arb)



V_2_5_isotig11155_189 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig11203_824 cDNA

Call

Bad_Spectrum	○	LLLL	○
HH	○	No_Alleles	○
HHHH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		

10 20 30 40 50 60 70 80

Parent Control

porrifolius

110
100
90
80
70
60
50
40
30
20
10
0

dubius

mirus

110
100
90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)

radius (arb)

V_2_5_isotig11291_849 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LHHH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

80
70
60
50
40
30
20
10
0

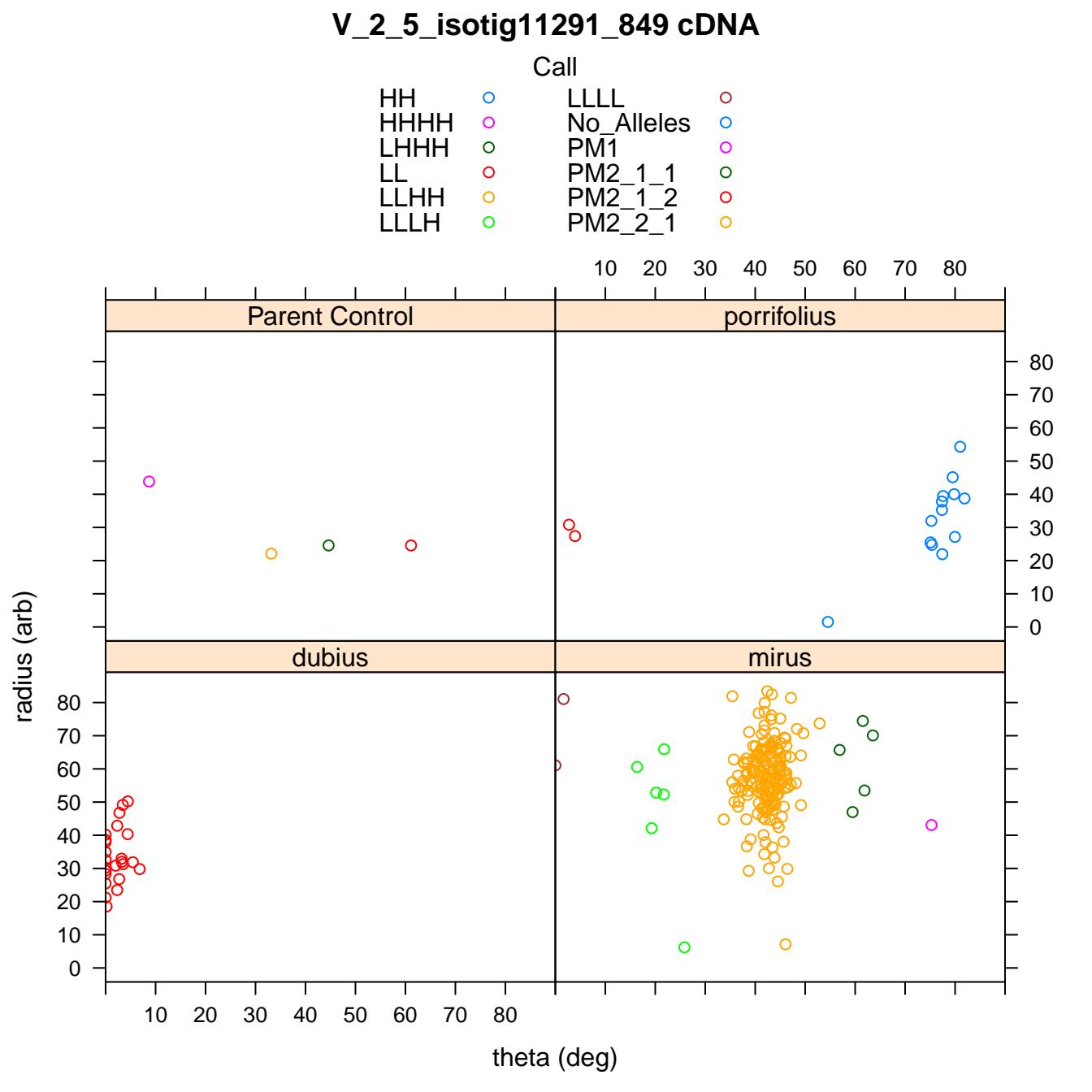
dubius

mirus

radius (arb)

10 20 30 40 50 60 70 80

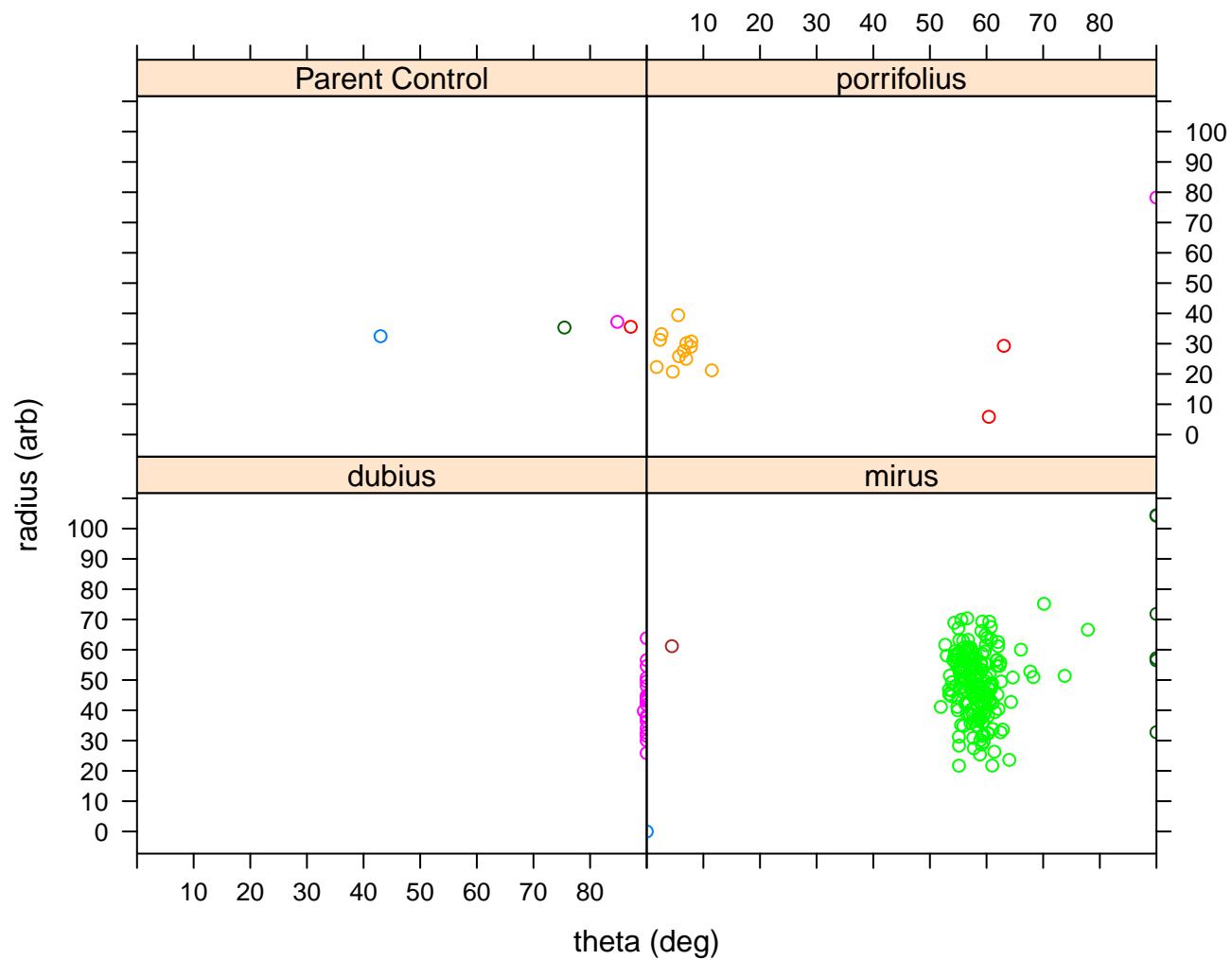
theta (deg)



V_2_5_isotig11295_56 gDNA

Call

Bad_Spectrum	LLLL	○
HH	PM1	○
HHHH	PM2_1_1	○
LH	PM2_1_2	○
LL	PM2_2_1	○
LLHH		○



V_2_5_isotig11295_56 cDNA

Call

HH	○	LLLH	○
HHHH	○	LLLL	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

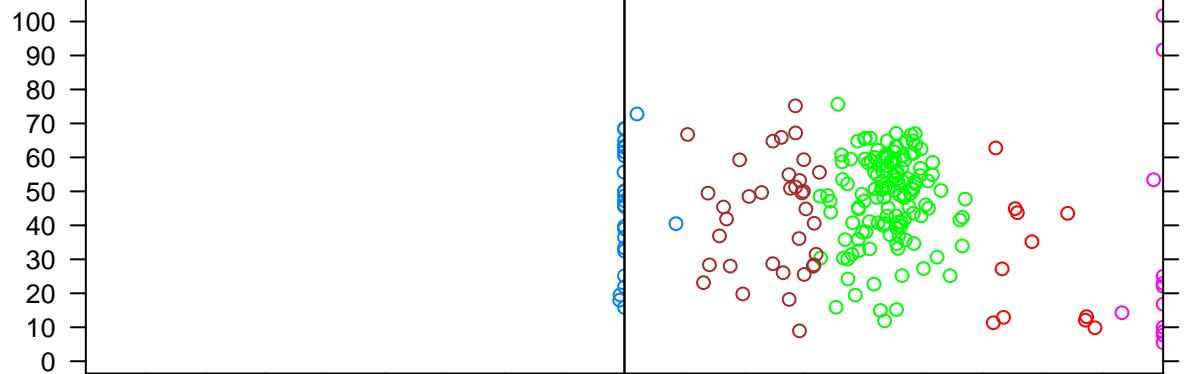
Parent Control

porrifolius

100
90
80
70
60
50
40
30
20
10
0

dubius

mirus

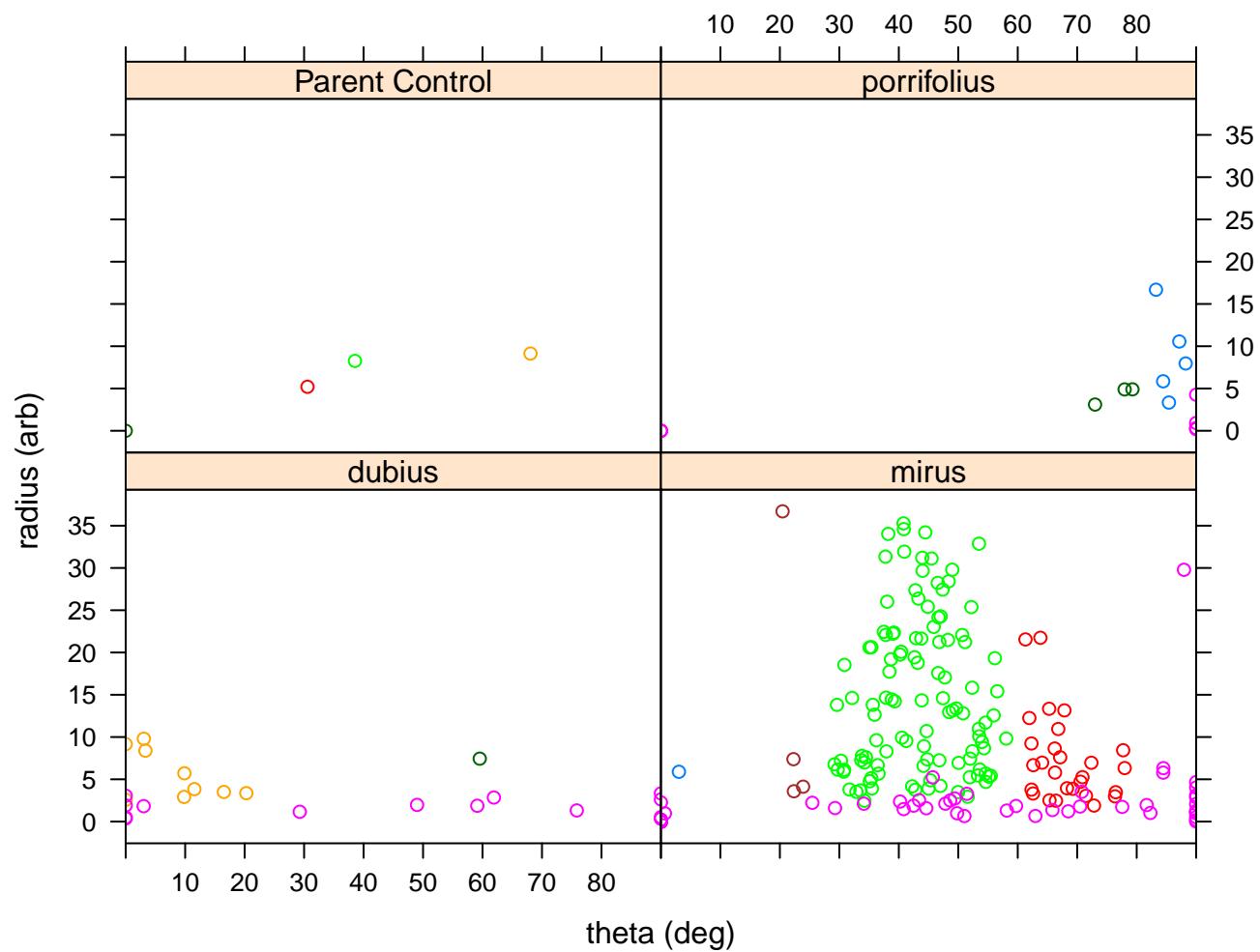


theta (deg)

V_2_5_isotig11370_443 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig11370_632 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

100
90
80
70
60
50
40
30
20
10
0

dubius

mirus

100
90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)

radius (arb)

V_2_5_isotig11370_632 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

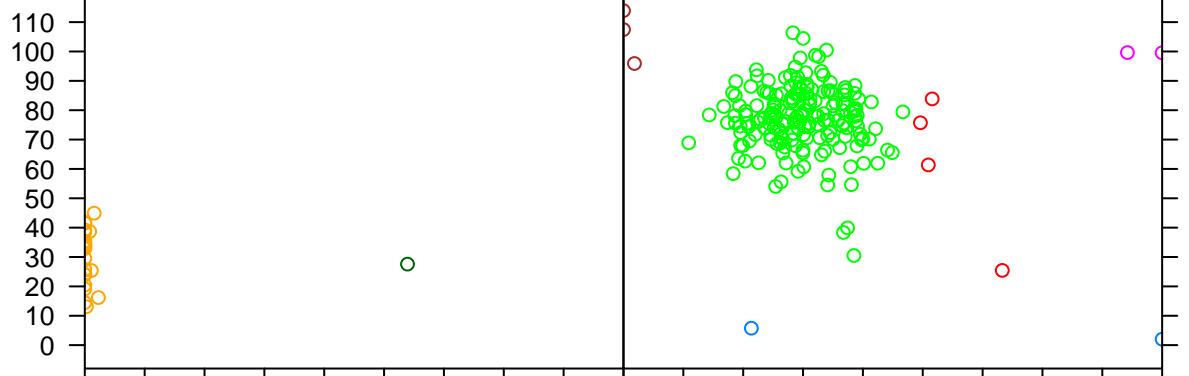
Parent Control

porrifolius

110
100
90
80
70
60
50
40
30
20
10
0

dubius

mirus



theta (deg)

V_2_5_isotig11504_482 gDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLLL	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

radius (arb)

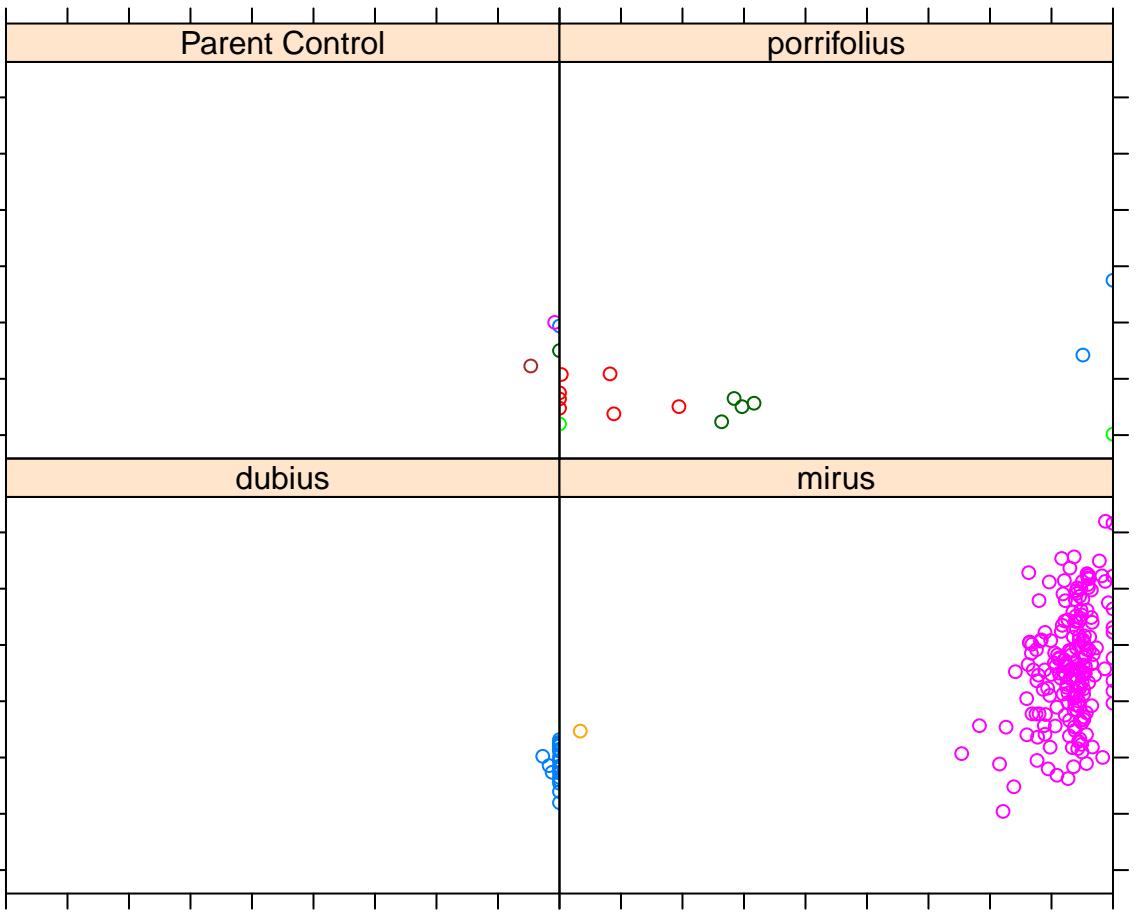
dubius

mirus

60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

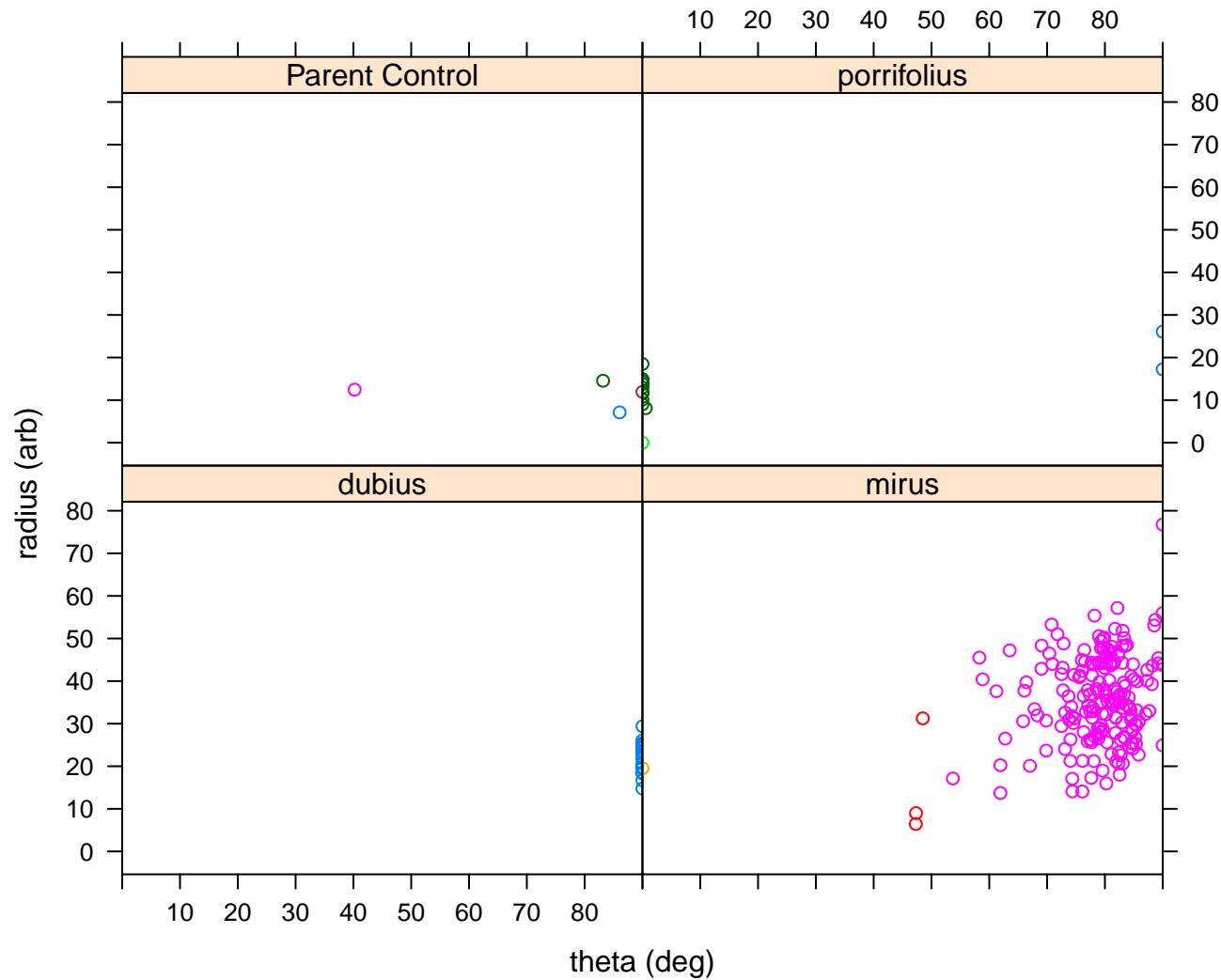
theta (deg)



V_2_5_isotig11504_482 cDNA

Call

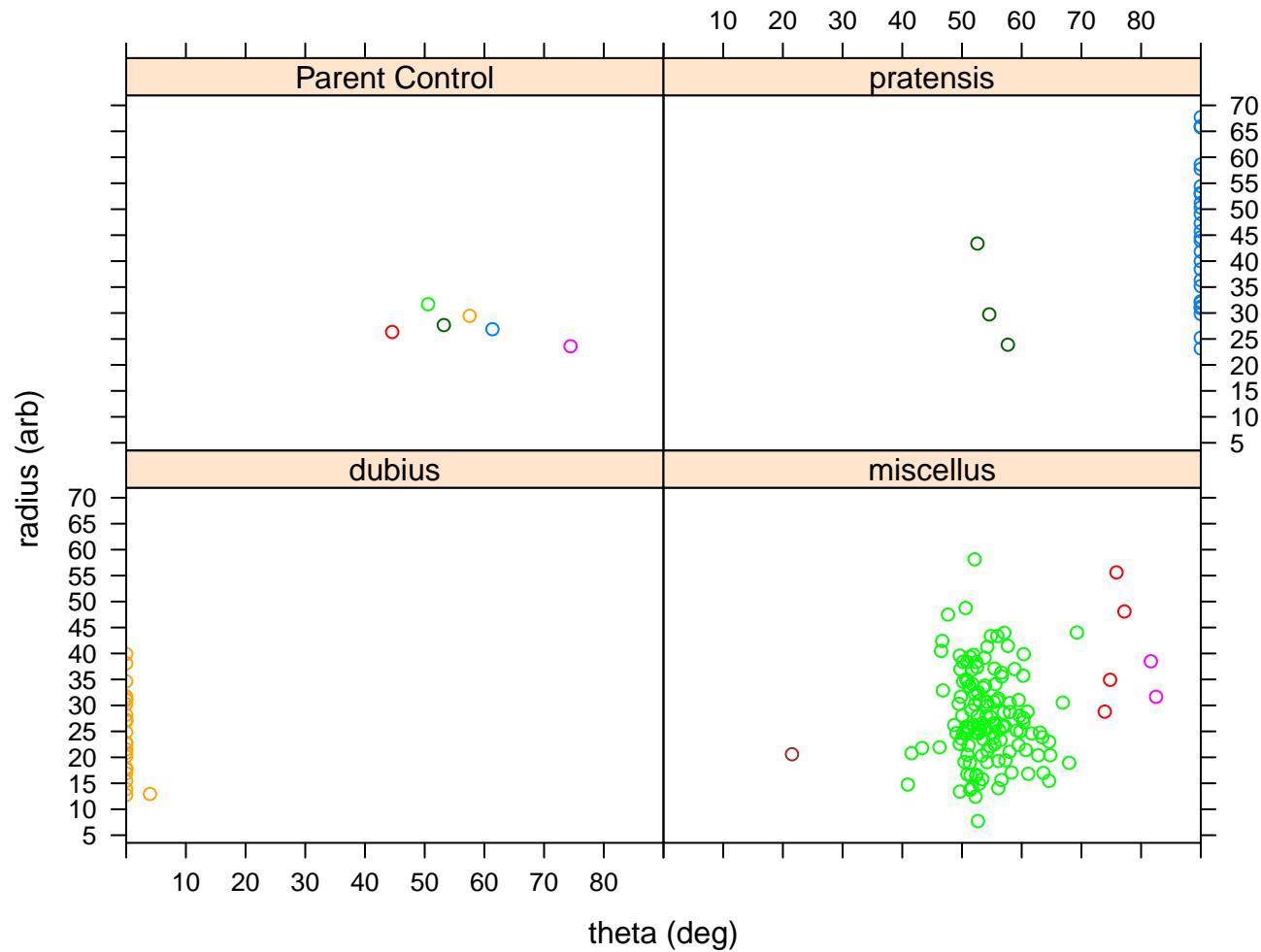
HH	○	No_Aleles	○
HHHH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLL	○	PM2_2_1	○



V_2_5_isotig11556_828 gDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LHHH	○	PM4	○
LL	○	PM5	○
LLHH	○	PM6	○
LLLH	○		



V_2_5_isotig11556_828 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

radius (arb)

80
70
60
50
40
30
20
10
0

dubius

miscellus

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig11590_290 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		

10 20 30 40 50 60 70 80

Parent Control

porrifolius

90
80
70
60
50
40
30
20
10

dubius

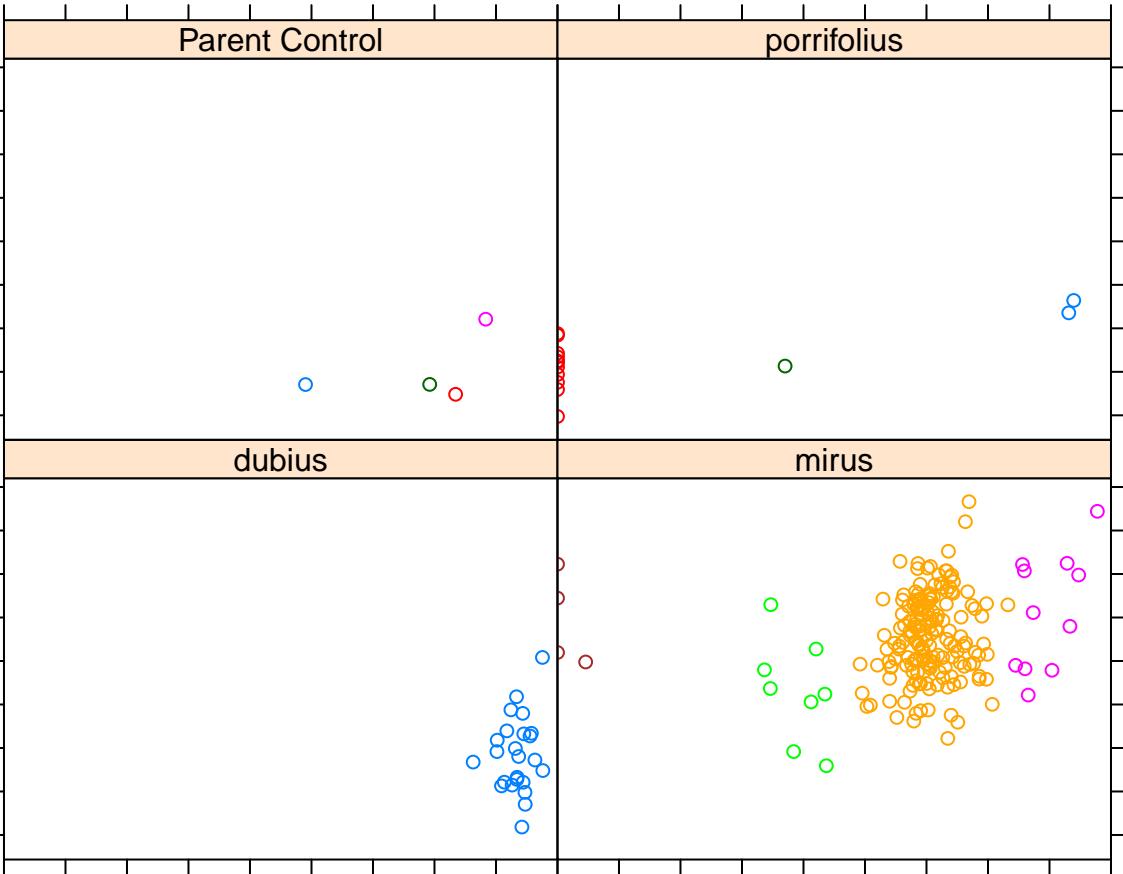
mirus

radius (arb)

90
80
70
60
50
40
30
20
10

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig11590_290 cDNA

Call

HH	○	LLLL	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

radius (arb)

dubius

mirus

90
80
70
60
50
40
30
20
10

10 20 30 40 50 60 70 80

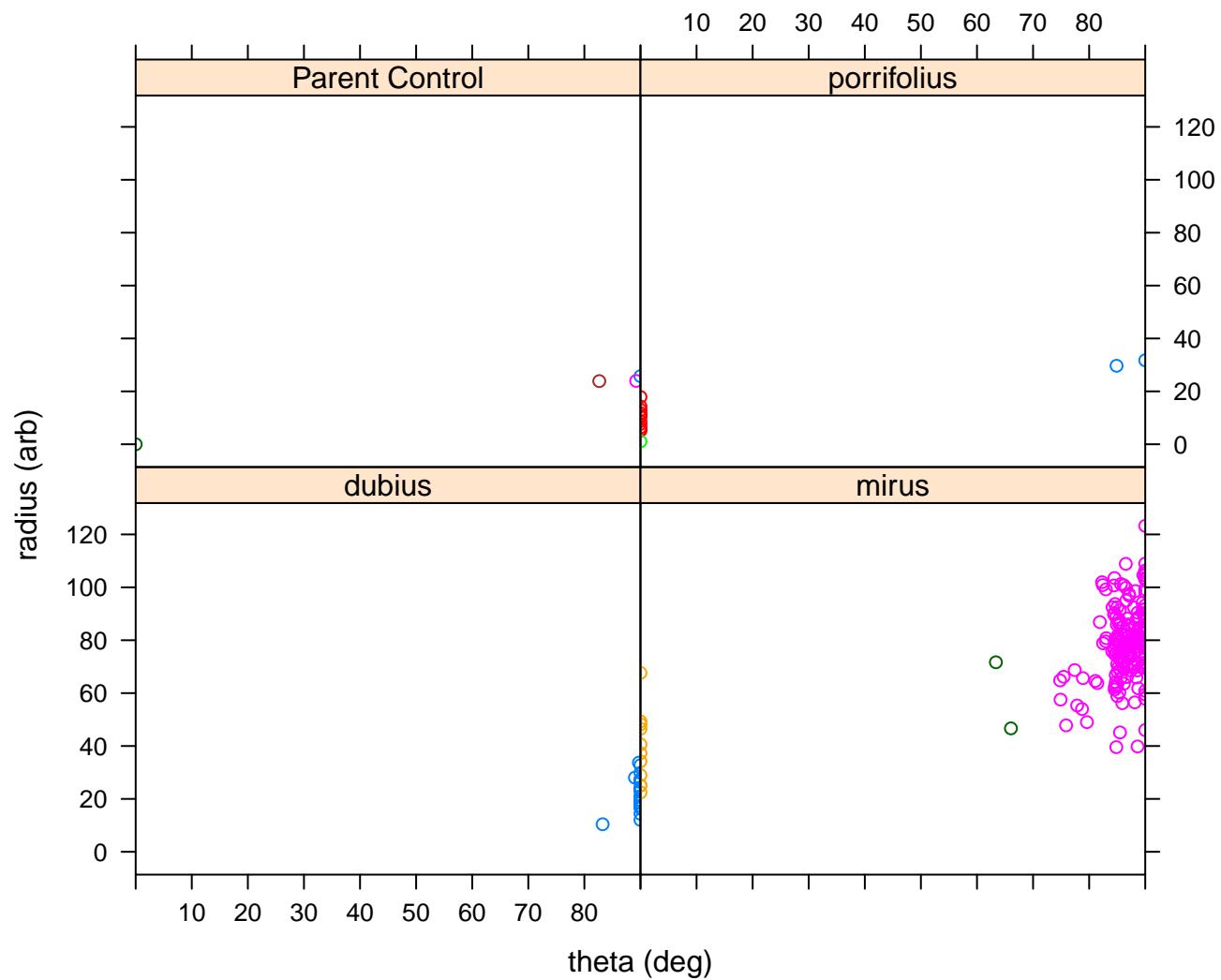
theta (deg)

90
80
70
60
50
40
30
20
10

V_2_5_isotig11598_286 gDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLLL	○	PM2_2_1	○



V_2_5_isotig11598_286 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

160
140
120
100
80
60
40
20
0

dubius

mirus

160
140
120
100
80
60
40
20
0

10 20 30 40 50 60 70 80

theta (deg)

radius (arb)

V_2_5_isotig11602_453 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

120
110
100
90
80
70
60
50
40
30
20

dubius

miscellus

120
110
100
90
80
70
60
50
40
30
20

10 20 30 40 50 60 70 80

theta (deg)

radius (arb)

V_2_5_isotig11602_453 cDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

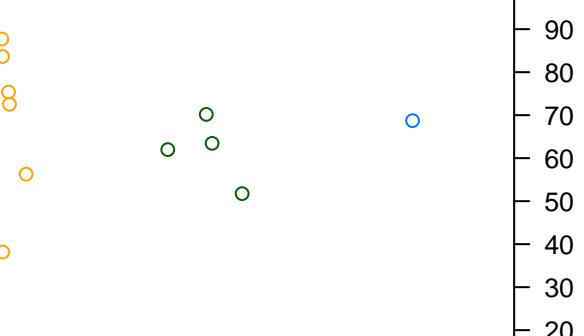
Parent Control

pratensis

radius (arb)

dubius

miscellus



10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig11659_243 gDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLL	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

110
100
90
80
70
60
50
40
30
20
10
0

dubius

mirus

110
100
90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)

radius (arb)

V_2_5_isotig11659_243 cDNA

Call

HH	○	No_Aleles	○
LHHH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLL	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

140
120
100
80
60
40
20
0

radius (arb)

dubius

mirus

140
120
100
80
60
40
20
0

10 20 30 40 50 60 70 80

theta (deg)

Call

V_2_5_isotig11659_333 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

porrifolius

45
40
35
30
25
20
15
10
5
0

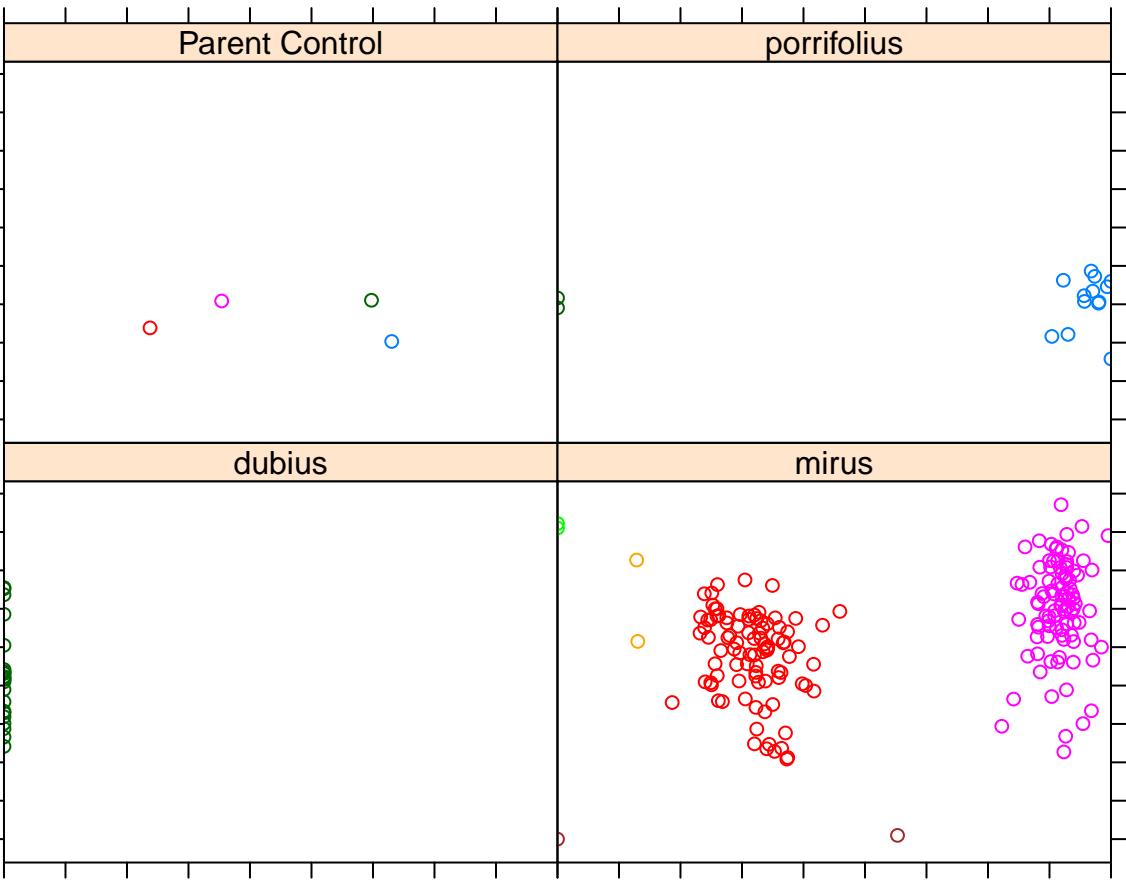
dubius

mirus

radius (arb)

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig11668_555 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

45
40
35
30
25
20
15
10
5
0

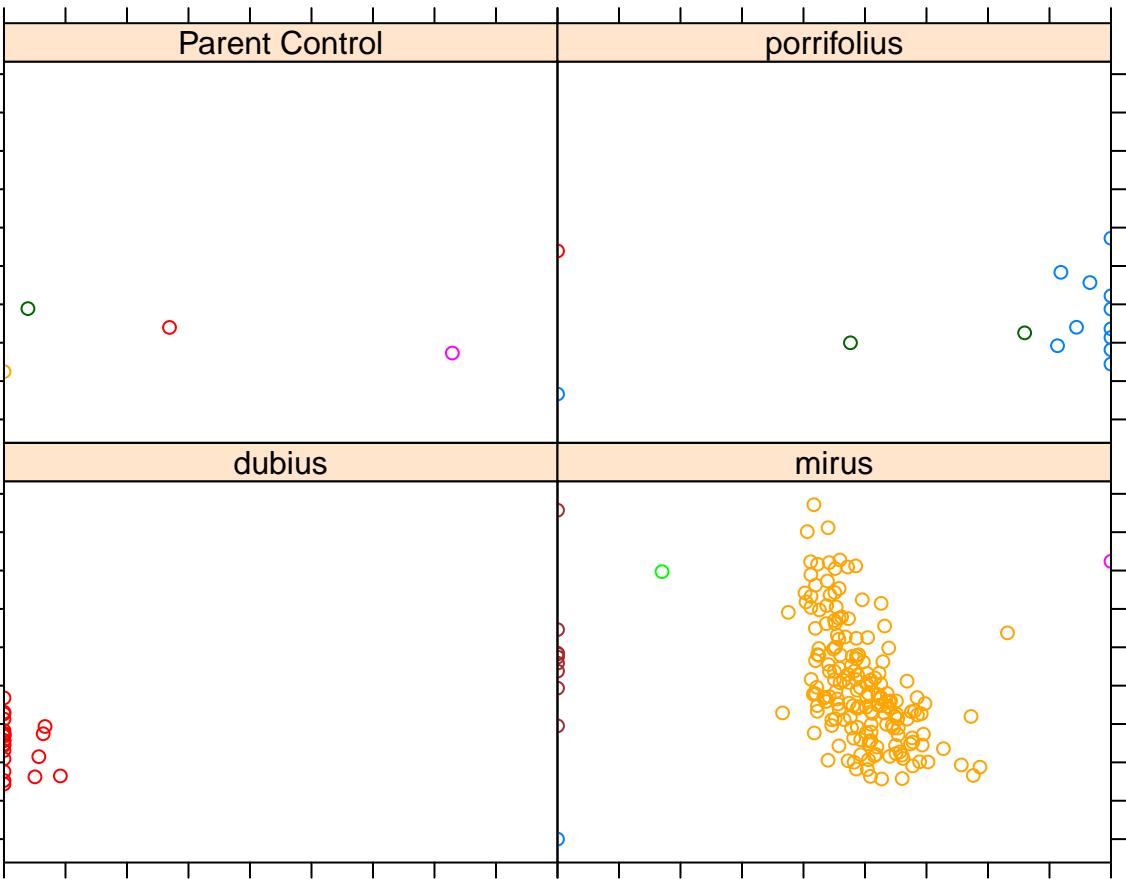
dubius

mirus

radius (arb)

10 20 30 40 50 60 70 80

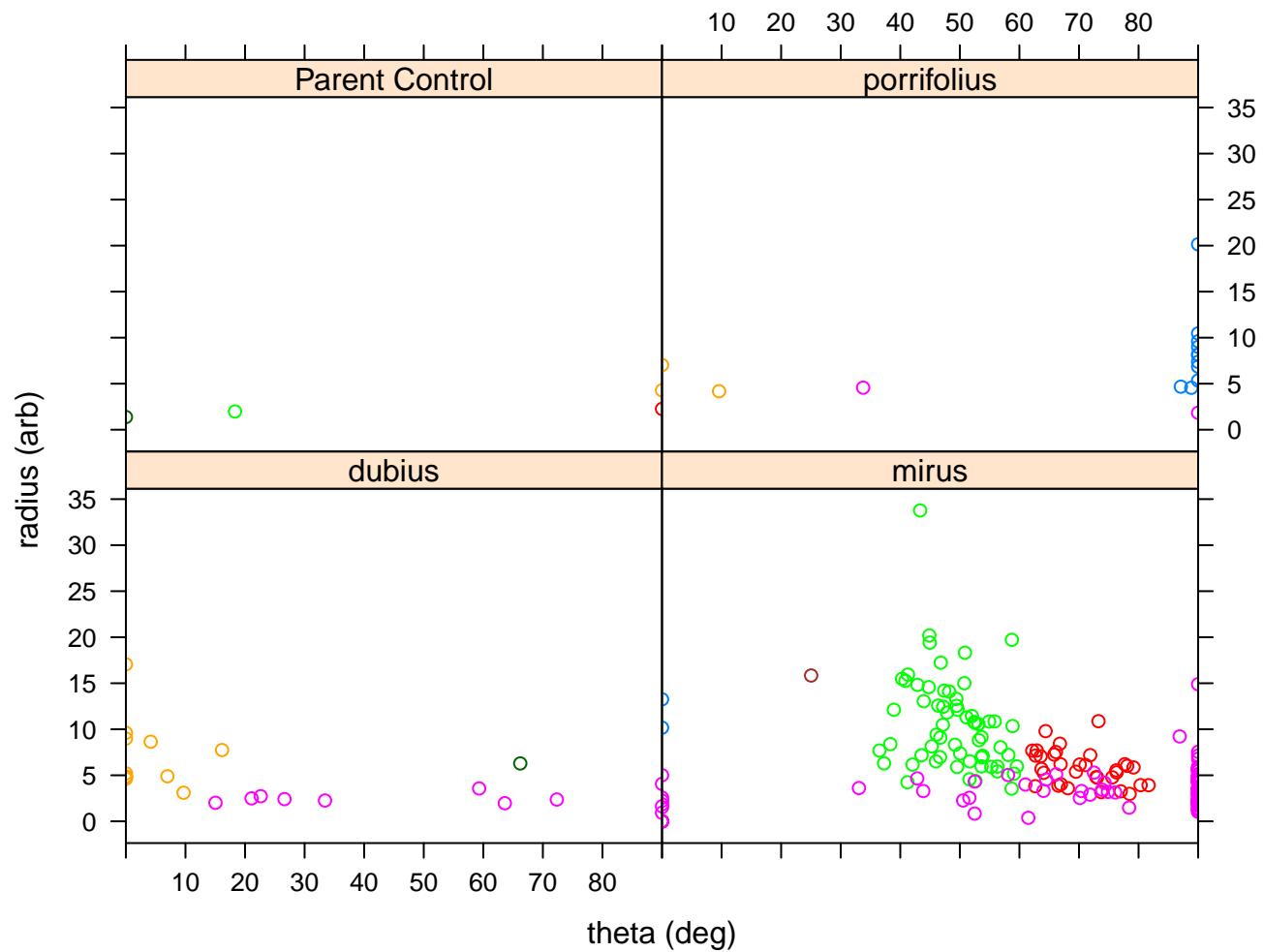
theta (deg)



V_2_5_isotig11668_555 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig11695_247 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

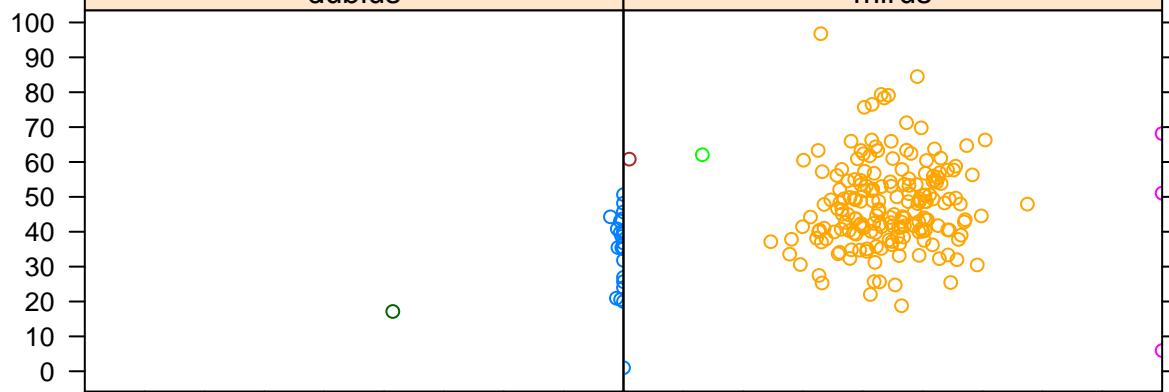
Parent Control

porrifolius

100
90
80
70
60
50
40
30
20
10
0

dubius

mirus

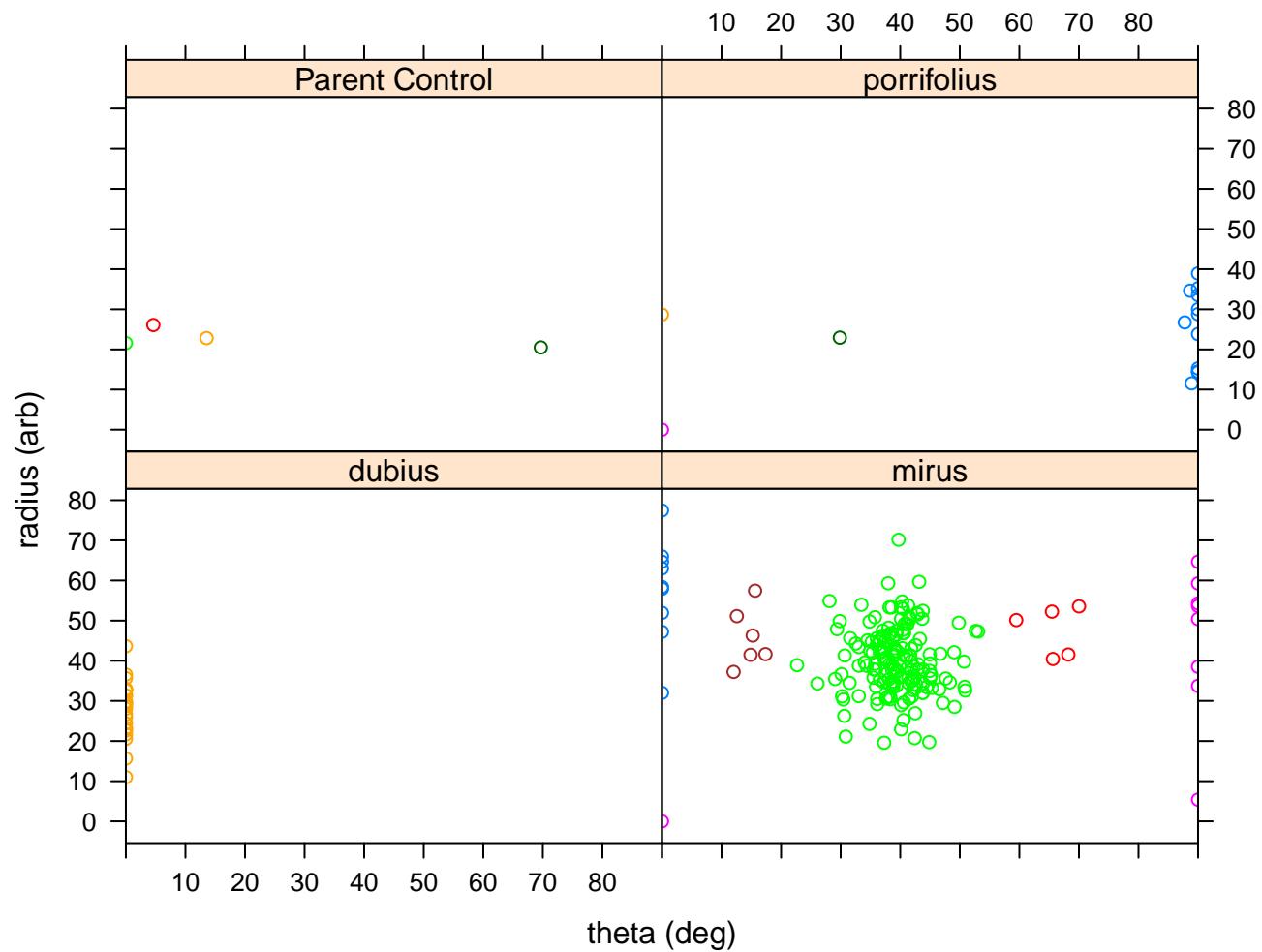


theta (deg)

V_2_5_isotig11727_171 gDNA

Call

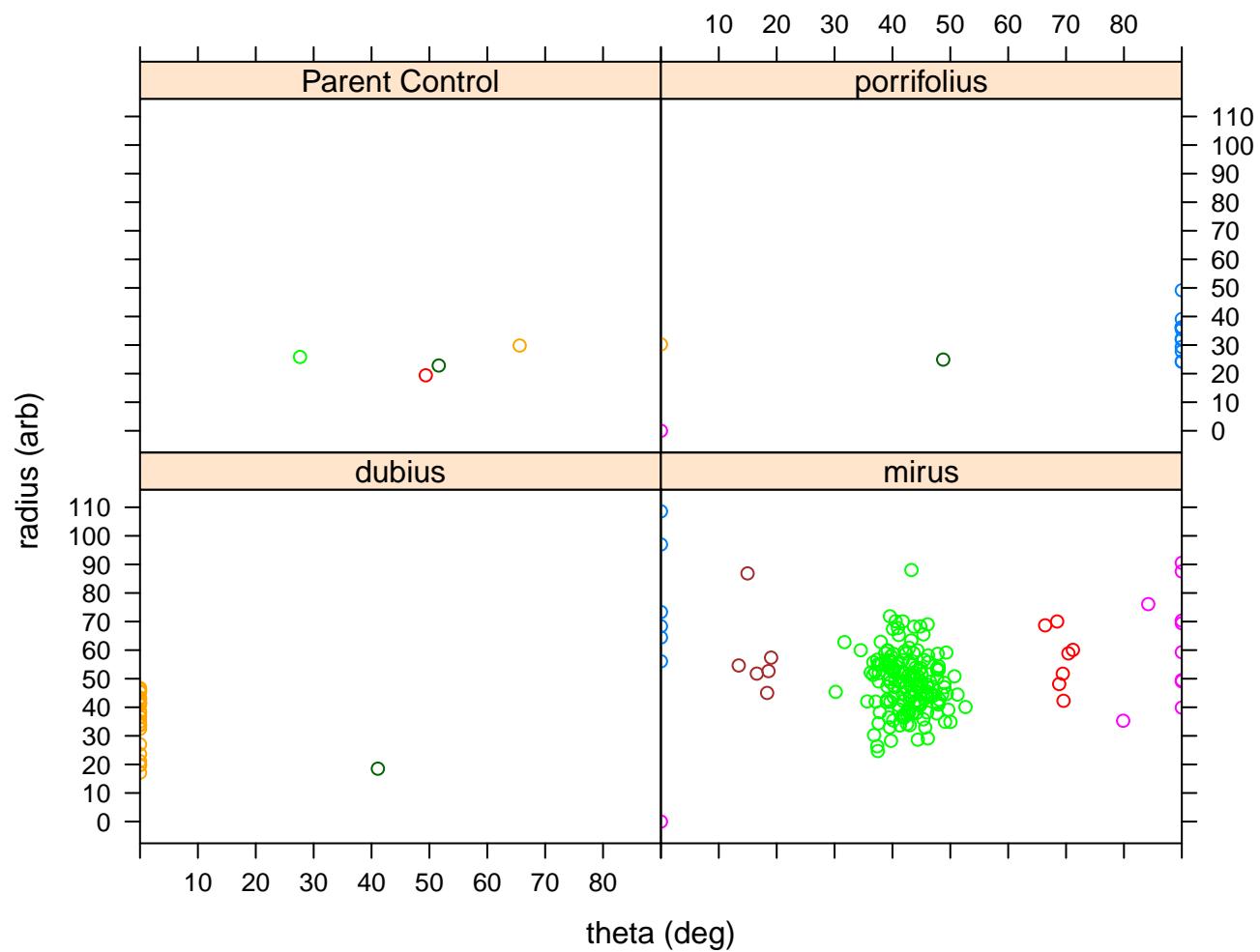
HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig11727_171 cDNA

Call

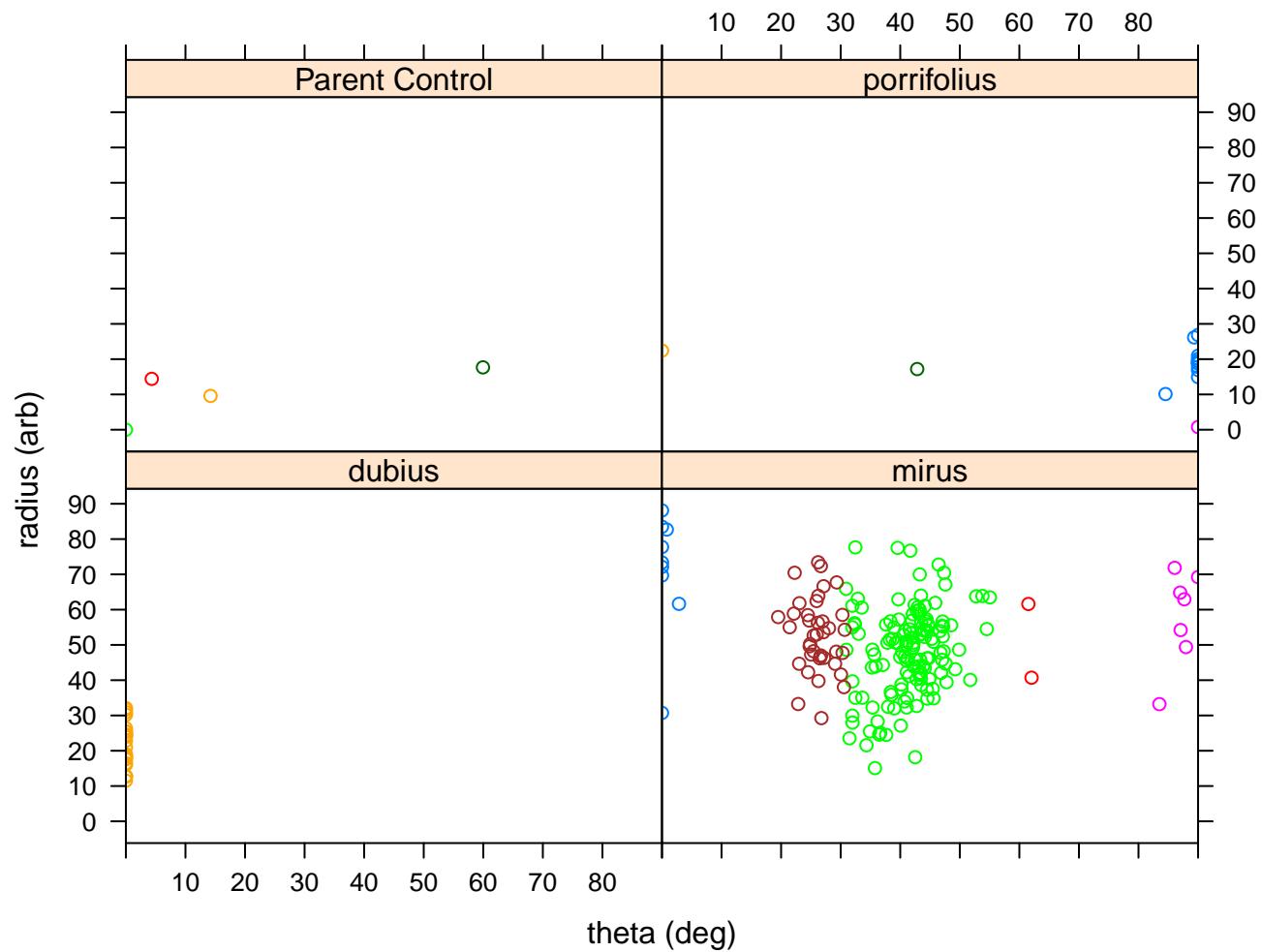
HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig11727_789 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig11727_789 cDNA

Call

Bad_Spectrum	○	LLLL	○
HH	○	No_Alleles	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LHHH	○	PM2_1_2	○
LL	○	PM2_2_1	○
LLHH	○		

10 20 30 40 50 60 70 80

Parent Control

porrifolius

110
100
90
80
70
60
50
40
30
20
10
0

radius (arb)

dubius

mirus

110
100
90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig11747_62 gDNA

Call

Bad_Spectrum	LLLH	Bad_Spectrum	LLLH
HH	PM3_1_1	HH	PM3_1_1
HHHH	PM3_1_2	HHHH	PM3_1_2
LH	PM3_2_1	LH	PM3_2_1
LHHH	PM4	LHHH	PM4
LL	PM5	LL	PM5
LLHH	PM6	LLHH	PM6

10 20 30 40 50 60 70 80

Parent Control

pratensis

radius (arb)

80
70
60
50
40
30
20
10
0

dubius

miscellus

80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig11747_62 cDNA

Call

Bad_Spectrum	○	No_Aleles	○
HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LHHH	○	PM4	○
LL	○	PM5	○
LLHH	○	PM6	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

100
90
80
70
60
50
40
30
20
10
0

dubius

miscellus

100
90
80
70
60
50
40
30
20
10
0

radius (arb)

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig11809_802 cDNA

Call

Bad_Spectrum	○	No_Alleles	○
HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LHHH	○	PM4	○
LL	○	PM5	○
LLHH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

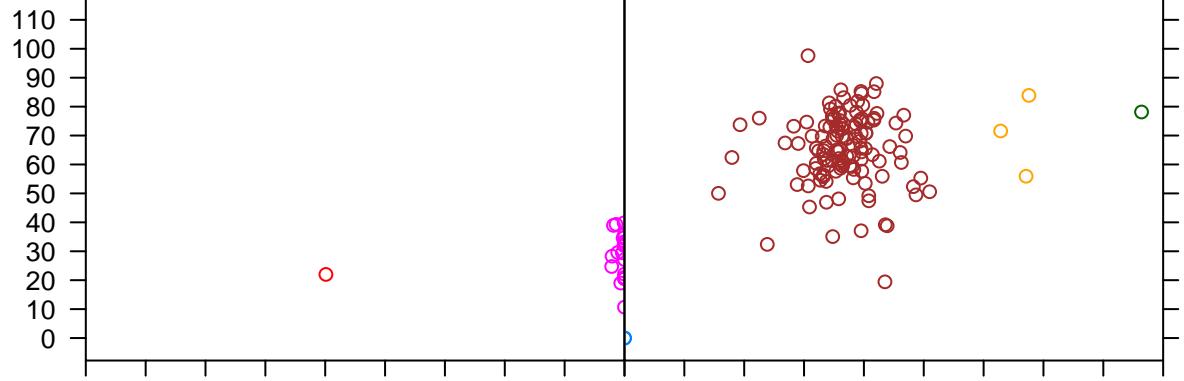
pratensis

110
100
90
80
70
60
50
40
30
20
10
0

radius (arb)

dubius

miscellus

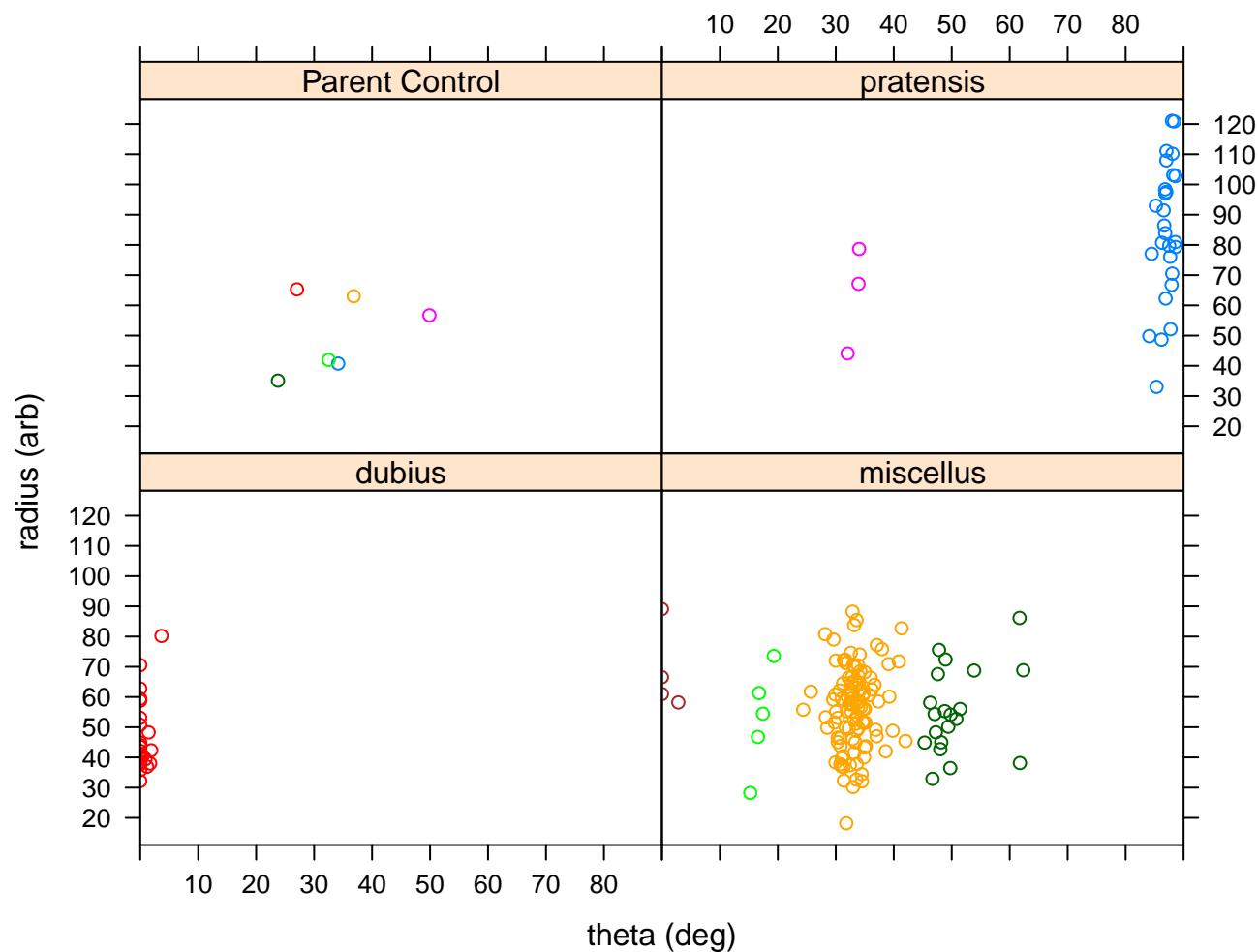


theta (deg)

V_2_5_isotig11820_827 gDNA

Call

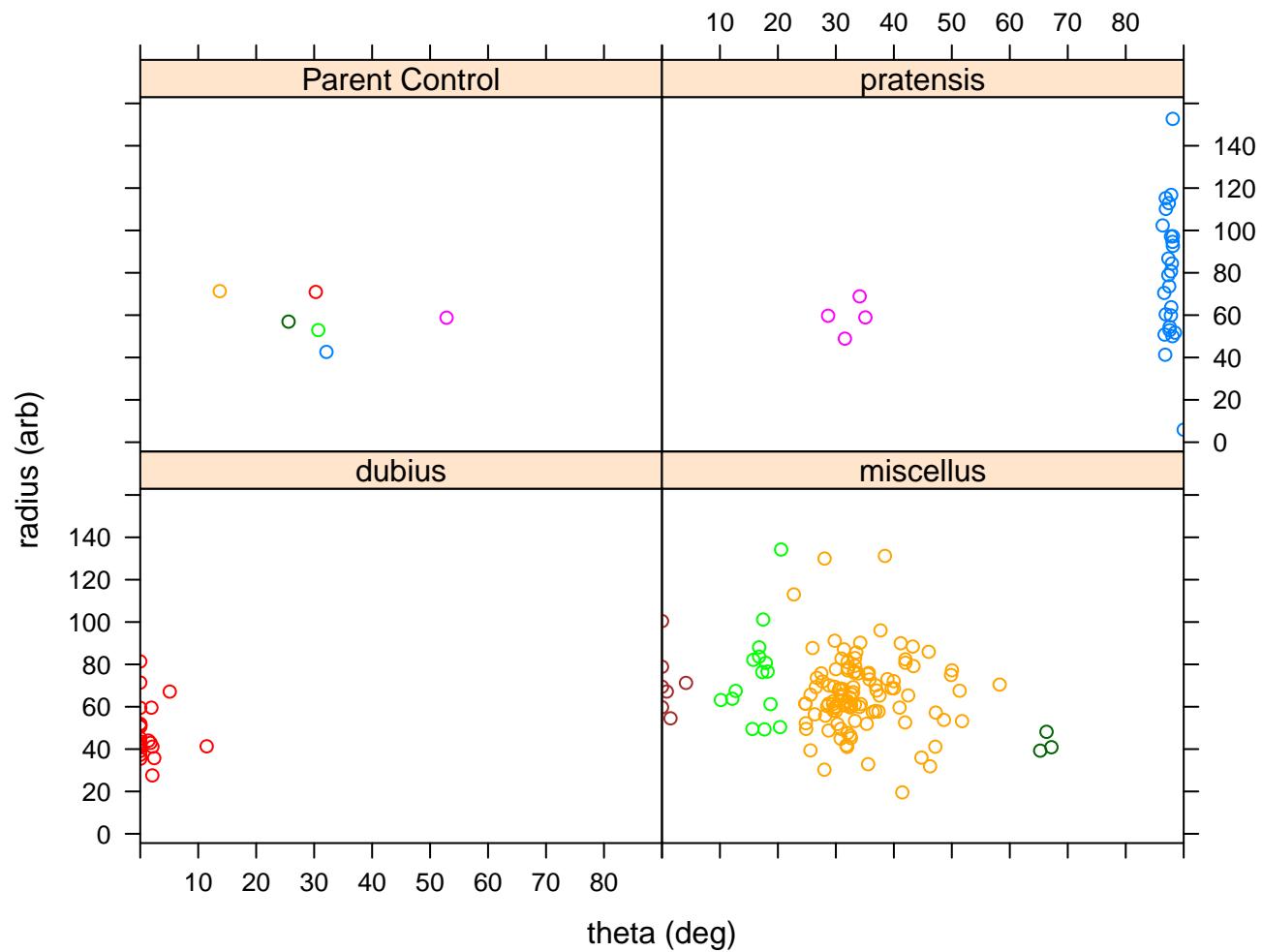
HH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		



V_2_5_isotig11820_827 cDNA

Call

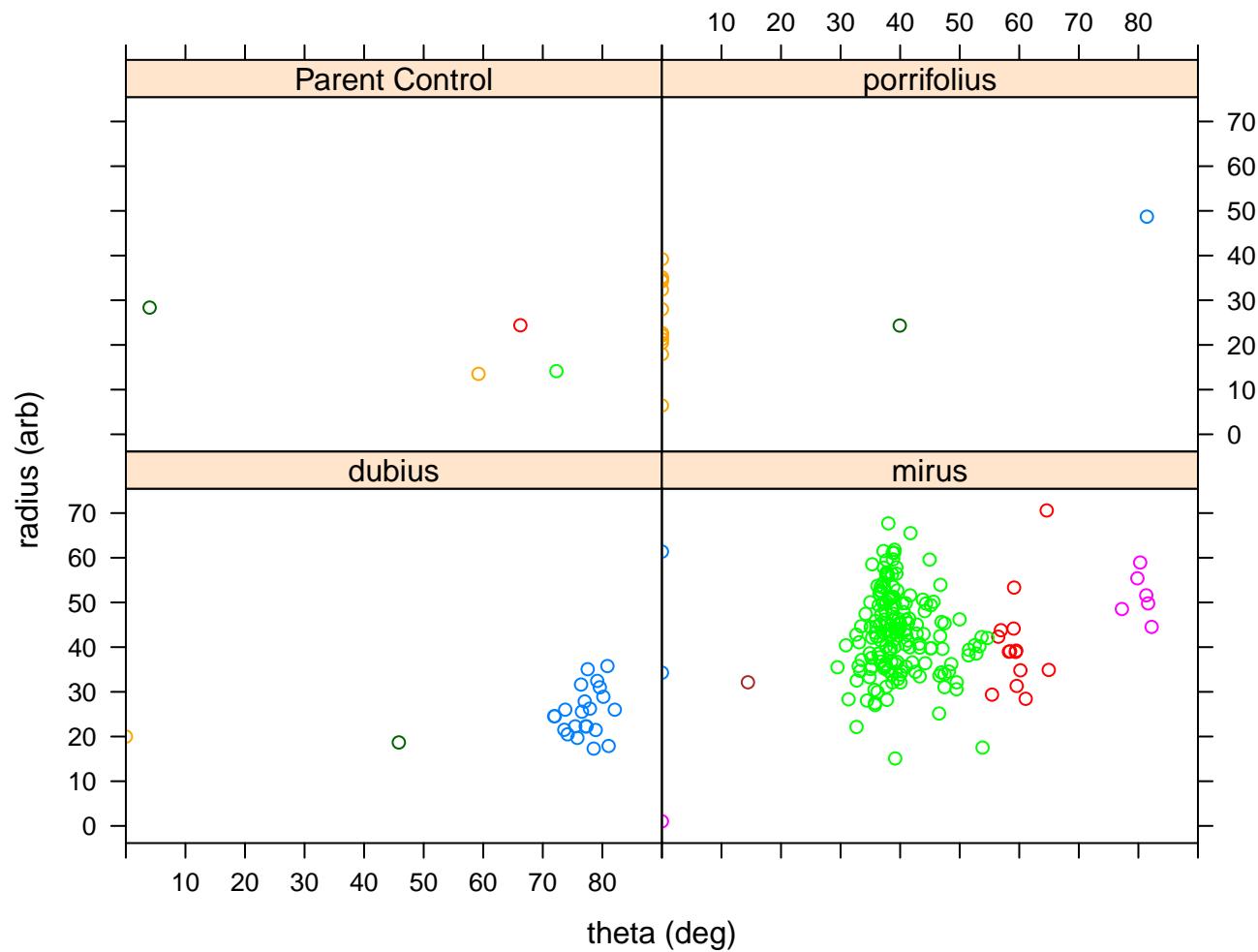
HH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		



V_2_5_isotig11858_278 gDNA

Call

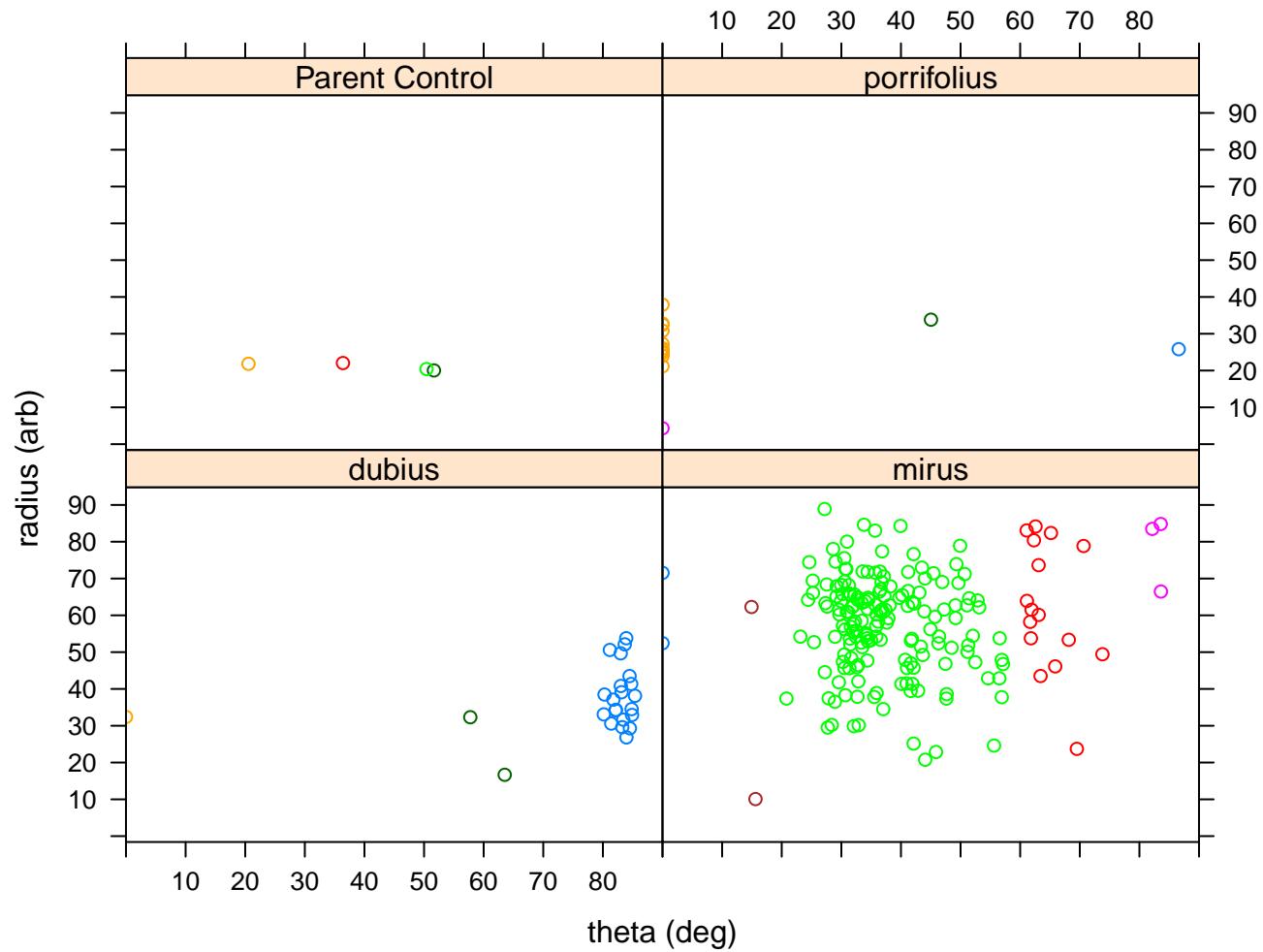
HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig11858_278 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		○



V_2_5_isotig11879_813 cDNA

Call

Bad_Spectrum	○	PM3_1_1	○
HH	○	PM3_1_2	○
HHHH	○	PM3_2_1	○
LH	○	PM4	○
LL	○	PM5	○
LLLL	○	PM6	○
No_Alleles	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

120
110
100
90
80
70
60
50
40
30
20
10
0

dubius

miscellus

120
110
100
90
80
70
60
50
40
30
20
10
0

radius (arb)

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig11879_92 gDNA

Call

Bad_Spectrum	LLLL	Bad_Spectrum	LLLL
HH	PM3_1_1	HH	PM3_1_1
HHHH	PM3_1_2	HHHH	PM3_1_2
LH	PM3_2_1	LH	PM3_2_1
LHHH	PM4	LHHH	PM4
LL	PM5	LL	PM5
LLHH	PM6	LLHH	PM6

10 20 30 40 50 60 70 80

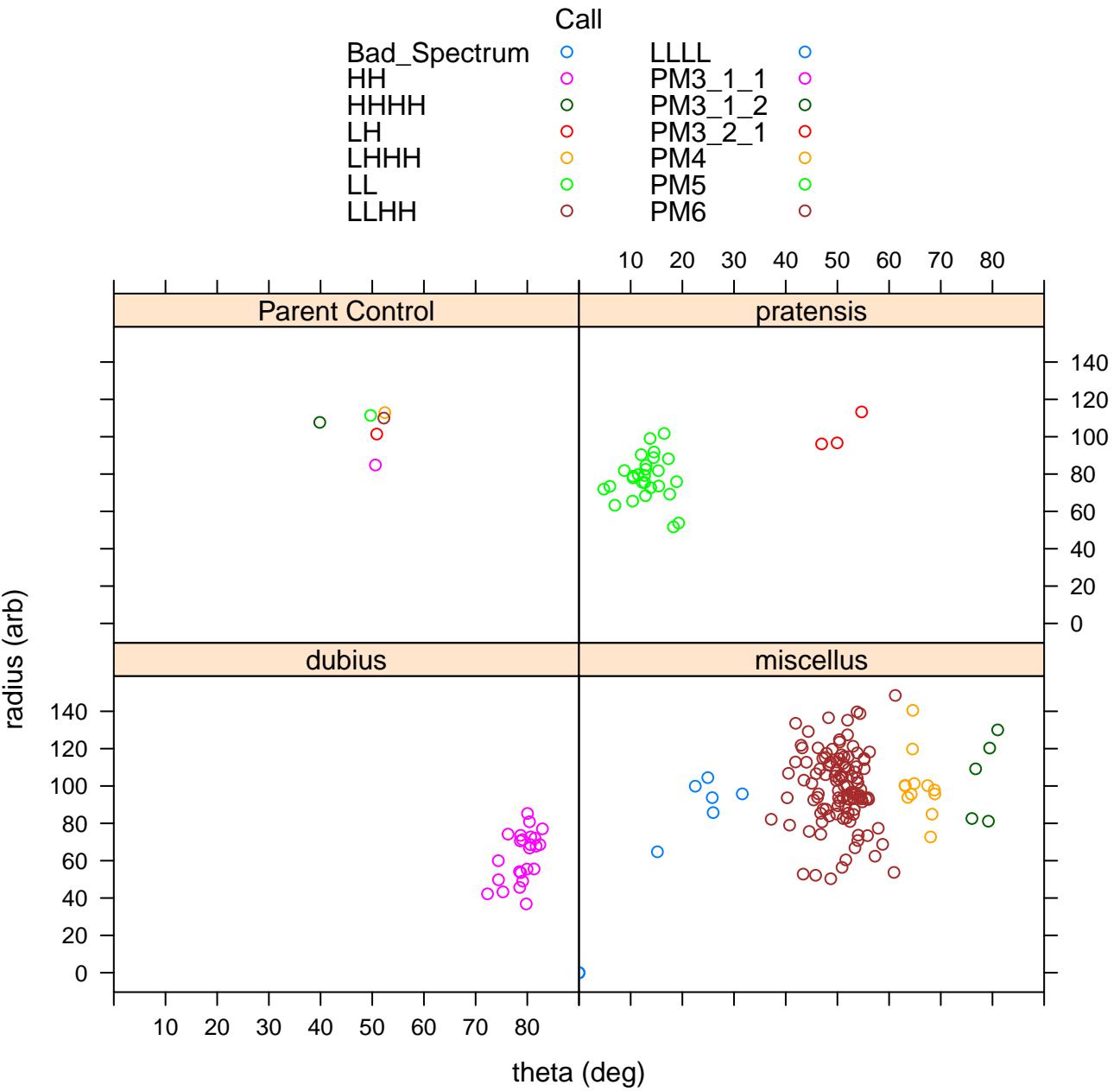
Parent Control

pratensis

radius (arb)

dubius

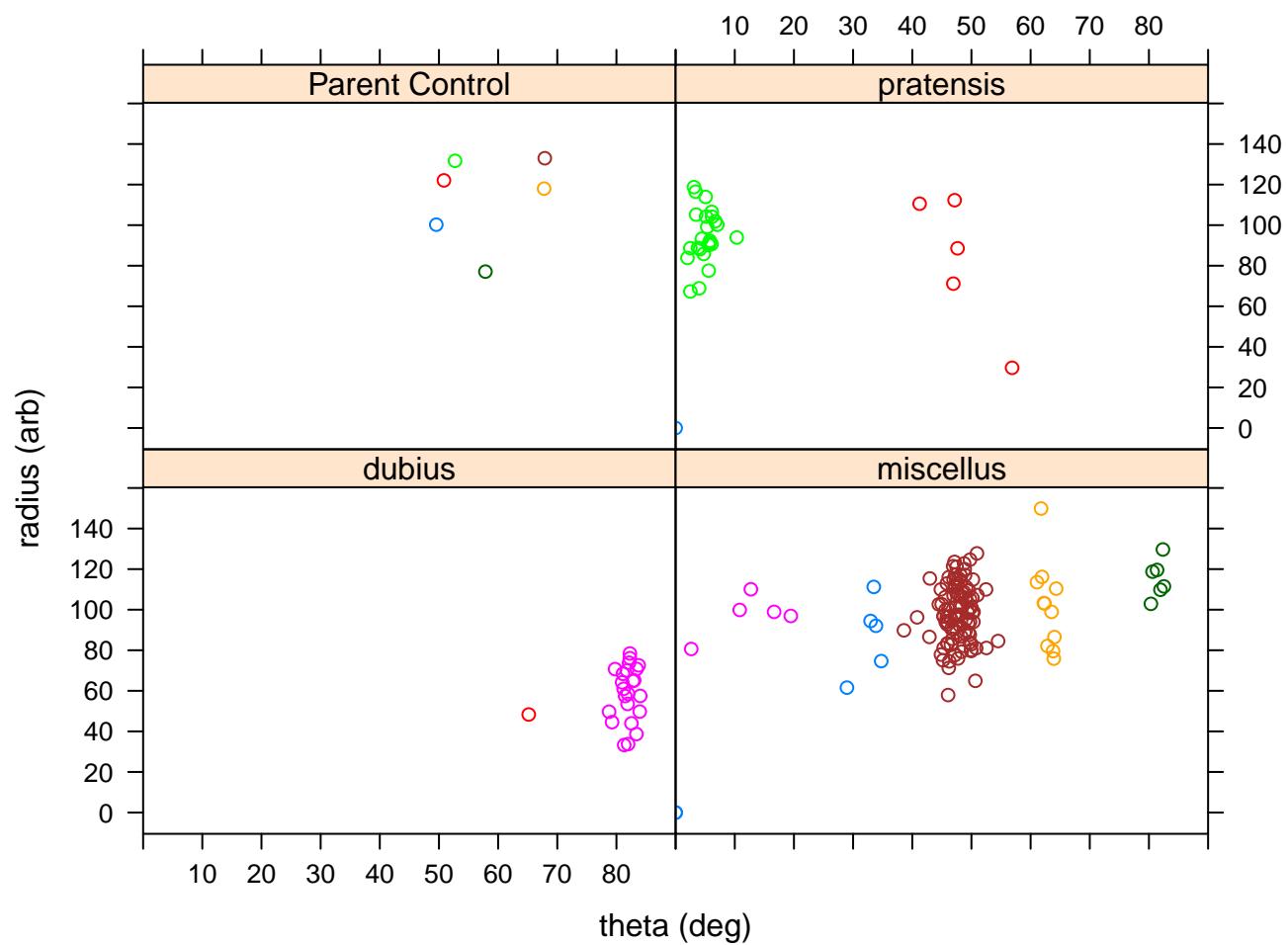
miscellus



V_2_5_isotig11879_92 cDNA

Call

Bad_Spectrum	LLLL	Bad_Spectrum
HH	PM3_1_1	HH
HHHH	PM3_1_2	HHHH
LH	PM3_2_1	LH
LHHH	PM4	LHHH
LL	PM5	LL
LLHH	PM6	LLHH
LLLH		LLLH



V_2_5_isotig11905_350 gDNA

Call

Bad_Spectrum	LLLL	○
HH	PM1	○
HHHH	PM2_1_1	○
LH	PM2_1_2	○
LL	PM2_2_1	○
LLHH	○	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

70
60
50
40
30
20
10
0

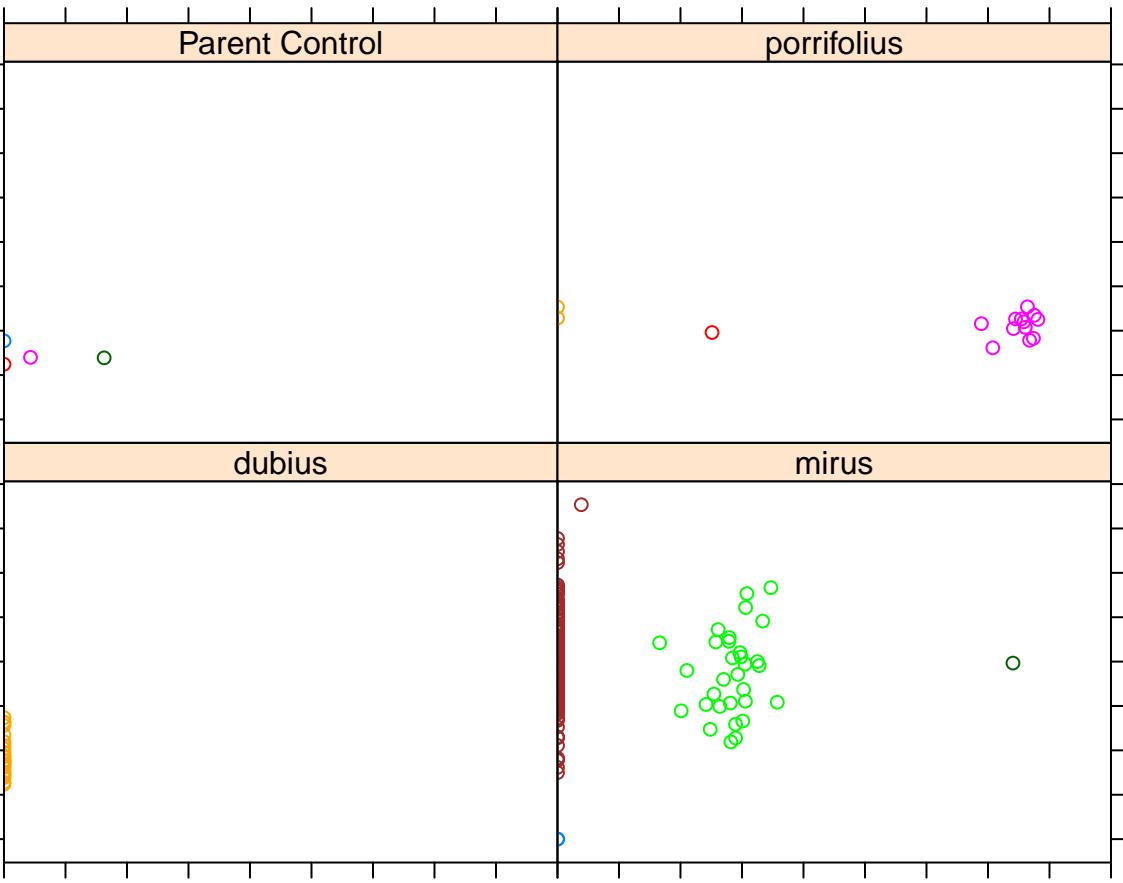
dubius

mirus

70
60
50
40
30
20
10
0

radius (arb)

theta (deg)



V_2_5_isotig11905_350 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

90
80
70
60
50
40
30
20
10

dubius

mirus

radius (arb)

90
80
70
60
50
40
30
20
10

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig11916_817 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LHHH	○	PM2_1_2	○
LL	○	PM2_2_1	○
LLHH	○		

10 20 30 40 50 60 70 80

Parent Control

porrifolius

140
130
120
110
100
90
80
70
60
50
40
30
20

dubius

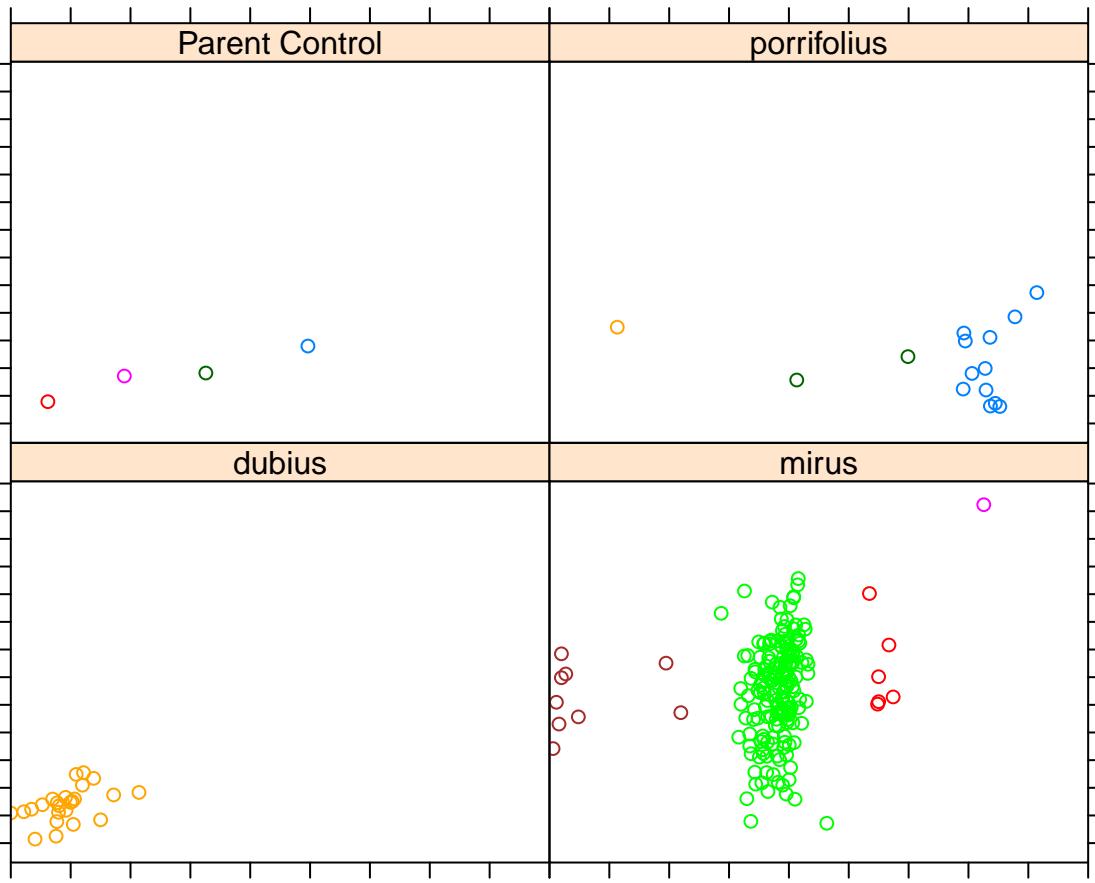
mirus

radius (arb)

140
130
120
110
100
90
80
70
60
50
40
30
20

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig11916_817 cDNA

Call

HH	○	LLLL	○
HHHH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

radius (arb)

180
160
140
120
100
80
60
40

dubius

mirus

10 20 30 40 50 60 70 80

theta (deg)

180
160
140
120
100
80
60
40

V_2_5_isotig11932_582 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

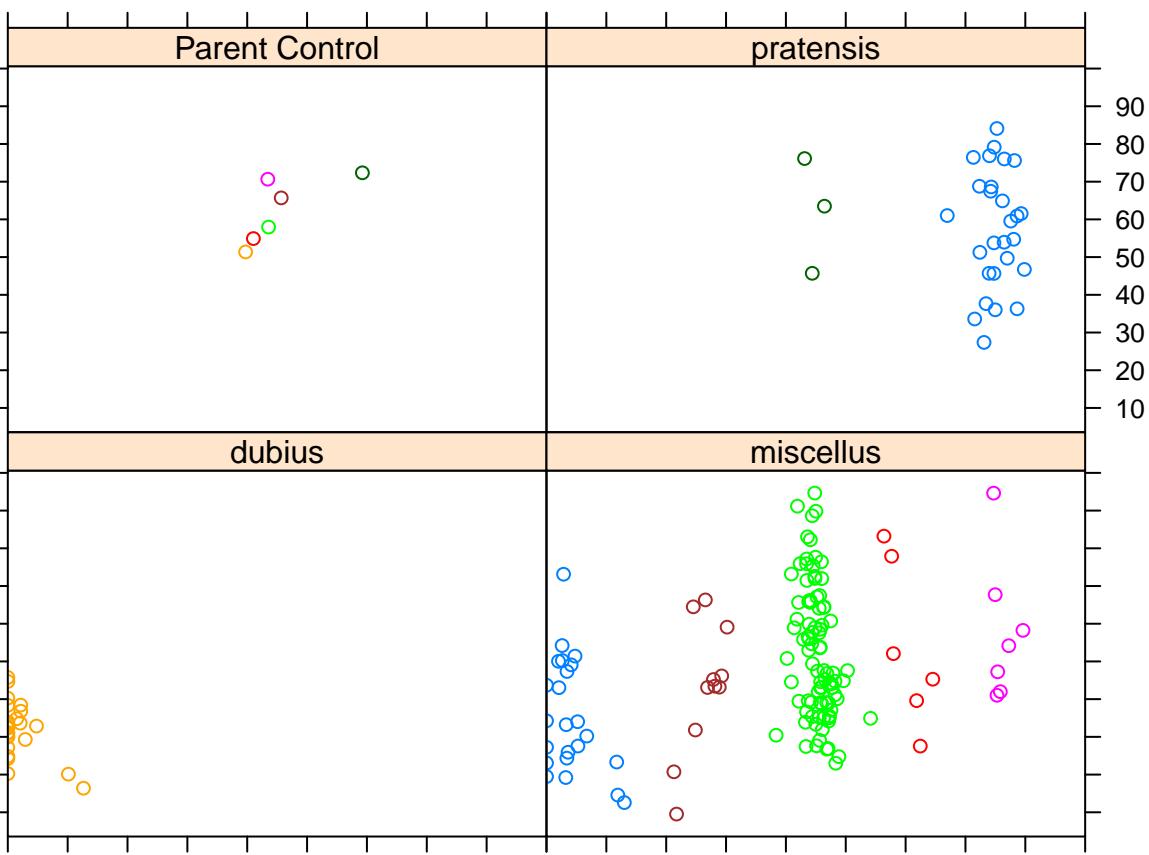
radius (arb)

dubius

miscellus

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig11932_582 cDNA

Call

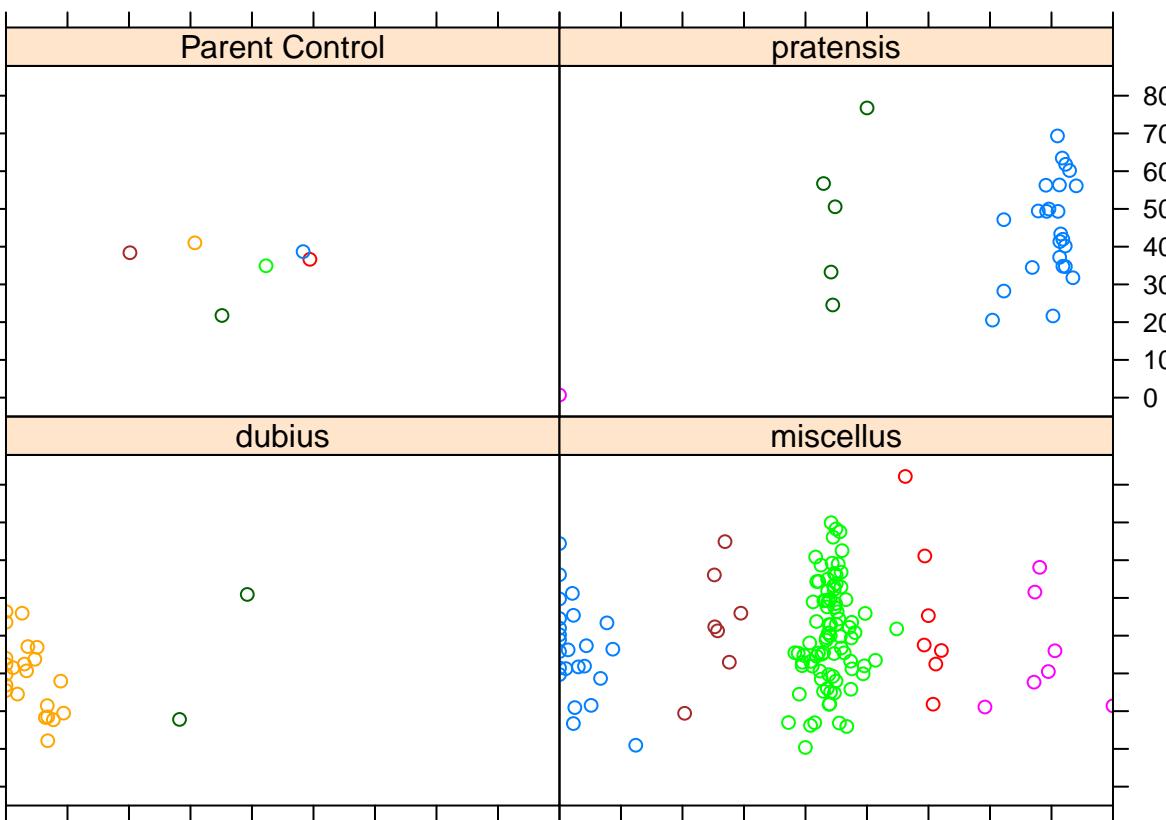
HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

radius (arb)



theta (deg)

V_2_5_isotig11942_517 gDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

radius (arb)

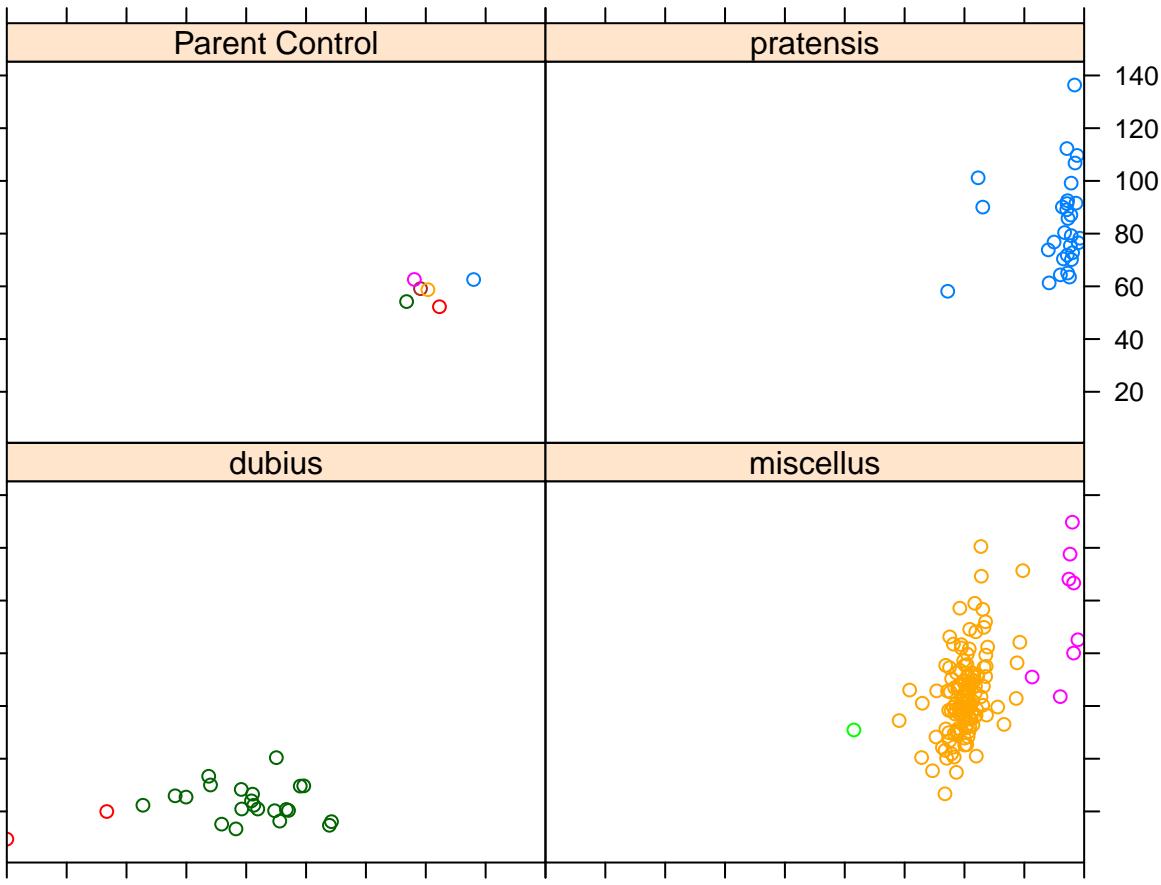
dubius

miscellus

140
120
100
80
60
40
20

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig11942_517 cDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
No_Alleles	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

140
120
100
80
60
40
20
0

dubius

miscellus

radius (arb)

140
120
100
80
60
40
20
0

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig11942_649 cDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

110
100
90
80
70
60
50
40
30
20
10

radius (arb)

dubius

miscellus

110
100
90
80
70
60
50
40
30
20
10

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig11948_620 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLLL	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

radius (arb)

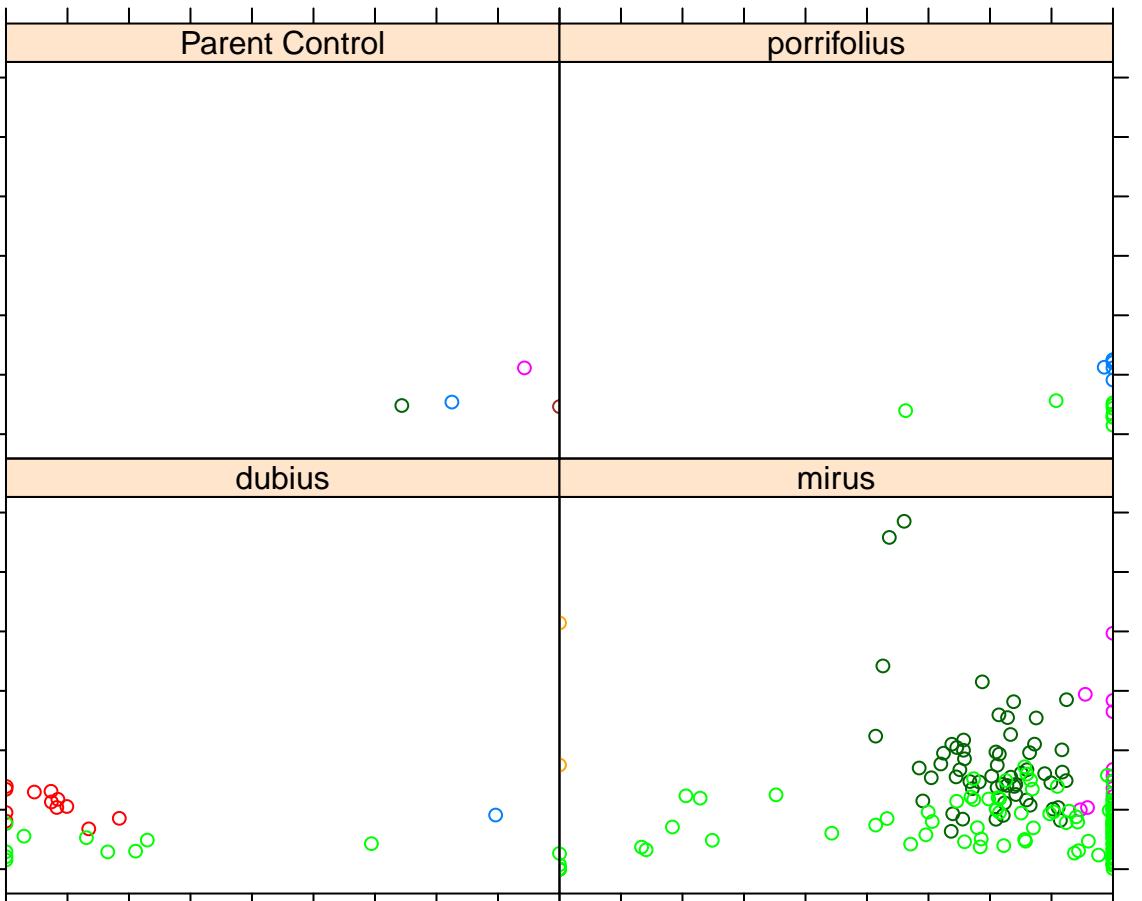
30
25
20
15
10
5
0

dubius

mirus

10 20 30 40 50 60 70 80

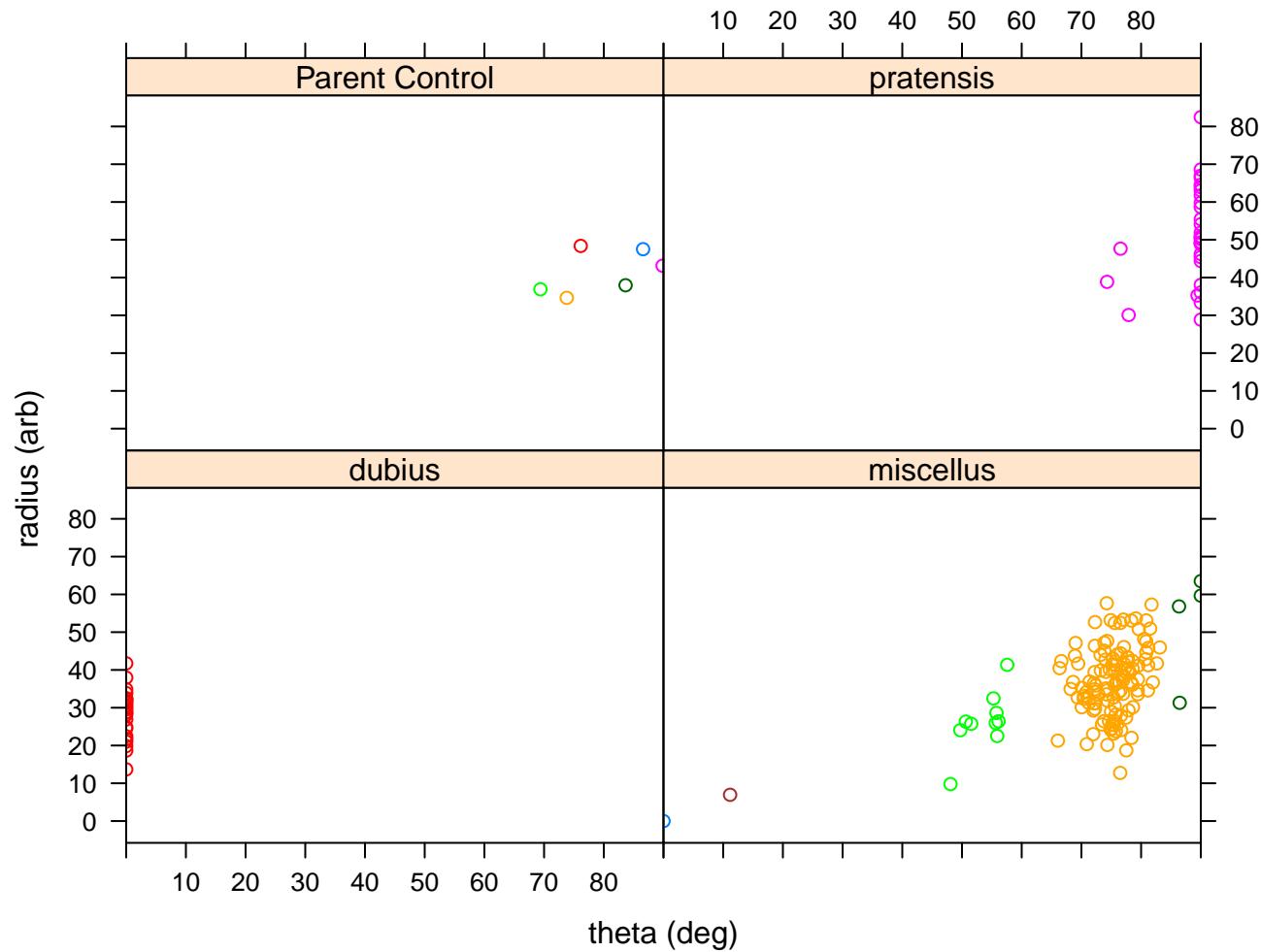
theta (deg)



V_2_5_isotig11958_107 gDNA

Call

Bad_Spectrum	○	PM3_1_1	○
HH	○	PM3_1_2	○
HHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		



V_2_5_isotig11958_107 cDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

radius (arb)

90
80
70
60
50
40
30
20
10
0

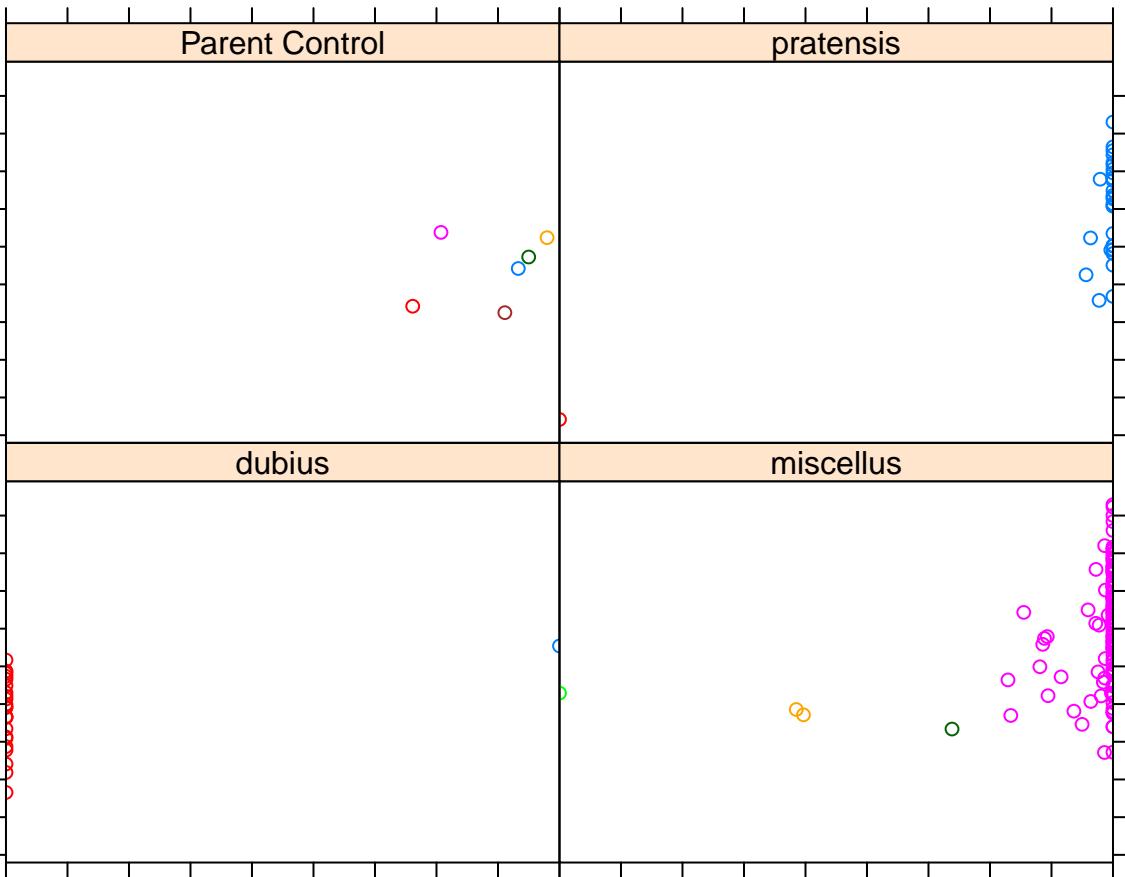
dubius

miscellus

90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig11958_333 gDNA

Call

HH	○	PM3_1_2	○
HHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
PM3_1_1	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

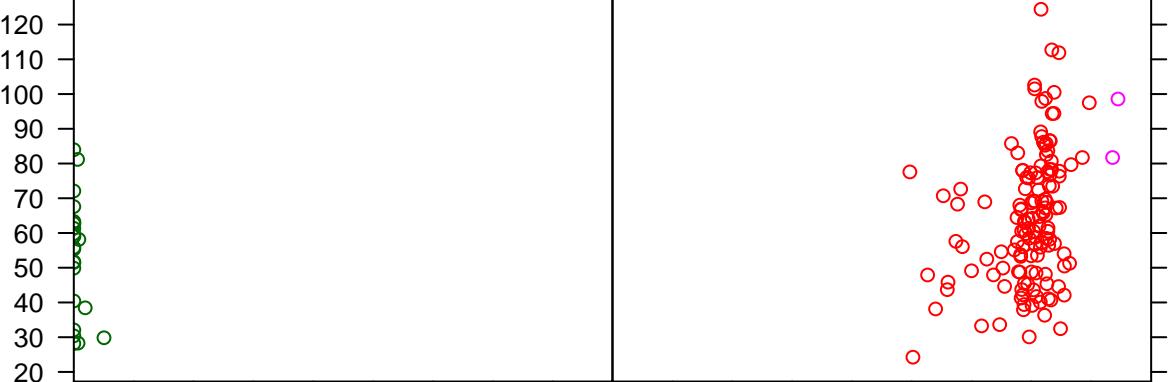
pratensis

radius (arb)

120
110
100
90
80
70
60
50
40
30
20

dubius

miscellus

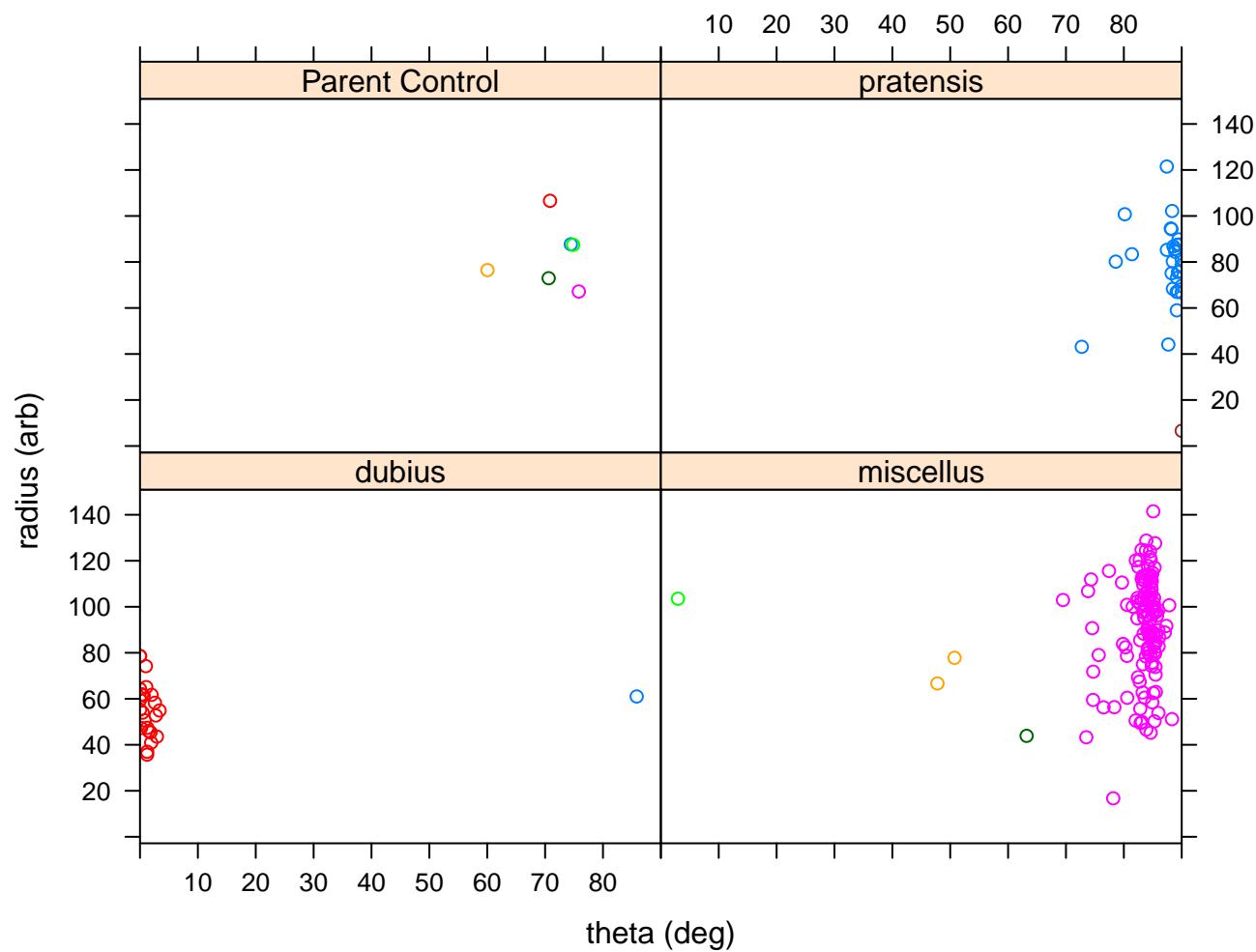


theta (deg)

V_2_5_isotig11958_333 cDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○
No_Alleles	○		



V_2_5_isotig11958_405 gDNA

Call

HH	○	PM3_2_1	○
HHHH	○	PM4	○
LL	○	PM5	○
PM3_1_1	○	PM6	○
PM3_1_2	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

140
130
120
110
100
90
80
70
60
50
40
30

dubius

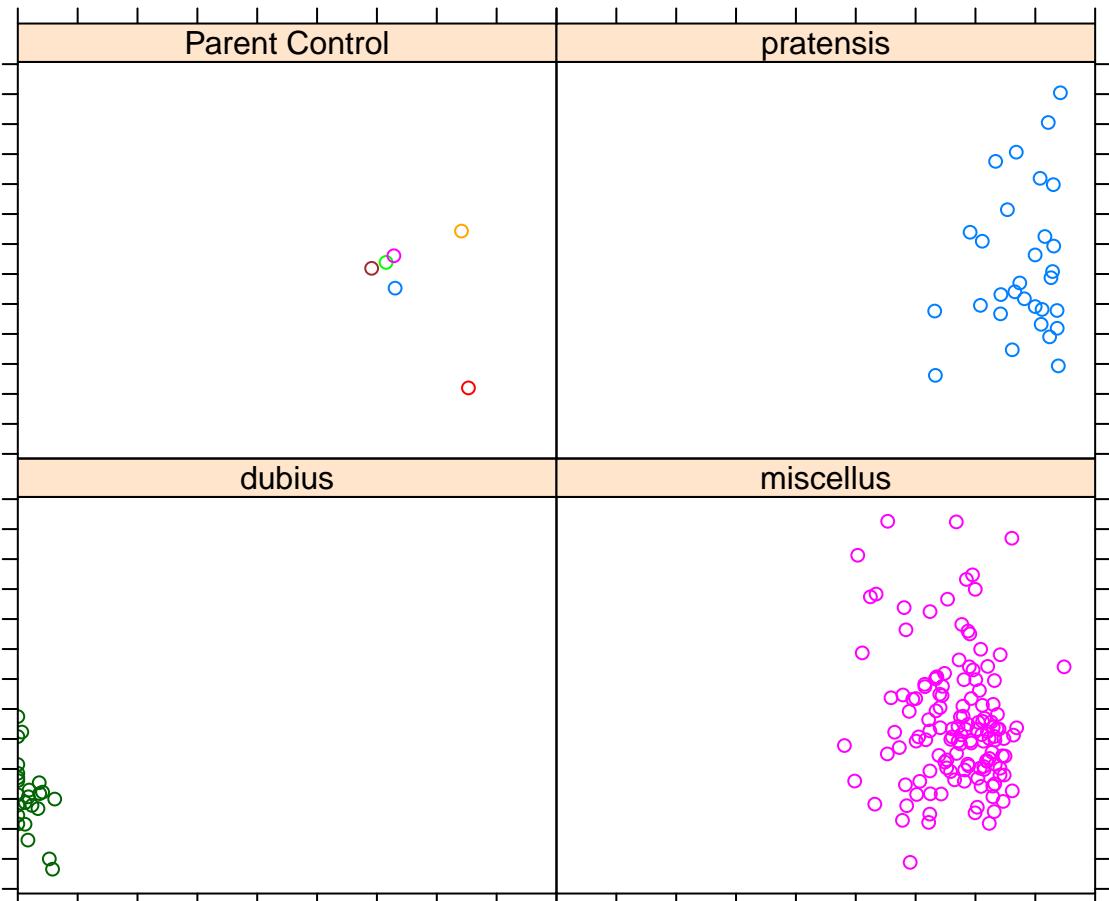
miscellus

radius (arb)

140
130
120
110
100
90
80
70
60
50
40
30

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig11958_405 cDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○
No_Alleles	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

radius (arb)

dubius

miscellus

120
100
80
60
40
20
0

10 20 30 40 50 60 70 80

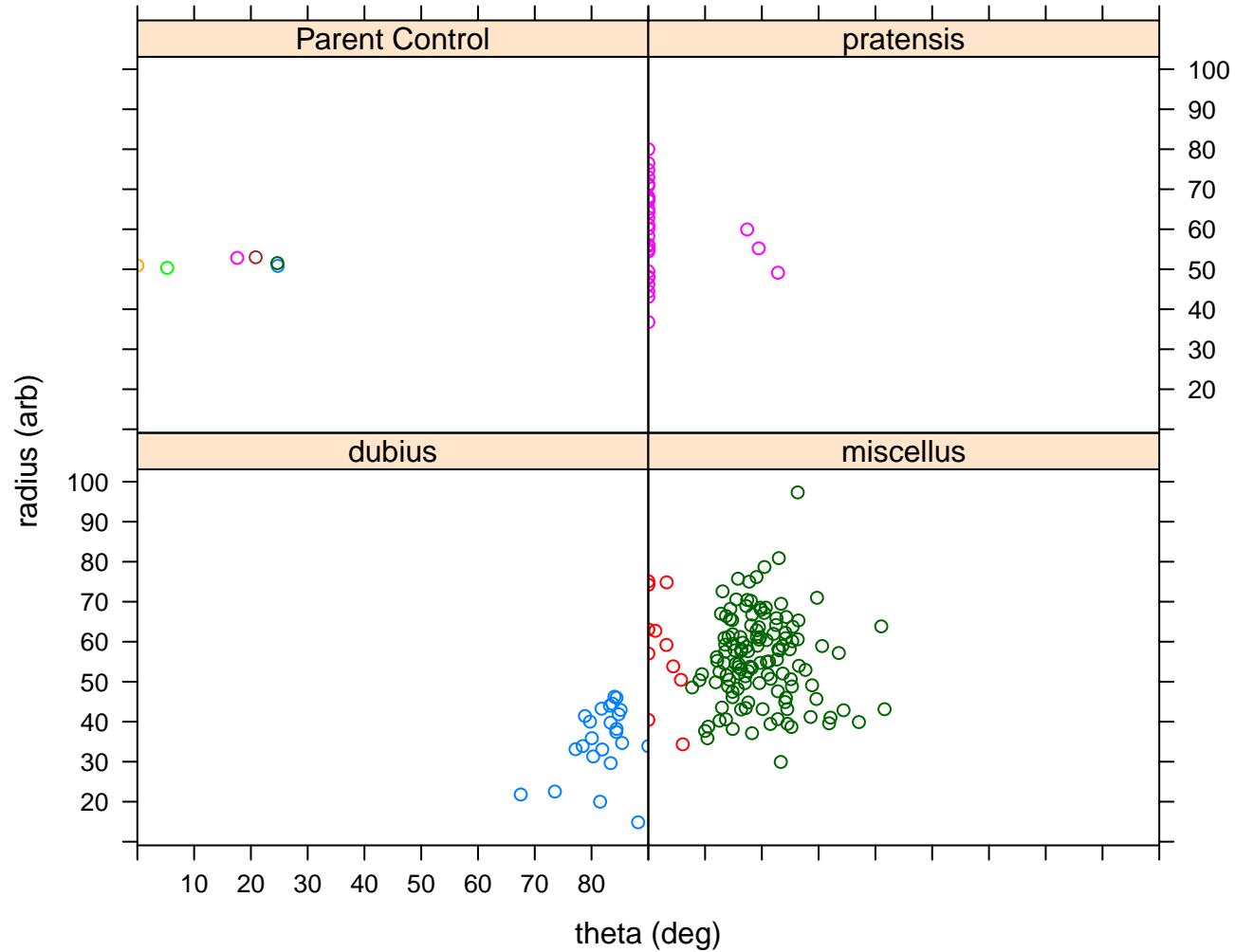
theta (deg)

V_2_5_isotig11958_549 gDNA

Call

HH	○	PM3_1_2	○
LL	○	PM3_2_1	○
LLLH	○	PM4	○
LLLL	○	PM5	○
PM3_1_1	○	PM6	○

10 20 30 40 50 60 70 80



V_2_5_isotig11958_549 cDNA

Call

Bad_Spectrum	○	No_Aleles	○
HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LL	○	PM3_2_1	○
LLHH	○	PM4	○
LLLH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

90
80
70
60
50
40
30
20
10
0

dubius

miscellus

90
80
70
60
50
40
30
20
10
0

radius (arb)

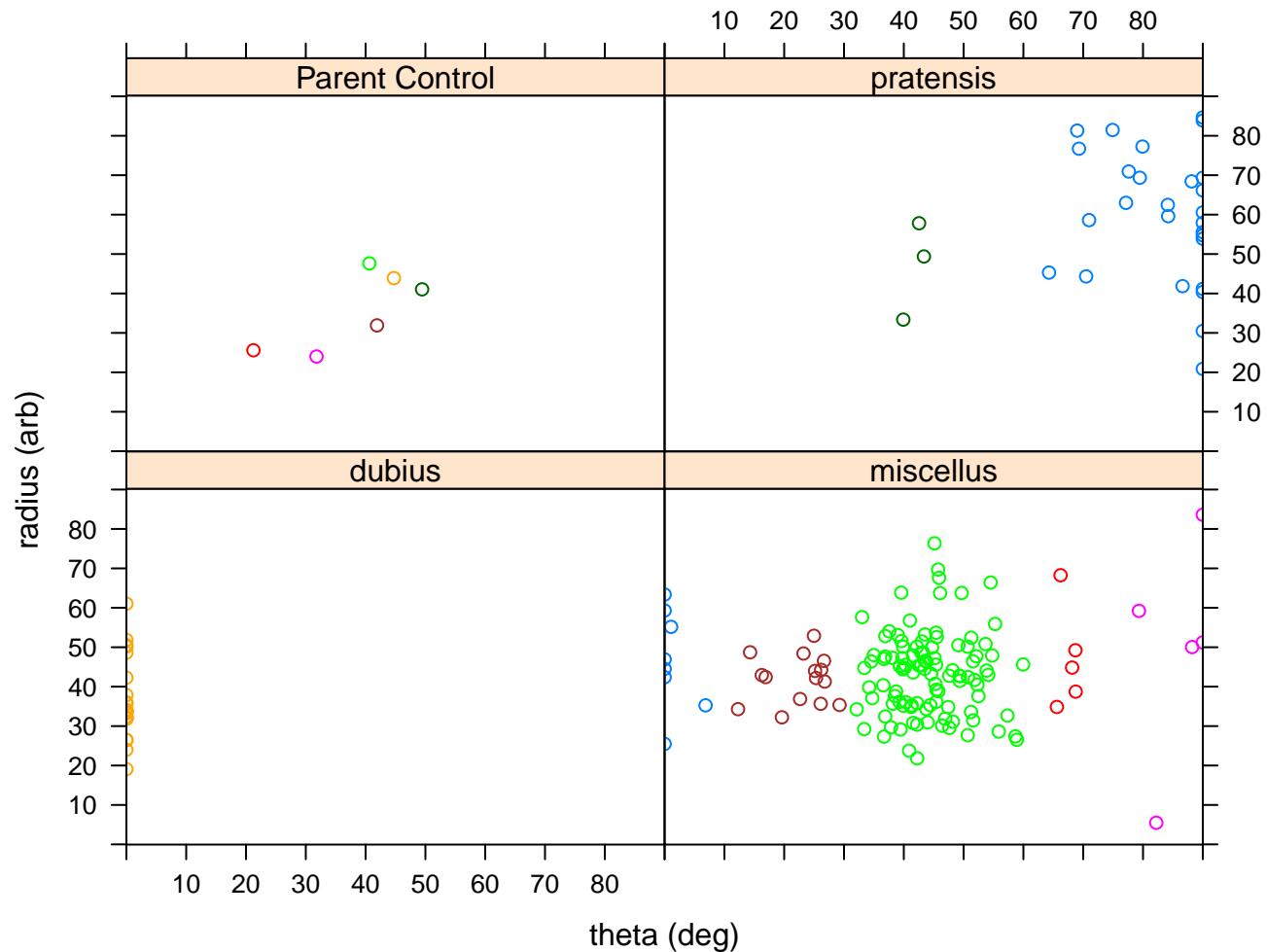
10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig12034_534 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○



V_2_5_isotig12034_534 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

180
160
140
120
100
80
60
40
20
0

dubius

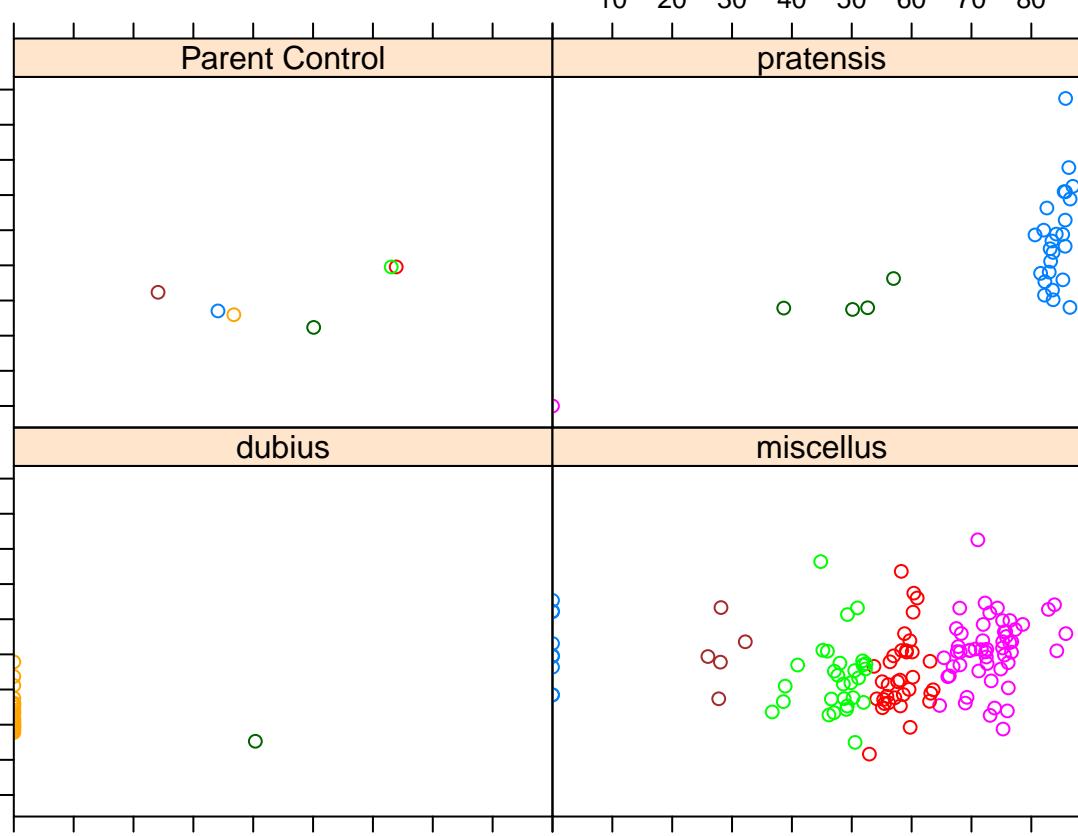
miscellus

radius (arb)

180
160
140
120
100
80
60
40
20
0

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig12064_383 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LHHH	○	PM2_1_2	○
LL	○	PM2_2_1	○
LLHH	○		

10 20 30 40 50 60 70 80

Parent Control

porrifolius

100
90
80
70
60
50
40
30
20
10

dubius

mirus

100
90
80
70
60
50
40
30
20
10

10 20 30 40 50 60 70 80

theta (deg)

radius (arb)

V_2_5_isotig12064_383 cDNA

Call

HH	○	LLLL	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LHHH	○	PM2_1_2	○
LL	○	PM2_2_1	○
LLHH	○		

10 20 30 40 50 60 70 80

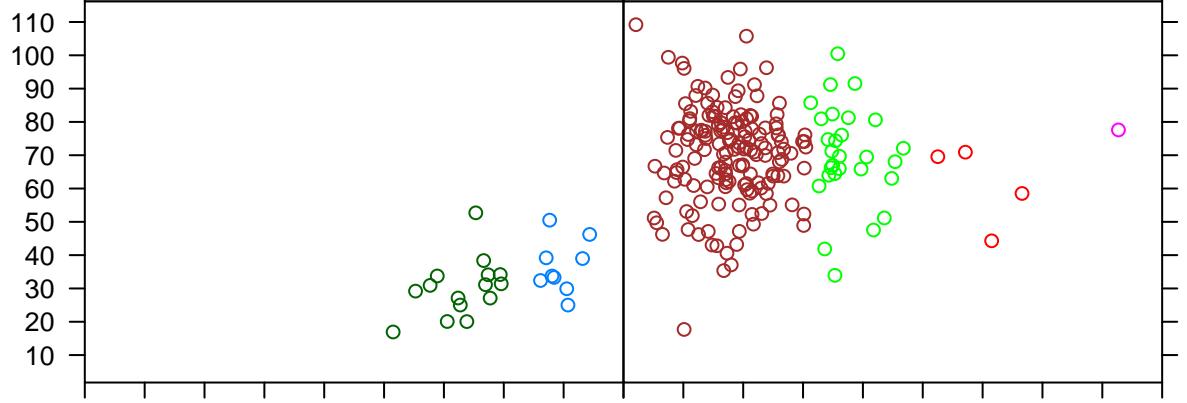
Parent Control

porrifolius

110
100
90
80
70
60
50
40
30
20
10

dubius

mirus

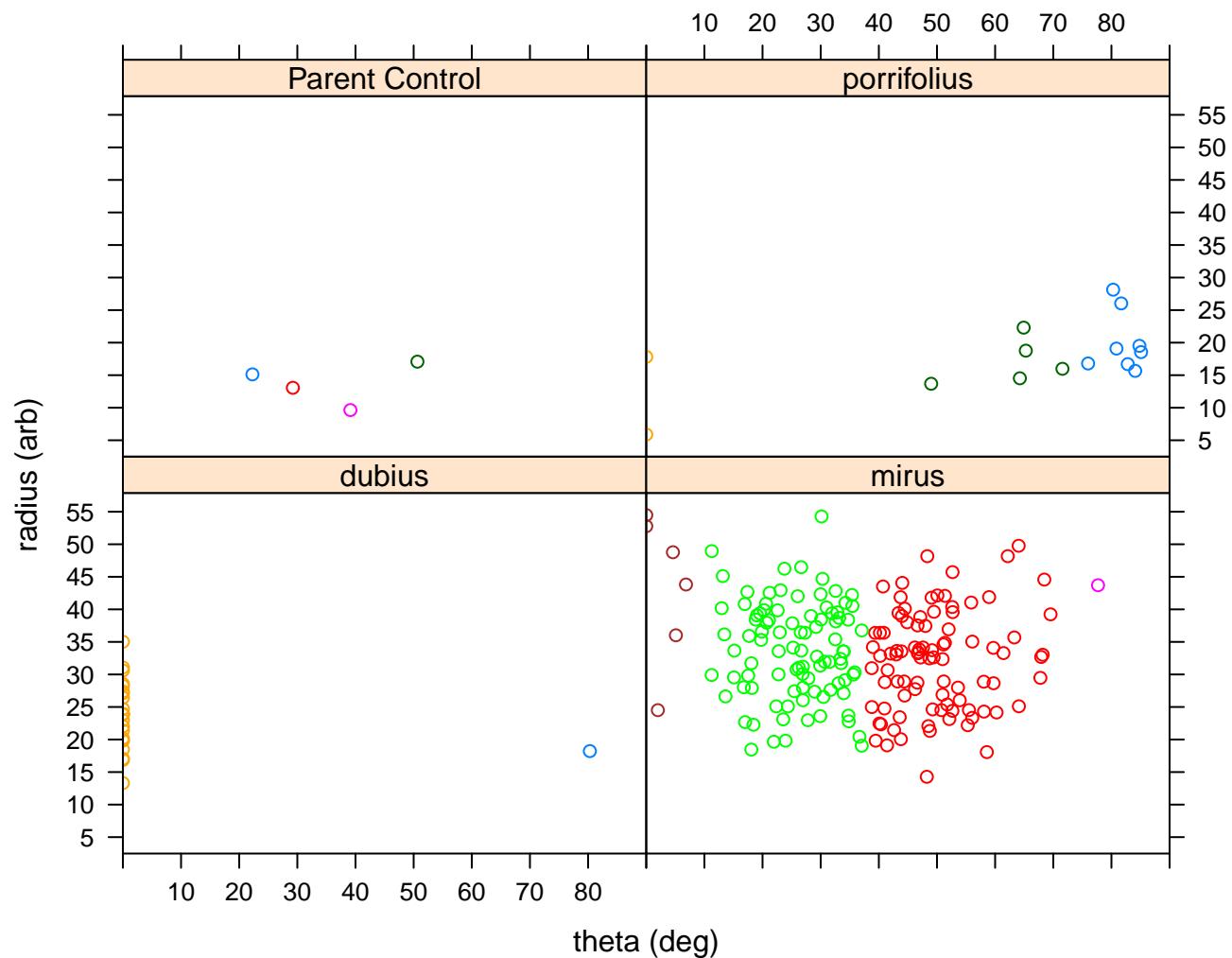


theta (deg)

V_2_5_isotig12064_466 cDNA

Call

HH	○	LLLL	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LHHH	○	PM2_1_2	○
LL	○	PM2_2_1	○
LLHH	○		



V_2_5_isotig12087_192 gDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

35
30
25
20
15
10
5

dubius

miscellus

radius (arb)

35
30
25
20
15
10
5

10 20 30 40 50 60 70 80

theta (deg)

35
30
25
20
15
10
5

V_2_5_isotig12087_192 cDNA

Call

Bad_Spectrum	○	No_Aleles	○
HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

12
11
10
9
8
7
6
5
4
3
2
1
0

radius (arb)

dubius

miscellus

12
11
10
9
8
7
6
5
4
3
2
1
0

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig12090_176 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

35
30
25
20
15
10
5
0

dubius

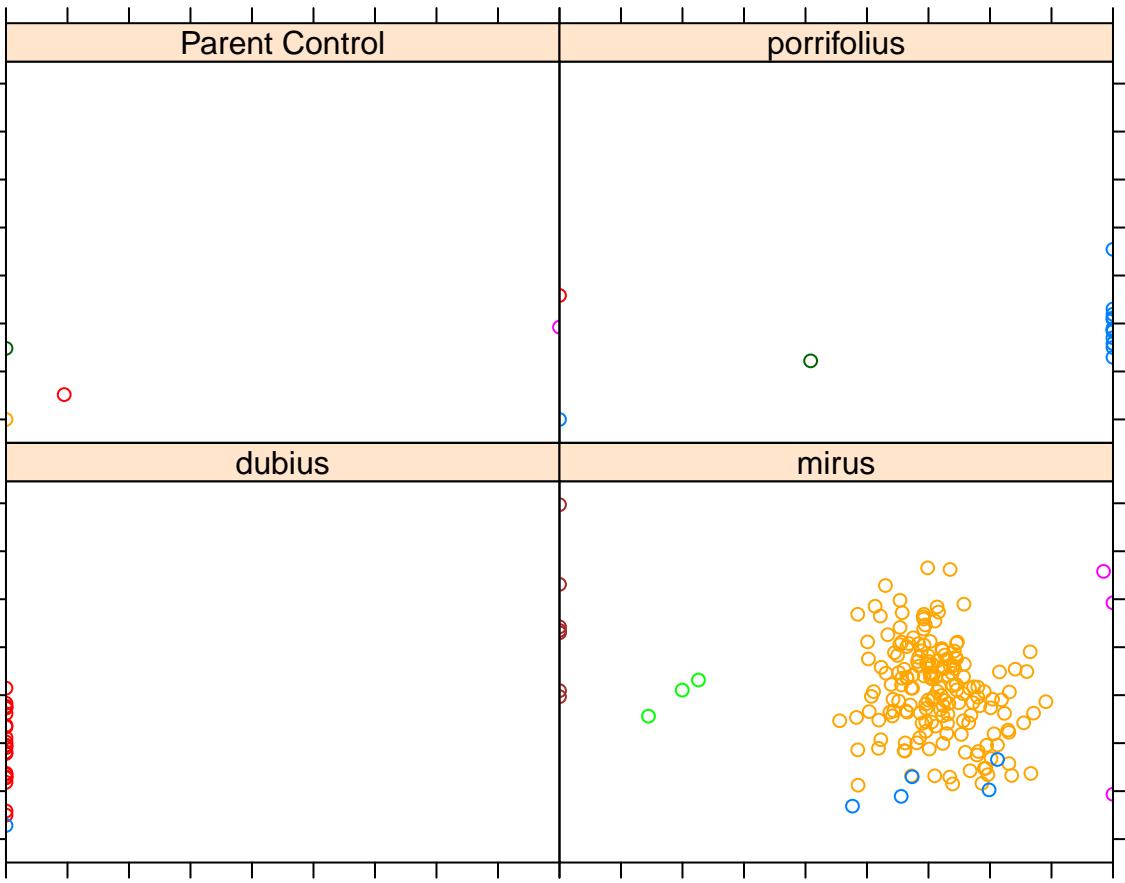
mirus

35
30
25
20
15
10
5
0

radius (arb)

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig12090_176 cDNA

Call

Bad_Spectrum	○	LLLL	○
HH	○	No_Alleles	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		

10 20 30 40 50 60 70 80

Parent Control

porrifolius

50
45
40
35
30
25
20
15
10
5
0

dubius

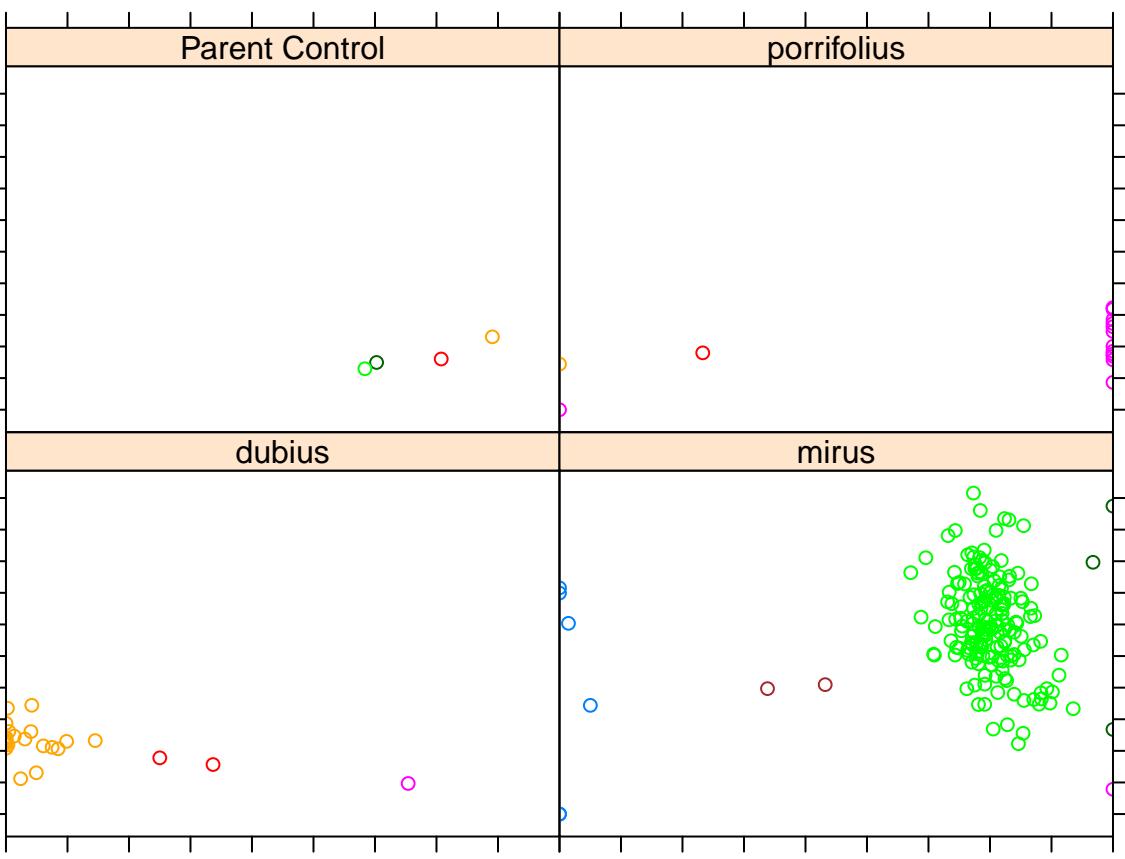
mirus

50
45
40
35
30
25
20
15
10
5
0

radius (arb)

10 20 30 40 50 60 70 80

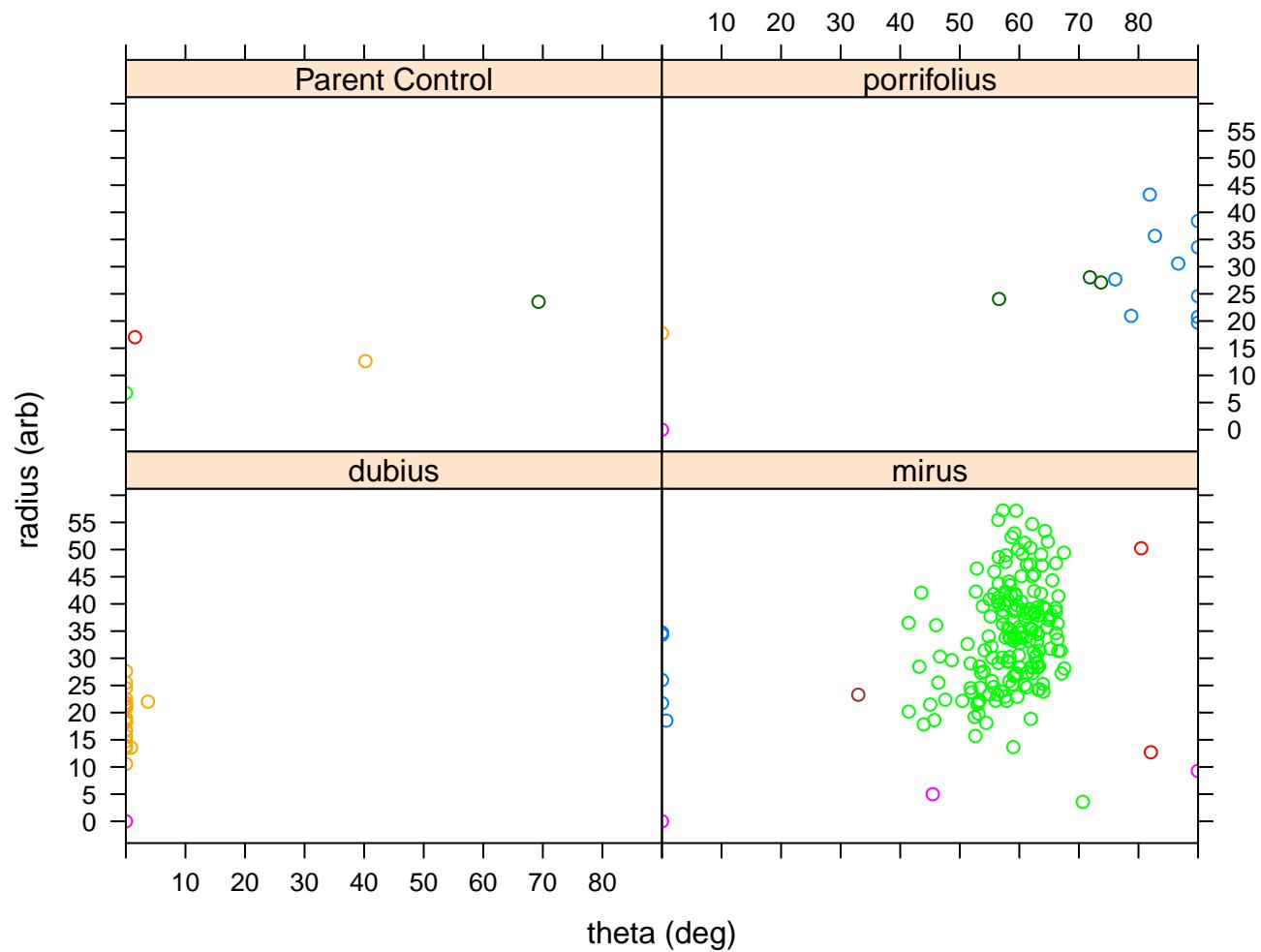
theta (deg)



V_2_5_isotig12123_735 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig12123_735 cDNA

Call

Bad_Spectrum	LLL	No_Aleles	○
HH	○	PM1	○
HHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		

10 20 30 40 50 60 70 80

Parent Control

porrifolius

radius (arb)

70
60
50
40
30
20
10
0

dubius

mirus

70

60

50

40

30

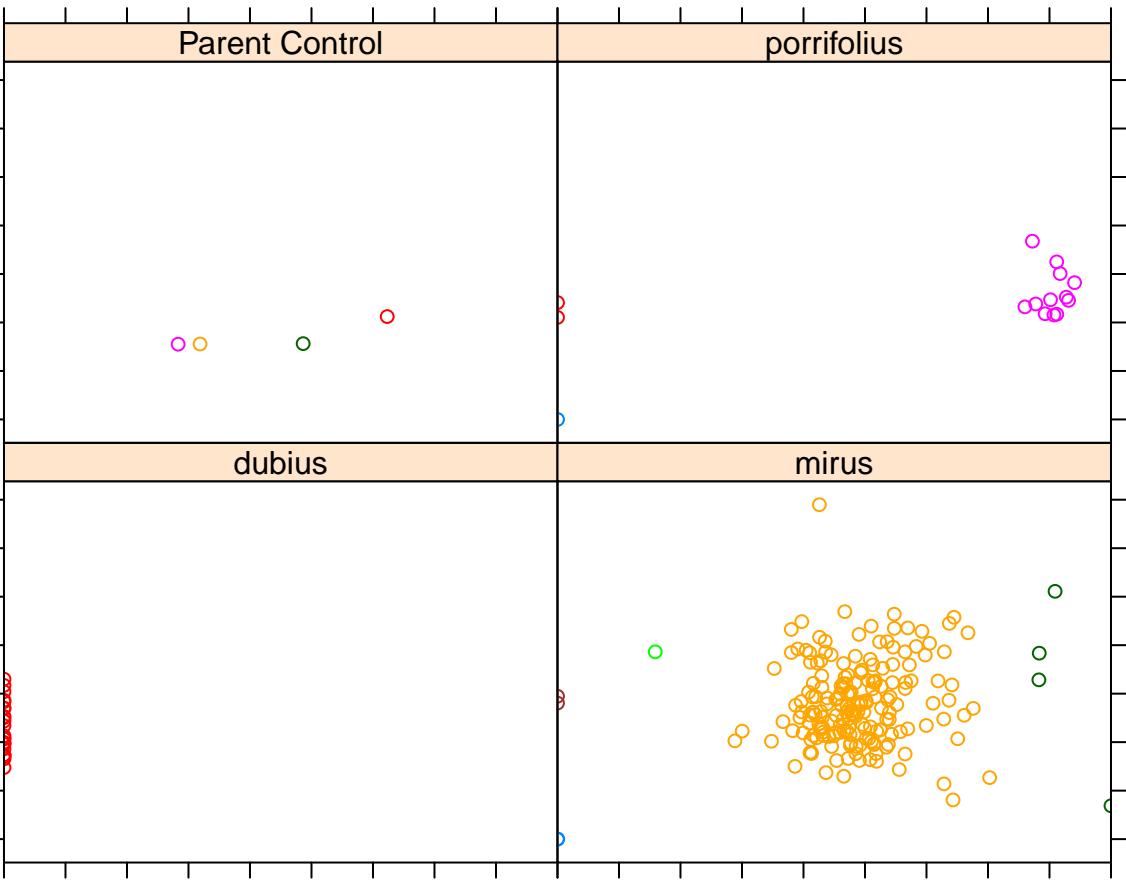
20

10

0

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig12131_443 gDNA

Call

Bad_Spectrum	○	LLLL	○
HH	○	No_Alleles	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		

10 20 30 40 50 60 70 80

Parent Control

porrifolius

100
90
80
70
60
50
40
30
20
10
0

dubius

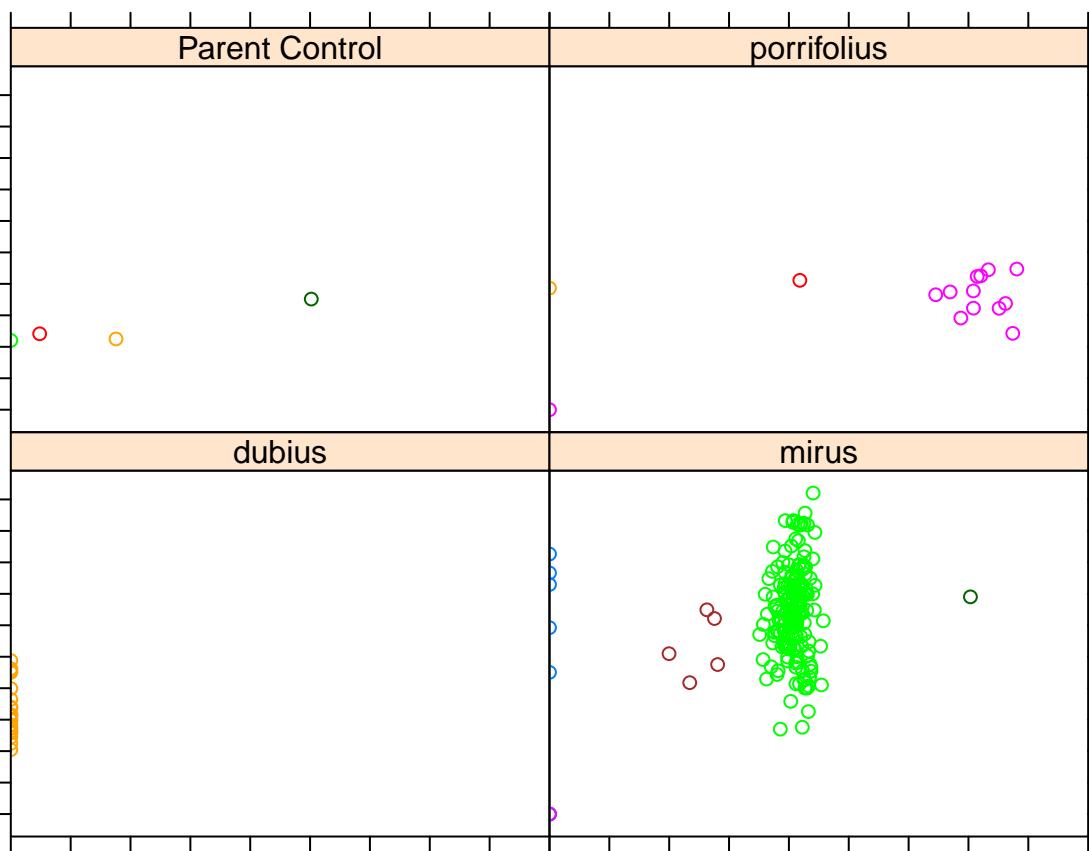
mirus

radius (arb)

100
90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig12131_443 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

porrifolius

100
90
80
70
60
50
40
30
20
10
0

dubius

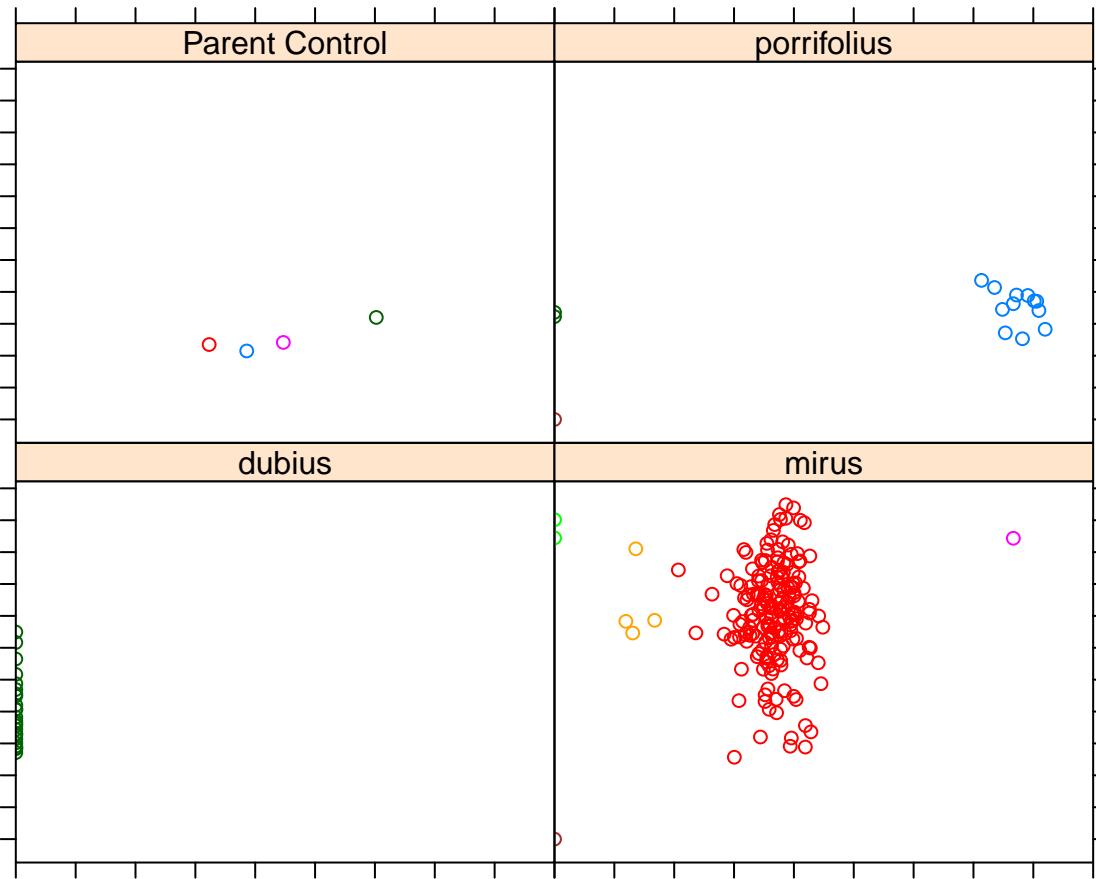
mirus

100
90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)

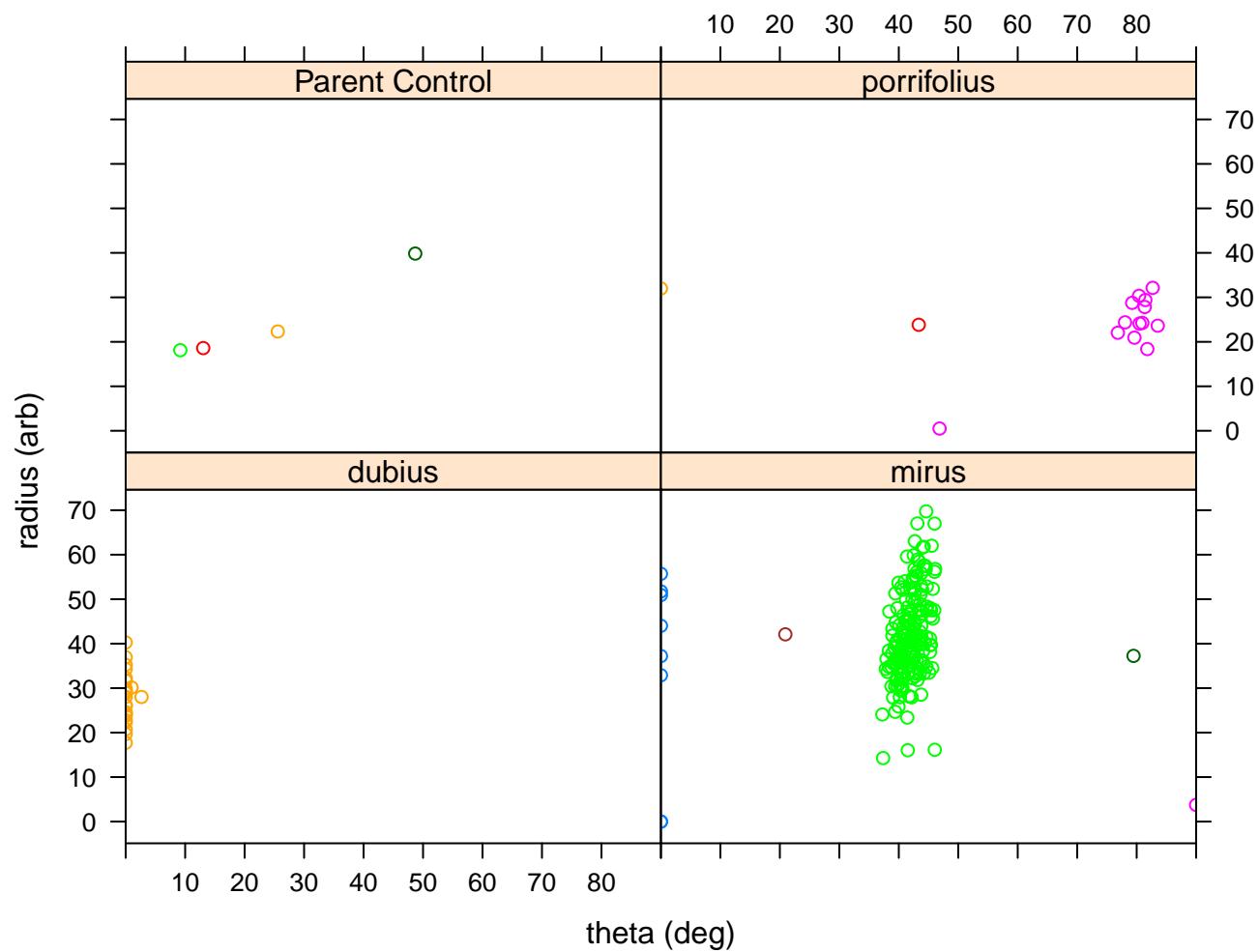
radius (arb)



V_2_5_isotig12159_51 gDNA

Call

Bad_Spectrum	○	LLLL	○
HH	○	No_Alleles	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		

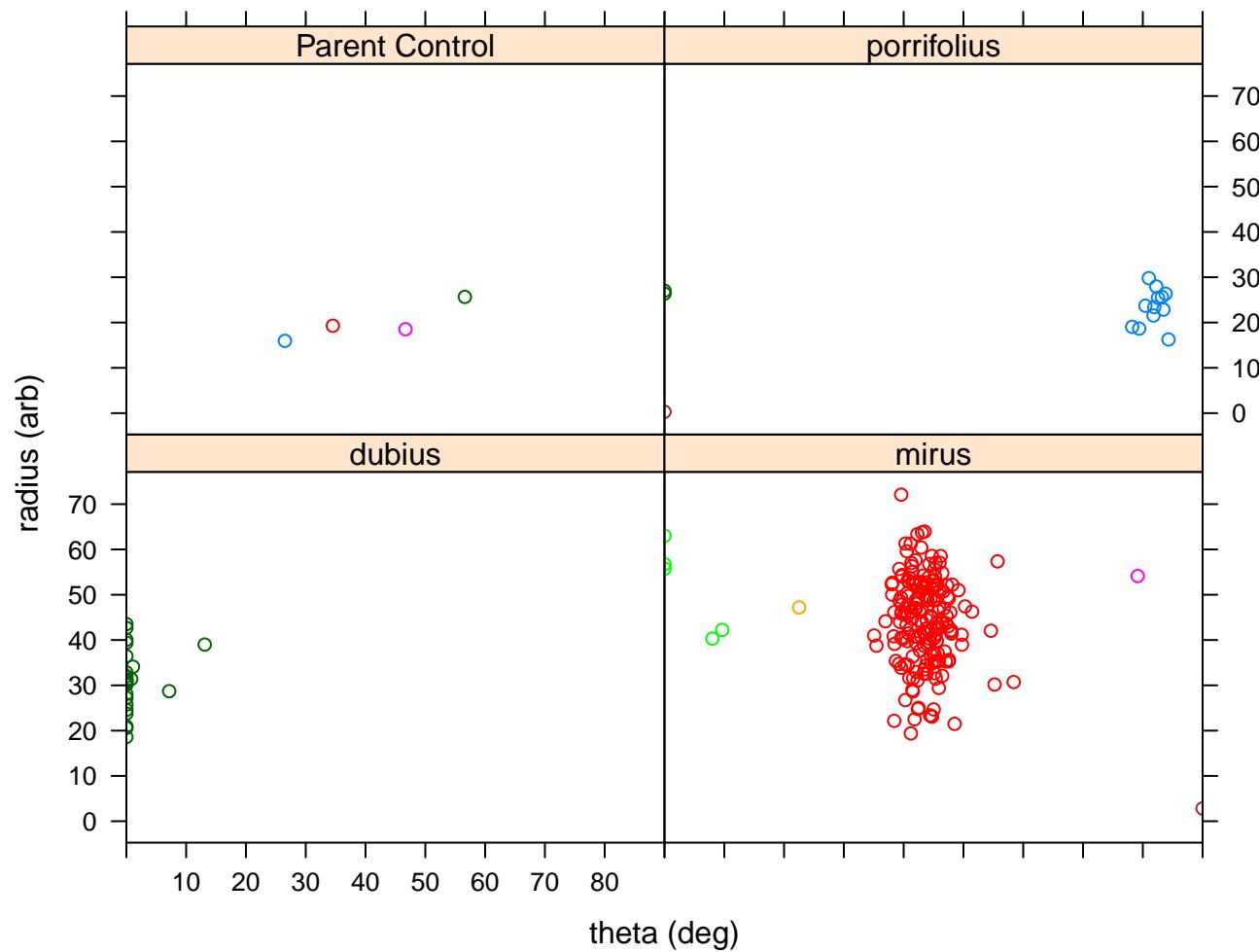


V_2_5_isotig12159_51 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○
LLLL	○		

10 20 30 40 50 60 70 80



V_2_5_isotig12196_155 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

80
70
60
50
40
30
20
10

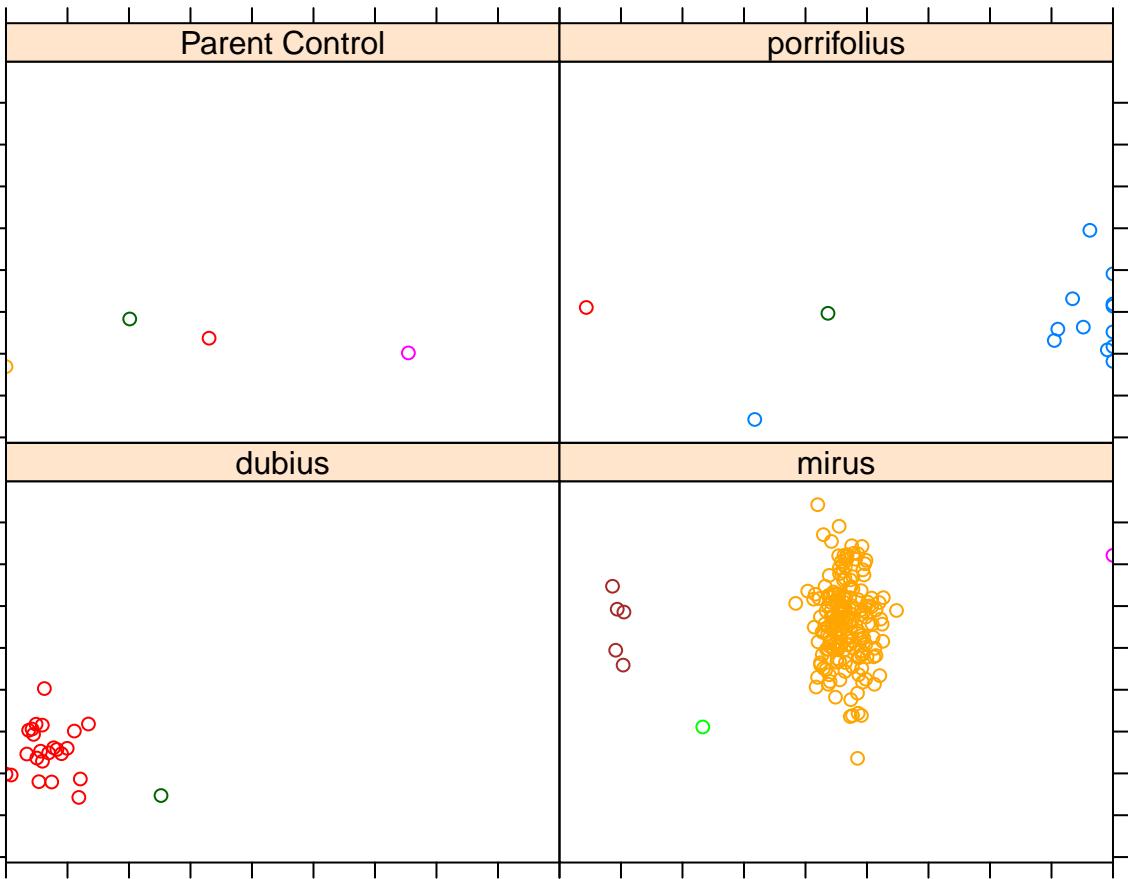
dubius

mirus

radius (arb)

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig12196_155 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

100
90
80
70
60
50
40
30
20
10

dubius

mirus

100
90
80
70
60
50
40
30
20
10

10 20 30 40 50 60 70 80

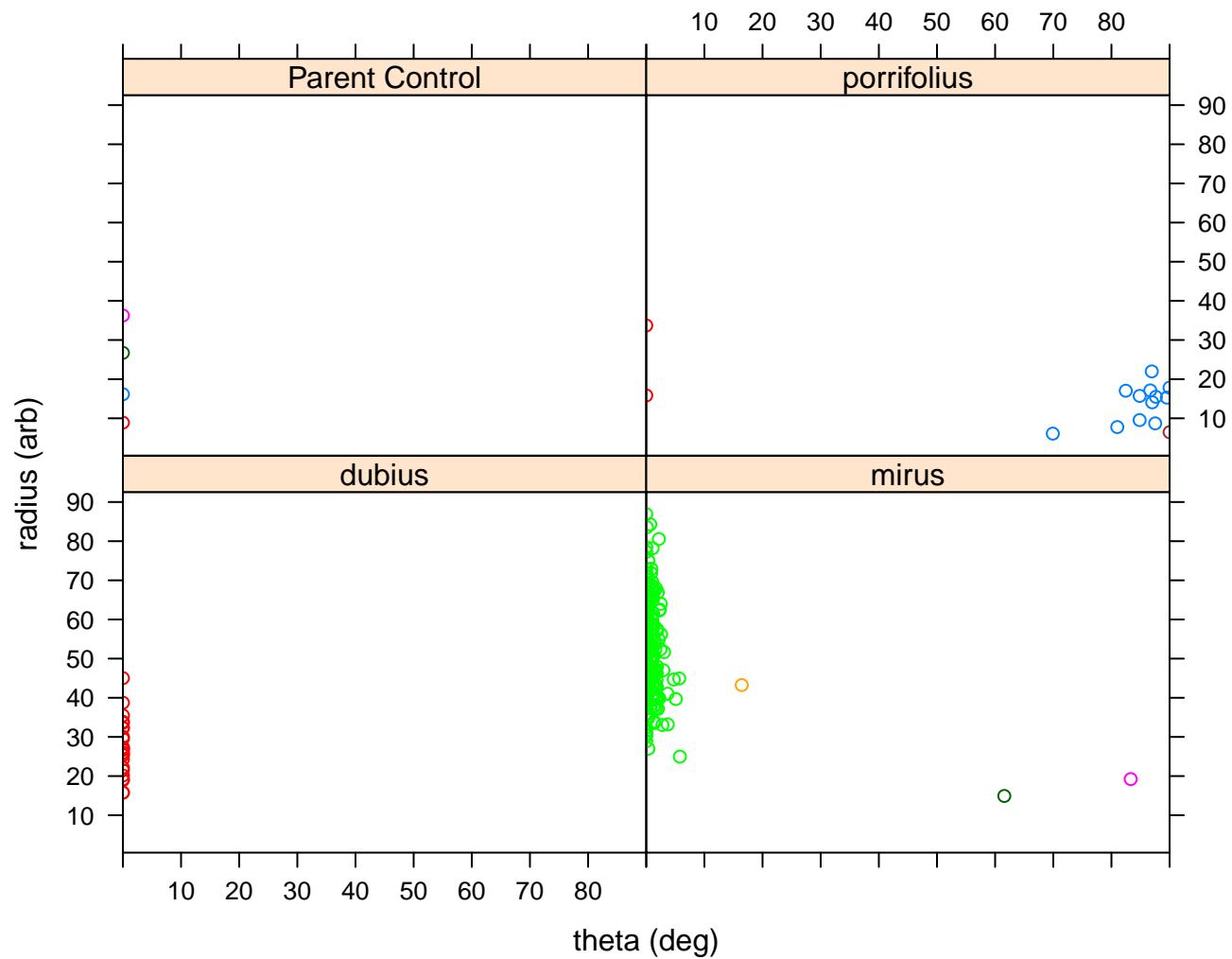
theta (deg)

radius (arb)

V_2_5_isotig12226_772 gDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLLH	○	PM2_2_1	○
LLLL	○		

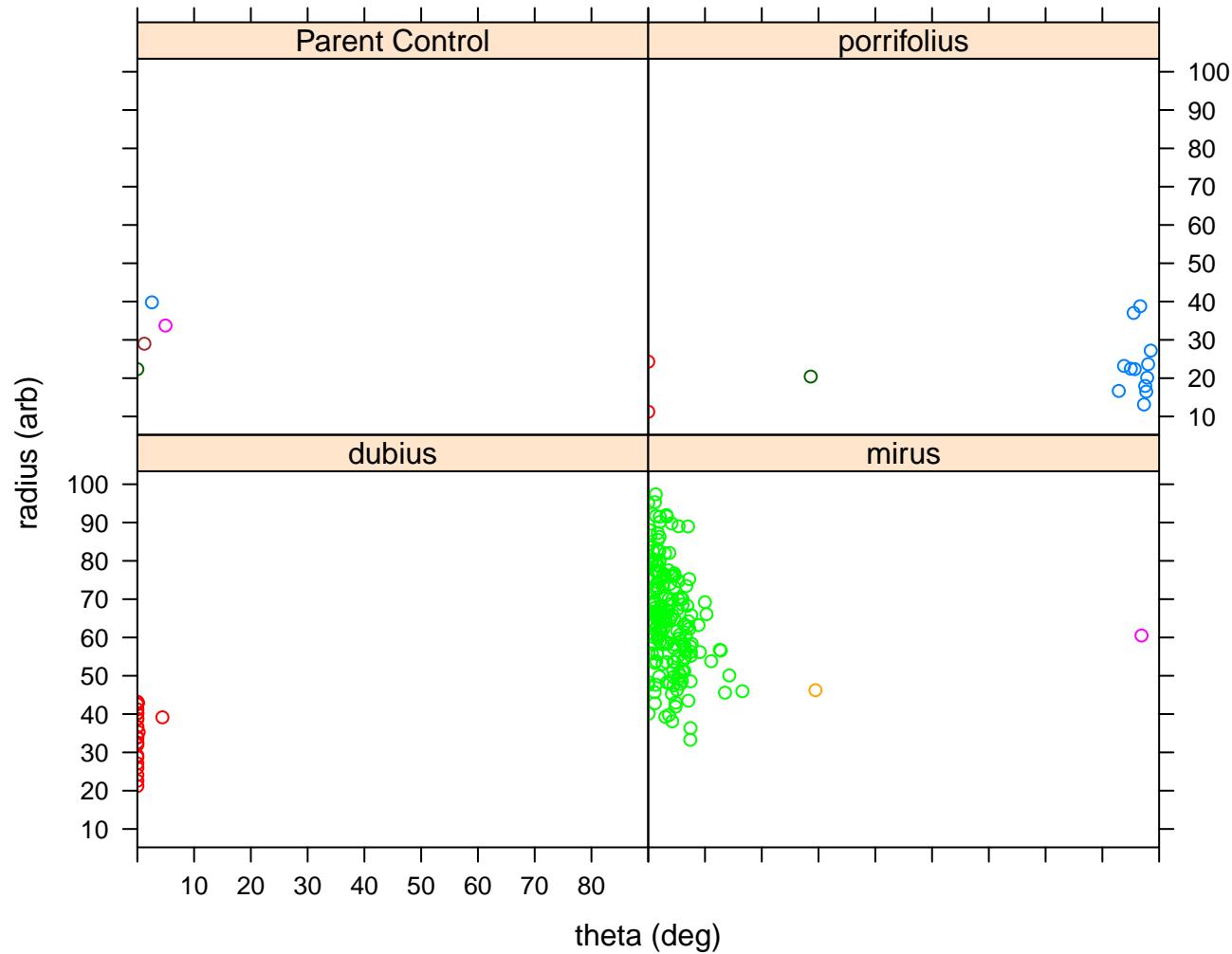


V_2_5_isotig12226_772 cDNA

Call

HH	○	LLLL	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

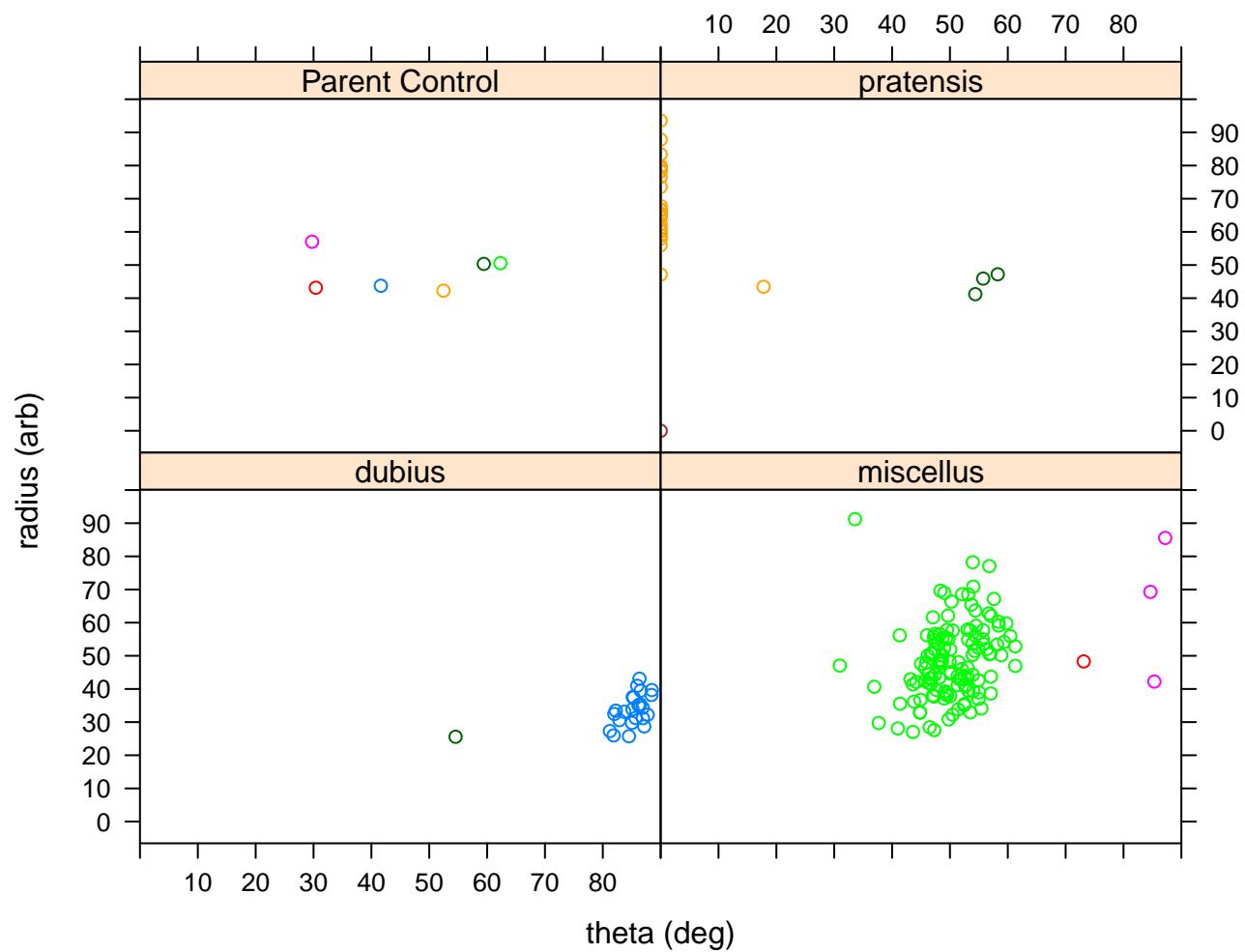
10 20 30 40 50 60 70 80



V_2_5_isotig12246_101 cDNA

Call

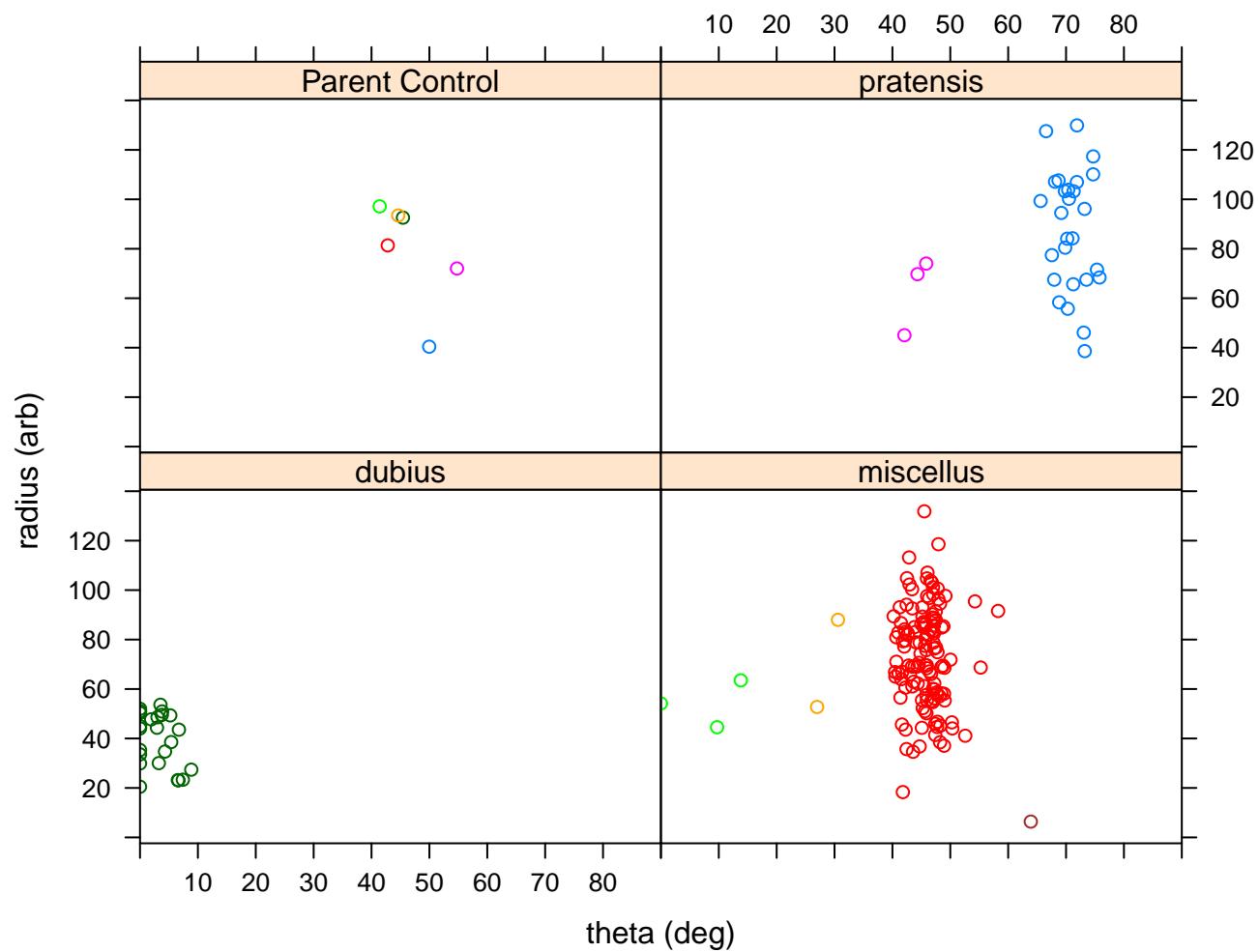
HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LHHH	○	PM4	○
LL	○	PM5	○
LLHH	○	PM6	○
No_Alleles	○		



V_2_5_isotig12246_170 gDNA

Call

HH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LL	○	PM3_2_1	○
LLHH	○	PM4	○
LLLH	○	PM5	○
LLLL	○	PM6	○
No_Alleles	○		



V_2_5_isotig12246_392 cDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
No_Alleles	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

radius (arb)

120
100
80
60
40
20
0

dubius

miscellus

120
100
80
60
40
20
0

10 20 30 40 50 60 70 80

theta (deg)

120
100
80
60
40
20
0

V_2_5_isotig12246_61 gDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

30
25
20
15
10
5
0

dubius

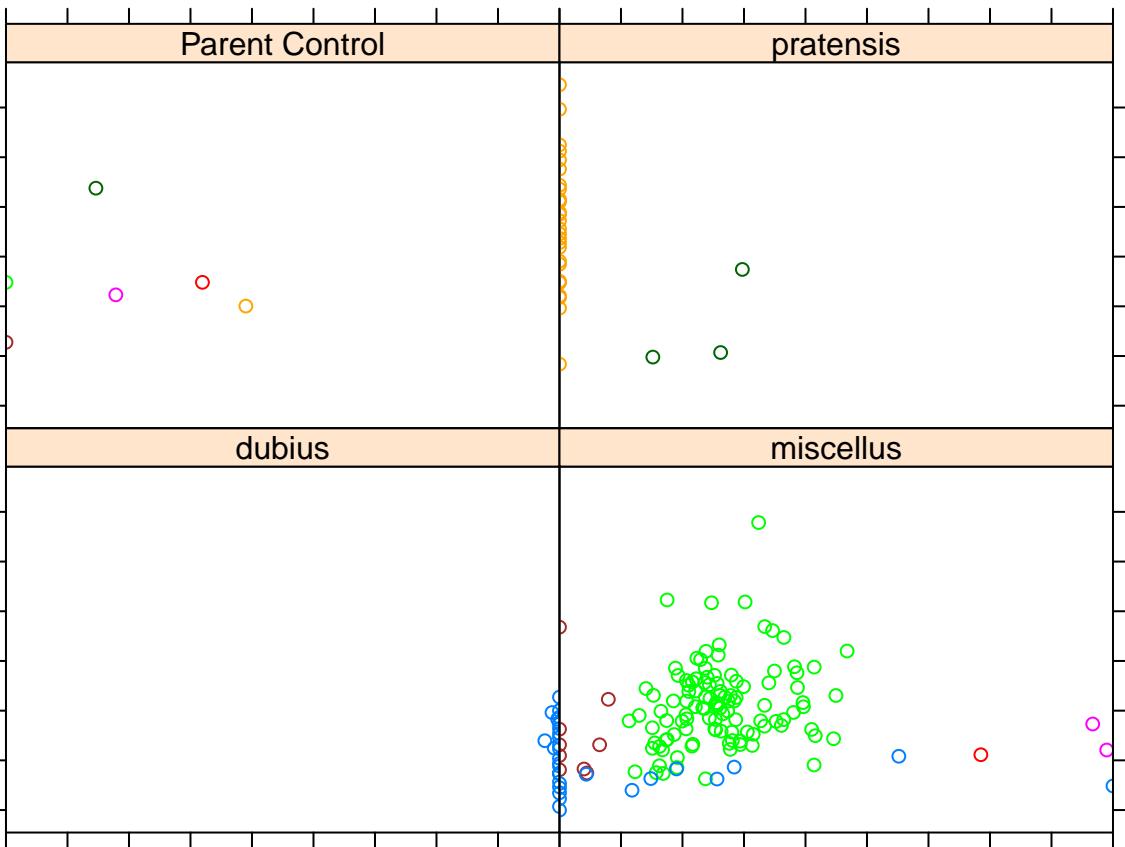
miscellus

radius (arb)

30
25
20
15
10
5
0

10 20 30 40 50 60 70 80

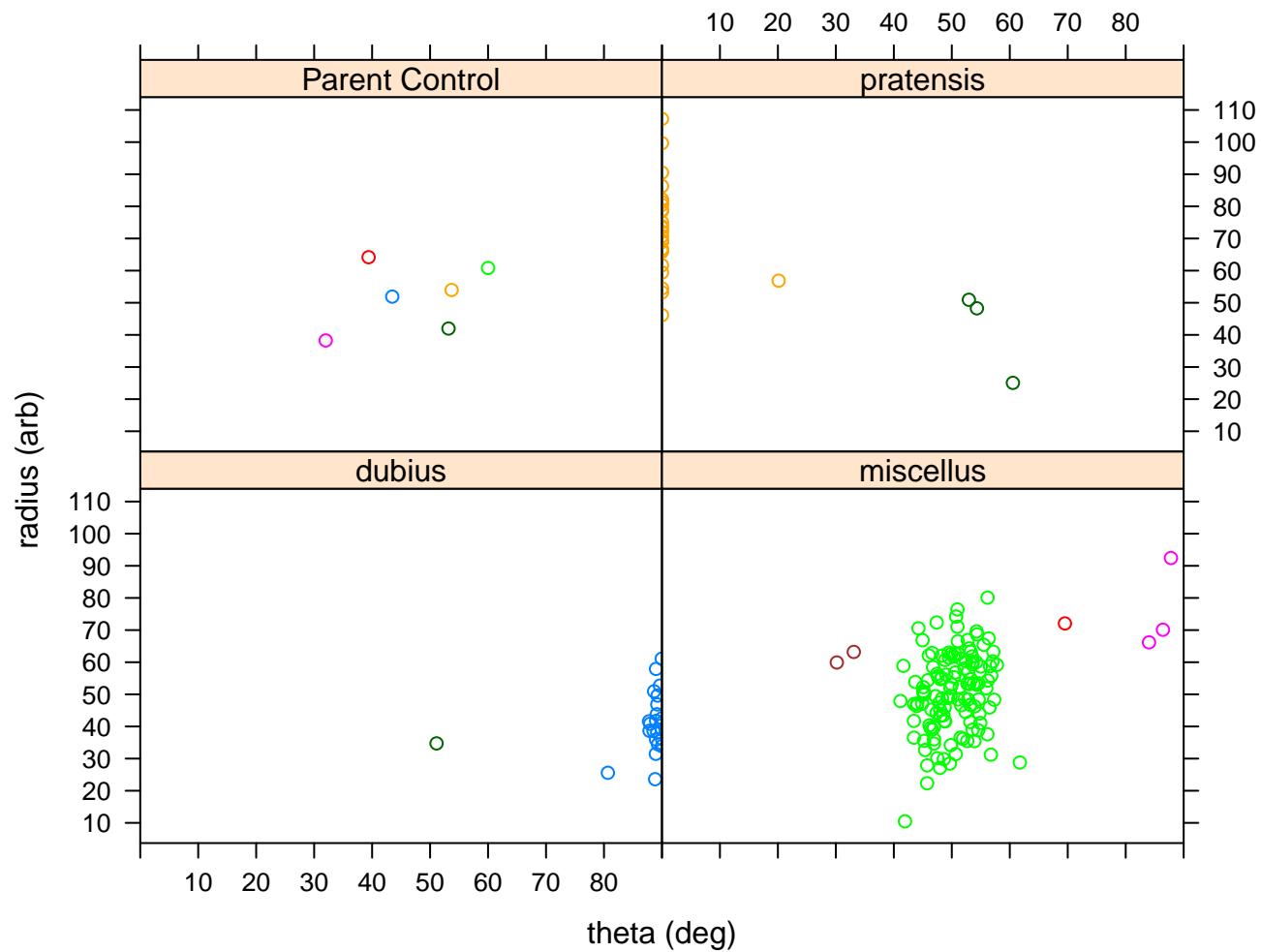
theta (deg)



V_2_5_isotig12246_61 cDNA

Call

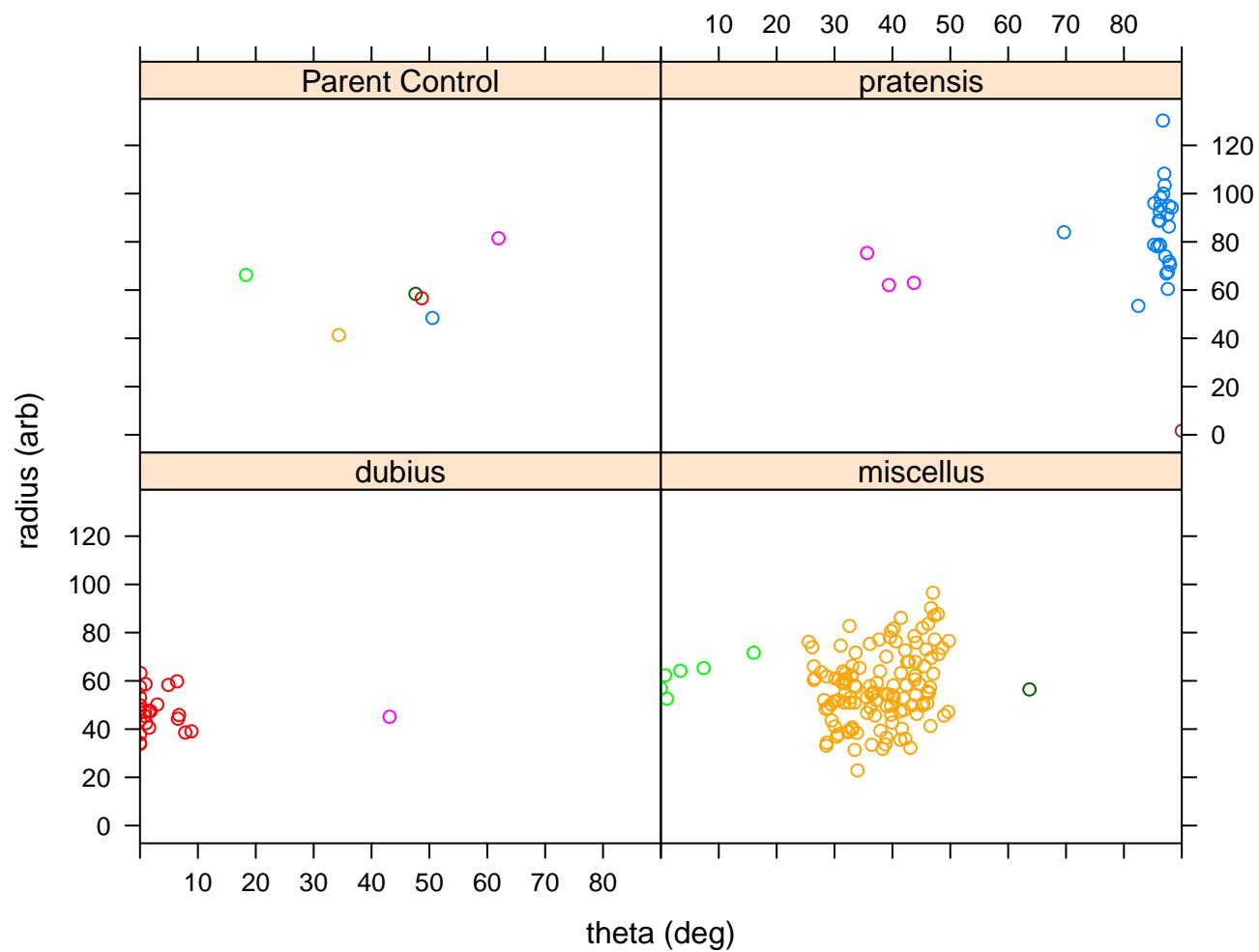
HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LHHH	○	PM4	○
LL	○	PM5	○
LLHH	○	PM6	○
LLLH	○		



V_2_5_isotig12246_88 cDNA

Call

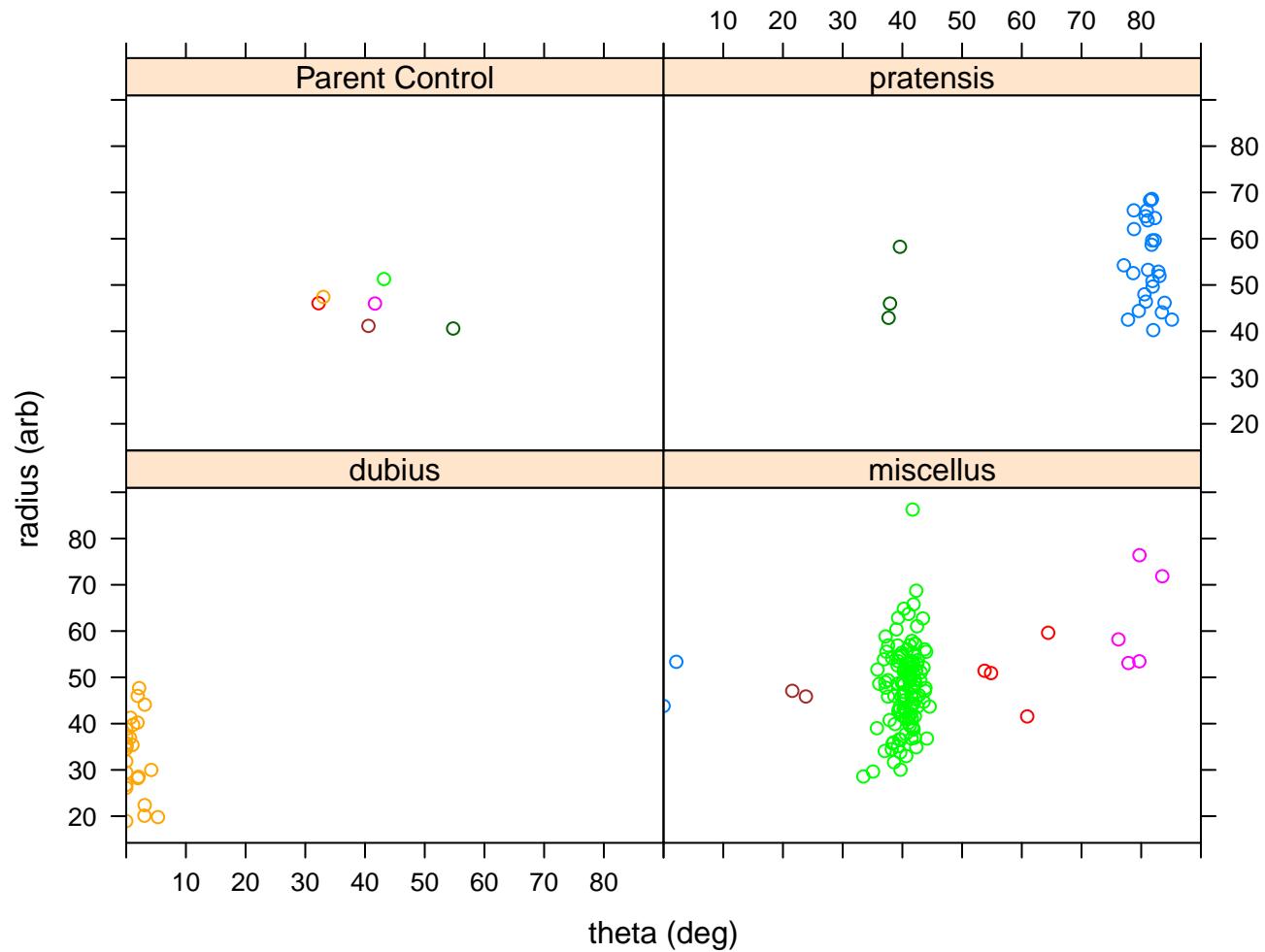
HH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○
No_Alleles	○		



V_2_5_isotig12440_623 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○



V_2_5_isotig12467_479 gDNA

Call

HH	○	LLLH	○
HHHH	○	LLLL	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

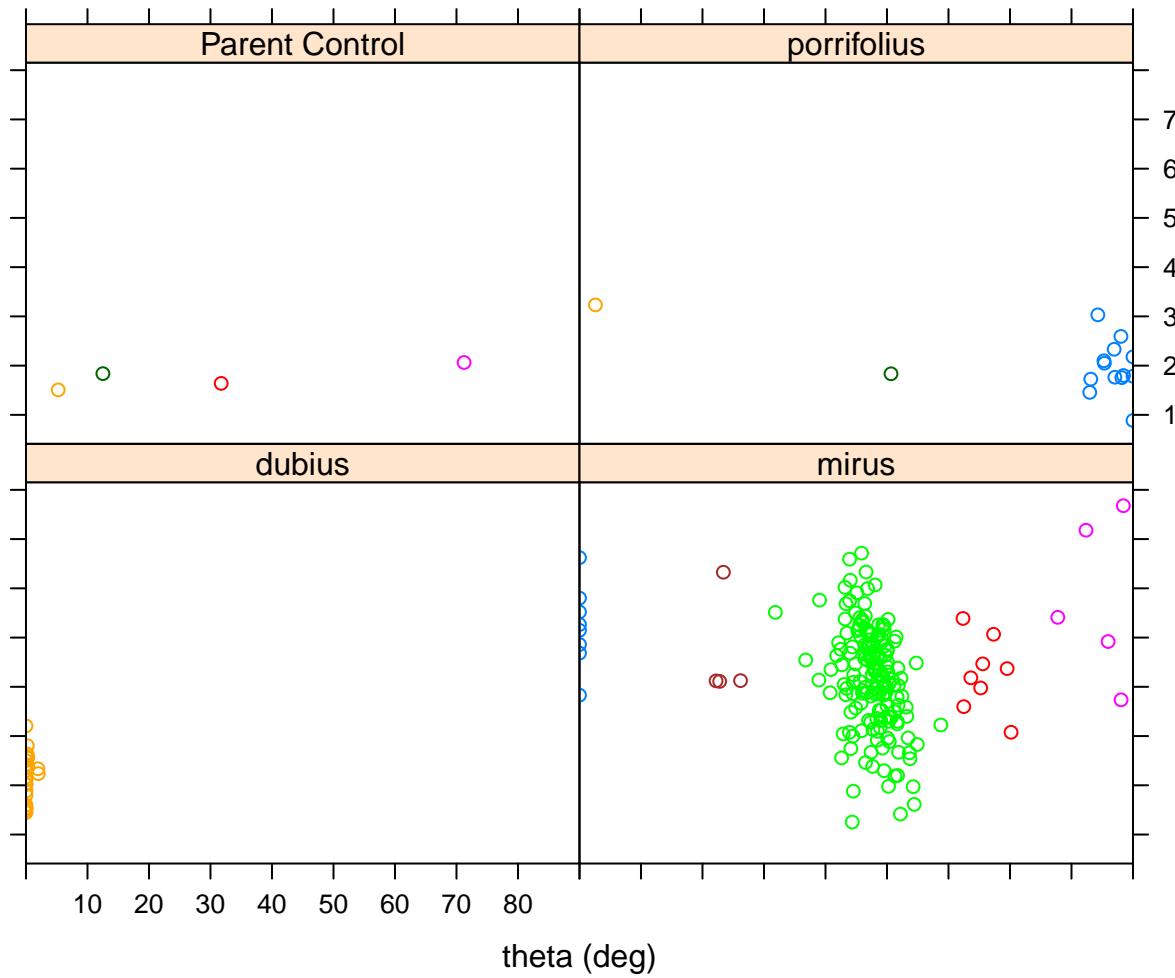
Parent Control

porrifolius

radius (arb)

dubius

mirus



theta (deg)

V_2_5_isotig12467_479 cDNA

Call

HH	○	LLLL	○
HHHH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		

10 20 30 40 50 60 70 80

Parent Control

porrifolius

90
80
70
60
50
40
30
20
10

dubius

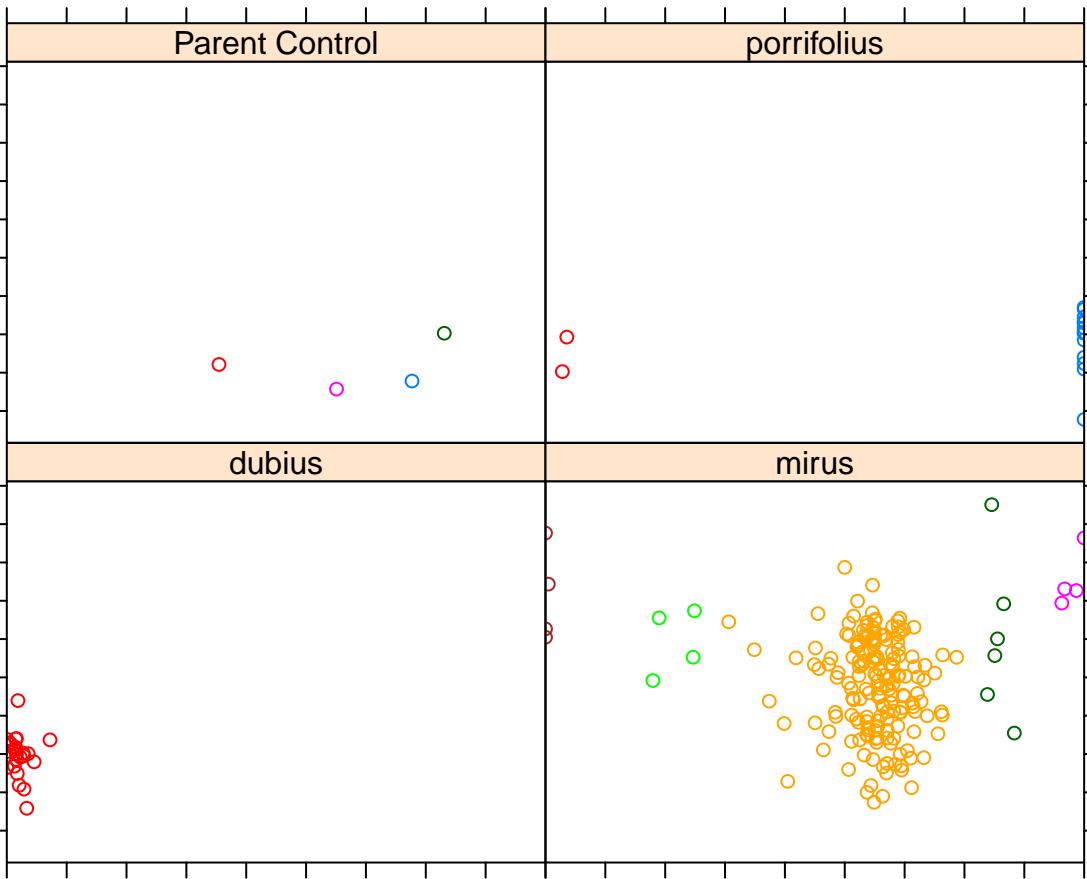
mirus

90
80
70
60
50
40
30
20
10

radius (arb)

10 20 30 40 50 60 70 80

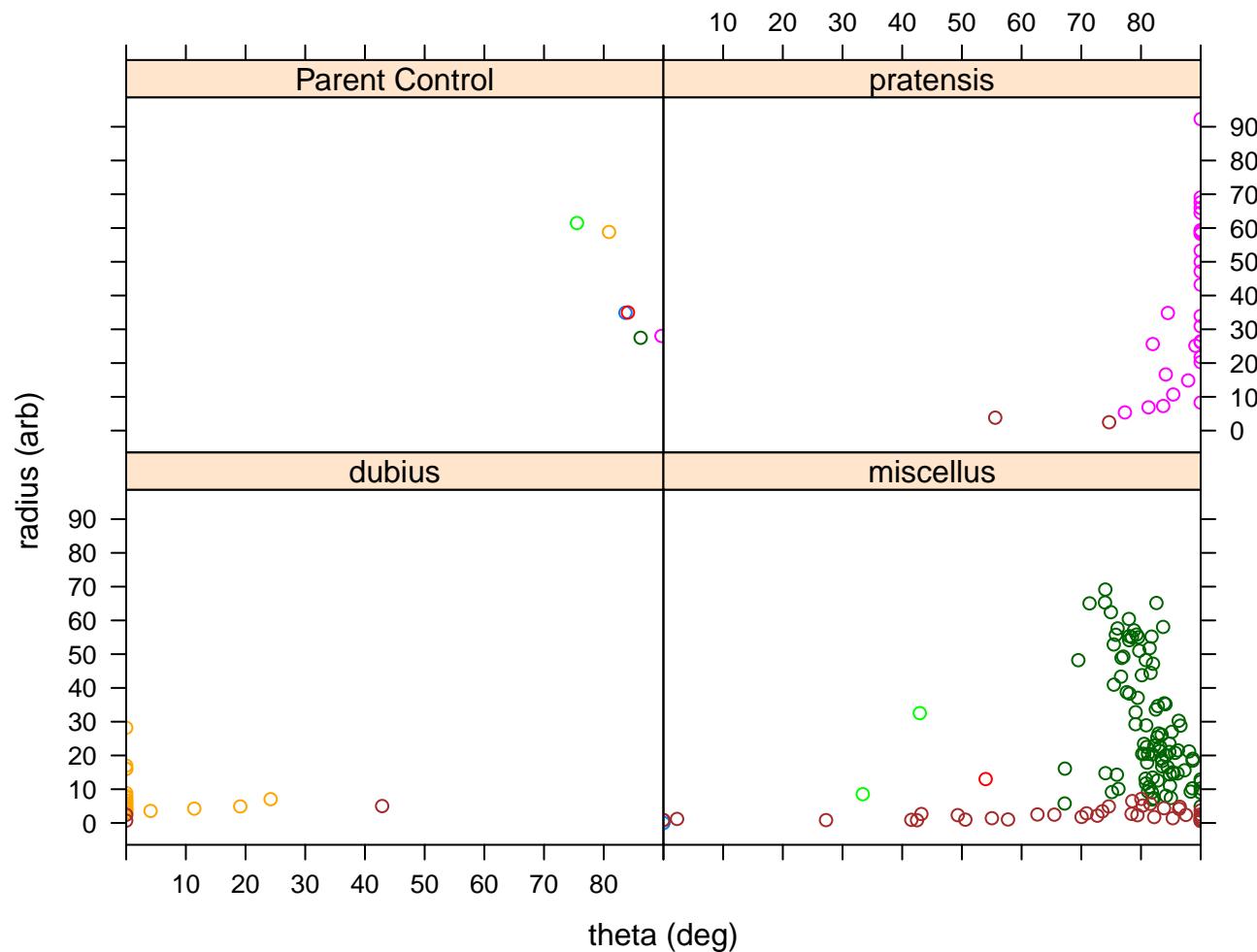
theta (deg)



V_2_5_isotig12487_135 gDNA

Call

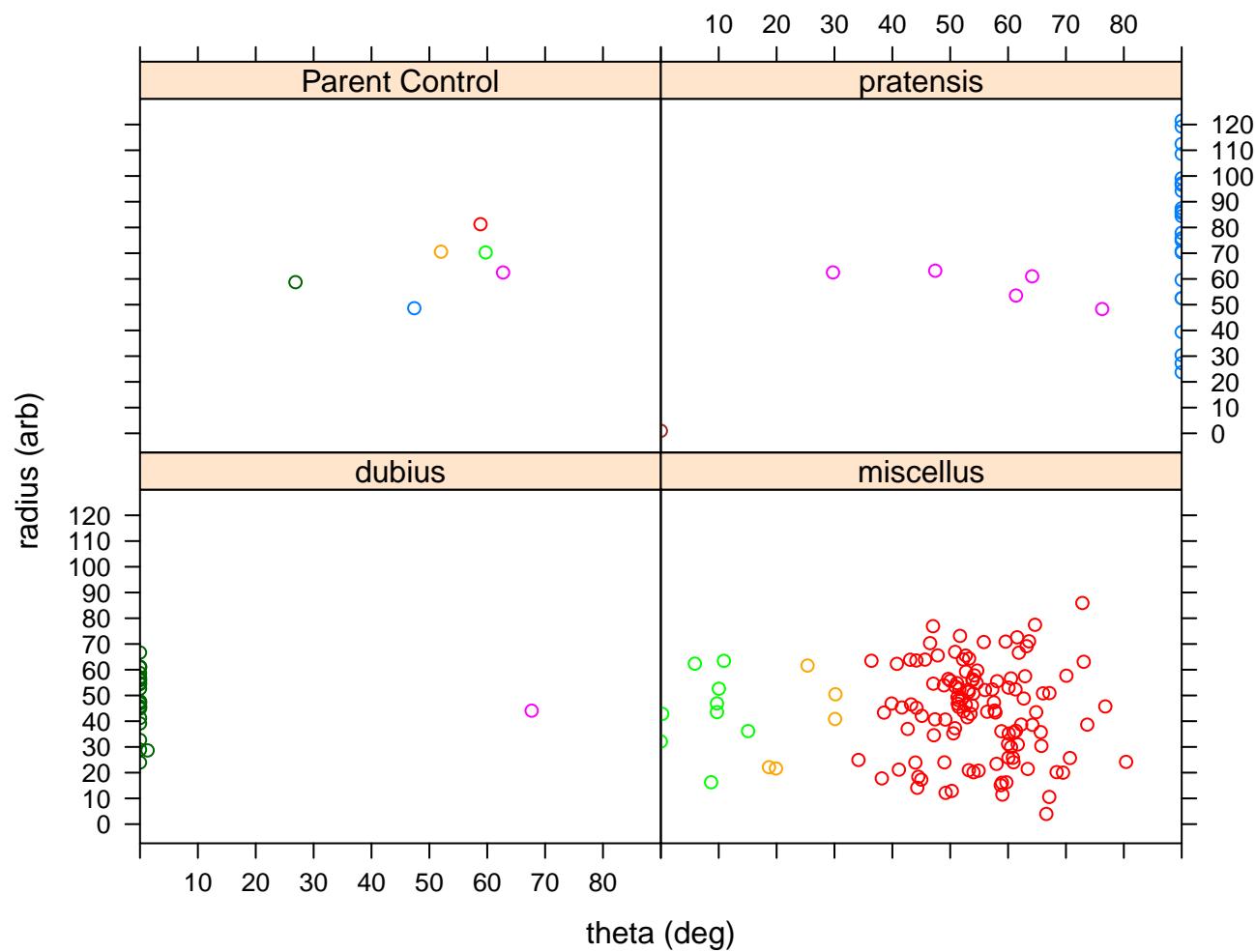
Bad_Spectrum	○	PM3_1_1	○
HH	○	PM3_1_2	○
HHHH	○	PM3_2_1	○
LHHH	○	PM4	○
LL	○	PM5	○
LLHH	○	PM6	○
No_Alleles	○		



V_2_5_isotig12487_135 cDNA

Call

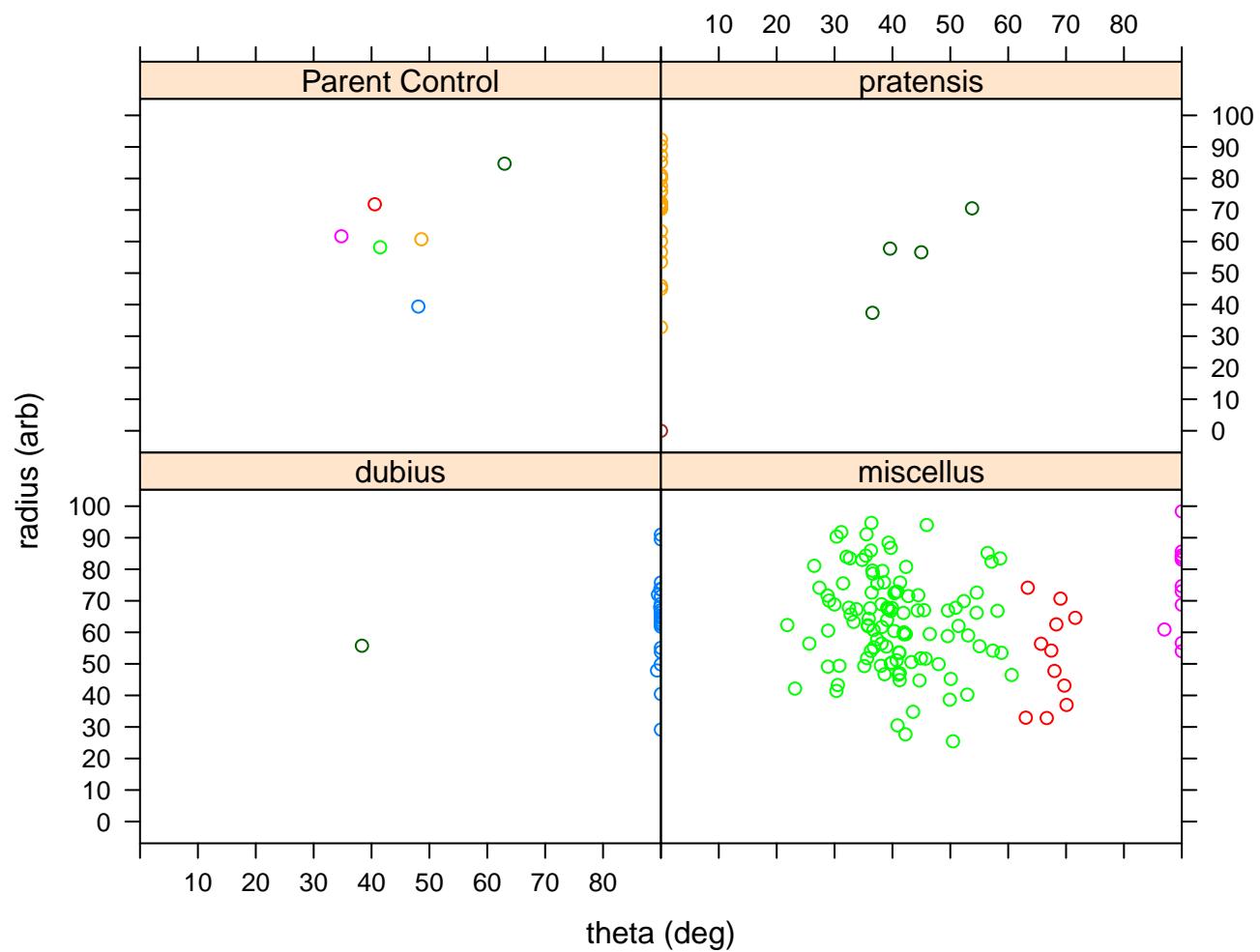
HH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LL	○	PM3_2_1	○
LLHH	○	PM4	○
LLLH	○	PM5	○
LLLL	○	PM6	○
No_Alleles	○		



V_2_5_isotig12487_264 cDNA

Call

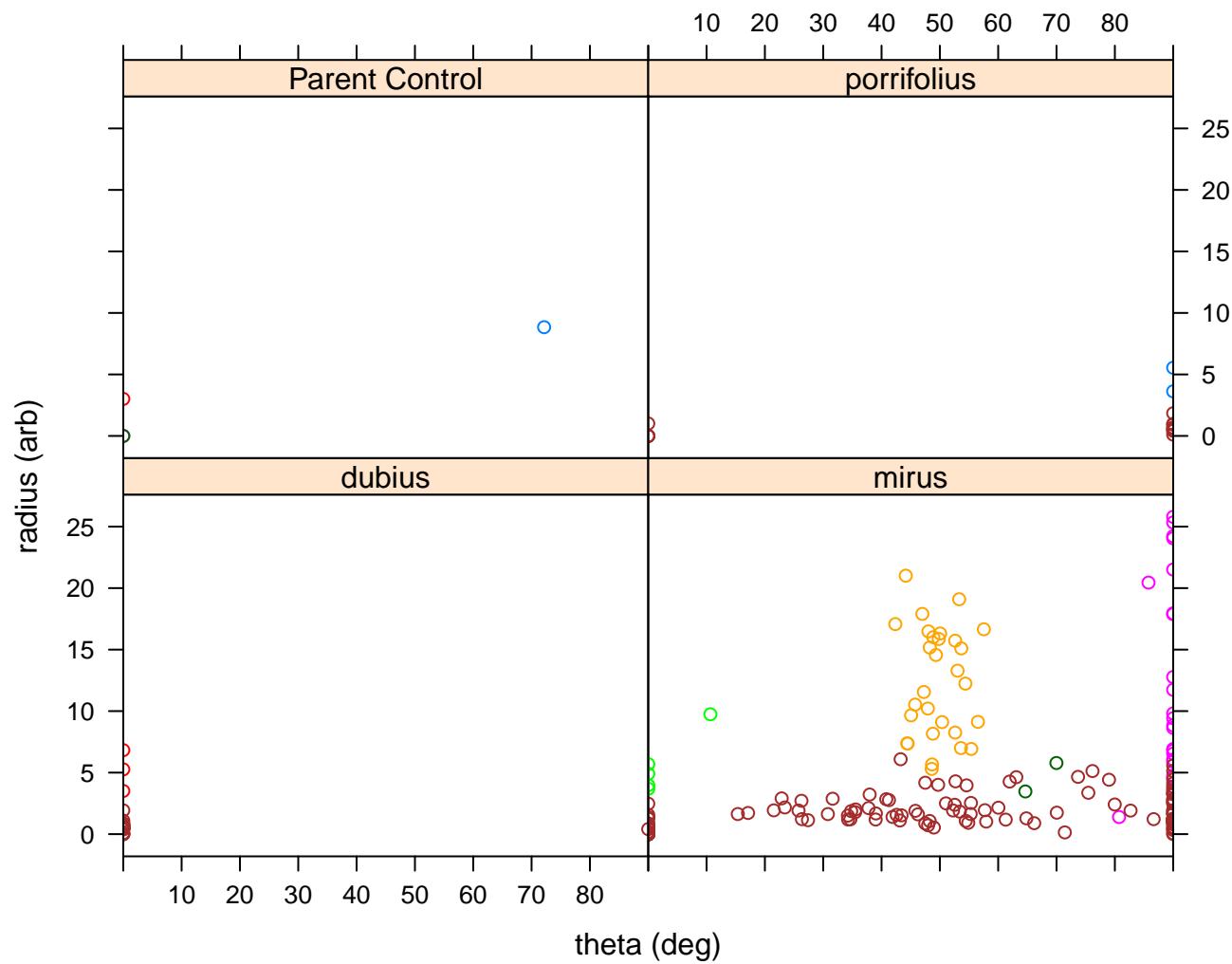
HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LHHH	○	PM4	○
LL	○	PM5	○
LLHH	○	PM6	○
No_Alleles	○		



V_2_5_isotig12502_313 gDNA

Call

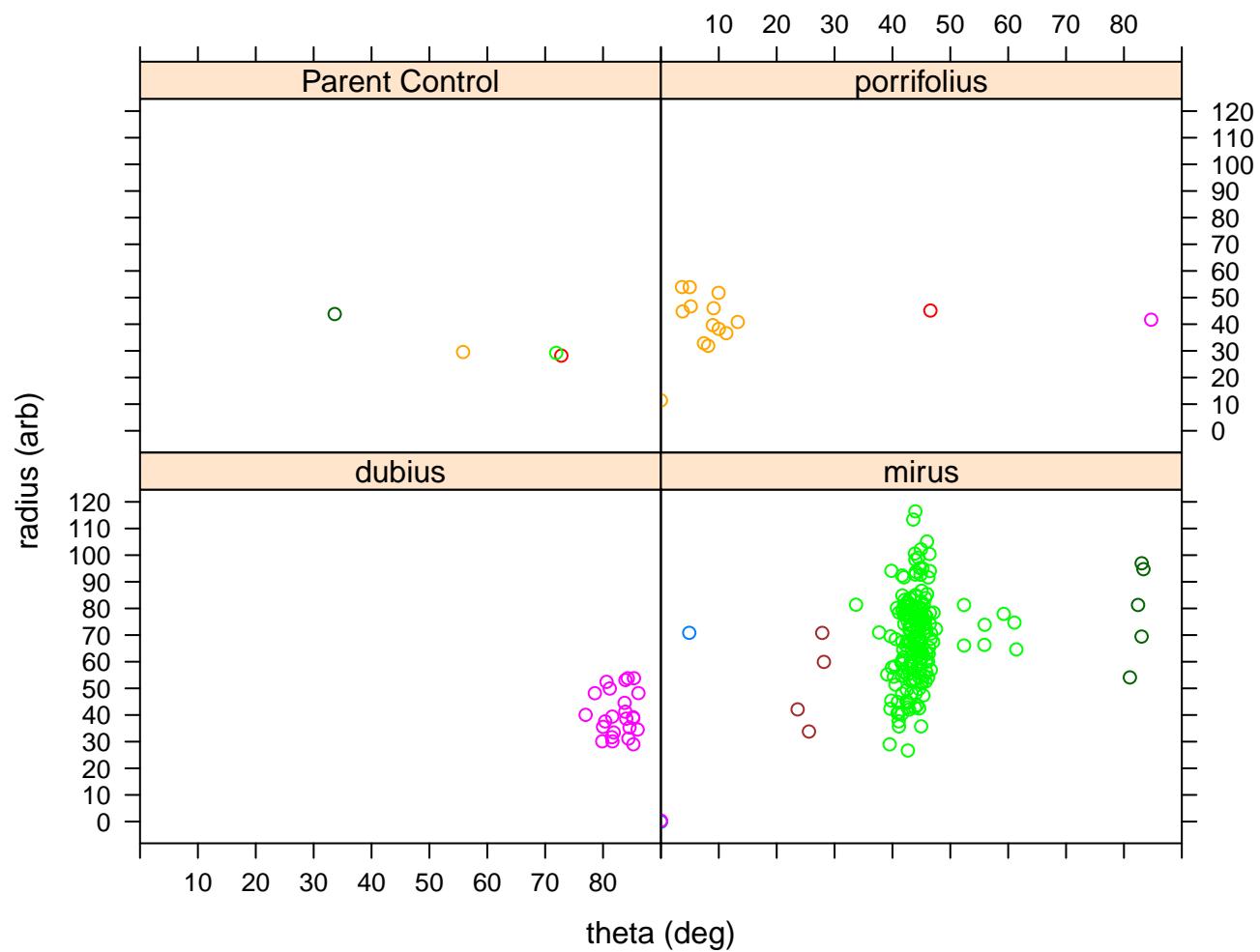
HH	○	No_Aleles
HHHH	○	PM1
LHHH	○	PM2_1_1
LL	○	PM2_1_2
LLHH	○	PM2_2_1
	○	



V_2_5_isotig12506_108 gDNA

Call

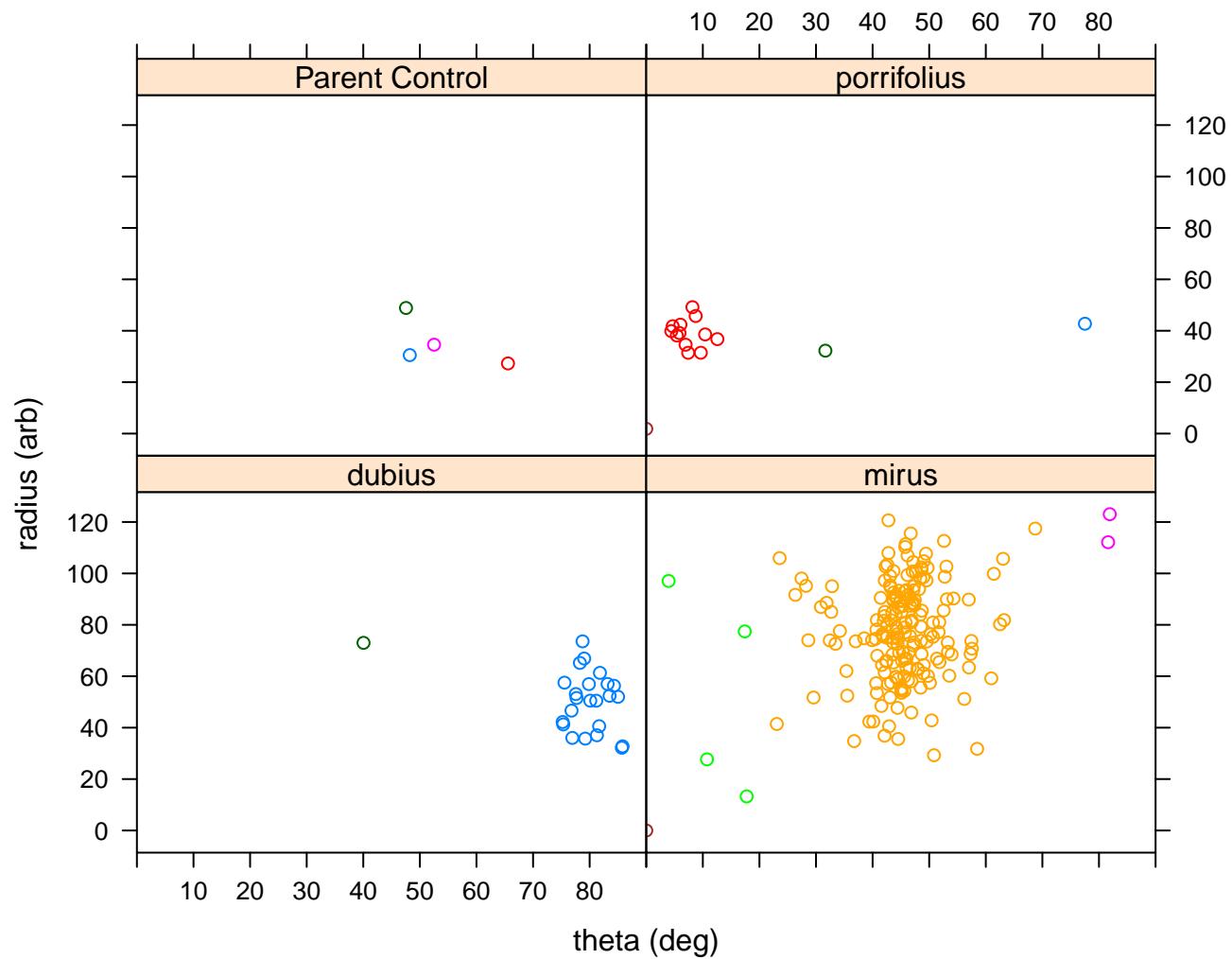
Bad_Spectrum	○	LLLL	○
HH	○	No_Alleles	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig12506_108 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLL	○		



V_2_5_isotig12510_167 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

110
100
90
80
70
60
50
40
30
20
10
0

dubius

mirus

110
100
90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

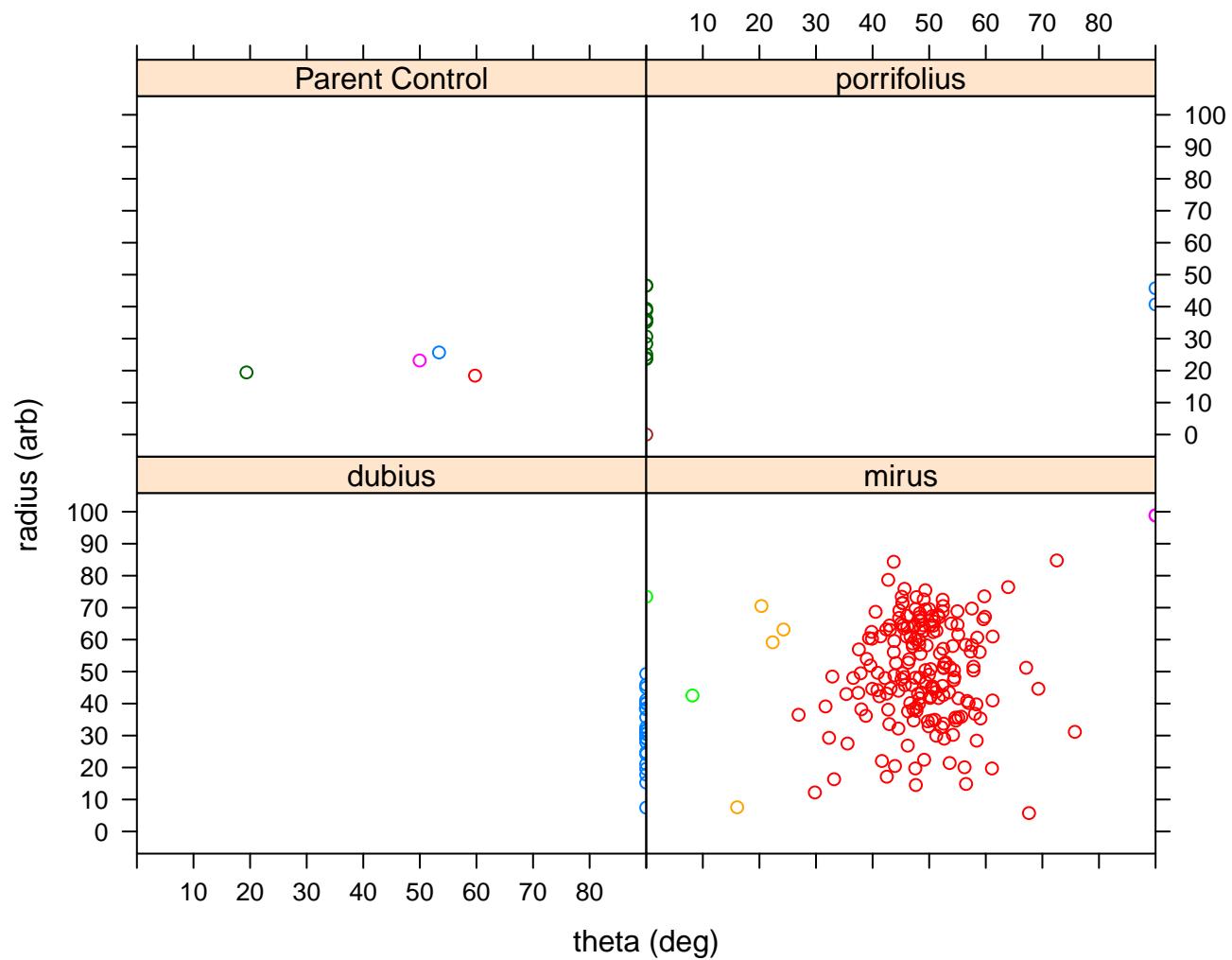
theta (deg)

radius (arb)

V_2_5_isotig12510_167 cDNA

Call

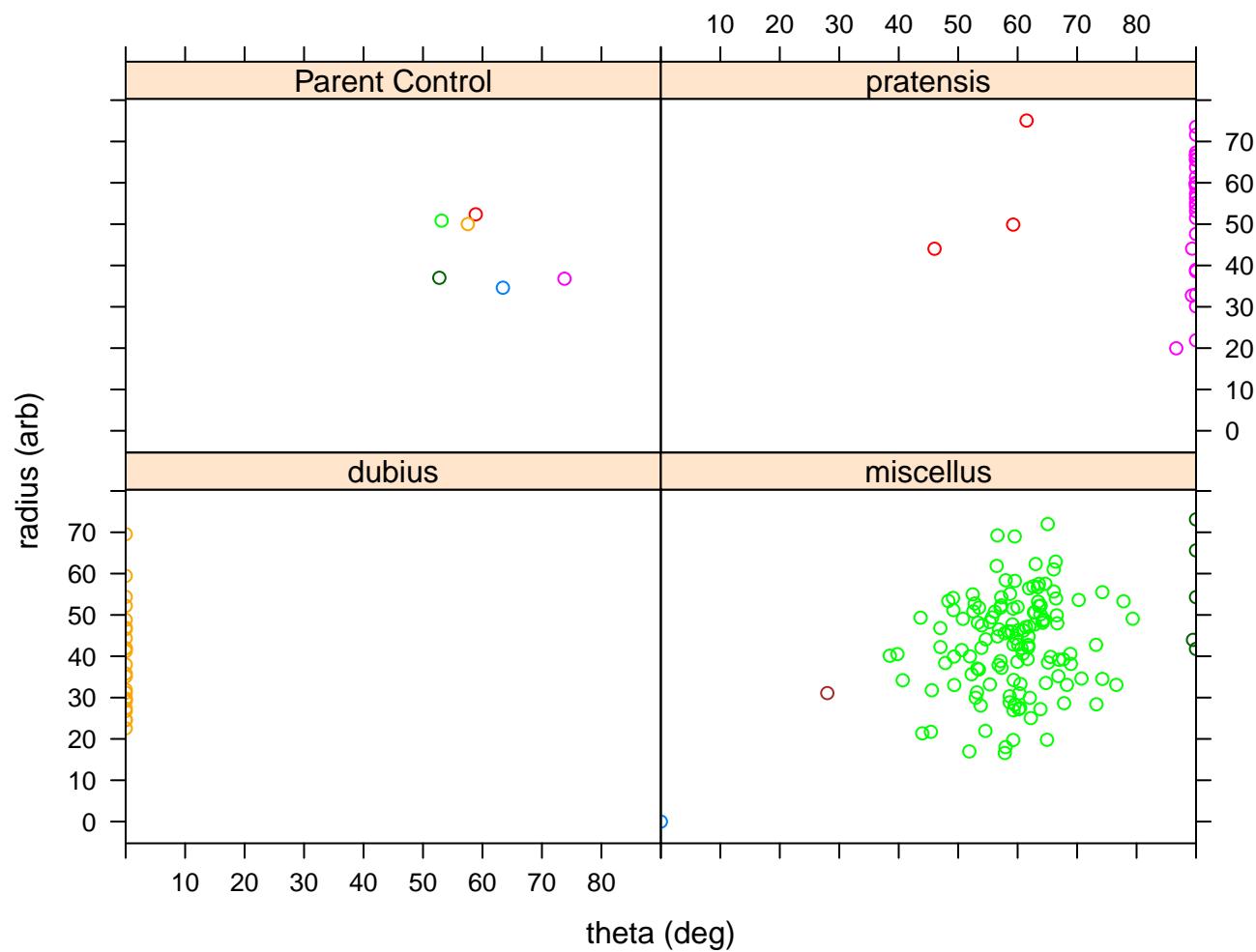
HH	○	No_Aleles	○
HHHH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○
LLLL	○		



V_2_5_isotig12521_336 gDNA

Call

Bad_Spectrum	○	PM3_1_1	○
HH	○	PM3_1_2	○
HHHH	○	PM3_2_1	○
LH	○	PM4	○
LL	○	PM5	○
LLHH	○	PM6	○
LLLH	○		



V_2_5_isotig12521_336 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

radius (arb)

80
70
60
50
40
30
20
10
0

dubius

miscellus

80
70
60
50
40
30
20
10
0

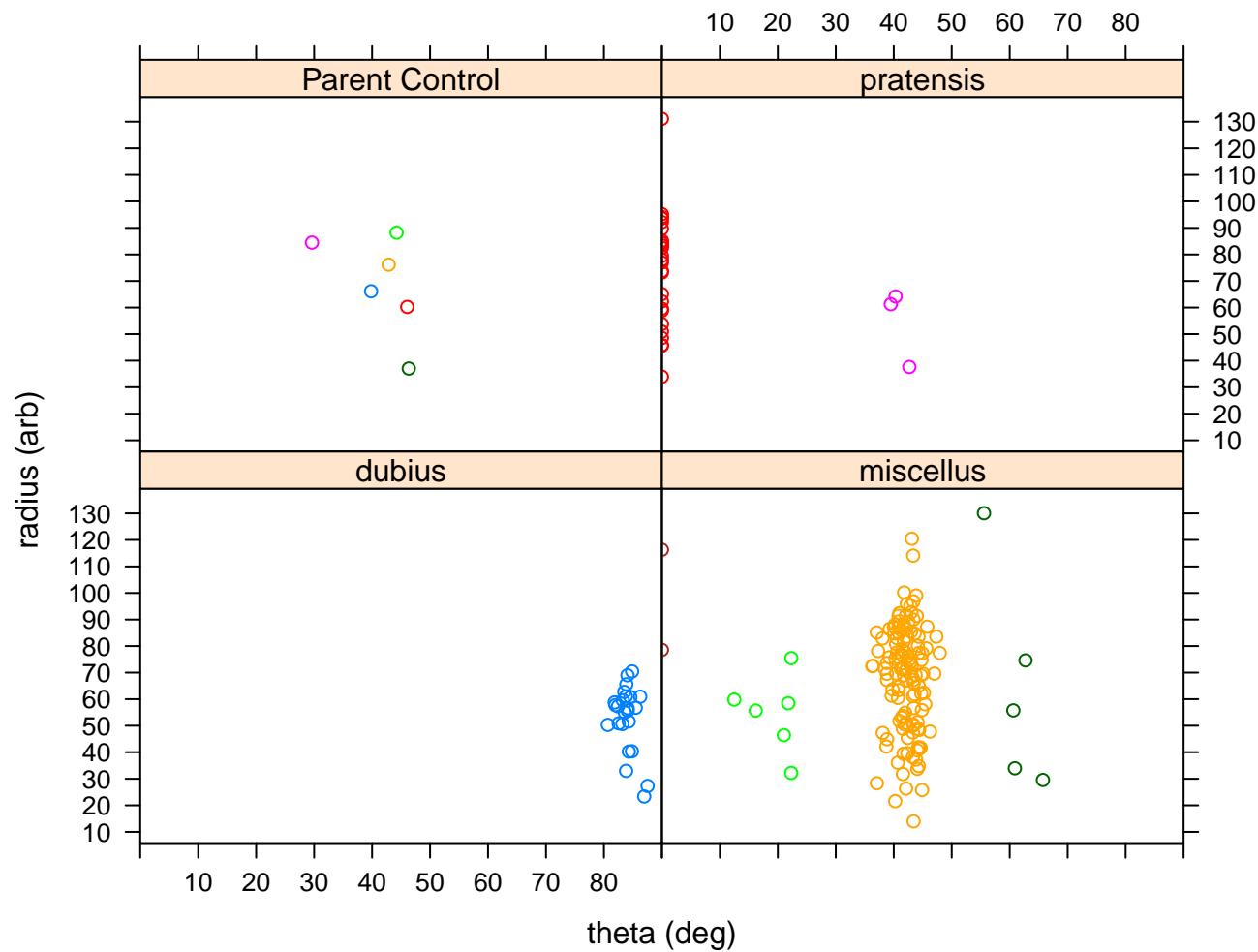
10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig12540_479 gDNA

Call

HH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		



V_2_5_isotig12540_479 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

140
120
100
80
60
40
20
0

dubius

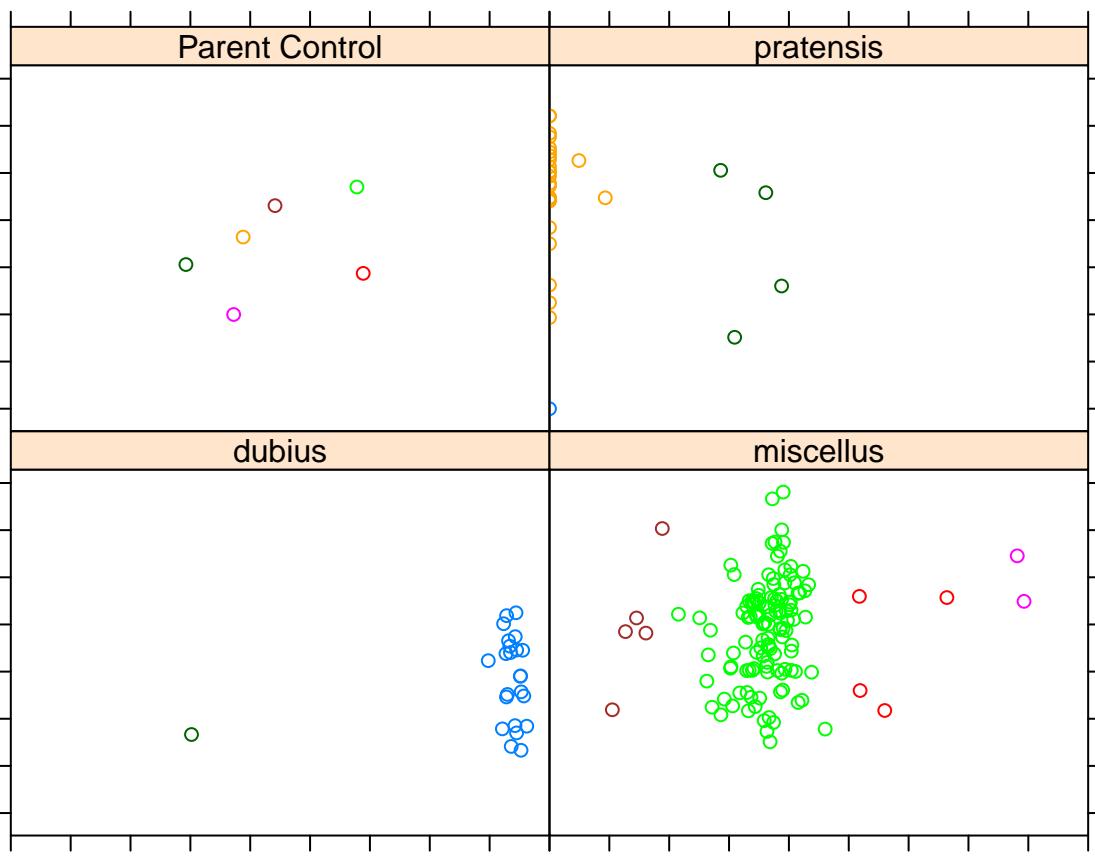
miscellus

140
120
100
80
60
40
20
0

10 20 30 40 50 60 70 80

theta (deg)

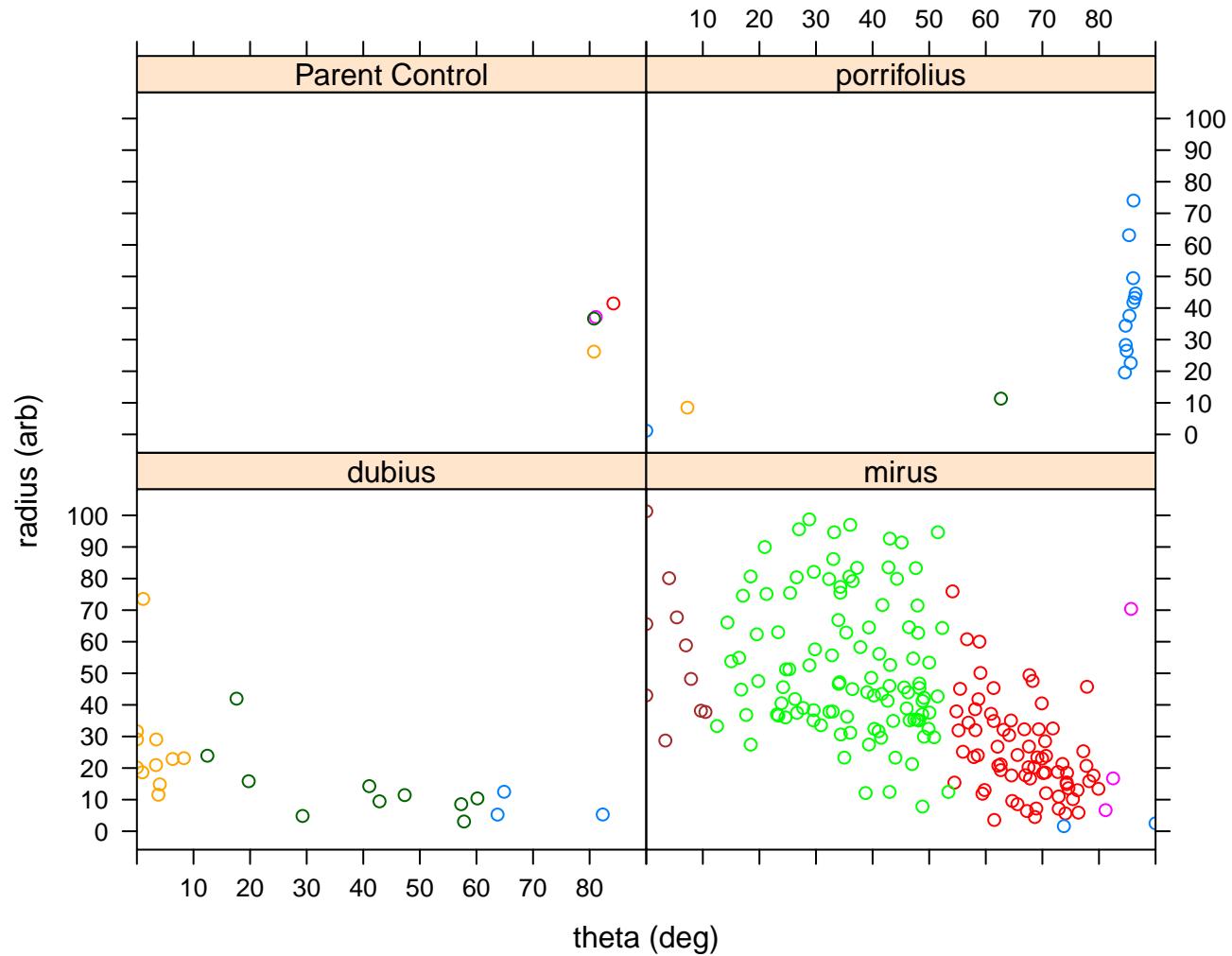
radius (arb)



V_2_5_isotig12558_159 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○



V_2_5_isotig12558_268 cDNA

Call

Bad_Spectrum	○	LLLL	○
HH	○	No_Alleles	○
HHHH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

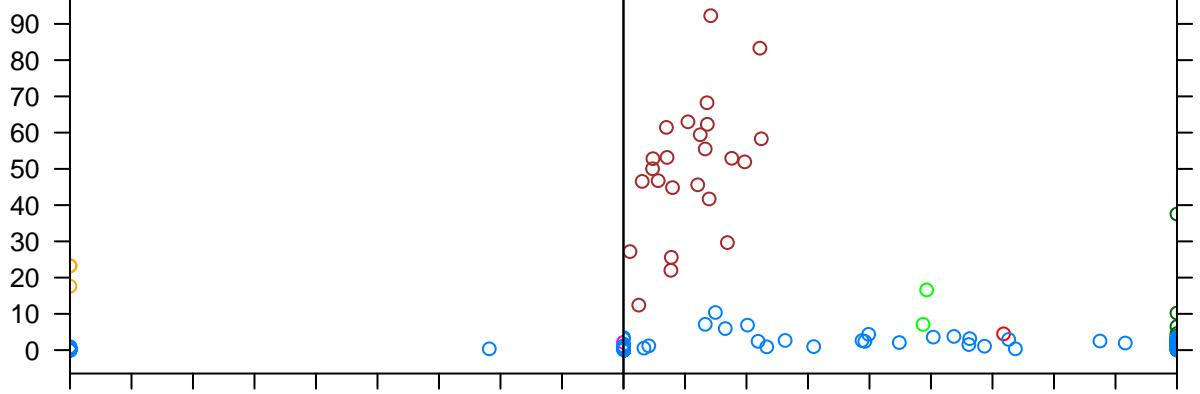
Parent Control

porrifolius

90
80
70
60
50
40
30
20
10
0

dubius

mirus



theta (deg)

V_2_5_isotig12558_424 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

100
90
80
70
60
50
40
30
20
10
0

dubius

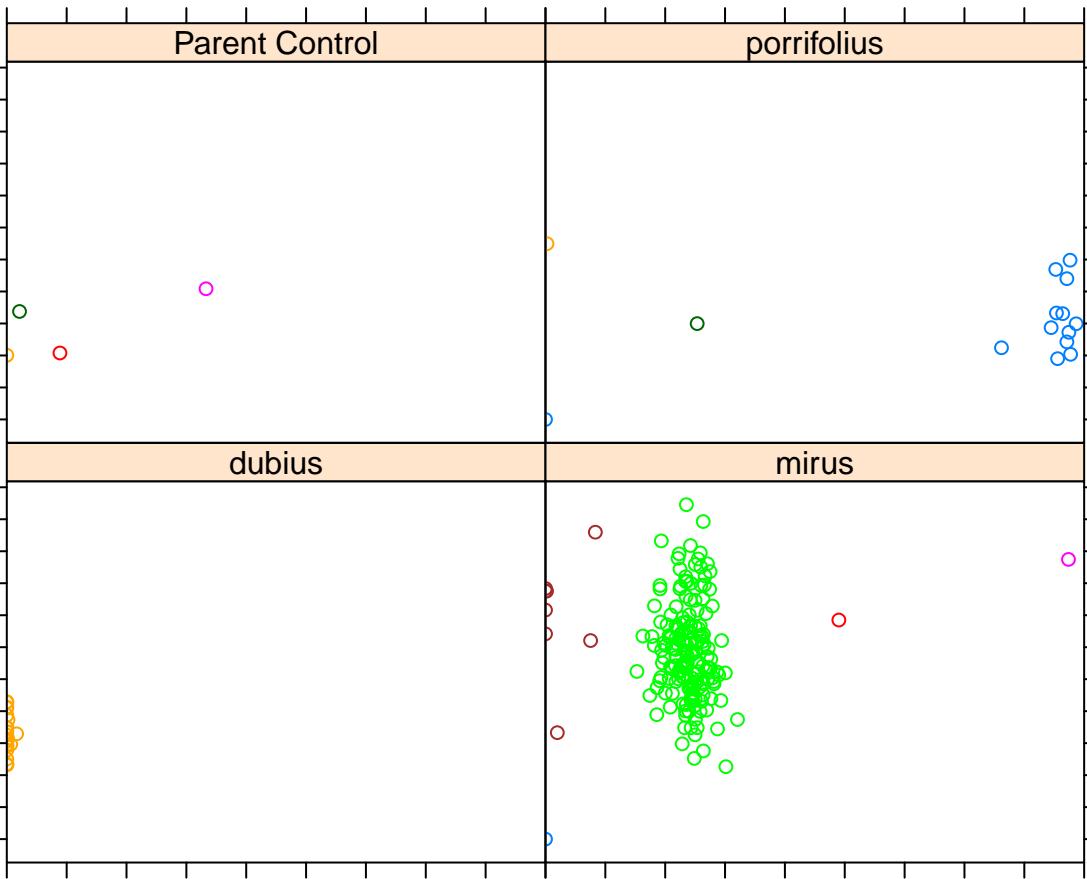
mirus

radius (arb)

100
90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig12558_424 cDNA

Call

HH	○	LLLL	○
HHHH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

120
110
100
90
80
70
60
50
40
30
20
10

dubius

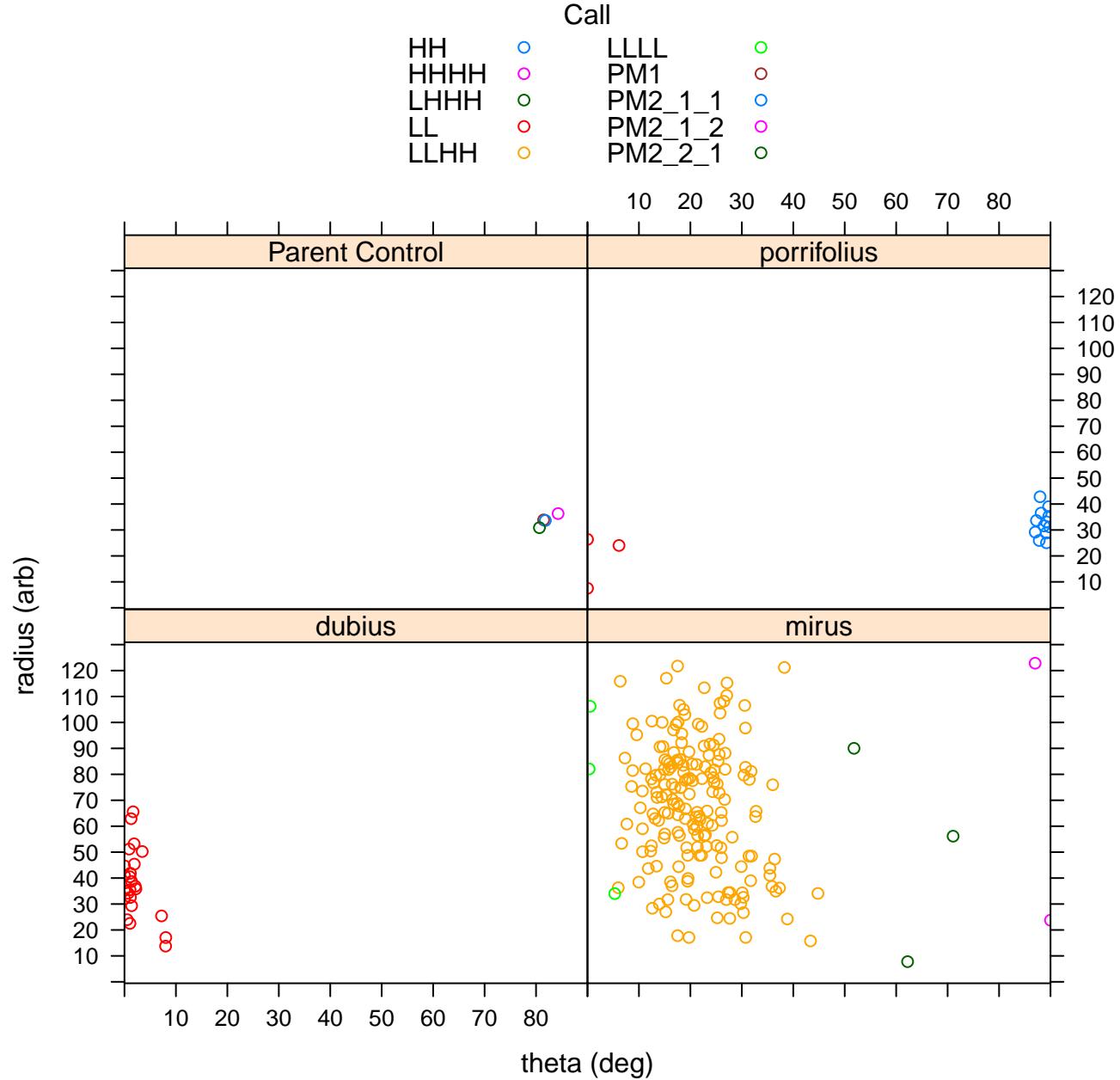
mirus

radius (arb)

120
110
100
90
80
70
60
50
40
30
20
10

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig12558_433 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

radius (arb)

60
50
40
30
20
10
0

dubius

mirus

10 20 30 40 50 60 70 80

theta (deg)

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

dubius

mirus

60
50
40
30
20
10
0

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

dubius

mirus

60
50
40
30
20
10
0

V_2_5_isotig12558_433 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLL	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

radius (arb)

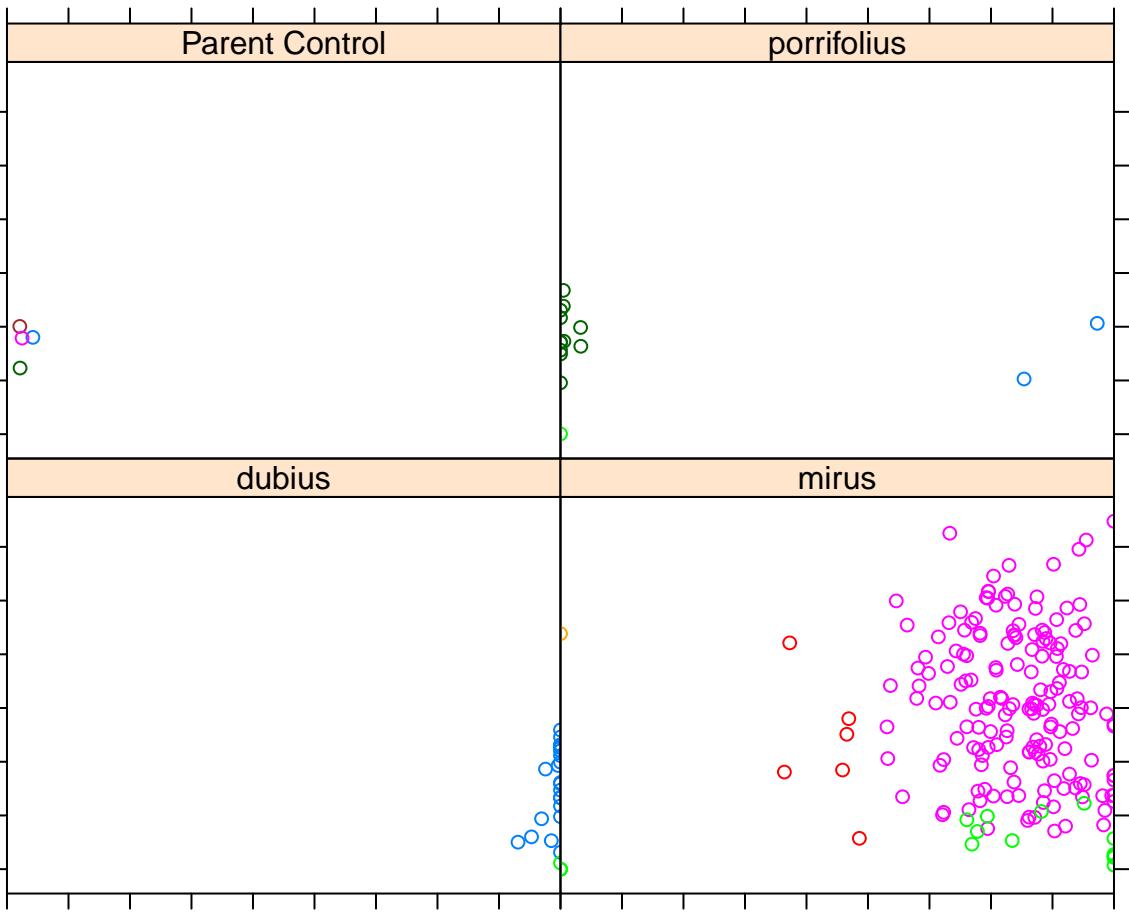
dubius

mirus

10 20 30 40 50 60 70 80

theta (deg)

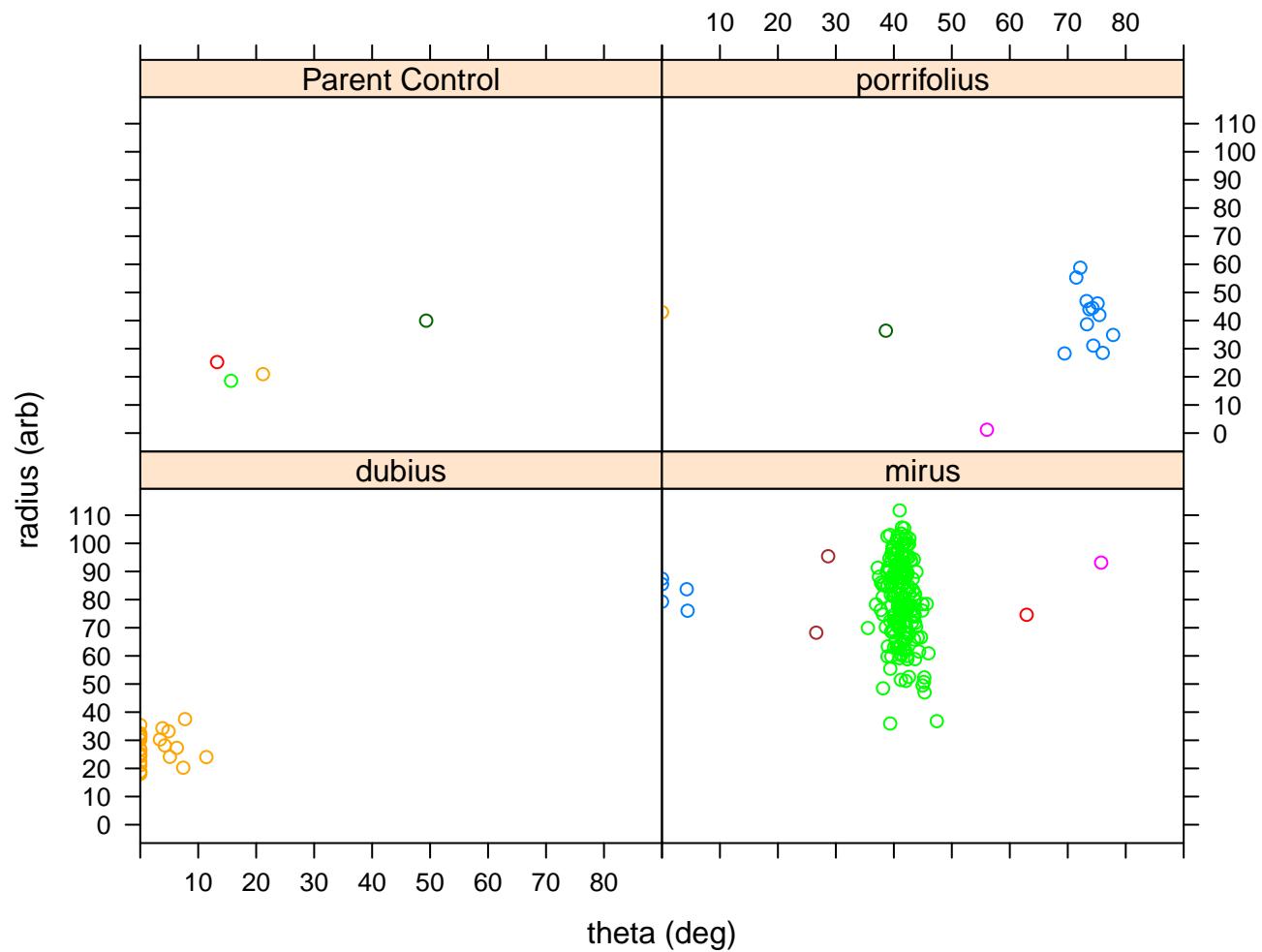
60
50
40
30
20
10
0



V_2_5_isotig12558_495 gDNA

Call

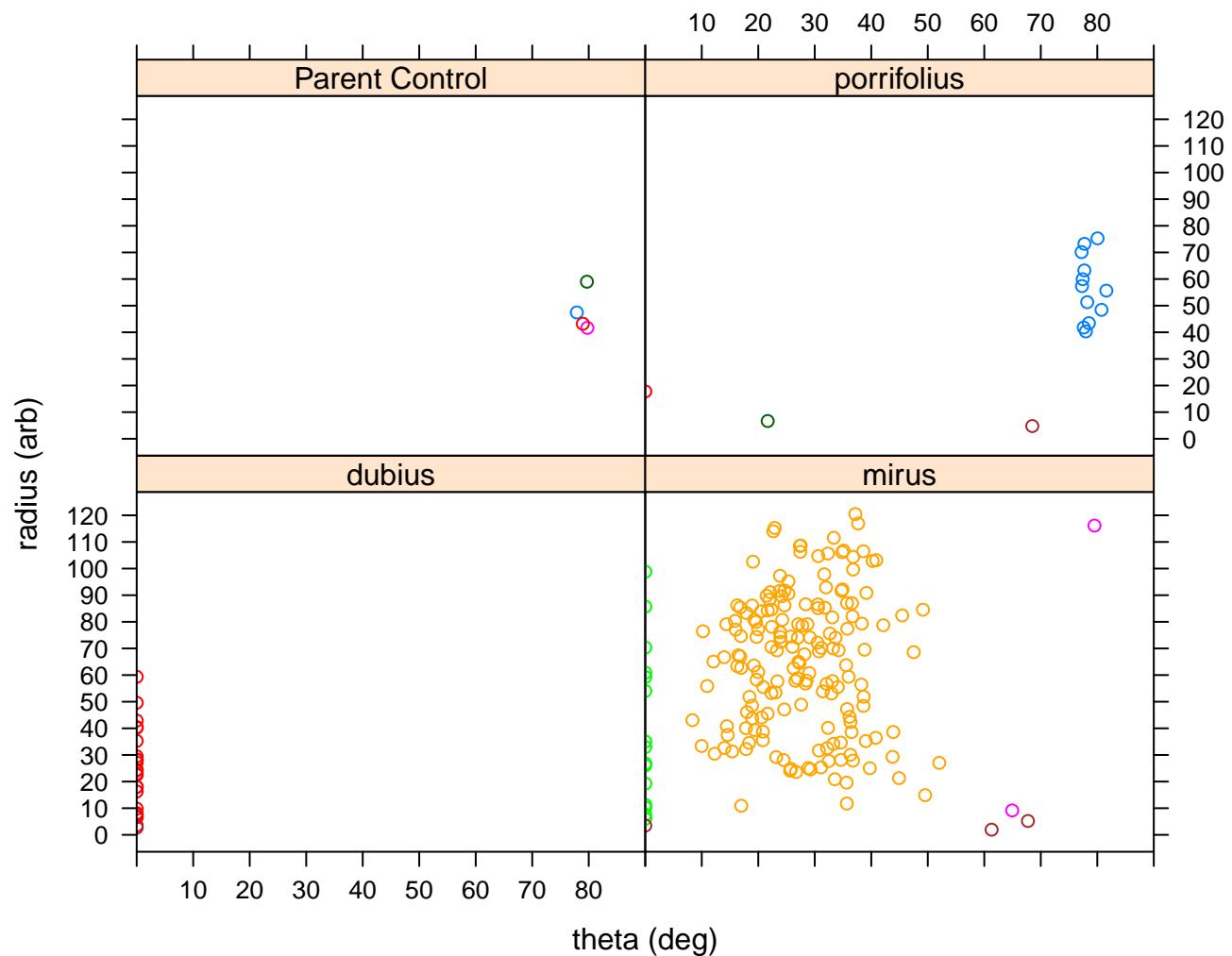
HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig12558_495 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLL	○		○



V_2_5_isotig12558_543 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LHHH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

120
110
100
90
80
70
60
50
40
30
20
10
0

dubius

mirus

120
110
100
90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)

radius (arb)

V_2_5_isotig12558_543 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

120
110
100
90
80
70
60
50
40
30
20
10
0

dubius

mirus

120
110
100
90
80
70
60
50
40
30
20
10
0

radius (arb)

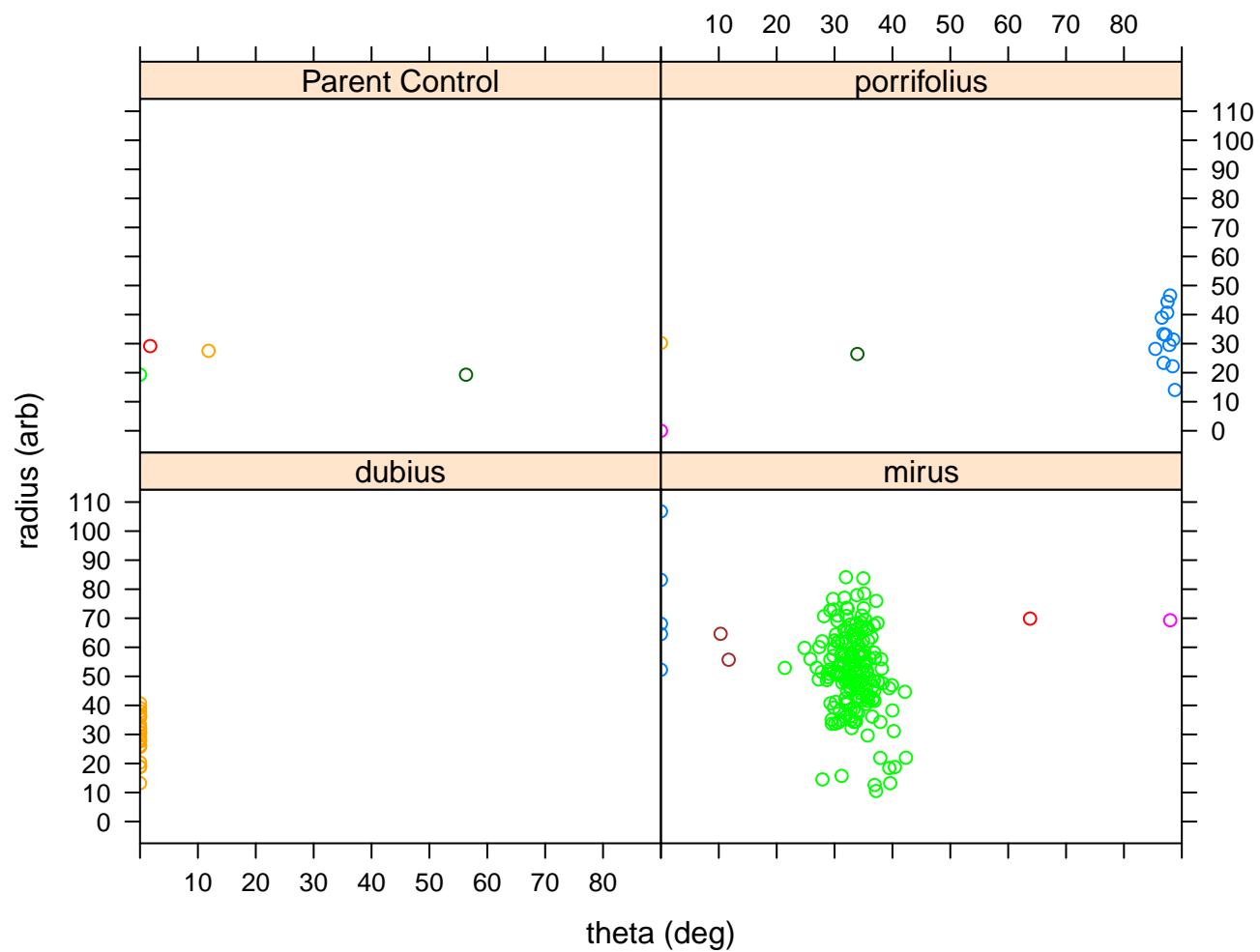
10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig12558_603 gDNA

Call

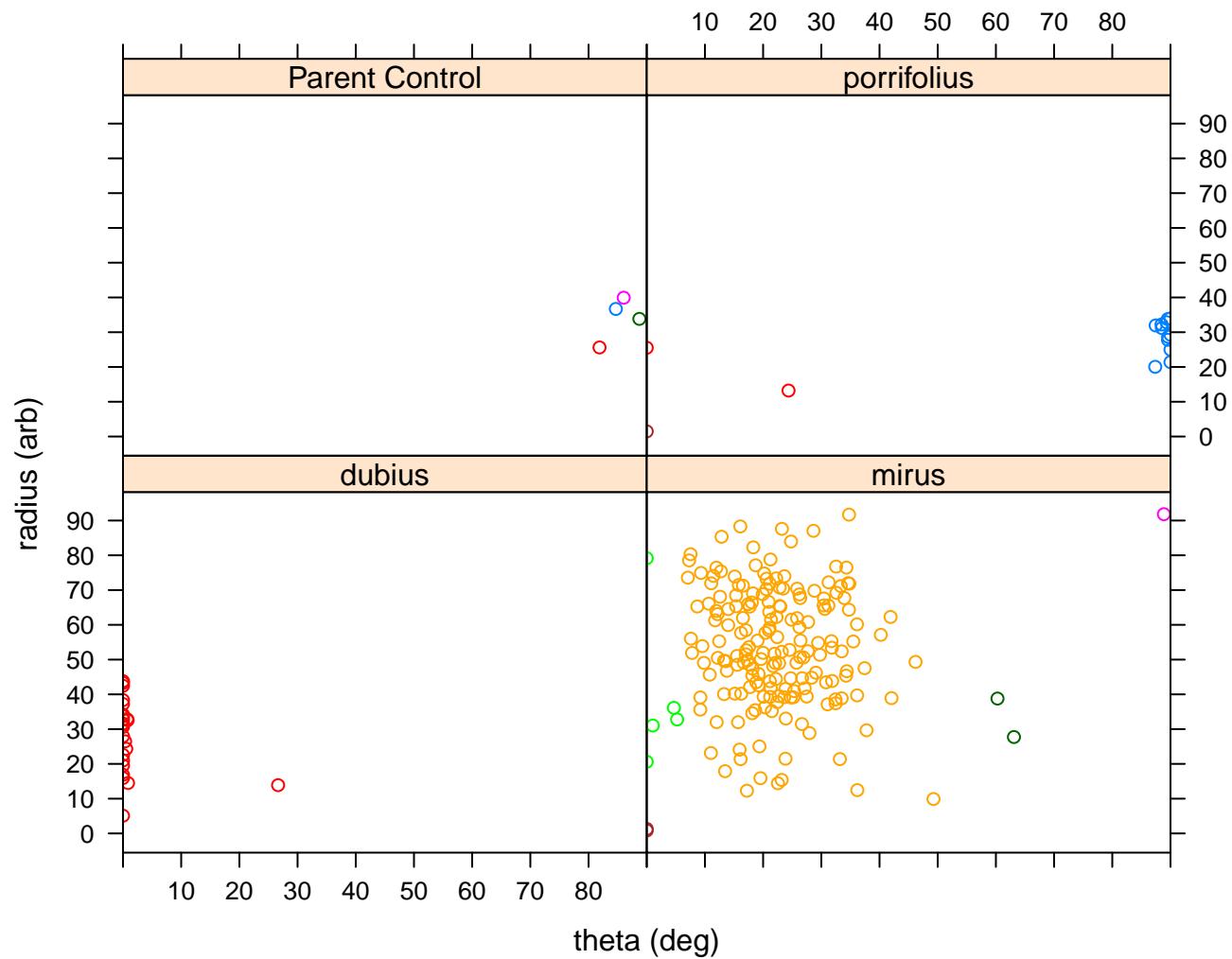
HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig12558_603 cDNA

Call

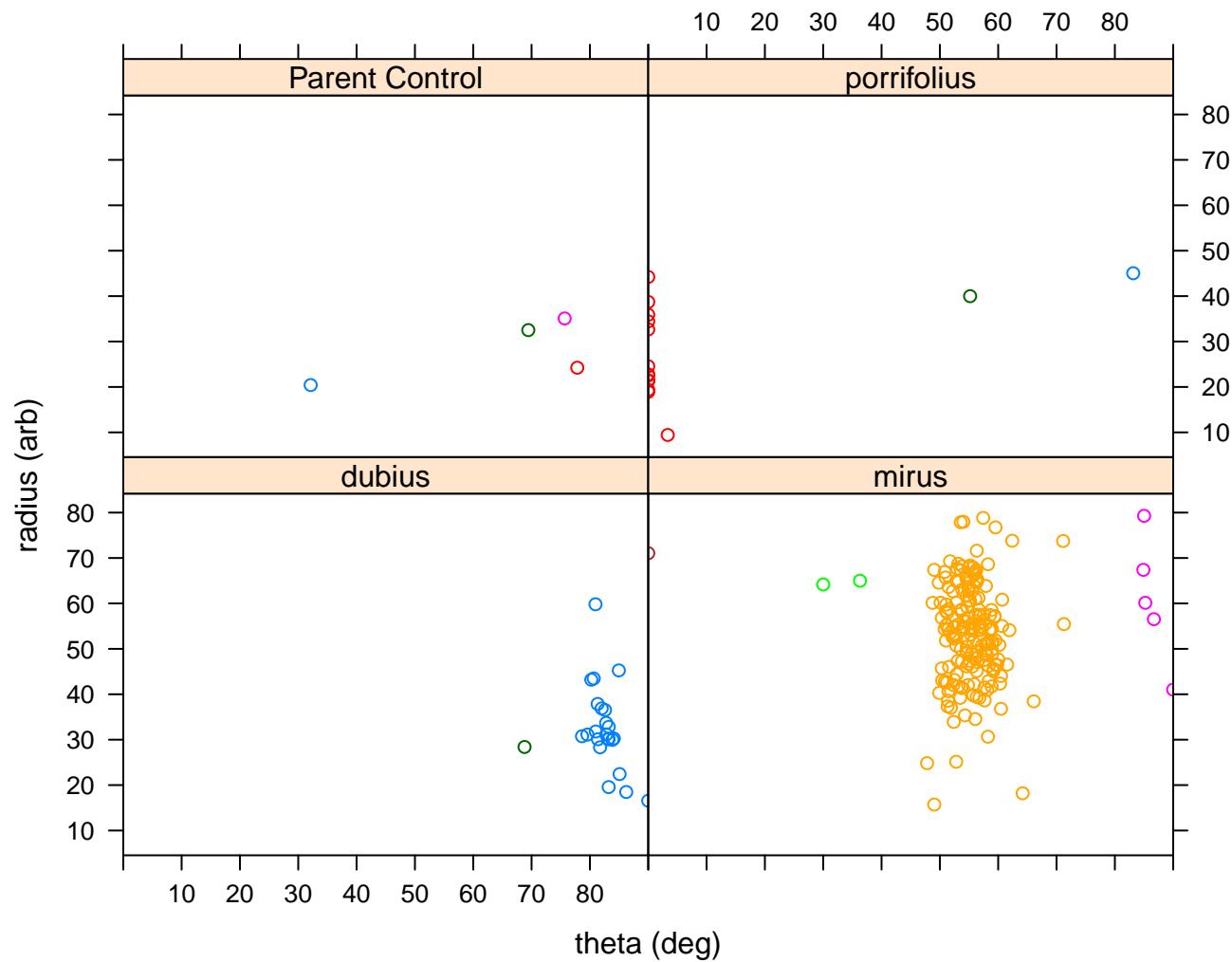
HH	○	No_Aleles	○
HHHH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLL	○		



V_2_5_isotig12558_673 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig12558_673 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLL	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

radius (arb)

120
100
80
60
40
20
0

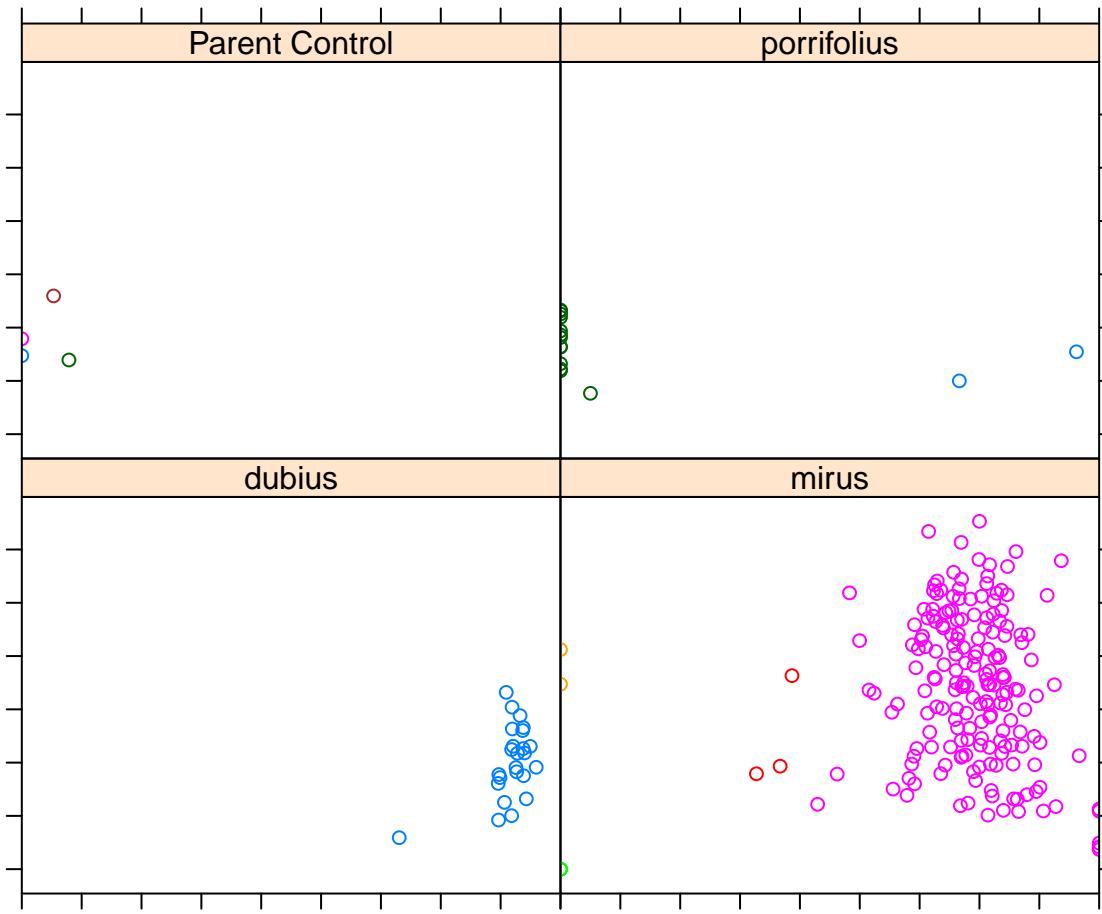
dubius

mirus

120
100
80
60
40
20
0

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig12558_759 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LHHH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

radius (arb)

80
70
60
50
40
30
20
10
0

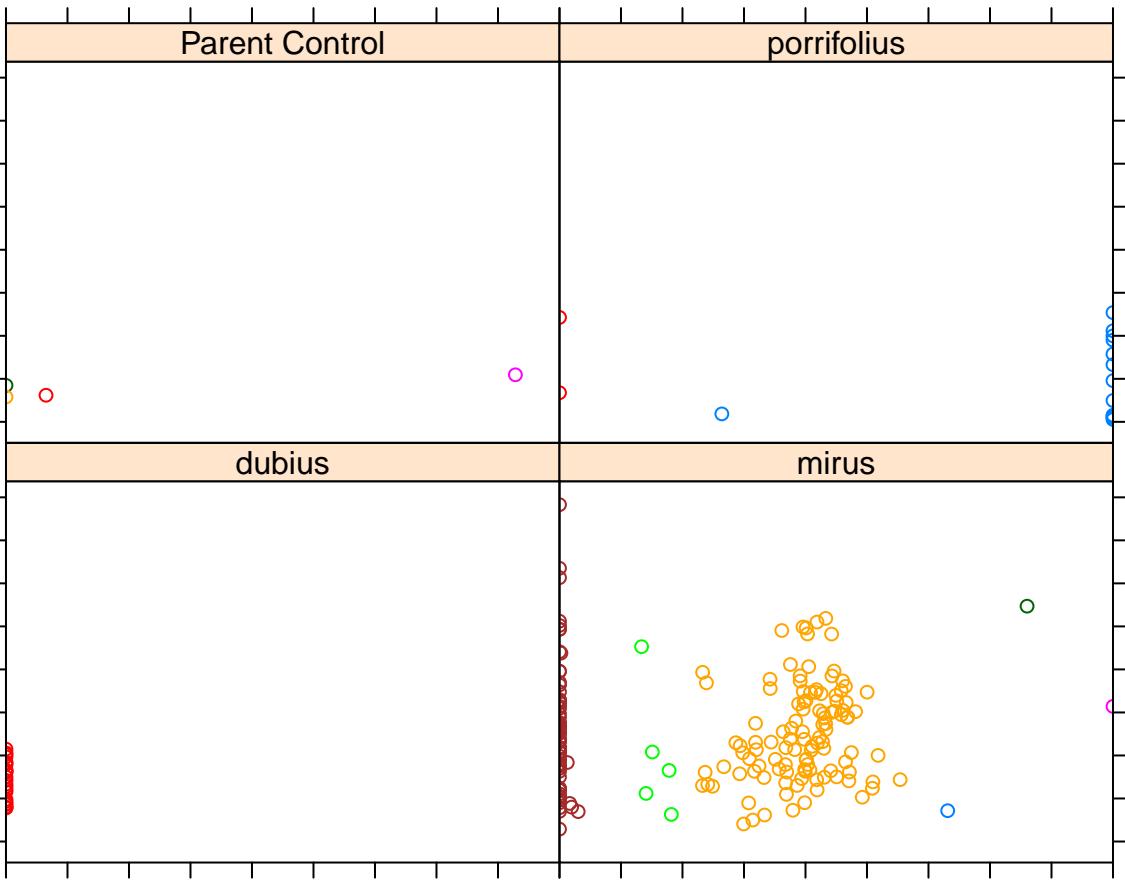
dubius

mirus

80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig12558_759 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

porrifolius

110
100
90
80
70
60
50
40
30
20
10
0

dubius

mirus

110
100
90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)

radius (arb)

V_2_5_isotig12608_282 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LHHH	○	PM2_1_2	○
LL	○	PM2_2_1	○
LLHH	○		

10 20 30 40 50 60 70 80

Parent Control

porrifolius

80
70
60
50
40
30
20
10

radius (arb)

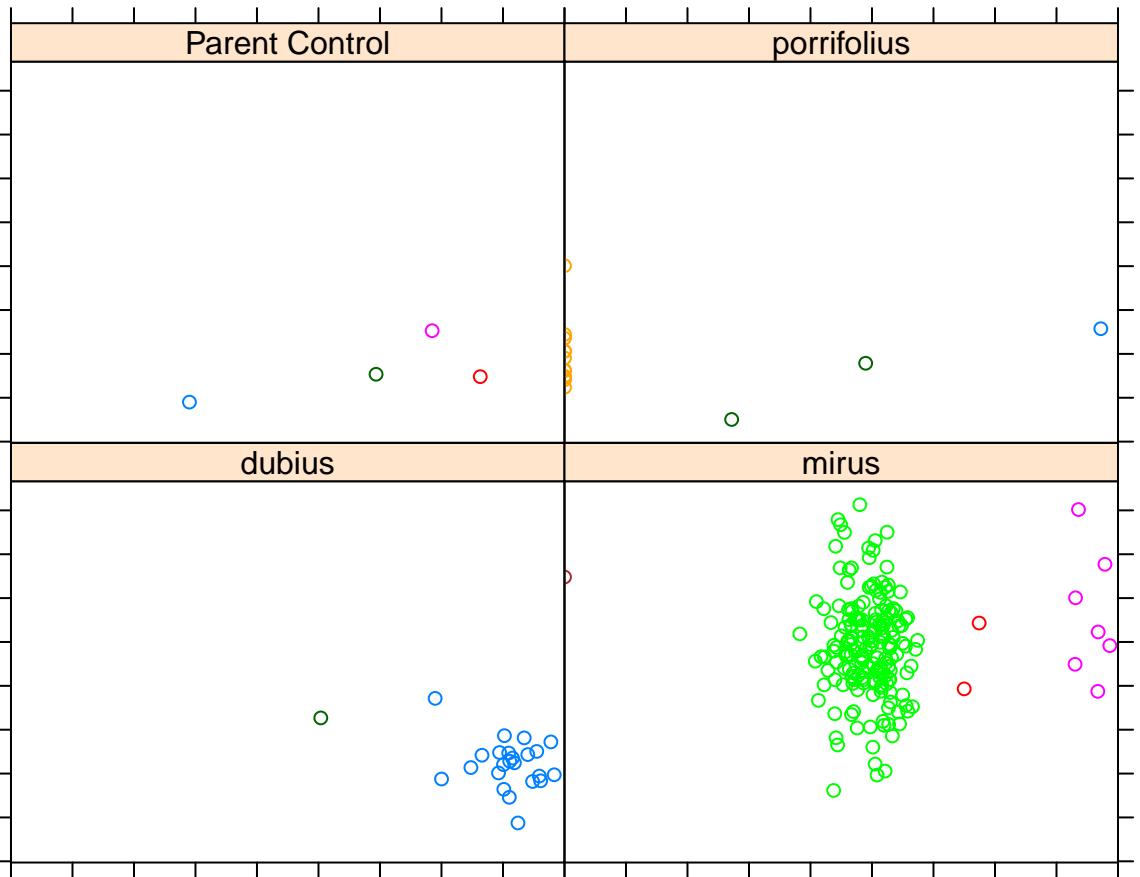
dubius

mirus

80
70
60
50
40
30
20
10

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig12608_282 cDNA

Call

HH	○	LLLL	○
HHHH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

90
80
70
60
50
40
30
20

radius (arb)

dubius

mirus

90
80
70
60
50
40
30
20

10 20 30 40 50 60 70 80

theta (deg)

90
80
70
60
50
40
30
20

V_2_5_isotig12619_412 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

110
100
90
80
70
60
50
40
30
20
10
0

dubius

miscellus

radius (arb)

110
100
90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig12629_699 gDNA

Call

HH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
PM3_1_1	○	PM6	○

10 20 30 40 50 60 70 80

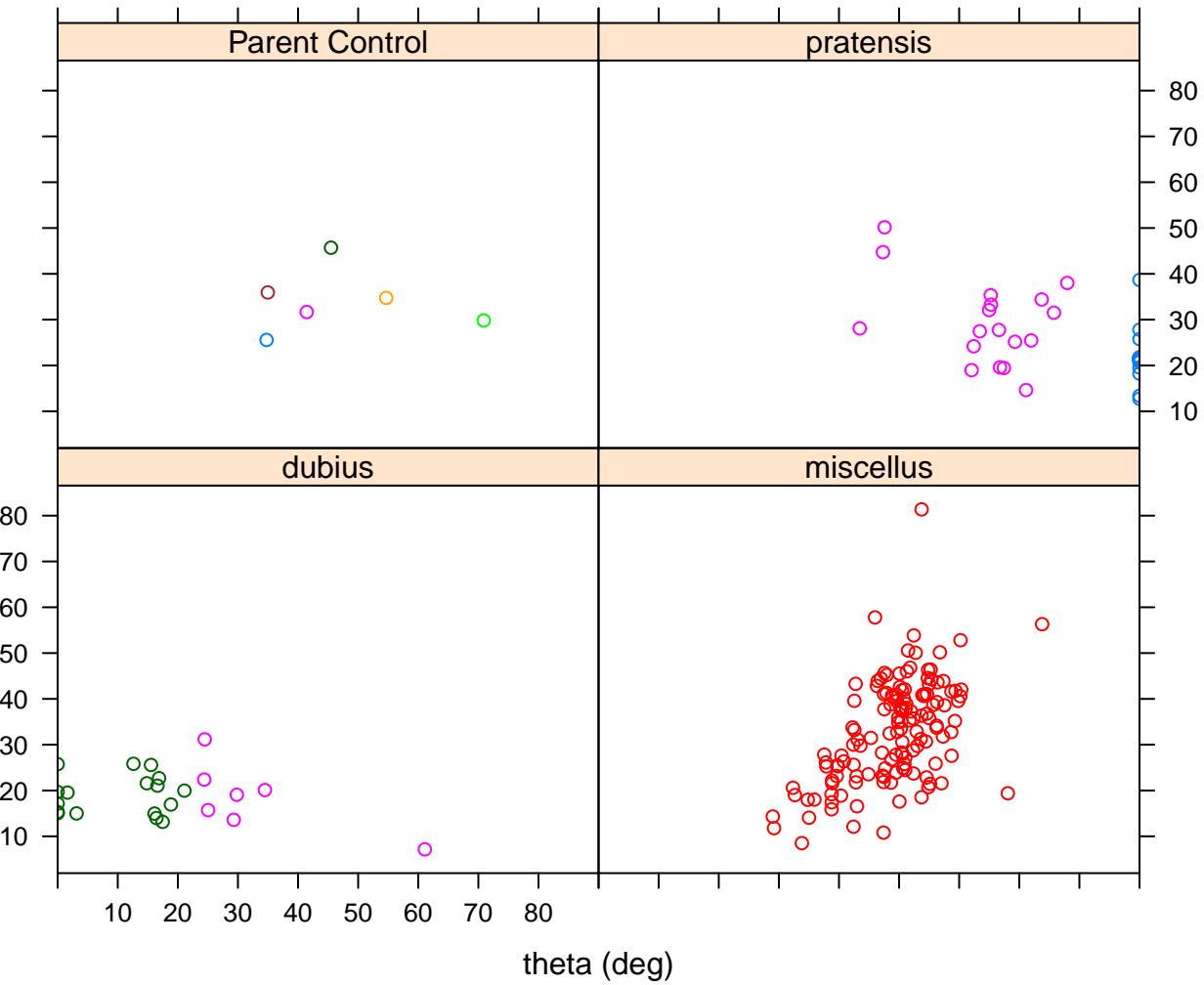
Parent Control

pratensis

radius (arb)

dubius

miscellus



theta (deg)

V_2_5_isotig12629_699 cDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○
No_Alleles	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

90
80
70
60
50
40
30
20
10
0

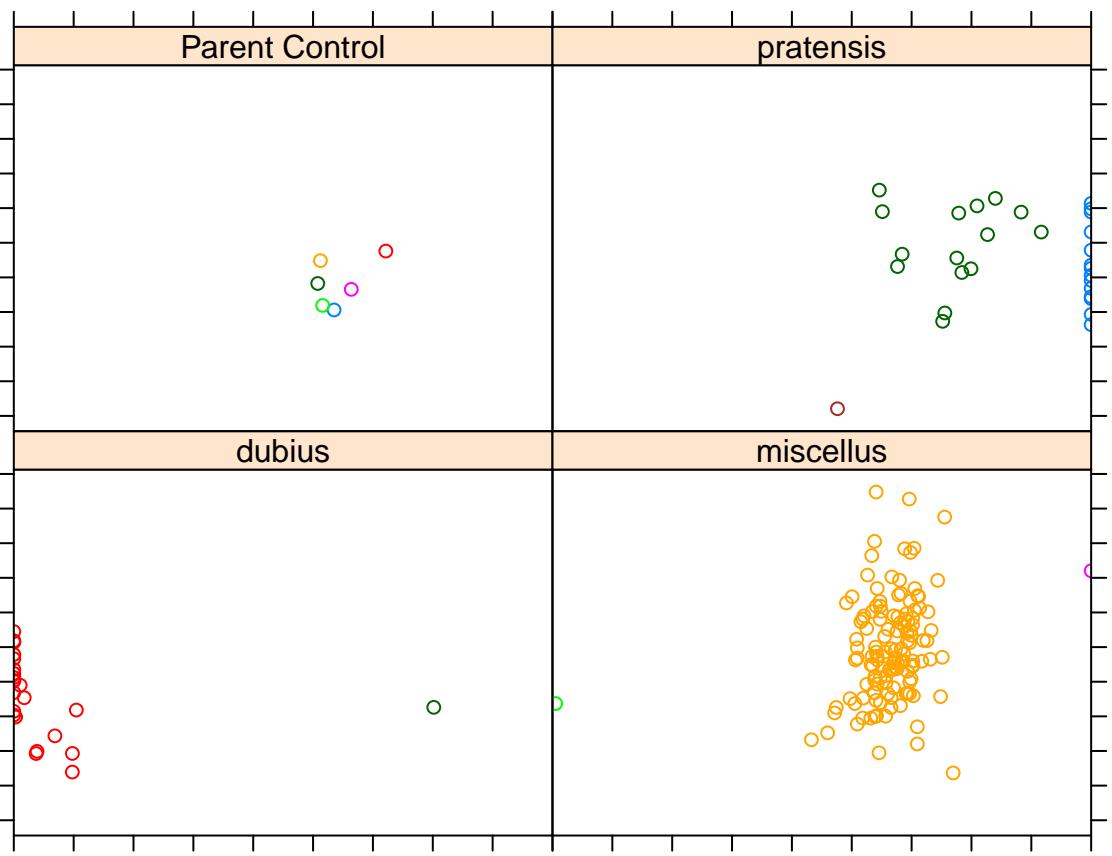
dubius

miscellus

radius (arb)

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig12636_456 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

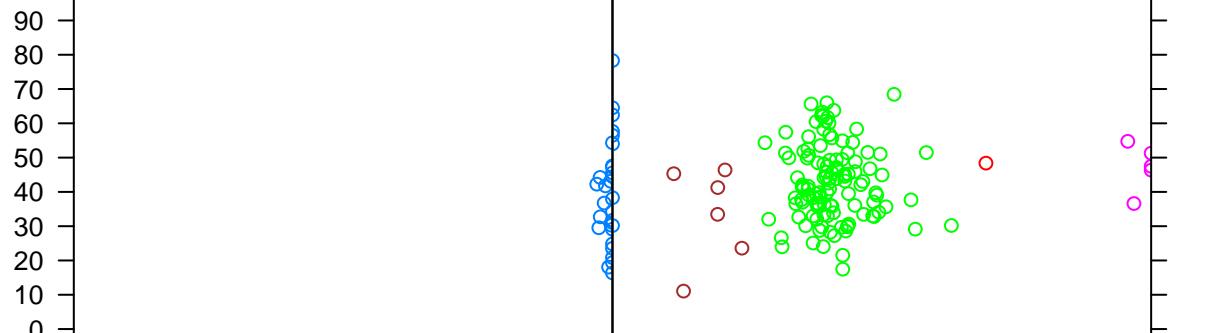
pratensis

90
80
70
60
50
40
30
20
10
0

radius (arb)

dubius

miscellus



theta (deg)

V_2_5_isotig12636_456 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

110
100
90
80
70
60
50
40
30
20
10

dubius

miscellus

110
100
90
80
70
60
50
40
30
20
10

10 20 30 40 50 60 70 80

theta (deg)

radius (arb)

V_2_5_isotig12636_558 gDNA

Call

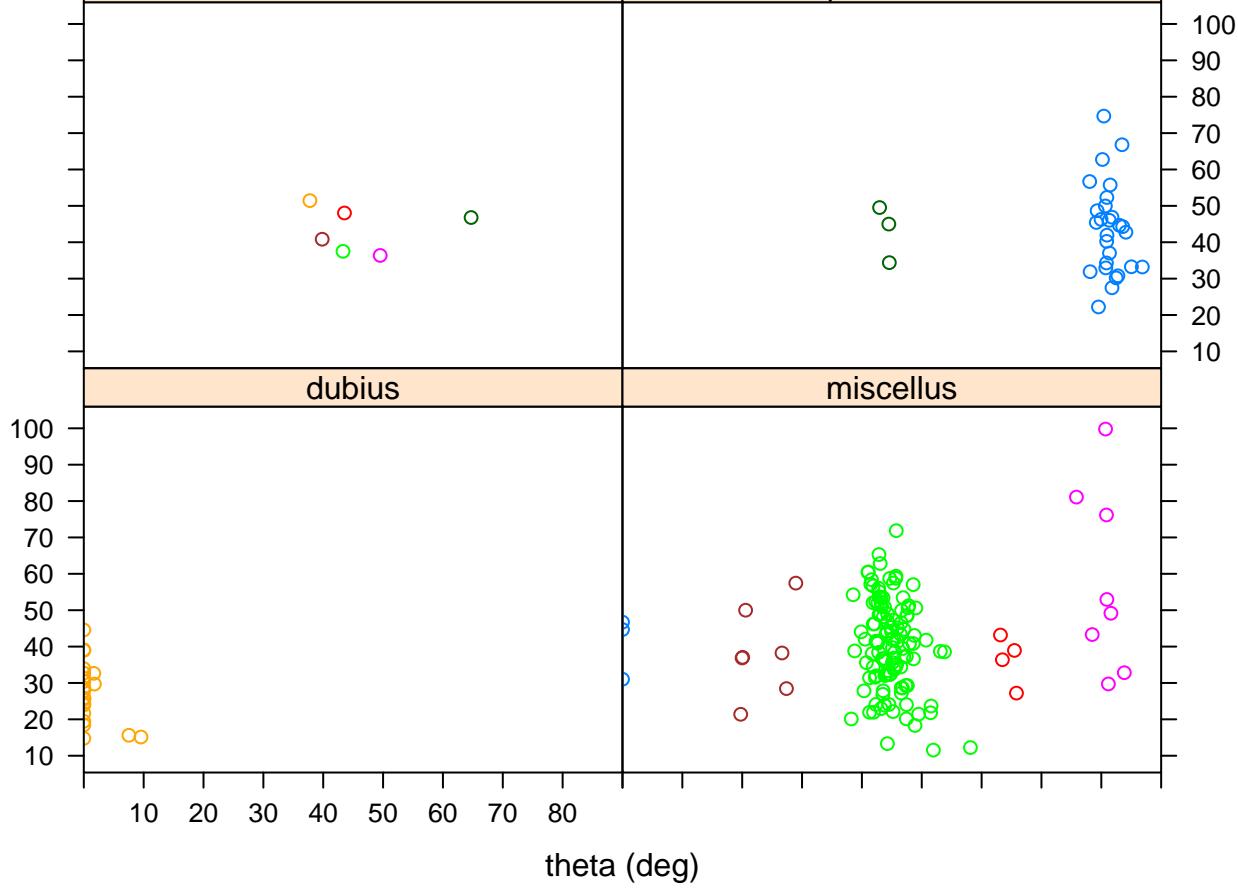
HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

radius (arb)

Parent Control

pratensis



theta (deg)

V_2_5_isotig12636_558 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

120
110
100
90
80
70
60
50
40
30
20
10
0

dubius

miscellus

radius (arb)

120
110
100
90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig12663_249 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LHHH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

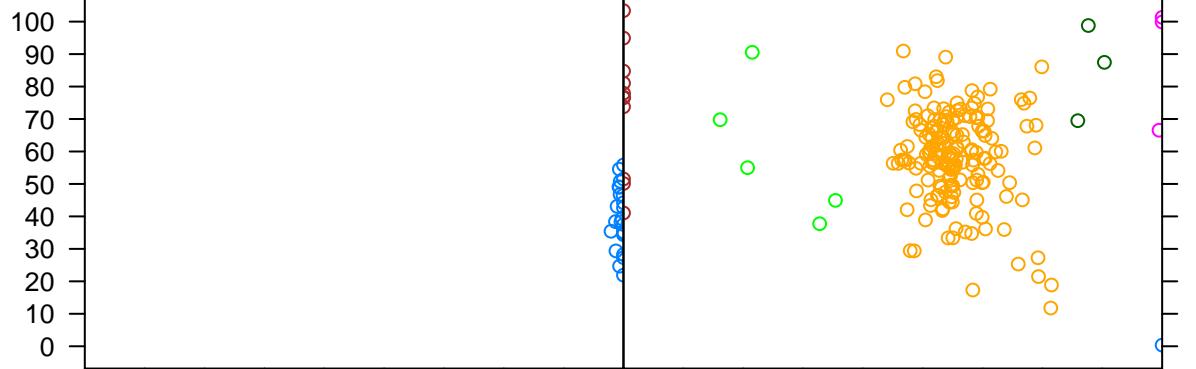
Parent Control

porrifolius

100
90
80
70
60
50
40
30
20
10
0

dubius

mirus

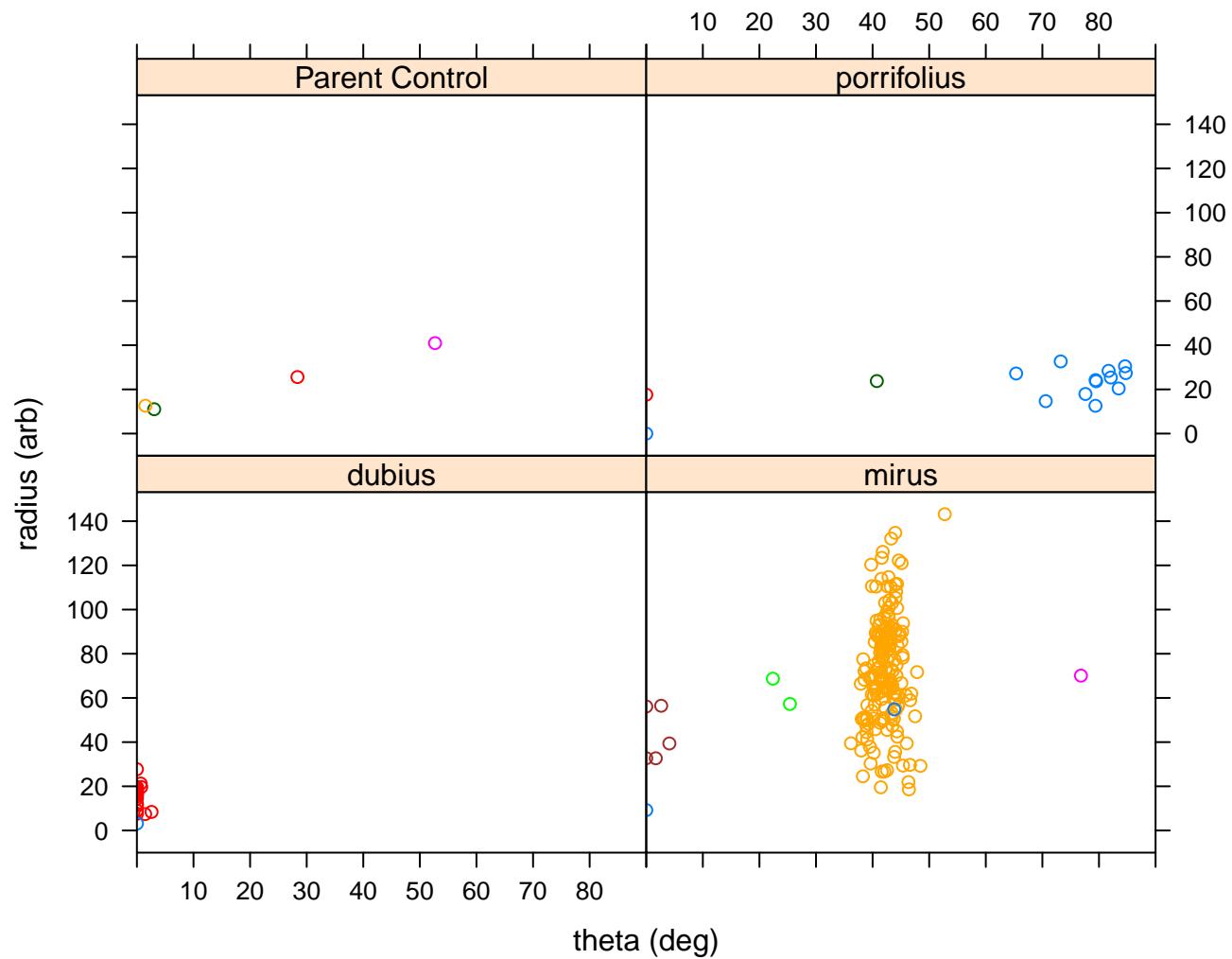


theta (deg)

V_2_5_isotig12665_657 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○



V_2_5_isotig12682_716 gDNA

Call

Bad_Spectrum	○	LLLH	○
HH	○	LLLL	○
HHHH	○	No_Alleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

50
45
40
35
30
25
20
15
10
5
0

dubius

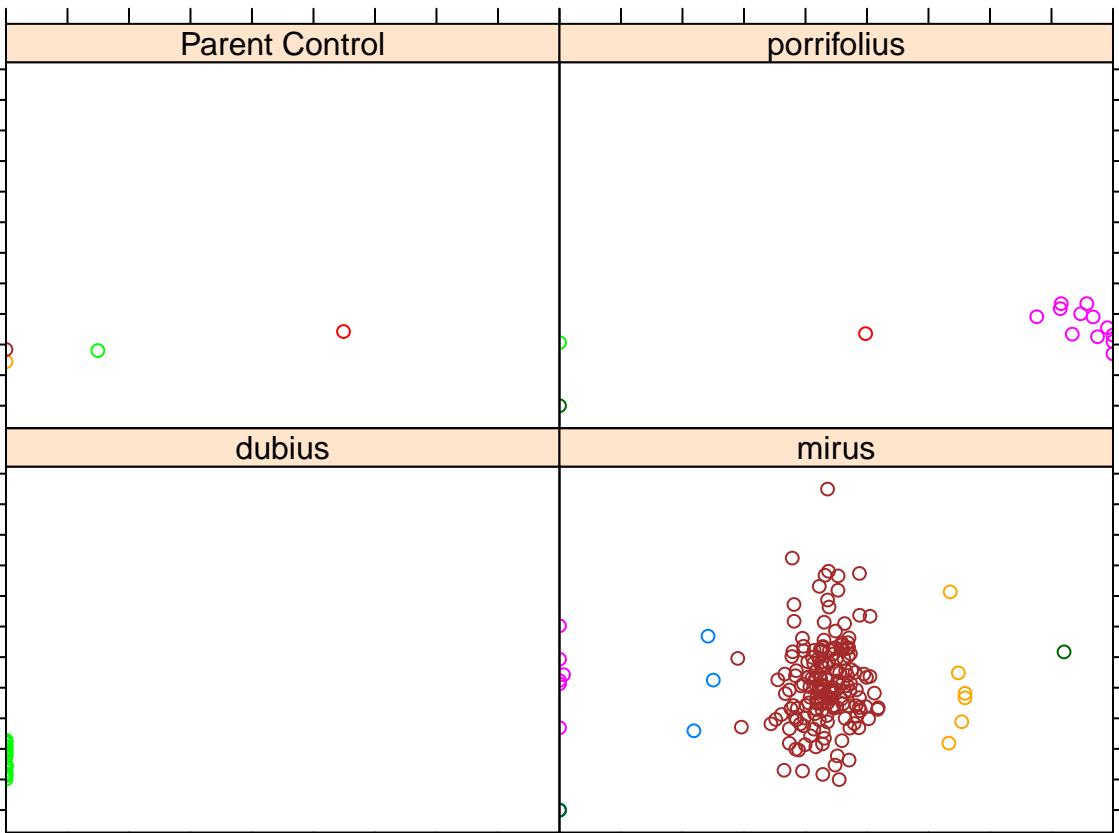
mirus

radius (arb)

50
45
40
35
30
25
20
15
10
5
0

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig12682_716 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LHHH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

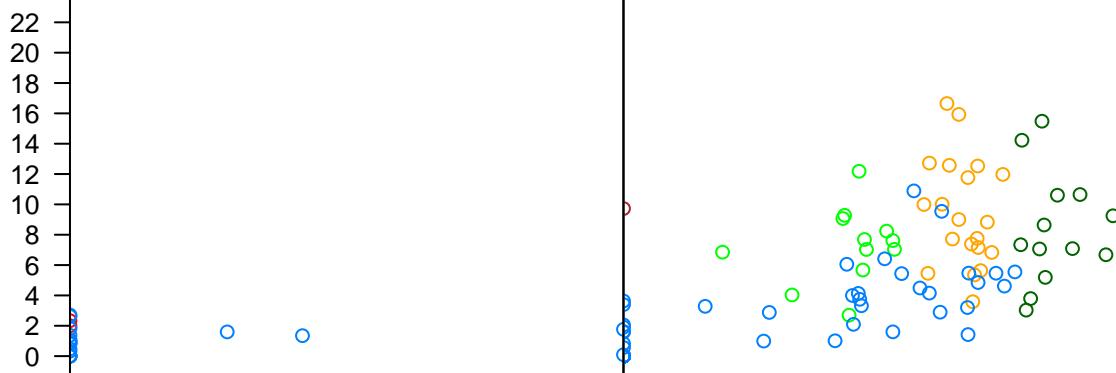
Parent Control

porrifolius

22
20
18
16
14
12
10
8
6
4
2
0

dubius

mirus



theta (deg)

V_2_5_isotig12728_508 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

90
80
70
60
50
40
30
20
10
0

dubius

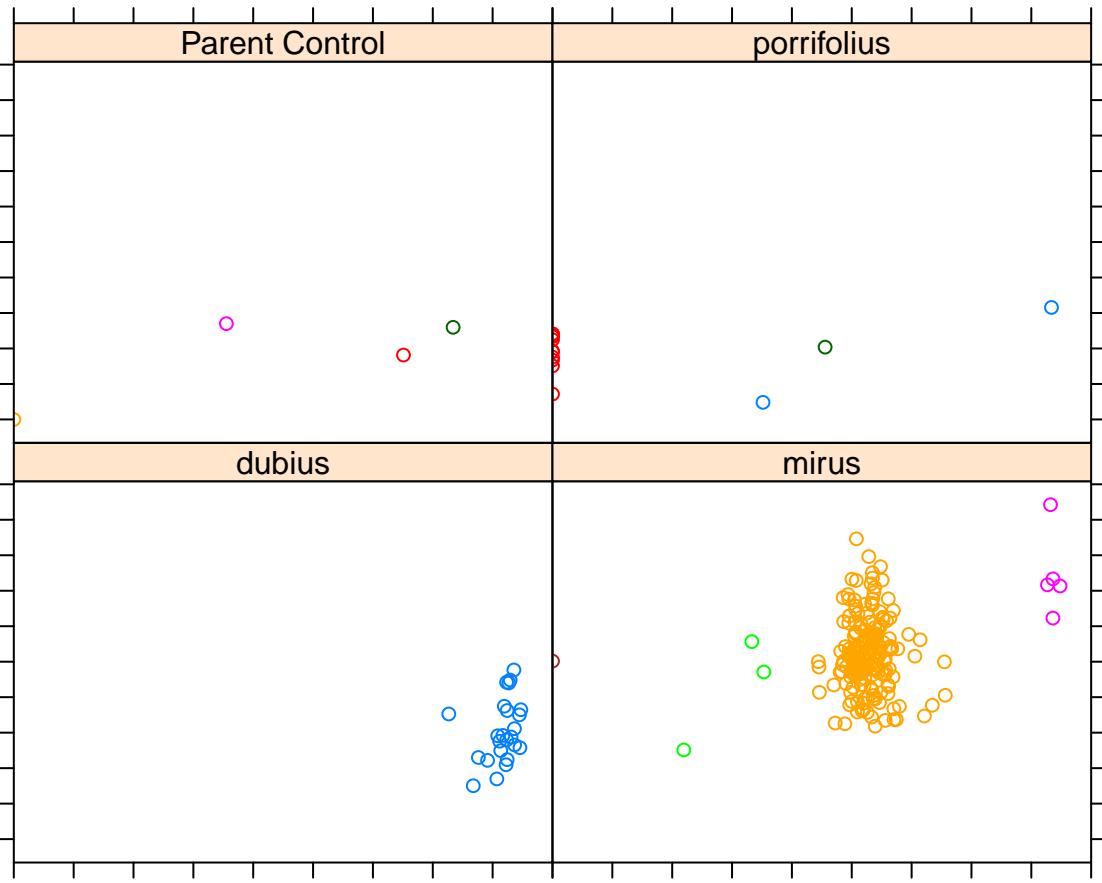
mirus

radius (arb)

90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig12728_508 cDNA

Call

Bad_Spectrum	○	LLLL	○
HH	○	No_Alleles	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		

10 20 30 40 50 60 70 80

Parent Control

porrifolius

100
90
80
70
60
50
40
30
20
10
0

dubius

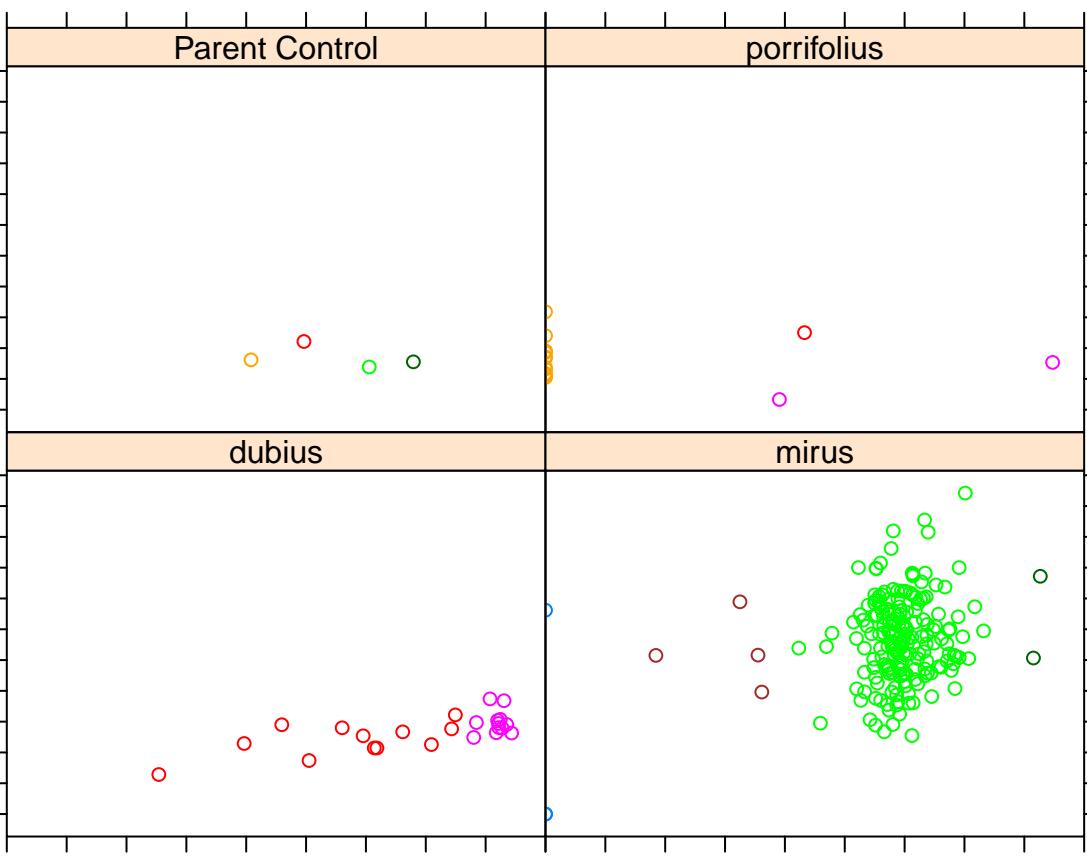
mirus

radius (arb)

100
90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

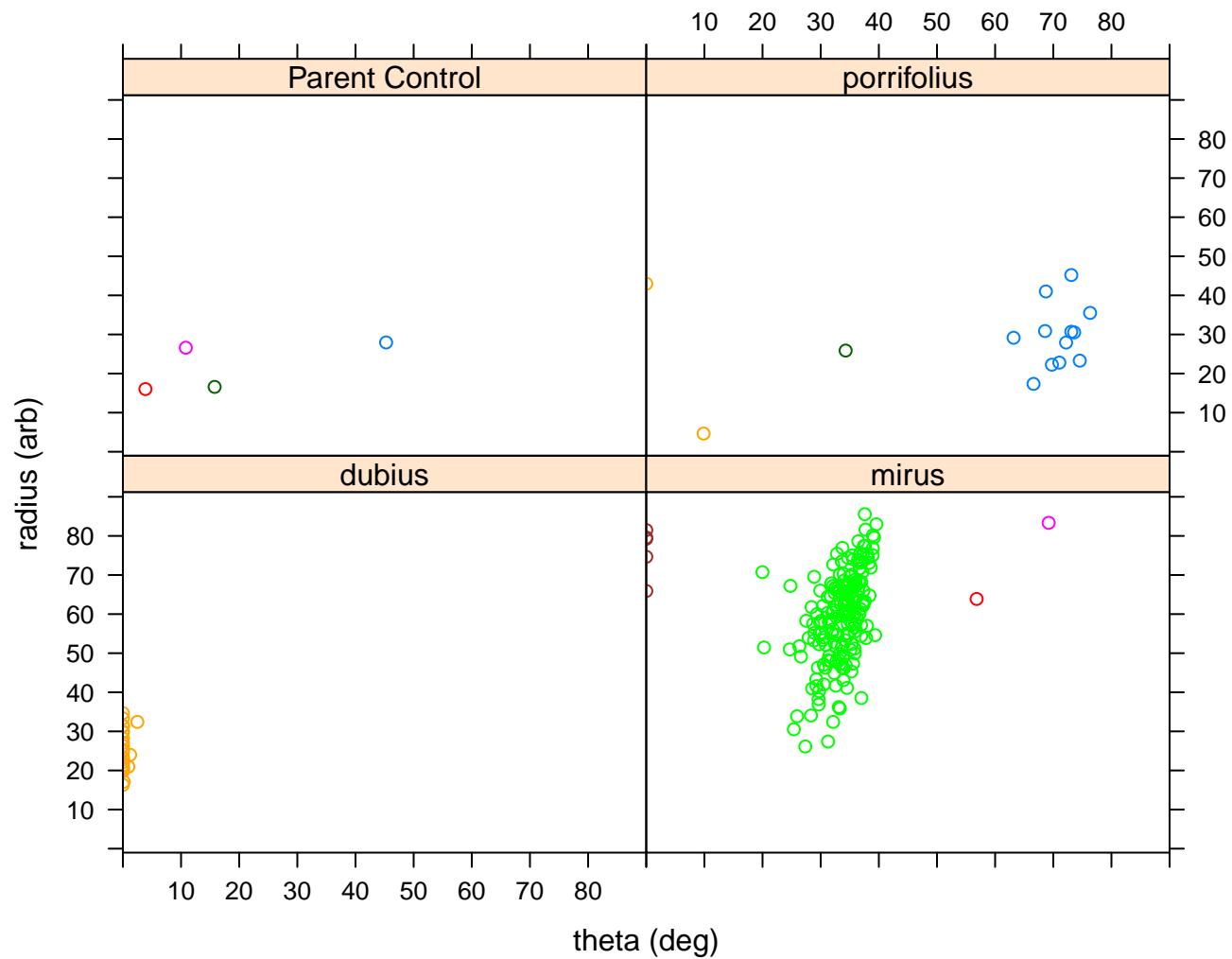
theta (deg)



V_2_5_isotig12749_680 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LHHH	○	PM2_1_2	○
LL	○	PM2_2_1	○
LLHH	○		



V_2_5_isotig12749_680 cDNA

Call

HH	○	LLLL	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LHHH	○	PM2_1_2	○
LL	○	PM2_2_1	○
LLHH	○		

10 20 30 40 50 60 70 80

Parent Control

porrifolius

110
100
90
80
70
60
50
40
30
20
10

dubius

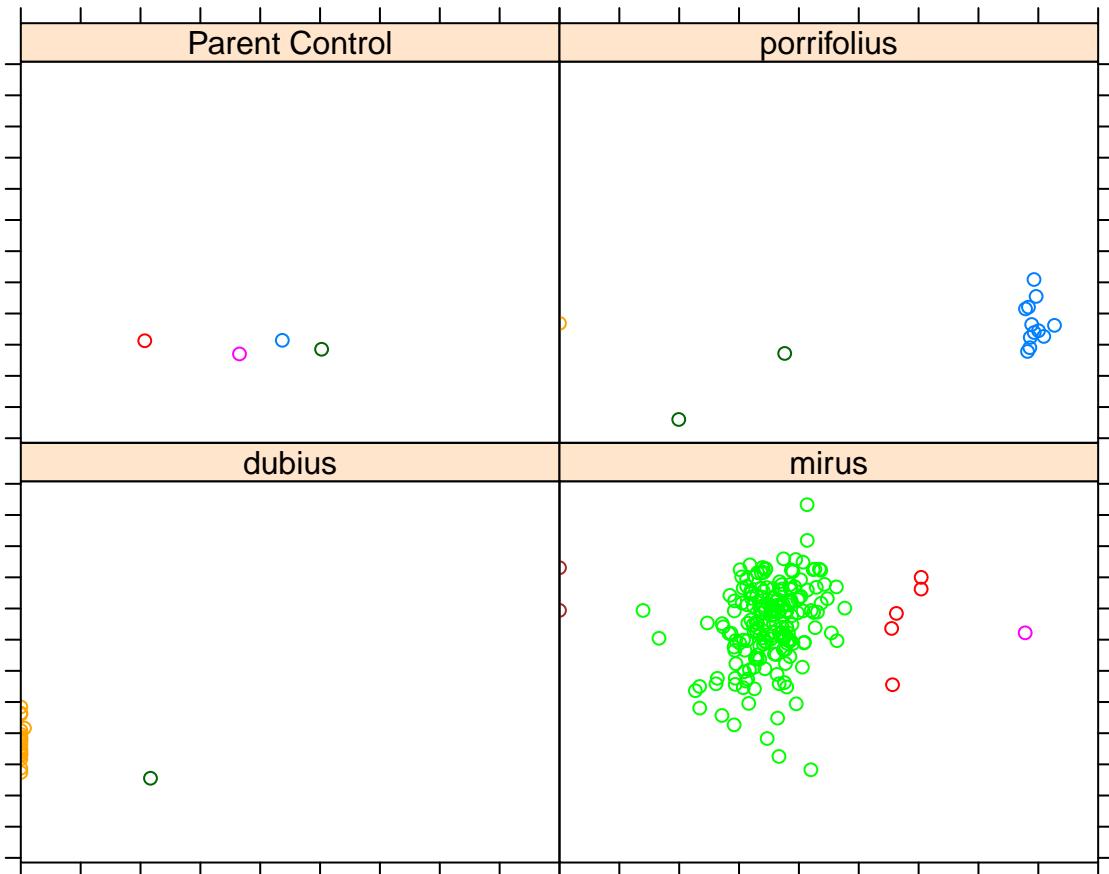
mirus

110
100
90
80
70
60
50
40
30
20
10

radius (arb)

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig12790_60 gDNA

Call

HH	○	PM1	○
HHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLLL	○	PM2_2_1	○
No_Alleles			○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

100
90
80
70
60
50
40
30
20
10
0

radius (arb)

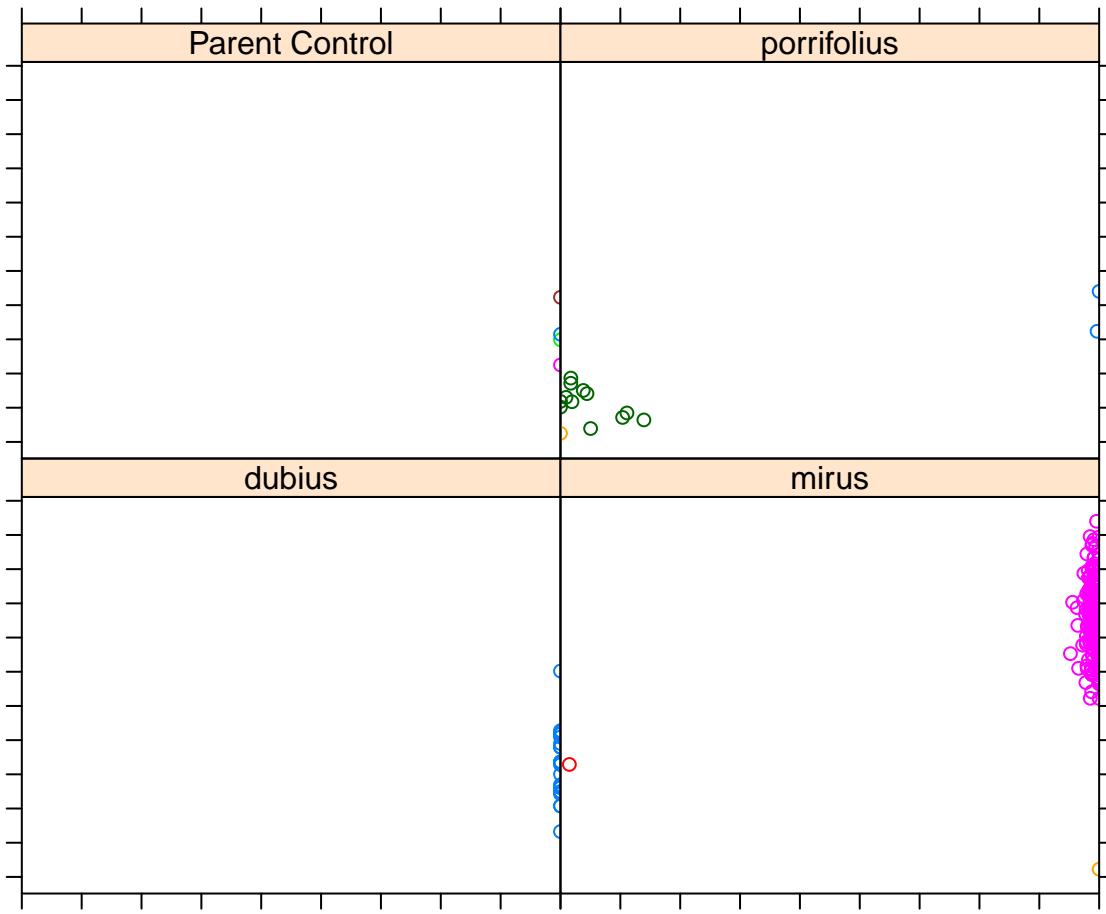
dubius

mirus

100
90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig12790_60 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLLL	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

90
80
70
60
50
40
30
20
10
0

radius (arb)

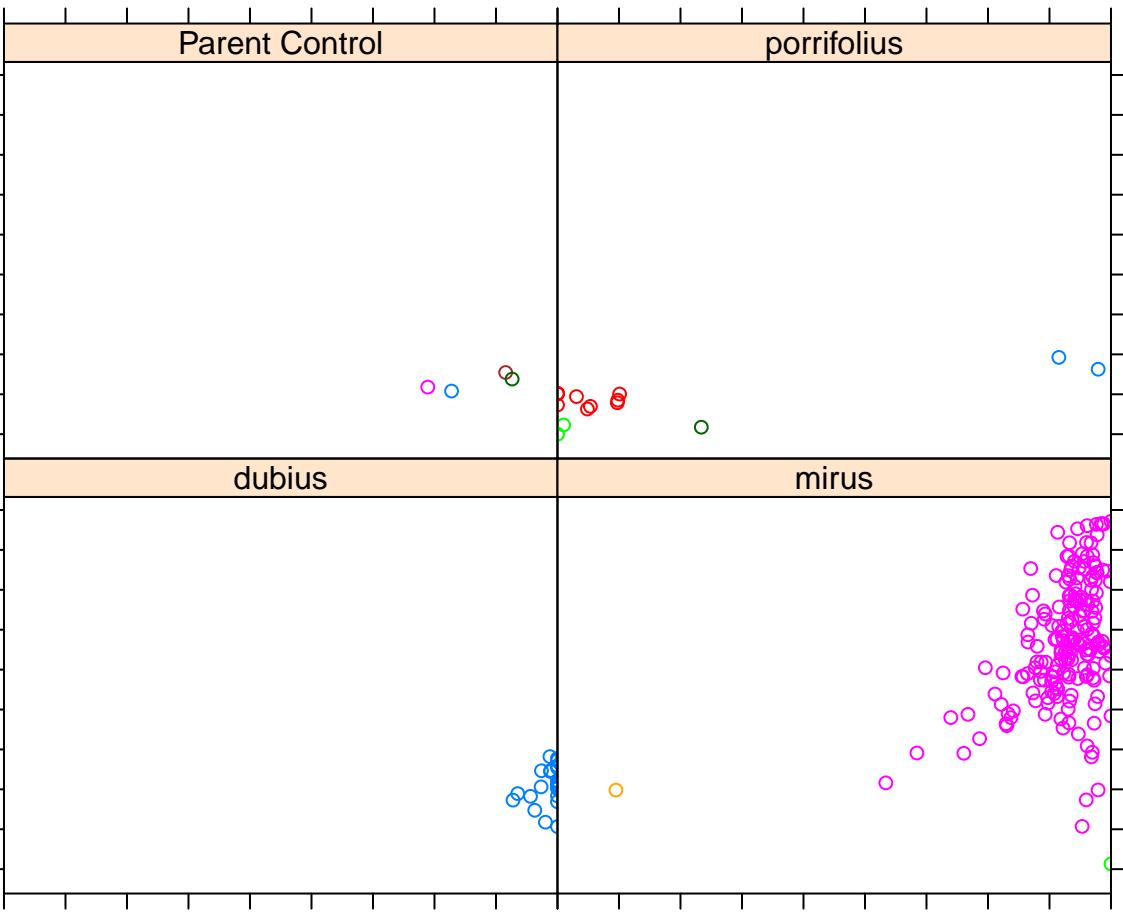
dubius

mirus

90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

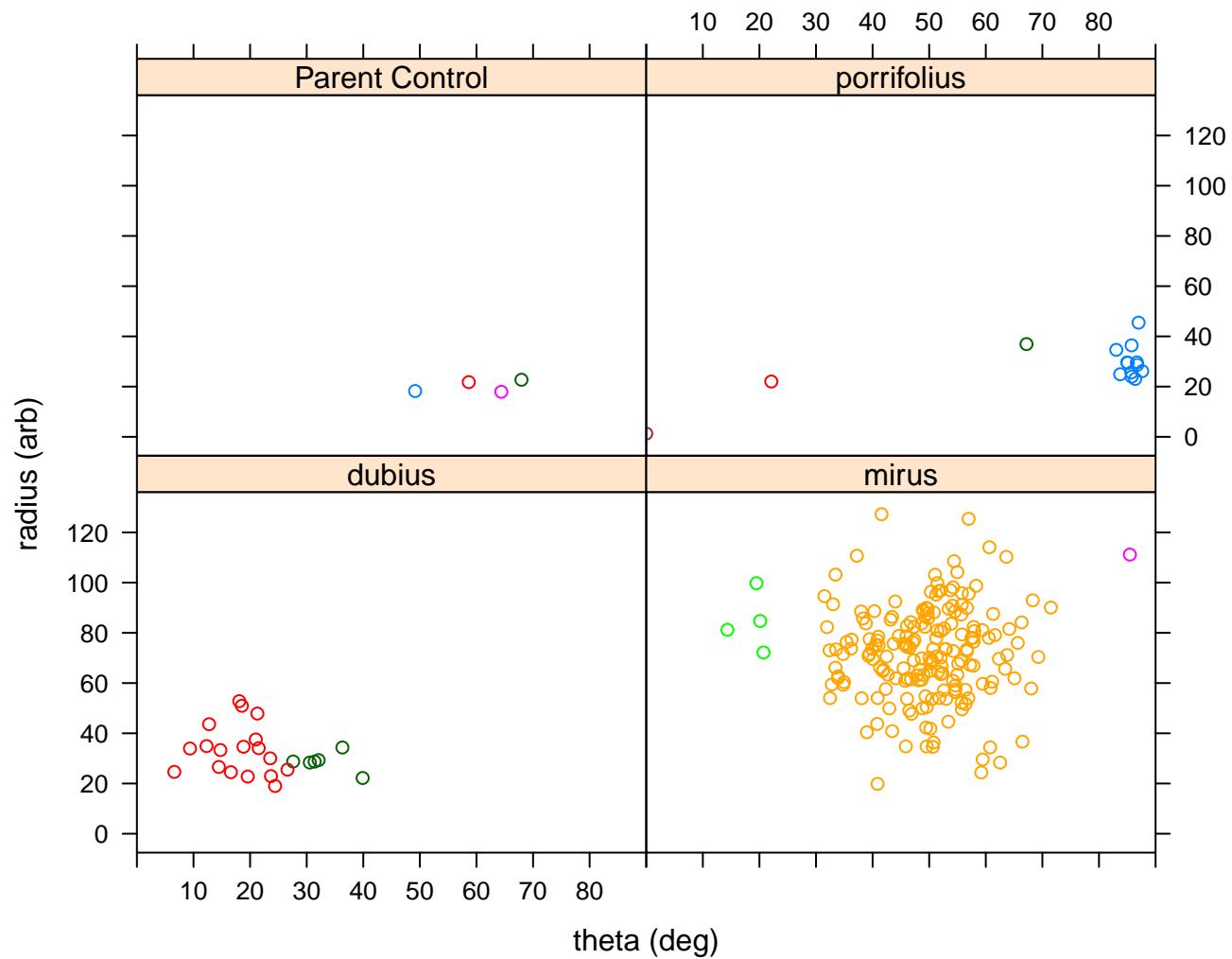
theta (deg)



V_2_5_isotig12790_713 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLL	○		



V_2_5_isotig12804_355 cDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

110
100
90
80
70
60
50
40
30
20

dubius

miscellus

110
100
90
80
70
60
50
40
30
20

10 20 30 40 50 60 70 80

theta (deg)

radius (arb)

V_2_5_isotig12809_572 gDNA

Call

Bad_Spectrum	LLLH	○	○
HH	LLLL	○	○
HHHH	PM1	○	○
LH	PM2_1_1	○	○
LL	PM2_1_2	○	○
LLHH	PM2_2_1	○	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

60
55
50
45
40
35
30
25
20
15
10
5
0

dubius

mirus

radius (arb)

60
55
50
45
40
35
30
25
20
15
10
5
0

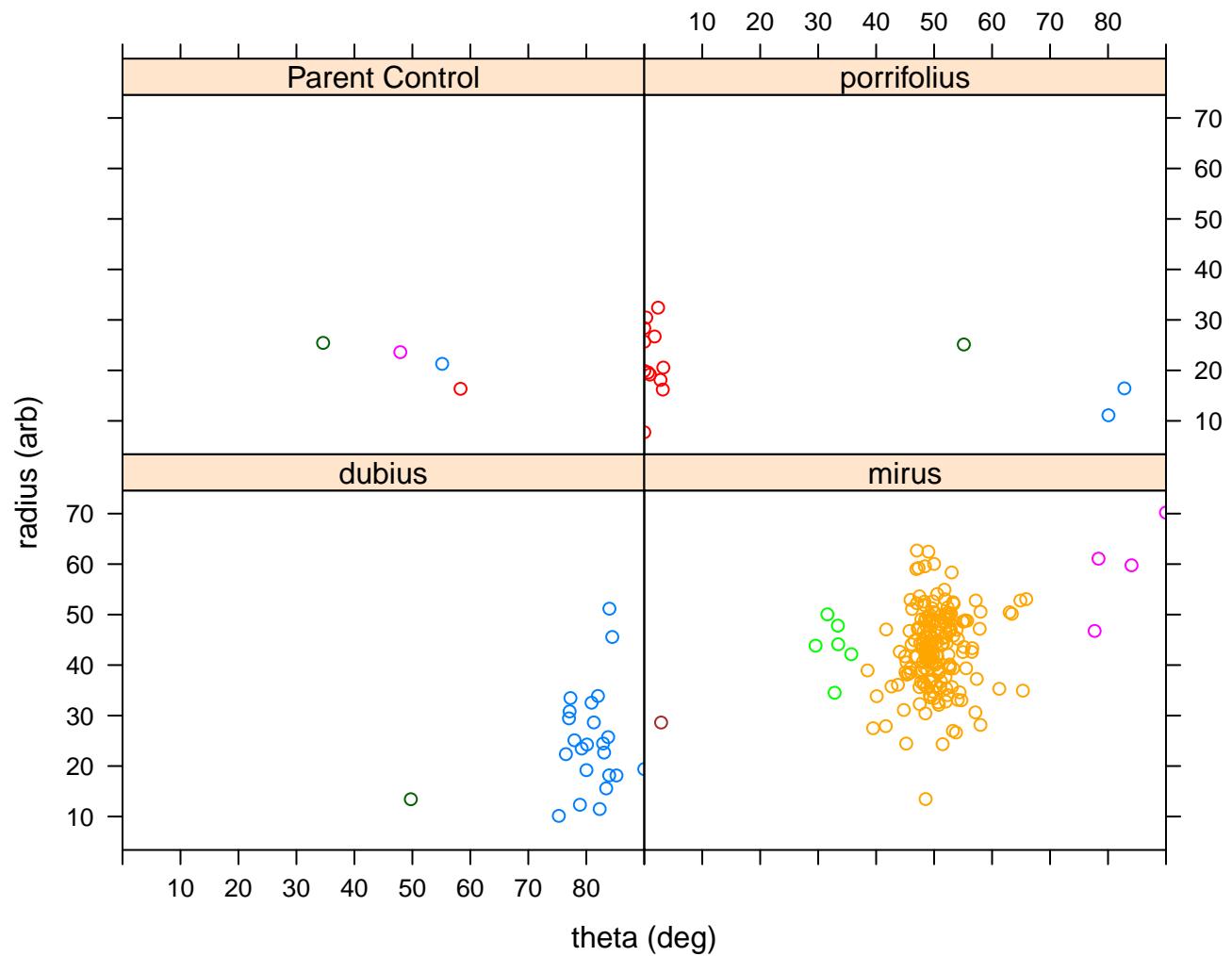
10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig12809_572 cDNA

Call

HH	○	LLLL	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig12810_459 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○
LLLL	○		○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

110
100
90
80
70
60
50
40
30
20
10
0

dubius

mirus

110
100
90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

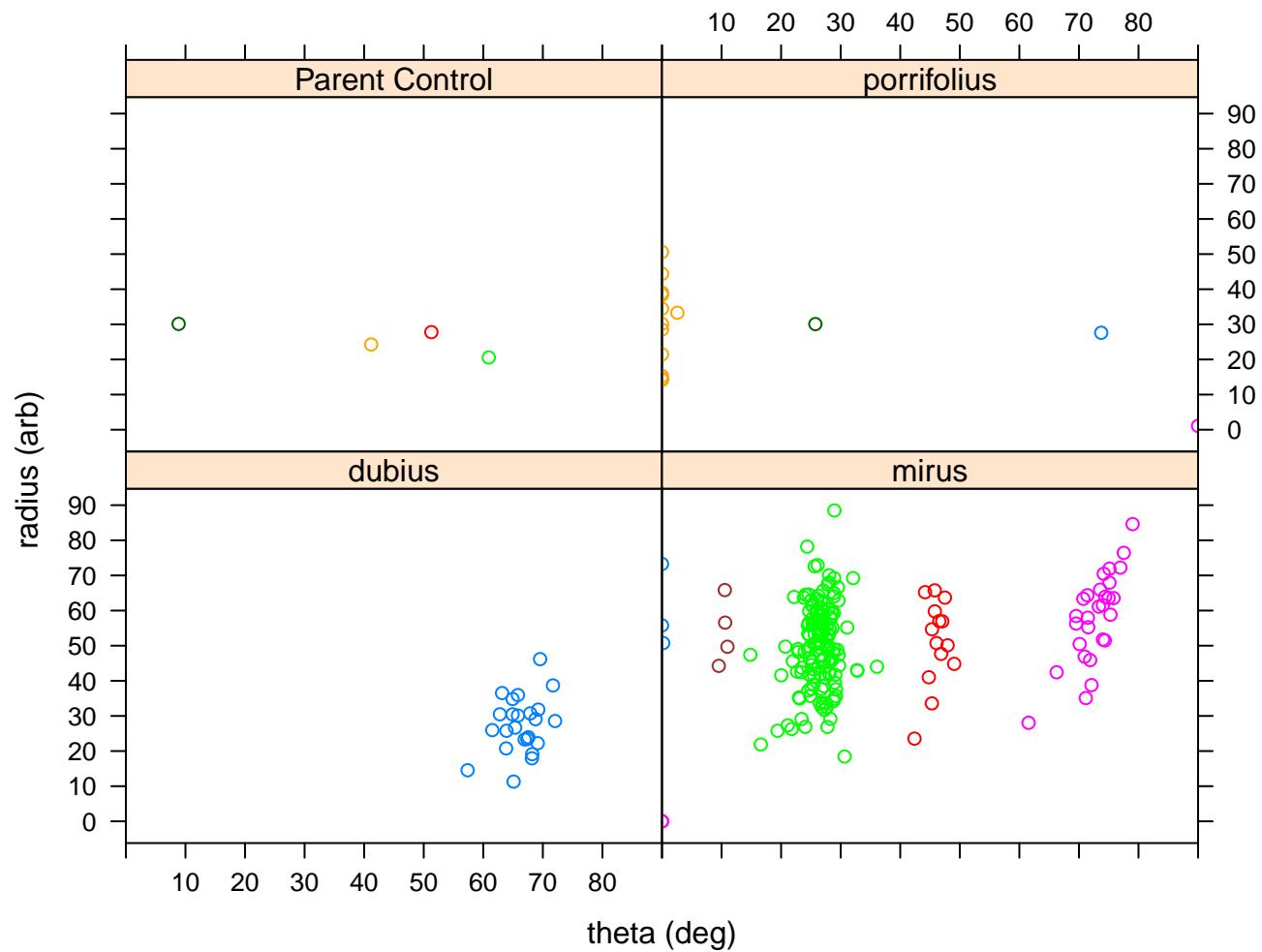
theta (deg)

radius (arb)

V_2_5_isotig12815_742 gDNA

Call

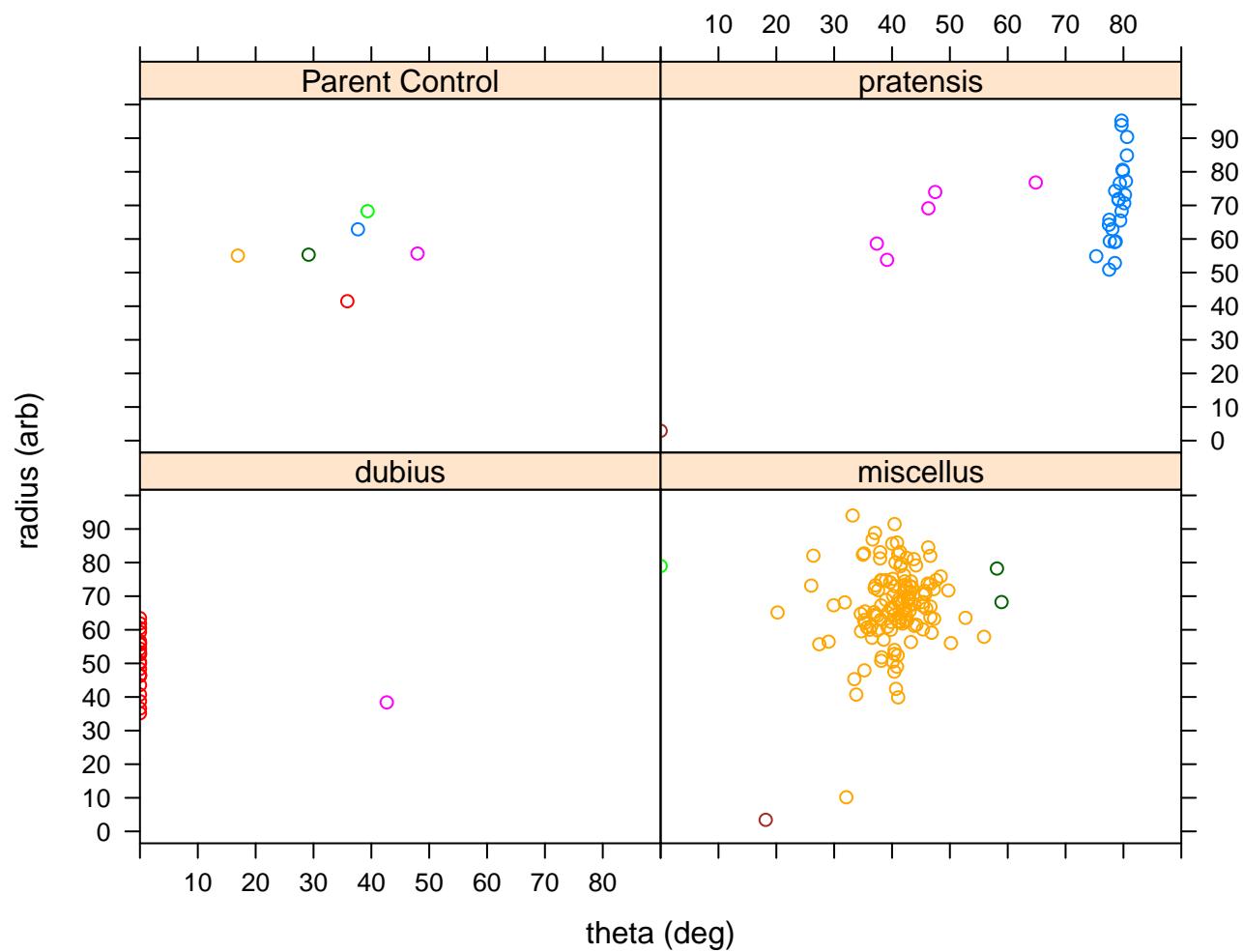
HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig12816_134 cDNA

Call

HH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○
No_Aleles	○		



V_2_5_isotig12826_424 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

90
80
70
60
50
40
30
20
10
0

dubius

mirus

radius (arb)

90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

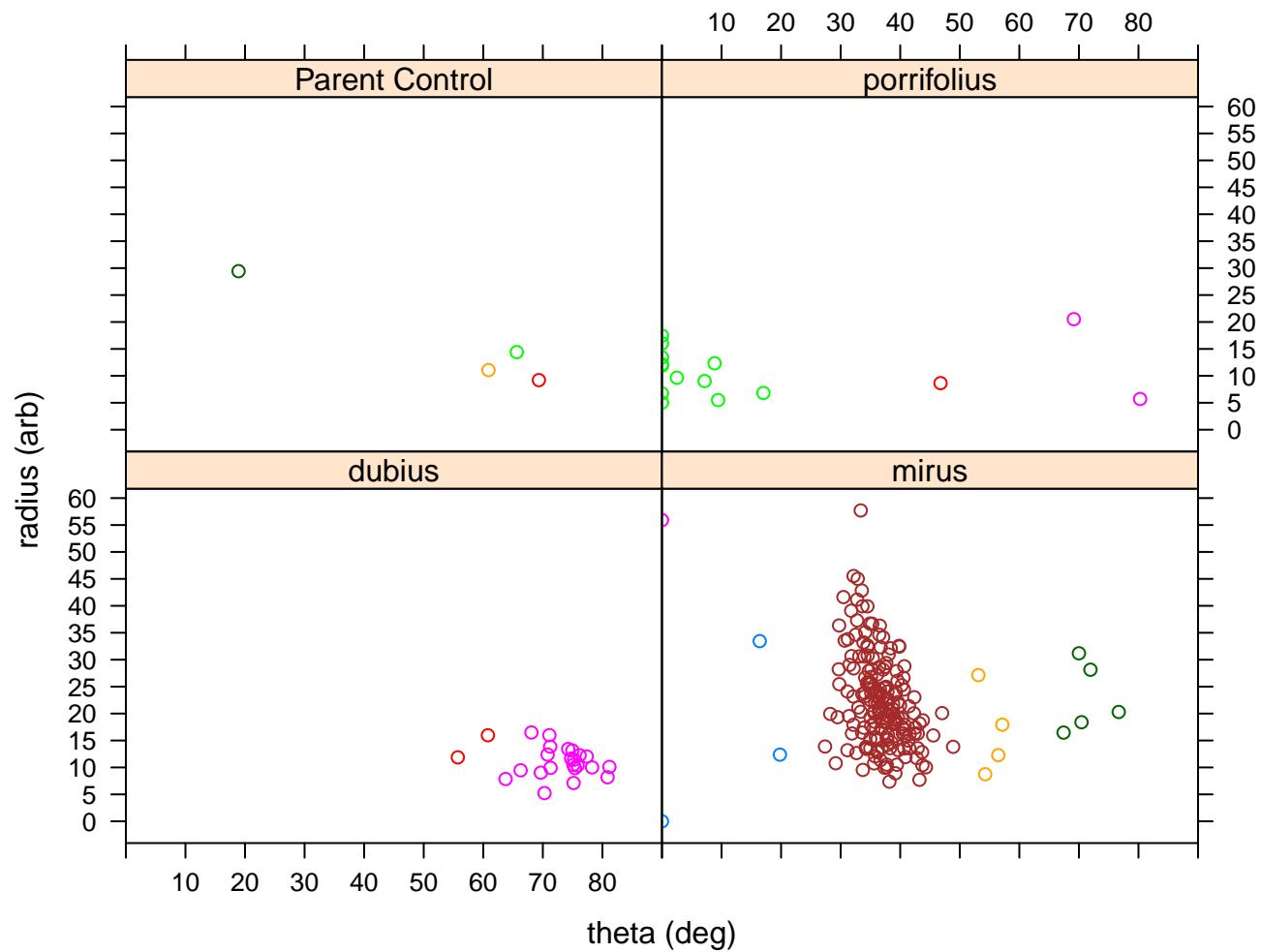
theta (deg)

90
80
70
60
50
40
30
20
10
0

V_2_5_isotig12837_707 gDNA

Call

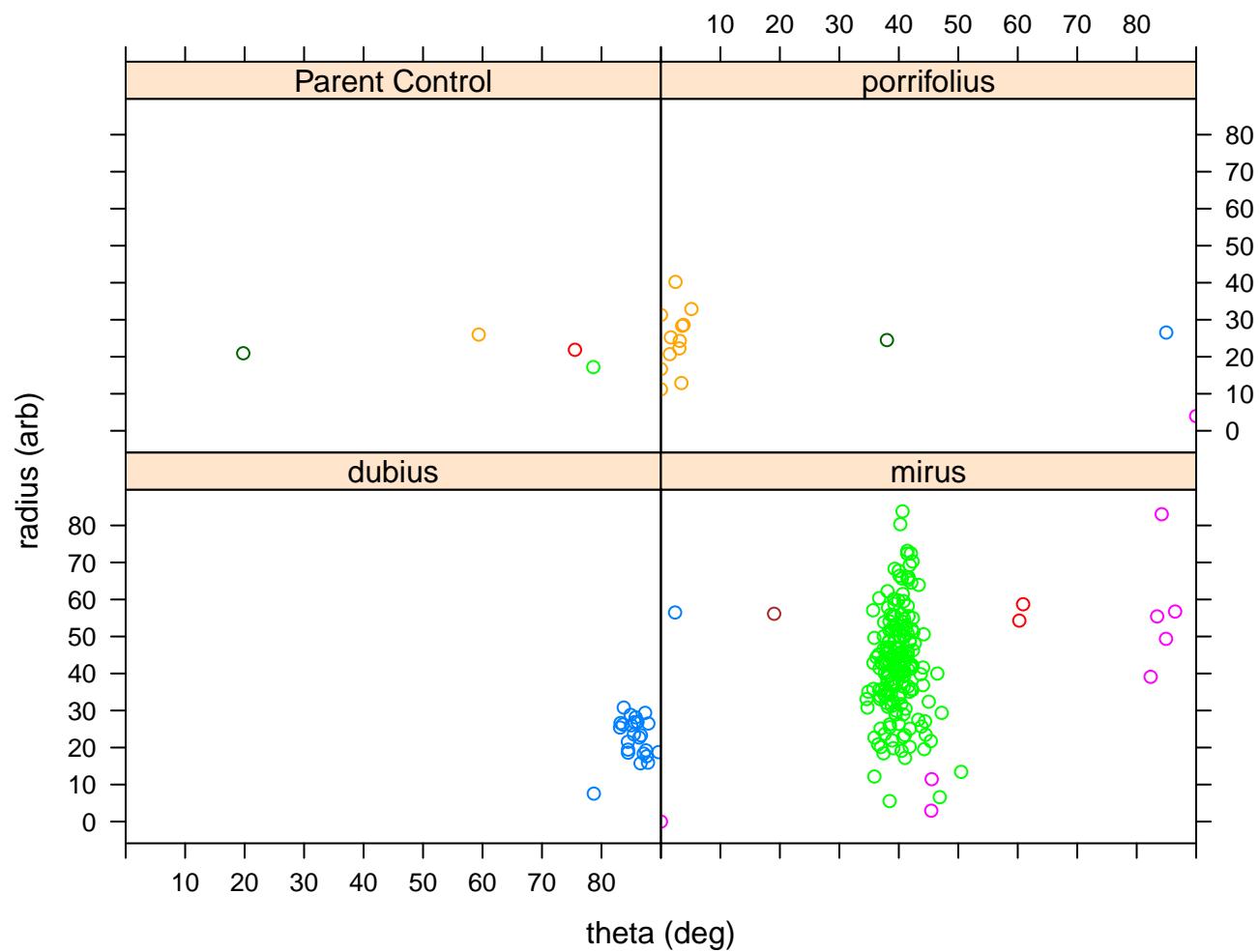
Bad_Spectrum	LLLH	Bad_Spectrum
HH	LLLL	HH
HHHH	PM1	HHHH
LH	PM2_1_1	LH
LHHH	PM2_1_2	LHHH
LL	PM2_2_1	LL
LLHH		LLHH



V_2_5_isotig12844_292 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig12844_292 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

80
70
60
50
40
30
20
10
0

dubius

mirus

radius (arb)

80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)

○

V_2_5_isotig12844_591 gDNA

Call

HH	○	LLLH	○
HHHH	○	LLLL	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

110
100
90
80
70
60
50
40
30
20
10
0

radius (arb)

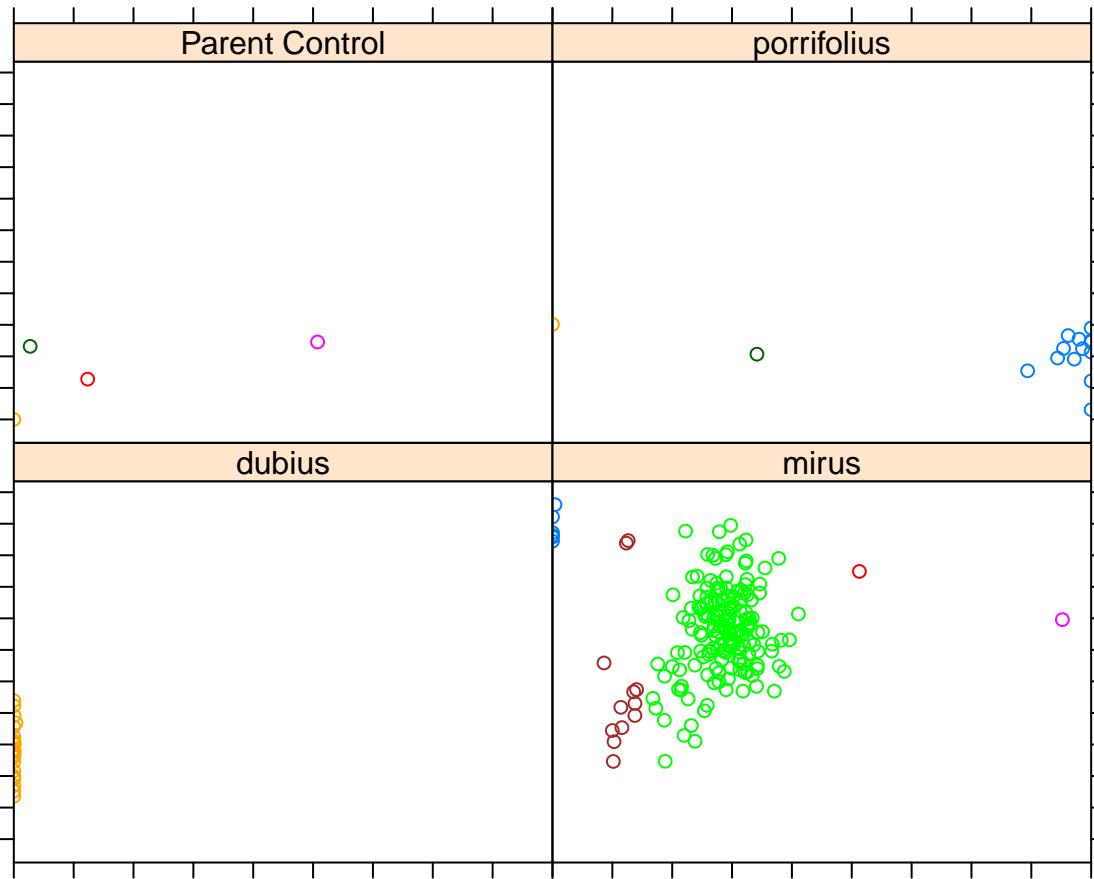
dubius

mirus

110
100
90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)

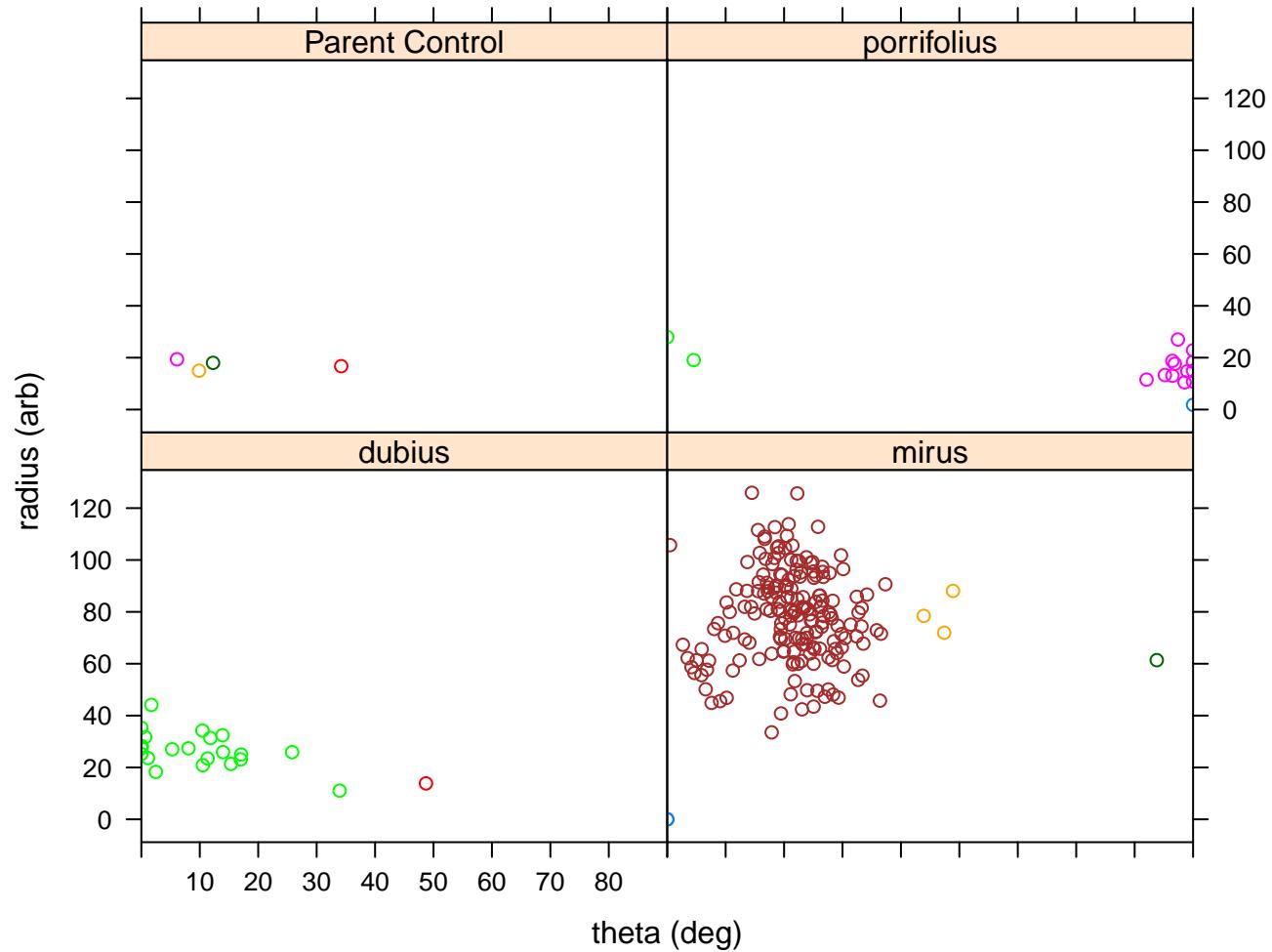


V_2_5_isotig12844_591 cDNA

Call

Bad_Spectrum	○	LLLL	○
HH	○	No_Alleles	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LHHH	○	PM2_1_2	○
LL	○	PM2_2_1	○

10 20 30 40 50 60 70 80



V_2_5_isotig12855_388 gDNA

Call

HH	○	PM3_1_2	○
LL	○	PM3_2_1	○
LLLL	○	PM4	○
No_Aleles	○	PM5	○
PM3_1_1	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

radius (arb)

18
16
14
12
10
8
6
4
2
0

dubius

miscellus

18
16
14
12
10
8
6
4
2
0

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig12855_388 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		

10 20 30 40 50 60 70 80

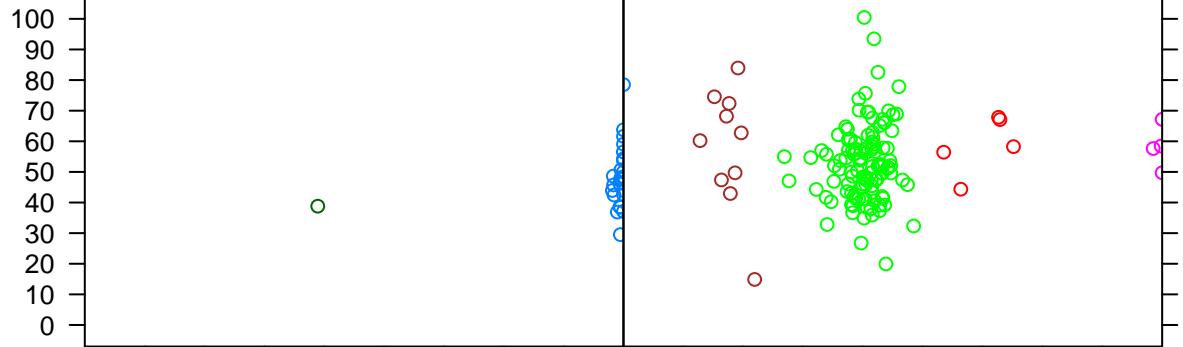
Parent Control

pratensis

100
90
80
70
60
50
40
30
20
10
0

dubius

miscellus

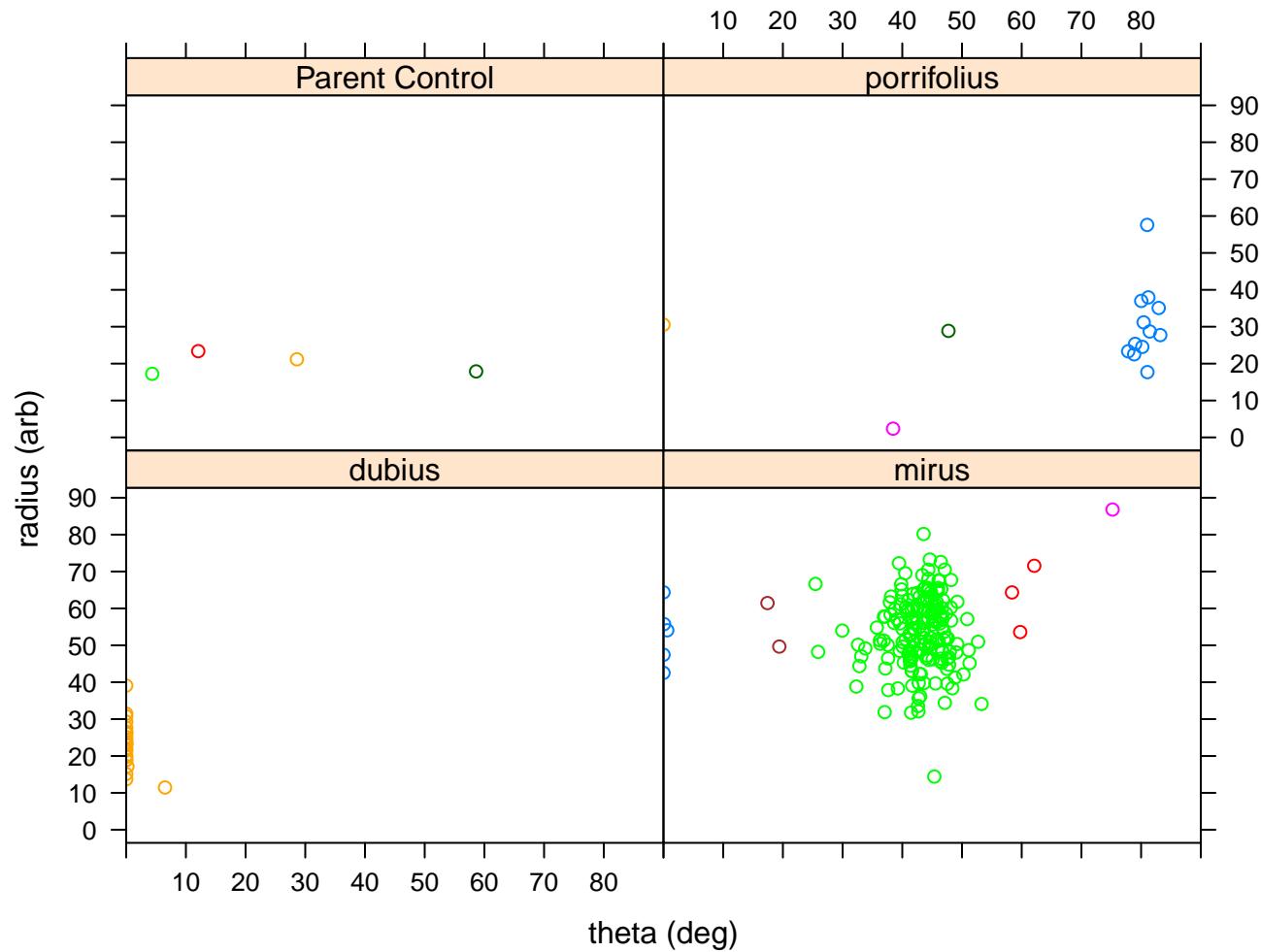


theta (deg)

V_2_5_isotig12983_189 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig12983_189 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

90
80
70
60
50
40
30
20
10
0

dubius

mirus

radius (arb)

90
80
70
60
50
40
30
20
10
0

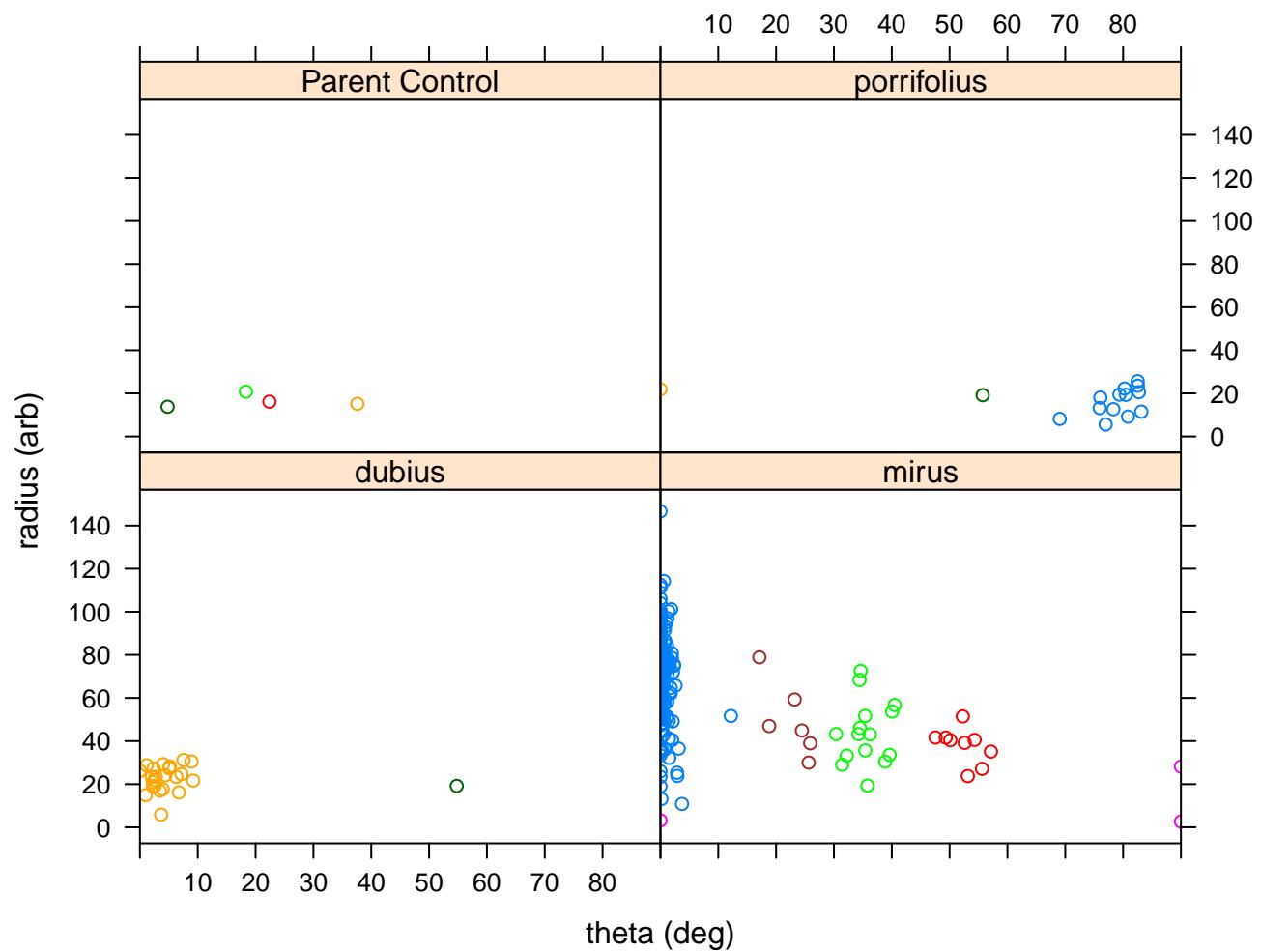
10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig13032_408 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		

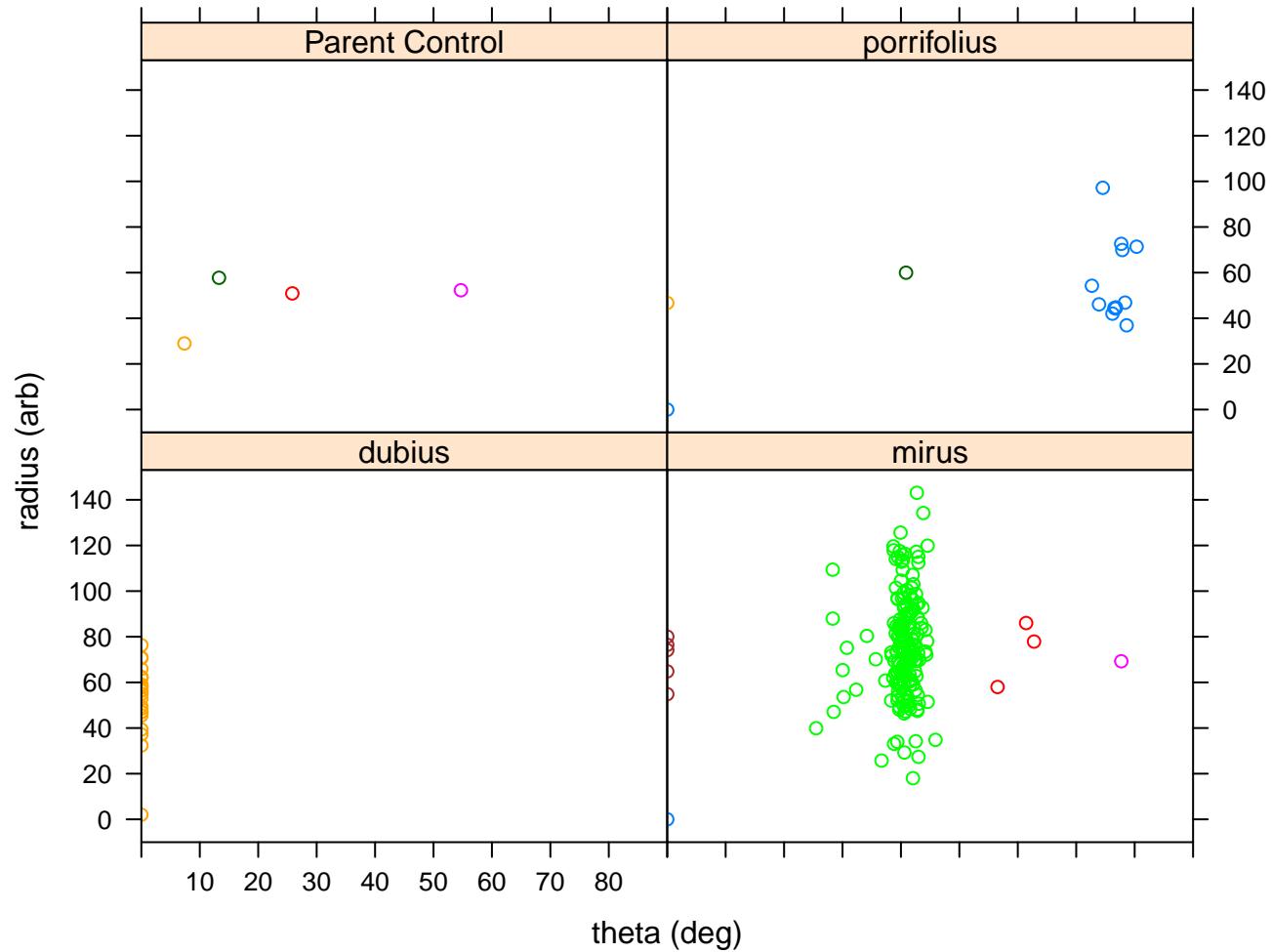


V_2_5_isotig13041_268 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

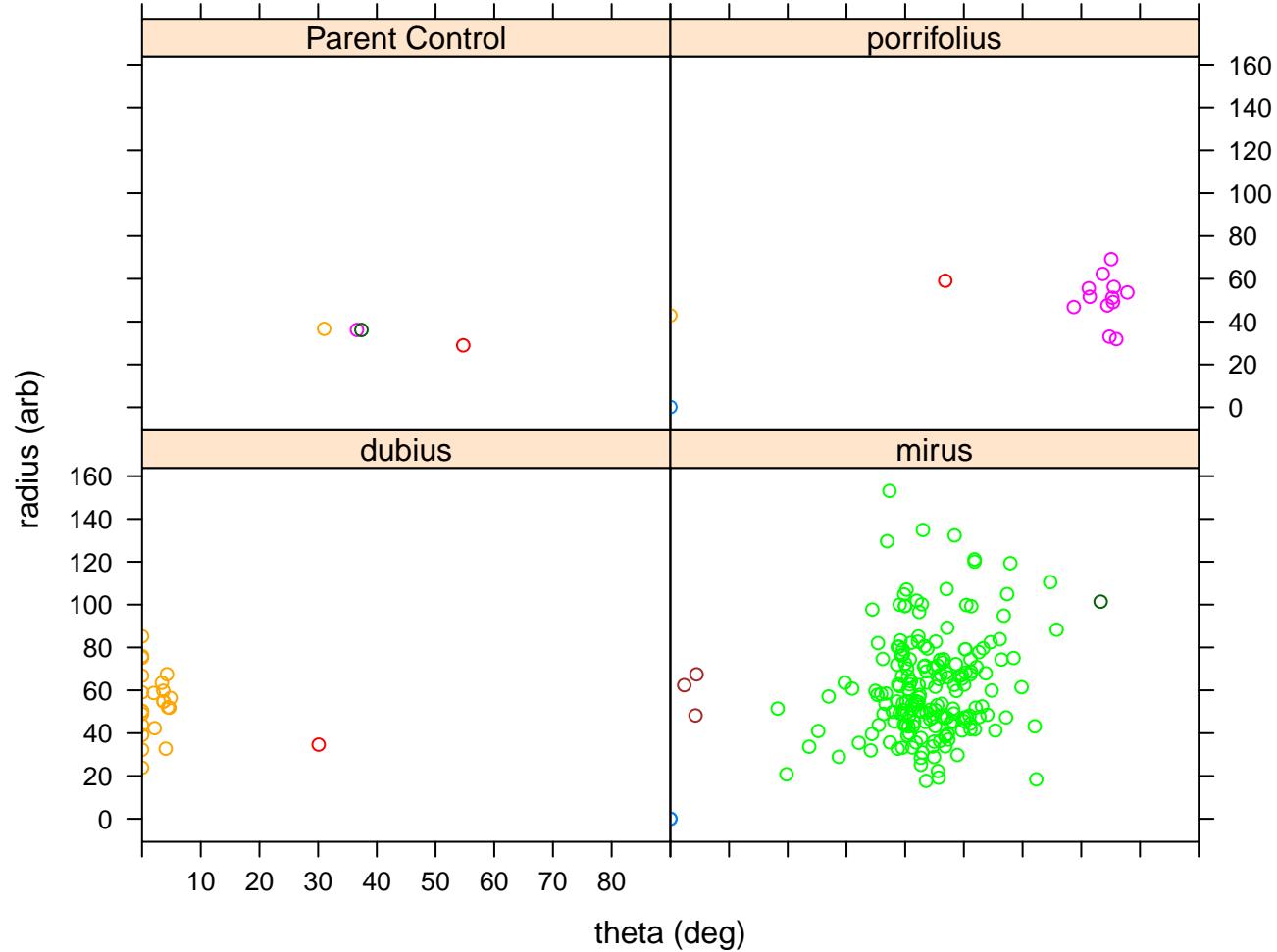


V_2_5_isotig13041_268 cDNA

Call

Bad_Spectrum	○	LLLL	○
HH	○	No_Alleles	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

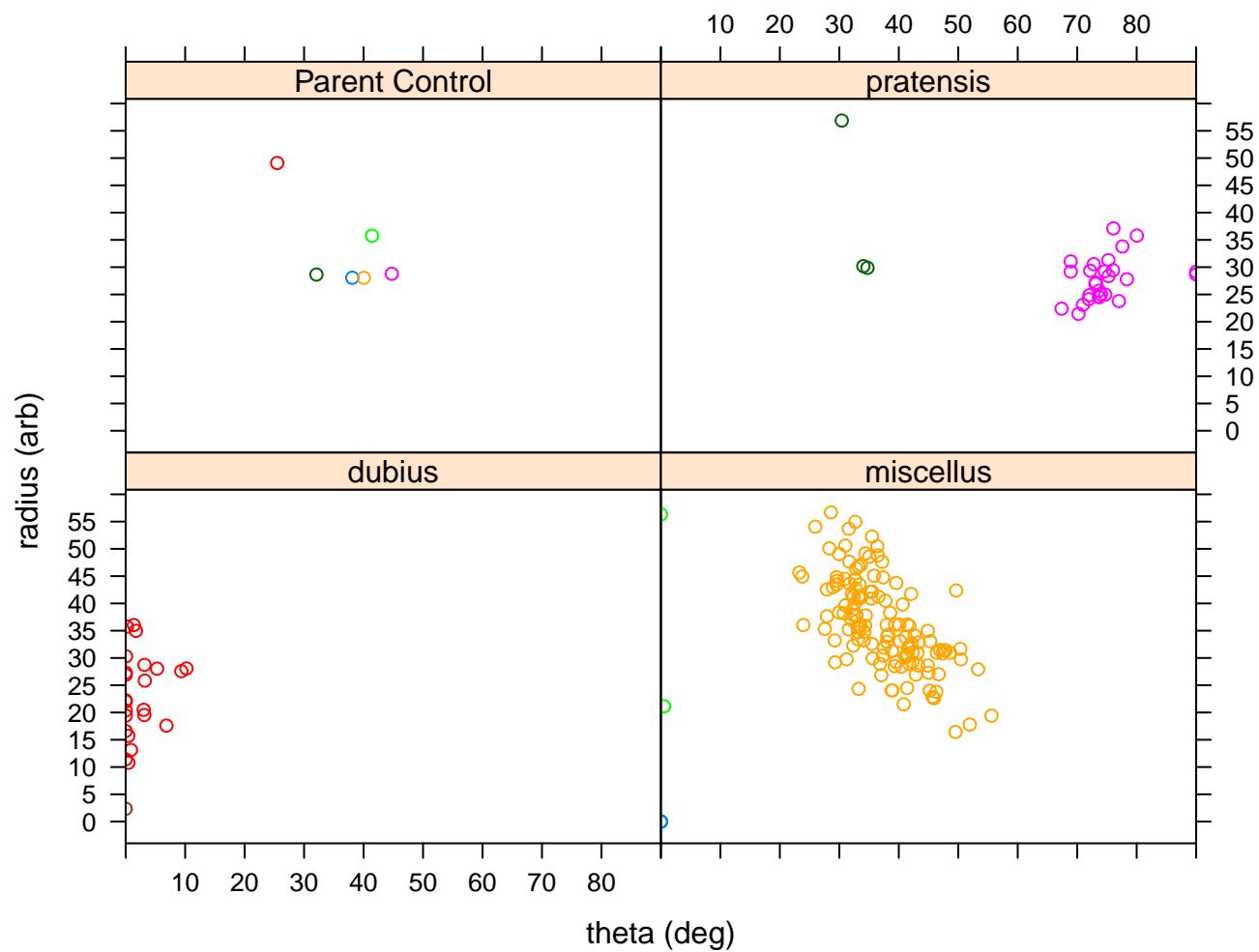
10 20 30 40 50 60 70 80



V_2_5_isotig13054_638 gDNA

Call

Bad_Spectrum	○	PM3_1_1	○
HH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLLH	○	PM5	○
LLLL	○	PM6	○
No_Alleles	○		



V_2_5_isotig13054_638 cDNA

Call

Bad_Spectrum
HH
LH
LL
LLHH
LLLL

PM3_1_1
PM3_1_2
PM3_2_1
PM4
PM5
PM6

10 20 30 40 50 60 70 80

Parent Control

pratensis

dubius

miscellus

radius (arb)

80

70

60

50

40

30

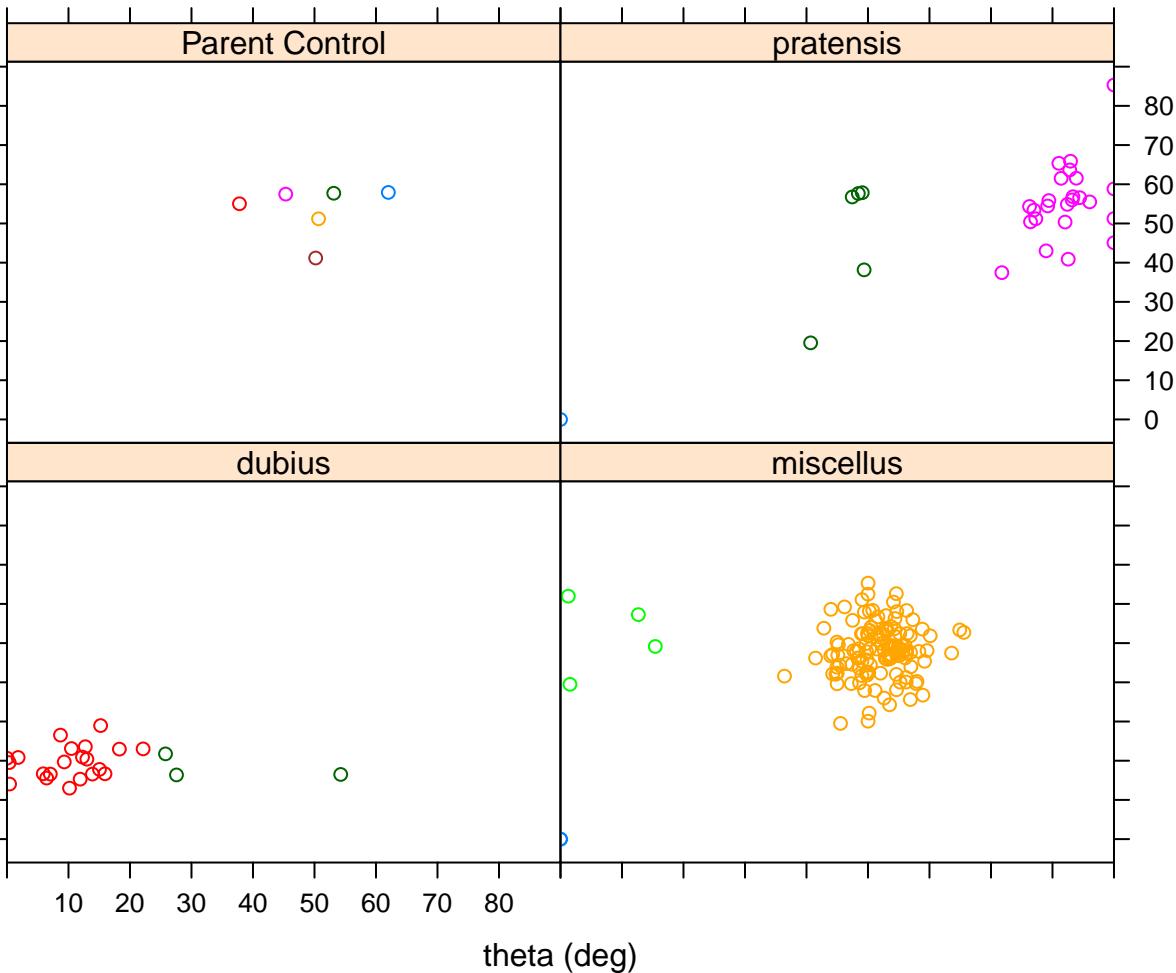
20

10

0

10 20 30 40 50 60 70 80

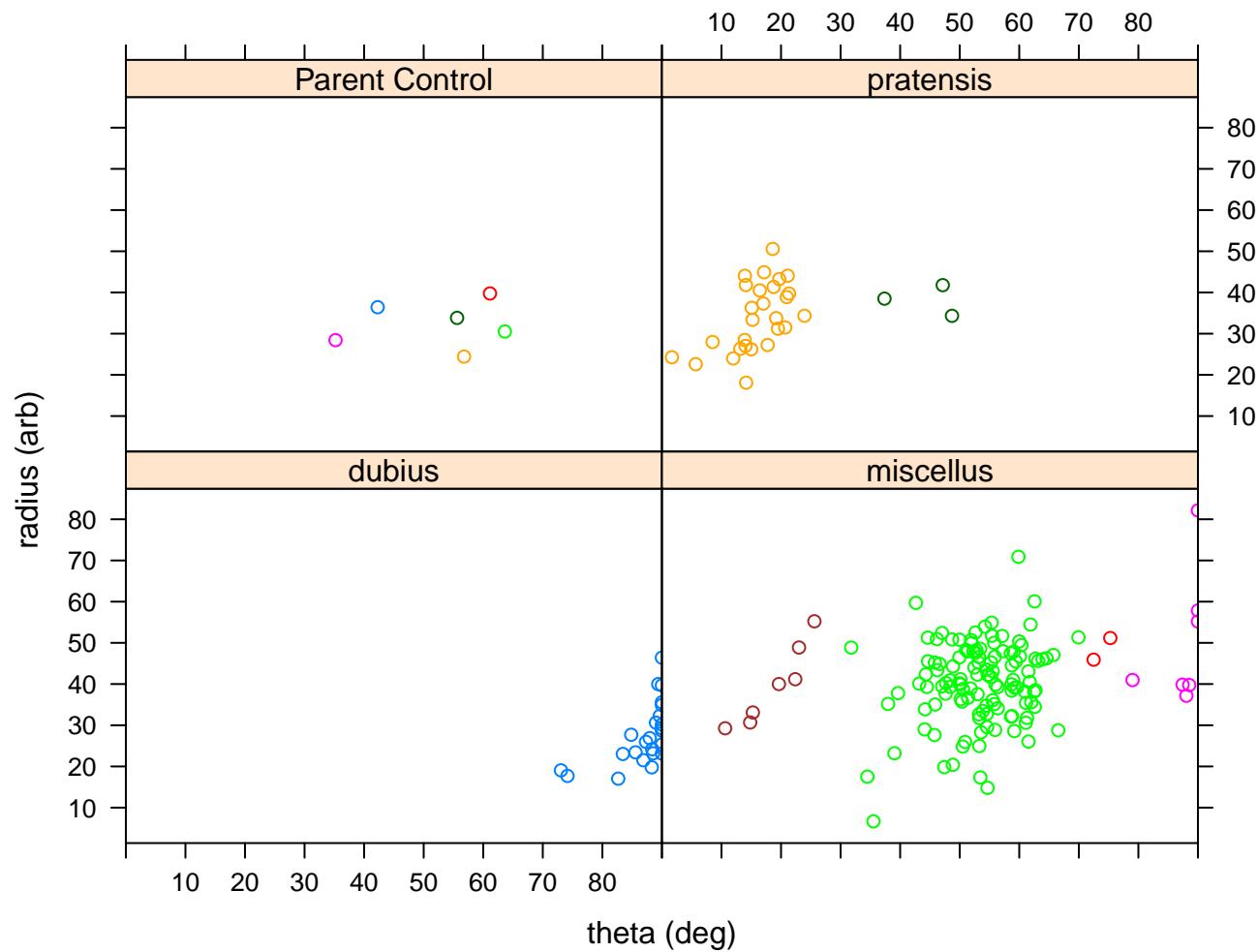
theta (deg)



V_2_5_isotig13093_580 gDNA

Call

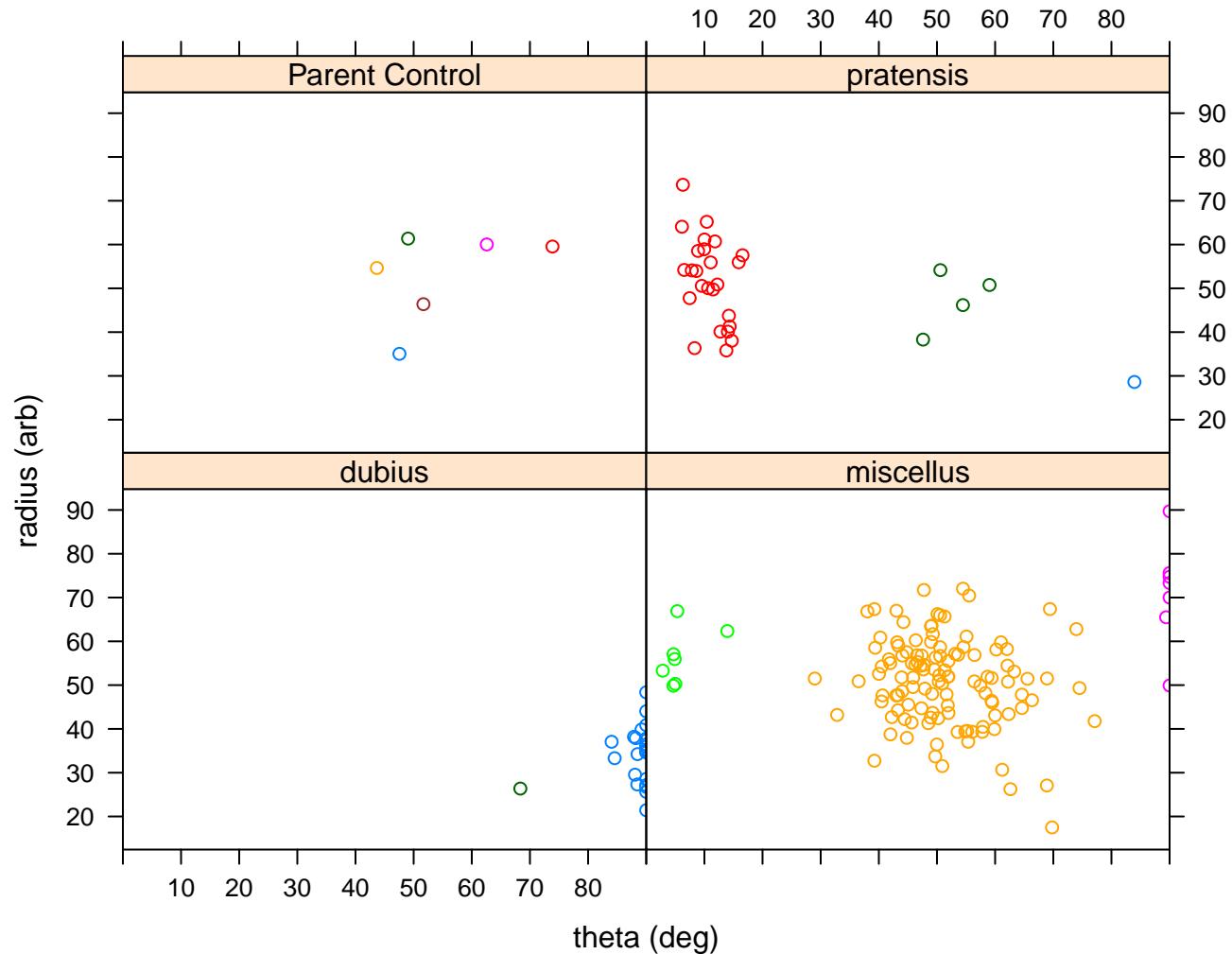
HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LHHH	○	PM4	○
LL	○	PM5	○
LLHH	○	PM6	○
LLLL	○		



V_2_5_isotig13093_580 cDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○



V_2_5_isotig13116_313 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

140
130
120
110
100
90
80
70
60
50
40
30
20
10

dubius

miscellus

140
130
120
110
100
90
80
70
60
50
40
30
20
10

radius (arb)

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig13116_313 cDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

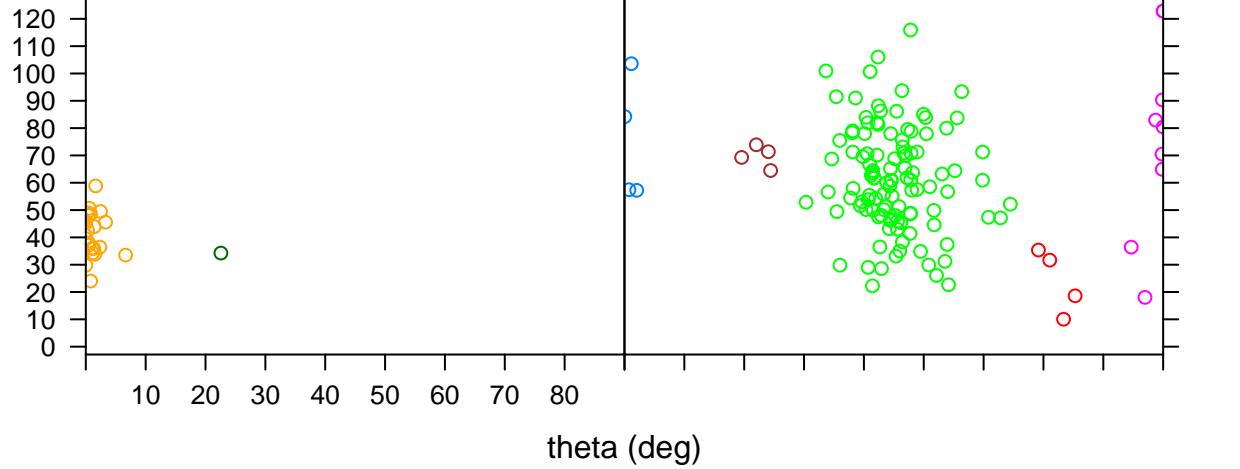
radius (arb)

Parent Control

pratensis

dubius

miscellus



V_2_5_isotig13121_595 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

45
40
35
30
25
20
15
10
5
0

dubius

mirus

45
40
35
30
25
20
15
10
5
0

10 20 30 40 50 60 70 80

theta (deg)

radius (arb)

V_2_5_isotig13121_595 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

70
60
50
40
30
20
10
0

dubius

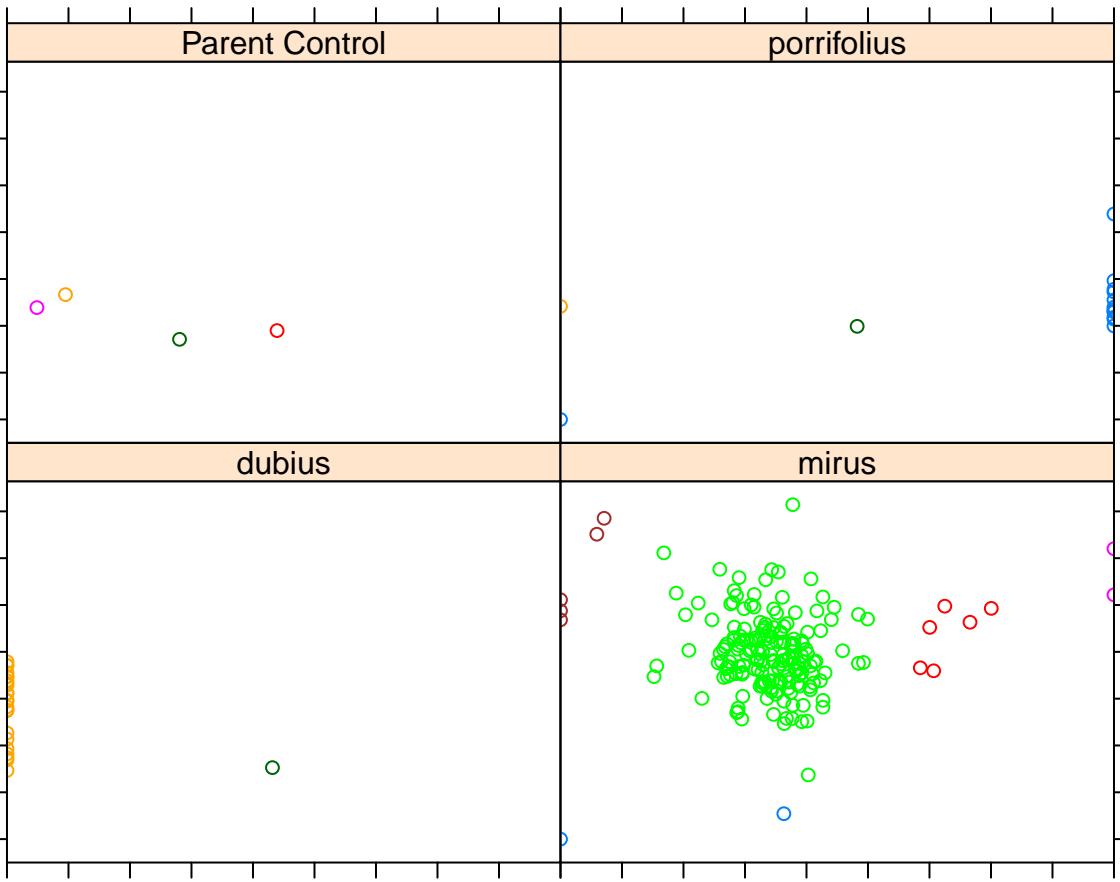
mirus

radius (arb)

70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

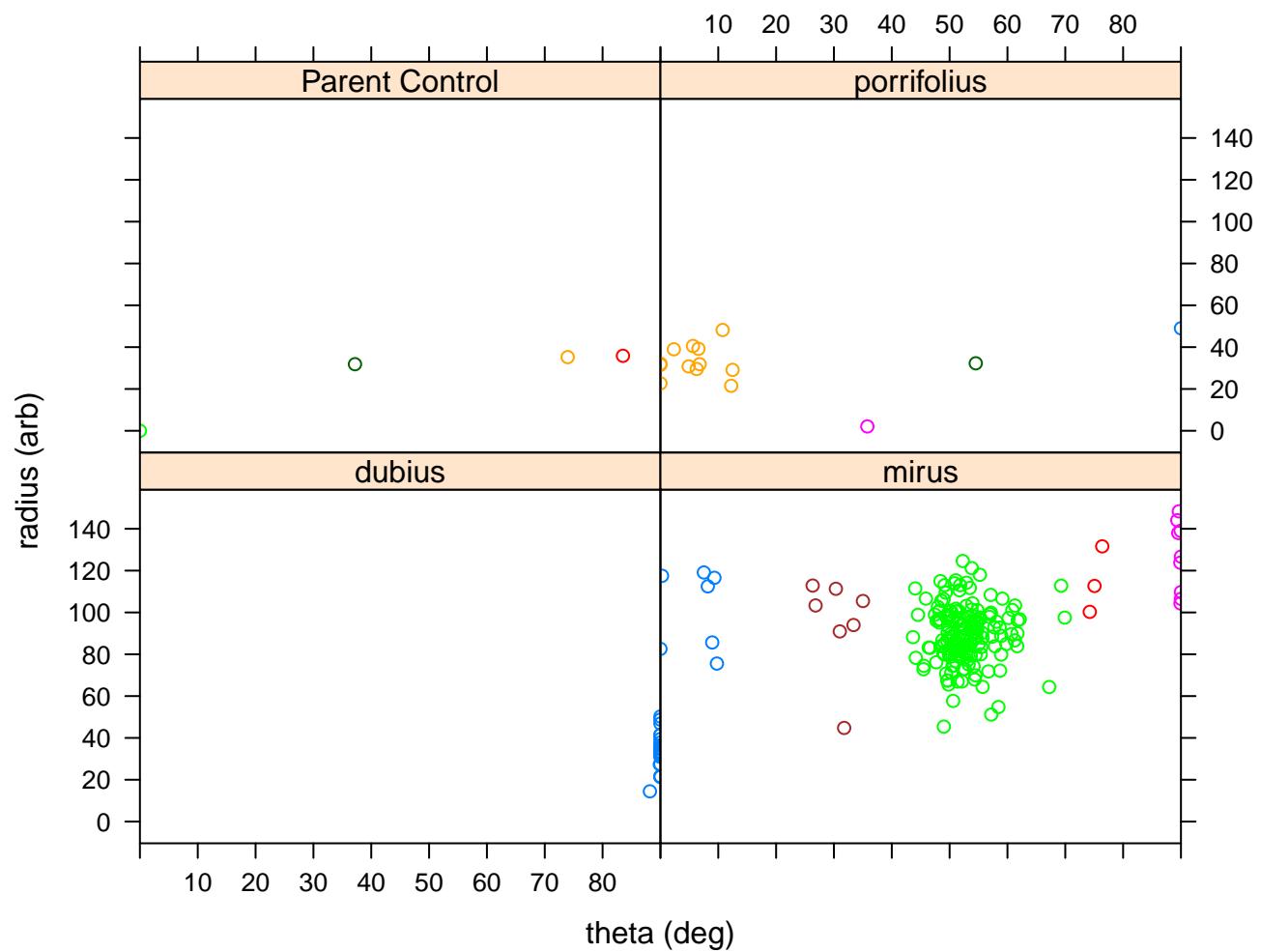
theta (deg)



V_2_5_isotig13195_155 gDNA

Call

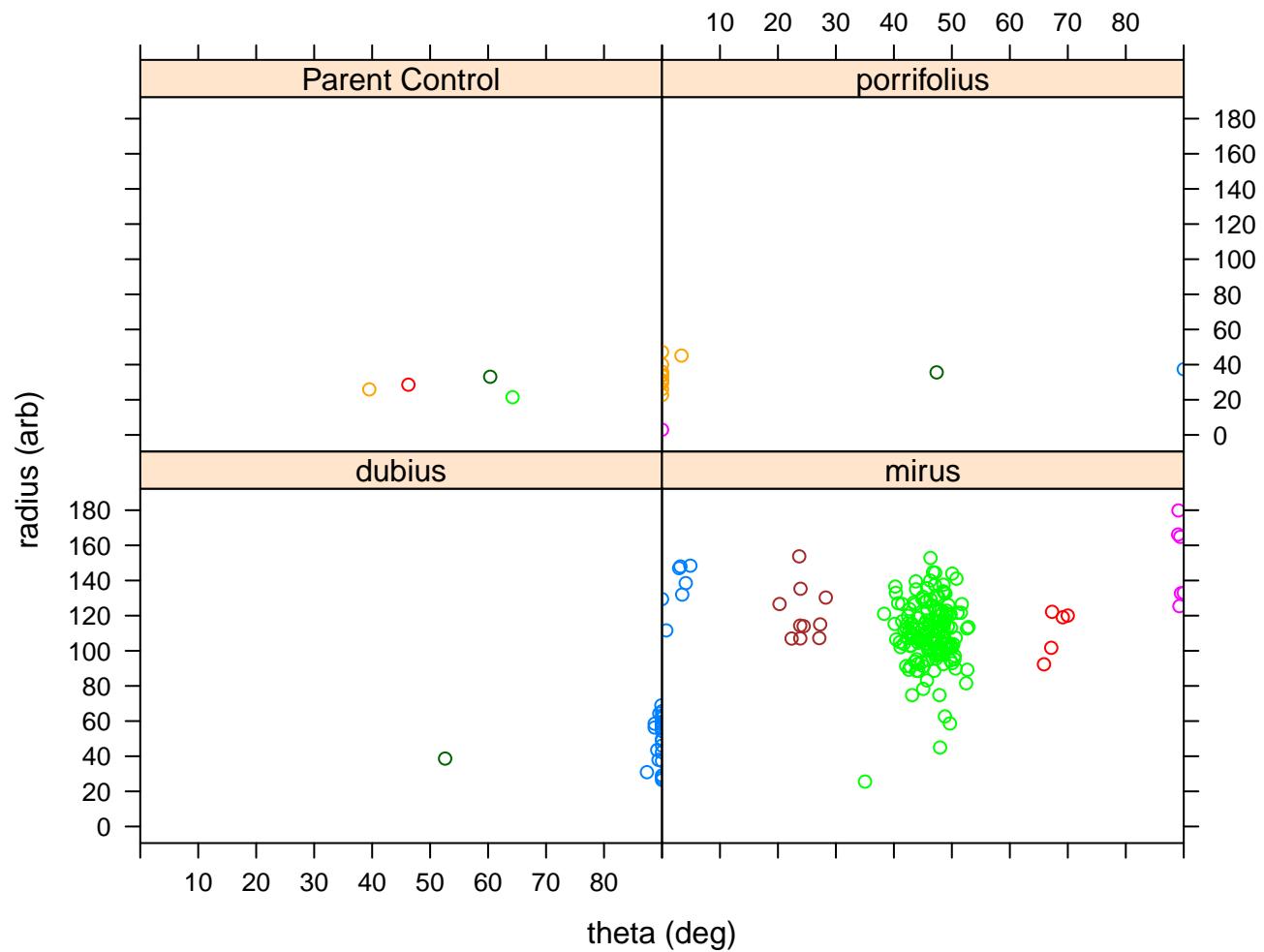
HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig13195_155 cDNA

Call

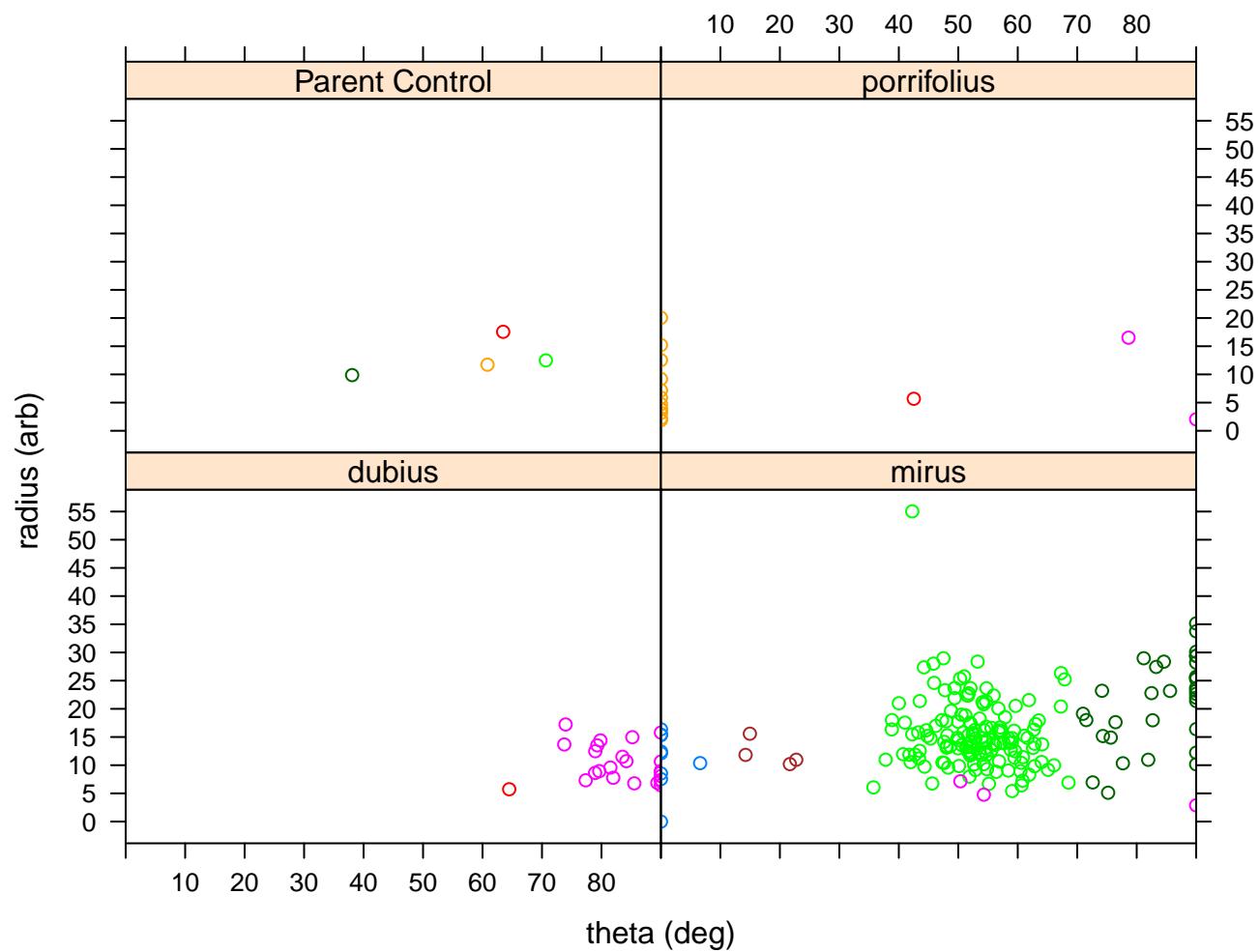
HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig13200_292 gDNA

Call

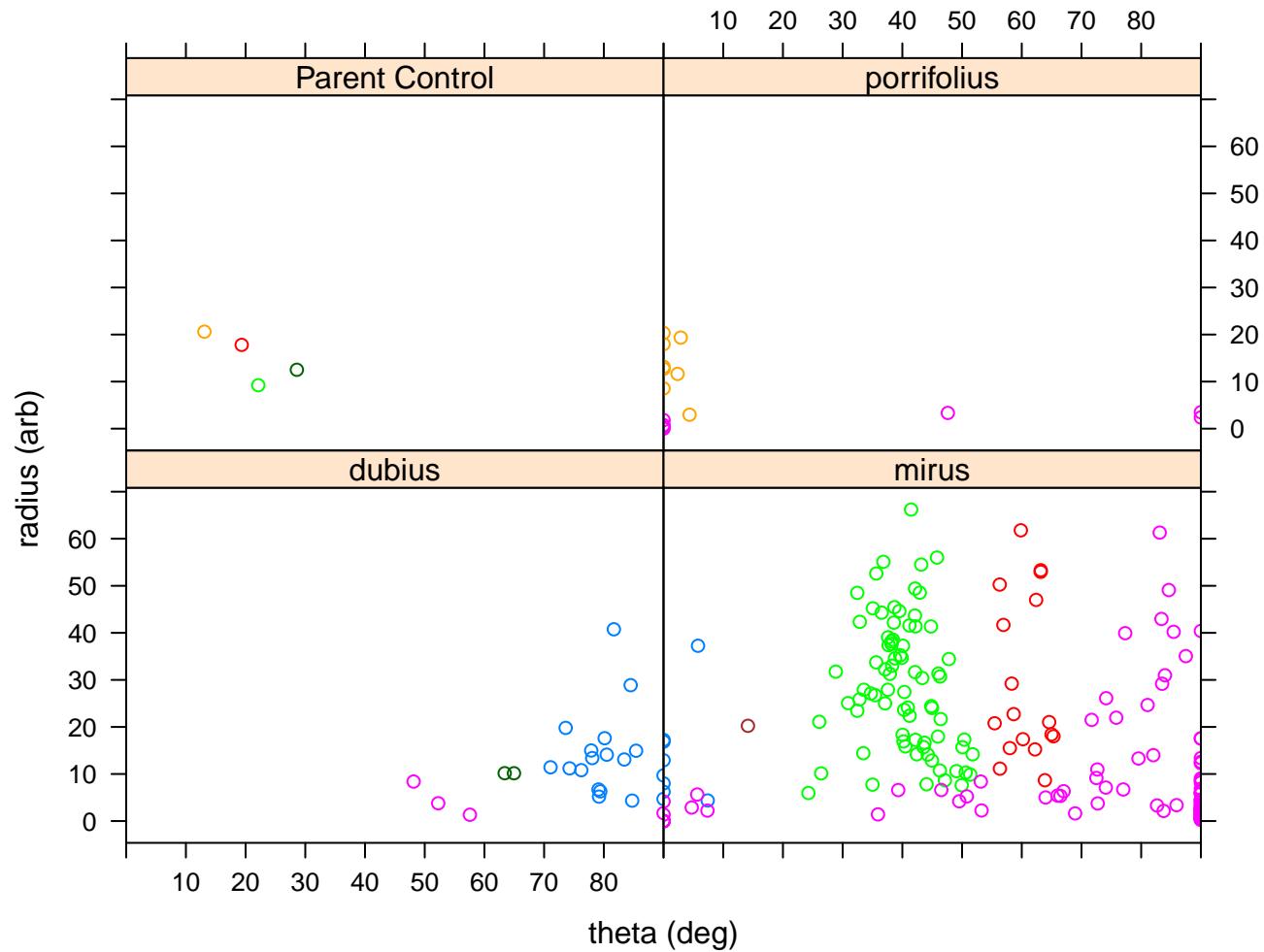
Bad_Spectrum	○	LLLL	○
HH	○	No_Alleles	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig13200_292 cDNA

Call

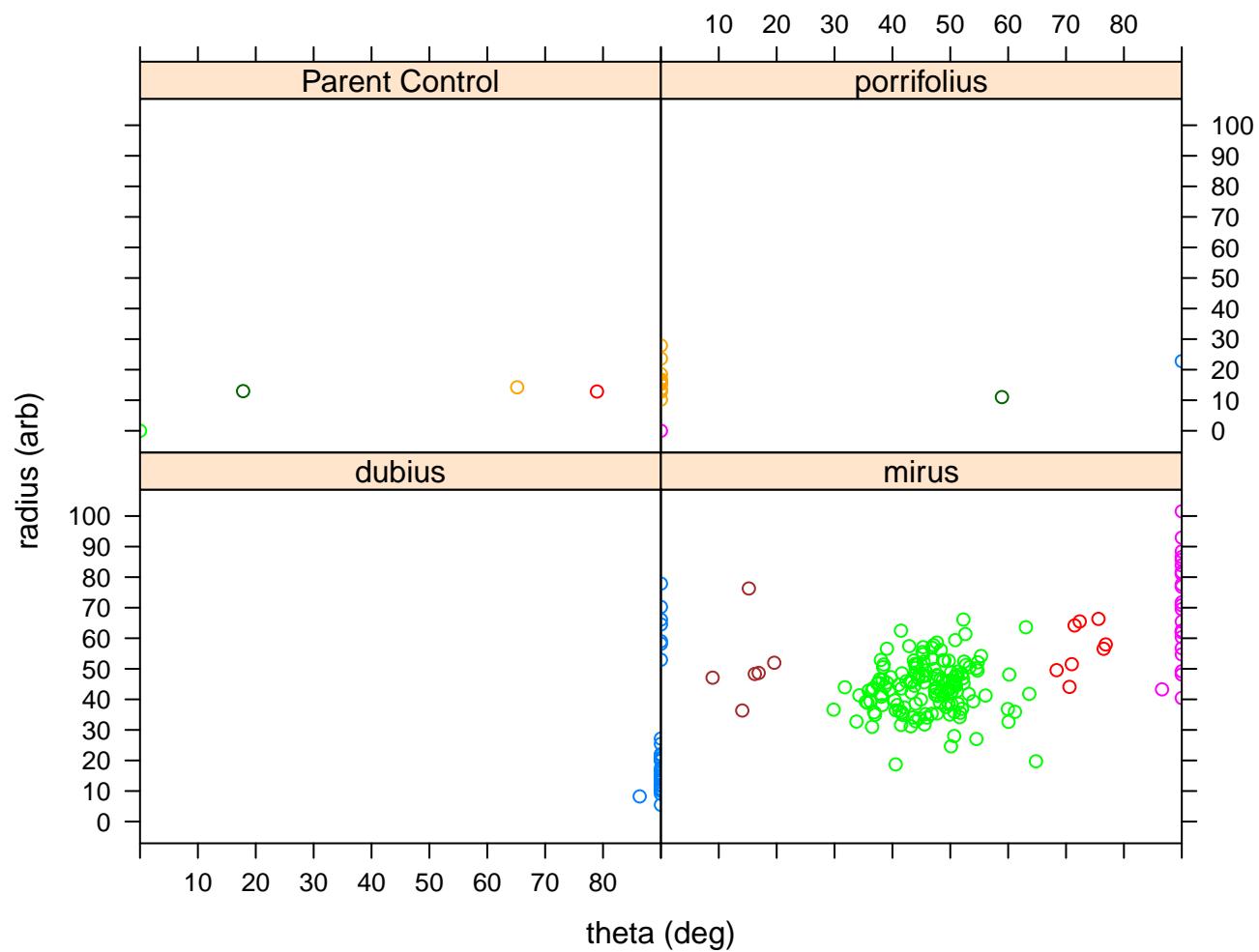
HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig13200_343 gDNA

Call

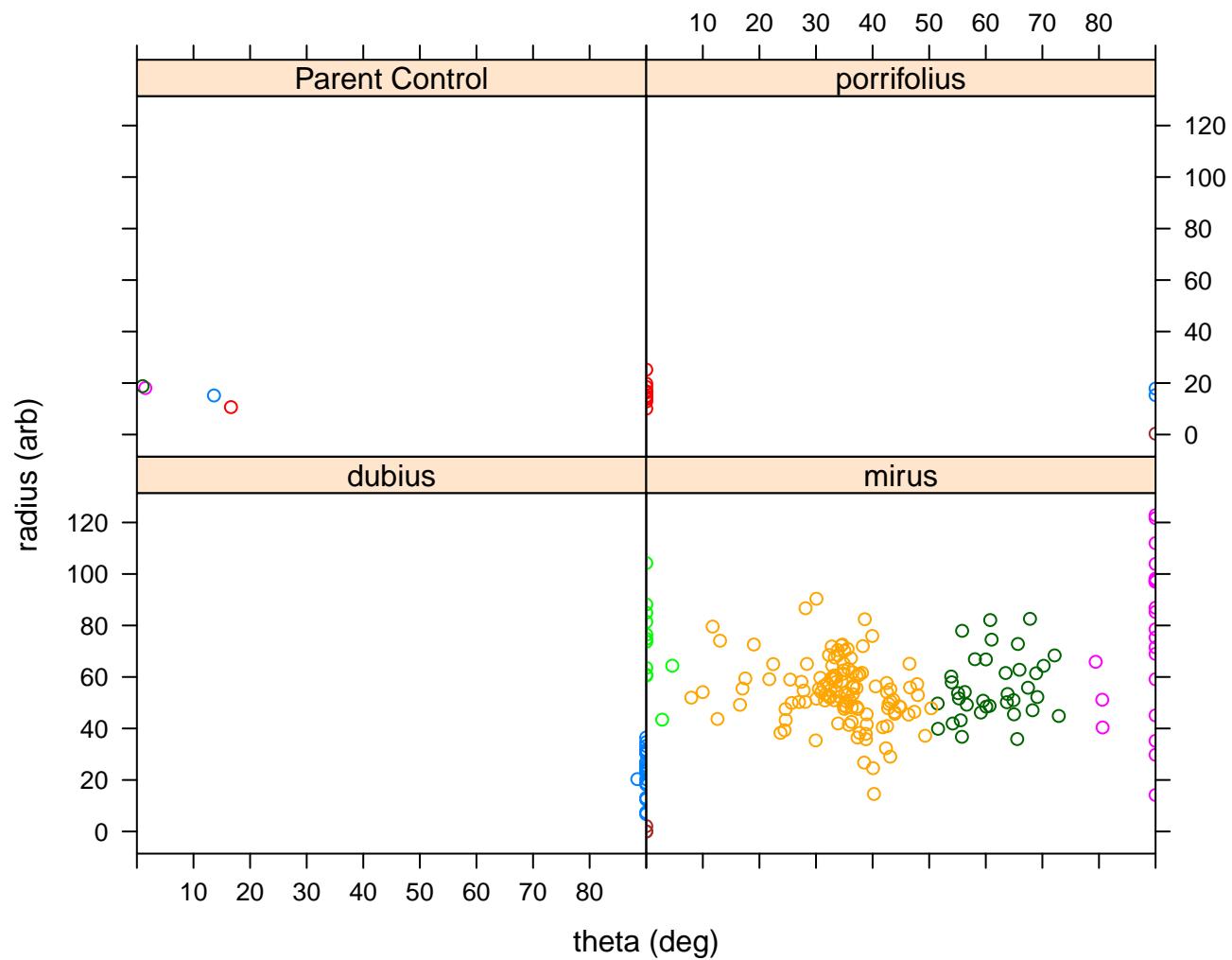
HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig13200_343 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLL	○		○



V_2_5_isotig13216_132 gDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

80
70
60
50
40
30
20

dubius

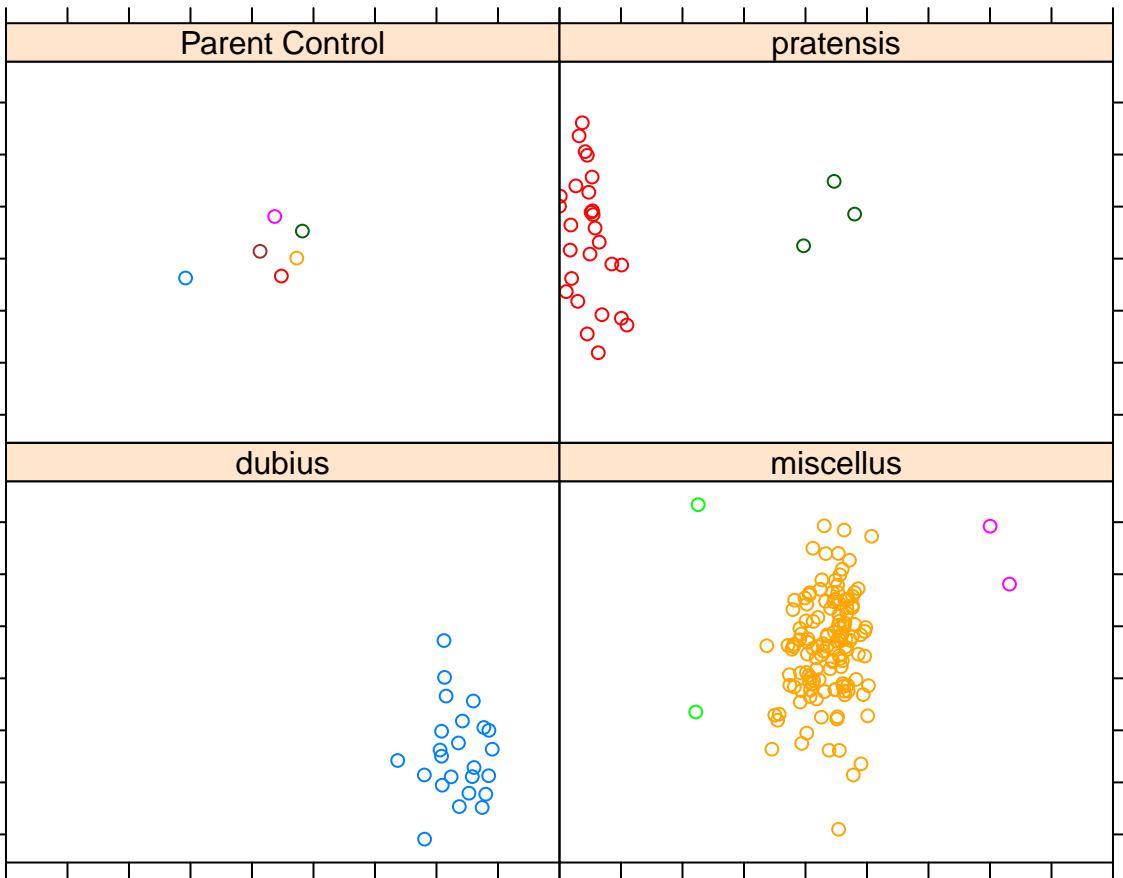
miscellus

radius (arb)

80
70
60
50
40
30
20

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig13216_132 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LL	○	PM3_2_1	○
LLHH	○	PM4	○
LLLH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

80
70
60
50
40
30
20
10

radius (arb)

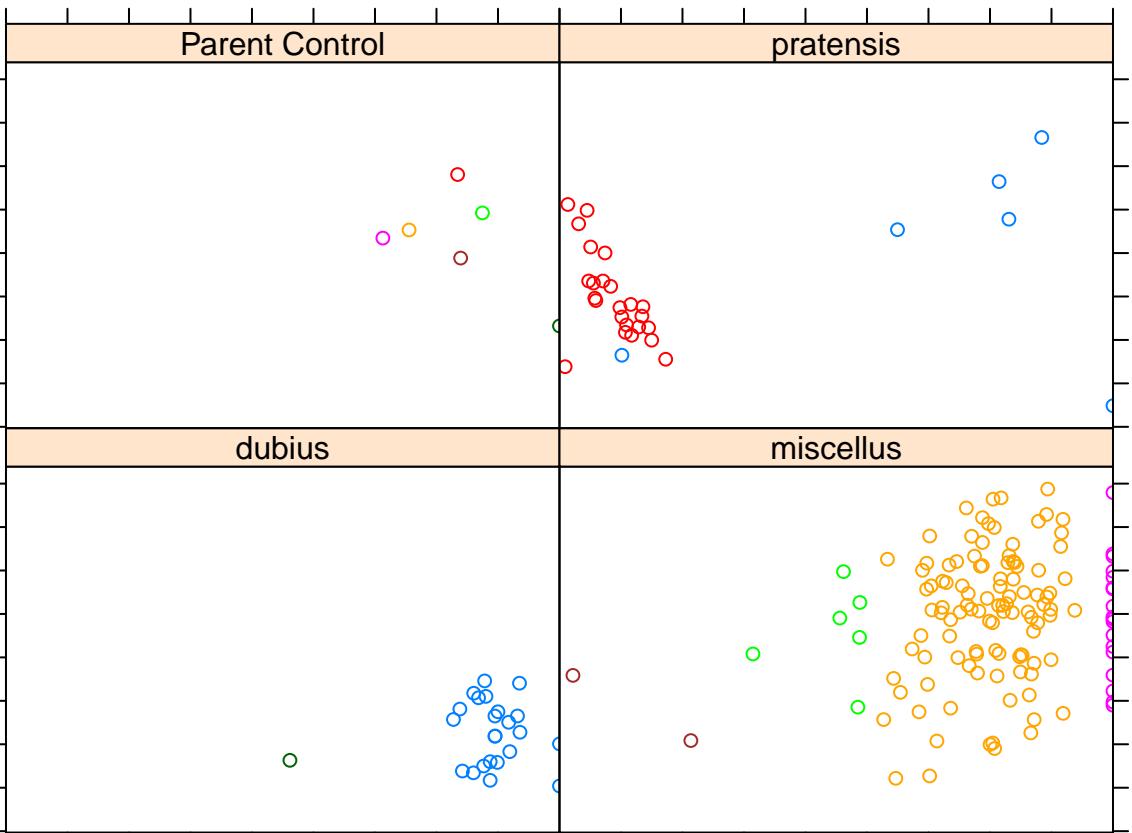
dubius

miscellus

80
70
60
50
40
30
20
10

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig13238_198 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

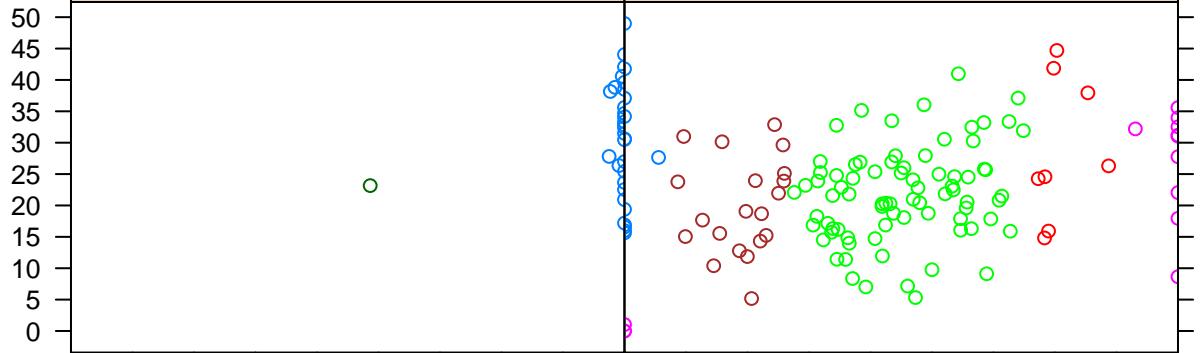
pratensis

50
45
40
35
30
25
20
15
10
5
0

dubius

miscellus

radius (arb)



theta (deg)

V_2_5_isotig13320_668 gDNA

Call

HH	○	PM1	○
HHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLLL	○	PM2_2_1	○
No_Alleles	○		

10 20 30 40 50 60 70 80

Parent Control

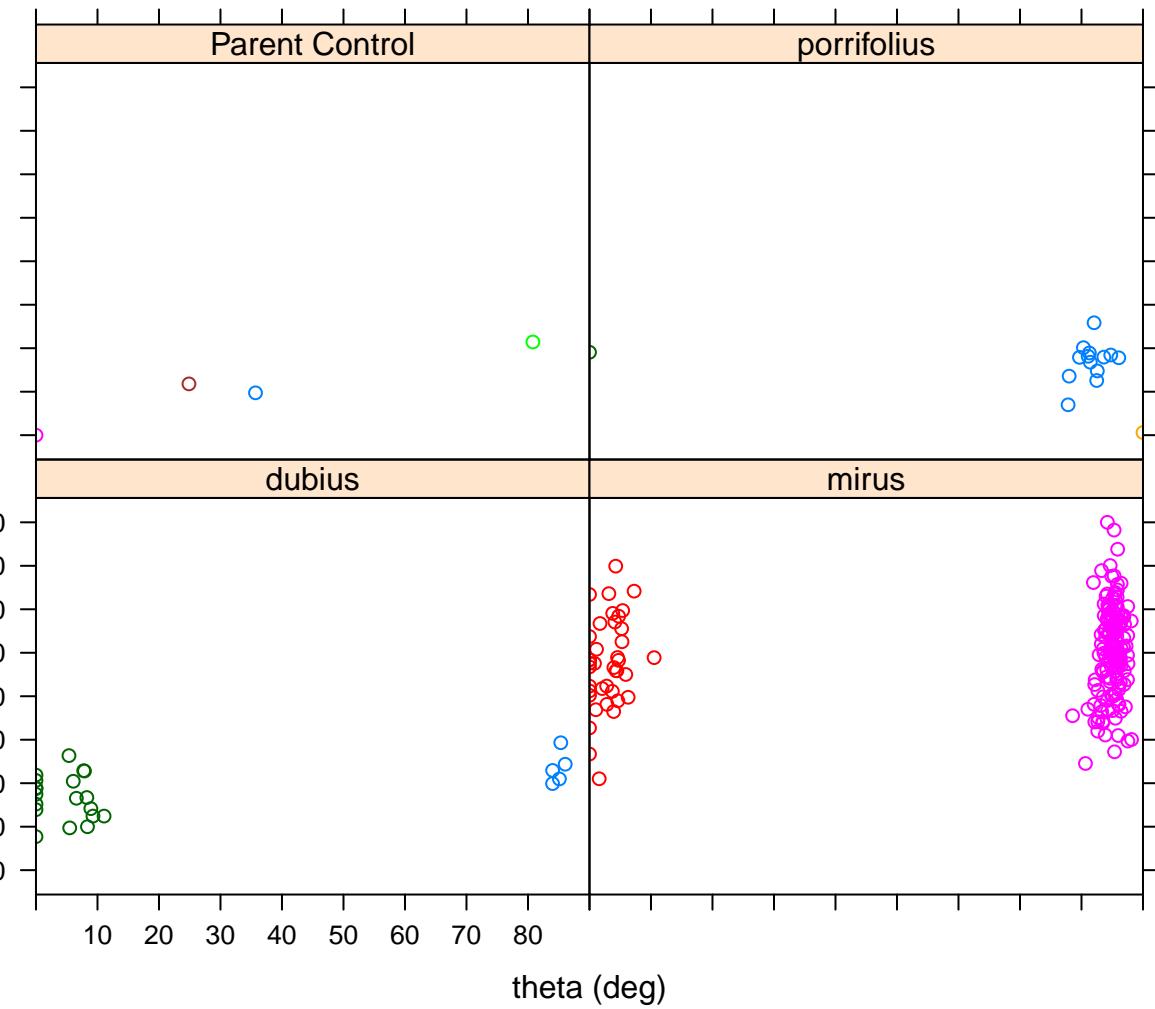
porrifolius

radius (arb)

80
70
60
50
40
30
20
10
0

dubius

mirus



theta (deg)

V_2_5_isotig13349_674 gDNA

Call

Bad_Spectrum	○	No_Aleles	○
HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

radius (arb)

40
35
30
25
20
15
10
5
0

dubius

miscellus

10 20 30 40 50 60 70 80

theta (deg)

6

V_2_5_isotig13349_674 cDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○
No_Alleles	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

50
45
40
35
30
25
20
15
10
5
0

radius (arb)

dubius

miscellus

50
45
40
35
30
25
20
15
10
5
0

10 20 30 40 50 60 70 80

theta (deg)

50
45
40
35
30
25
20
15
10
5
0

V_2_5_isotig13392_516 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

radius (arb)

dubius

mirus

35
30
25
20
15
10
5
0

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig13417_279 gDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LHHH	○	PM4	○
LL	○	PM5	○
LLLH	○	PM6	○
No_Alleles	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

65
60
55
50
45
40
35
30
25
20
15
10
5

radius (arb)

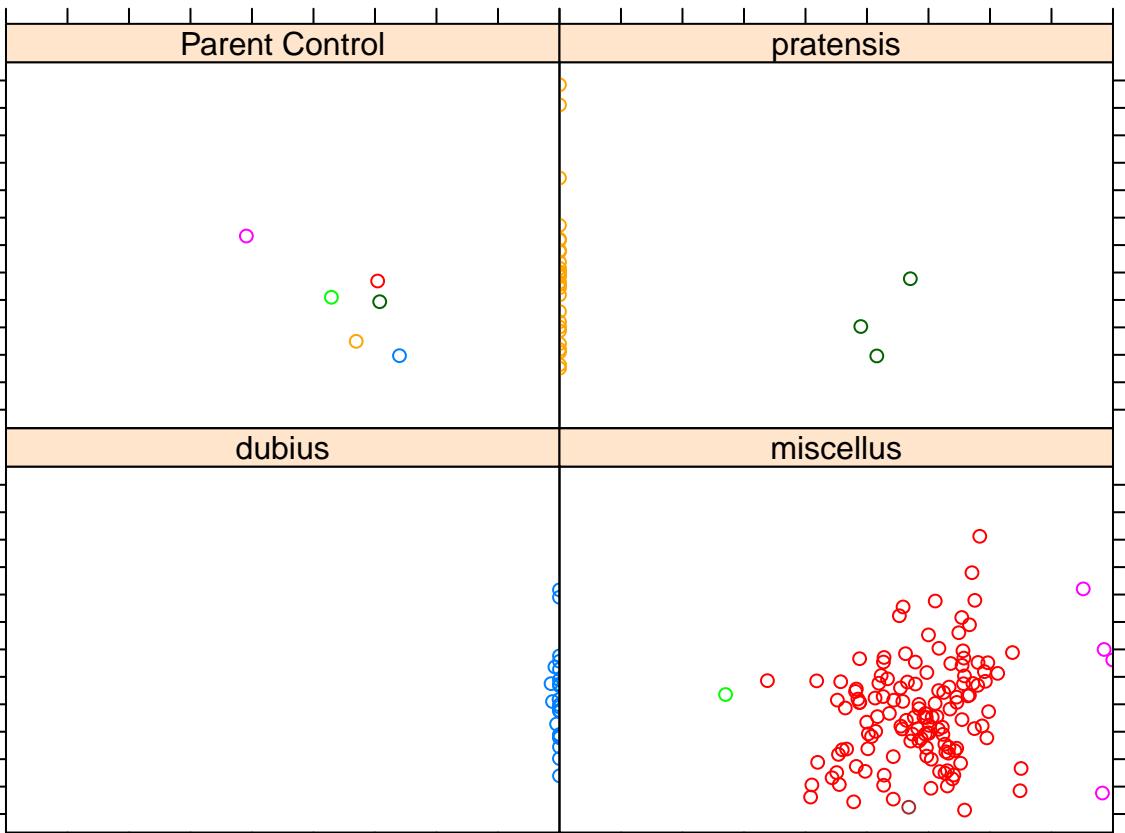
dubius

miscellus

65
60
55
50
45
40
35
30
25
20
15
10
5

10 20 30 40 50 60 70 80

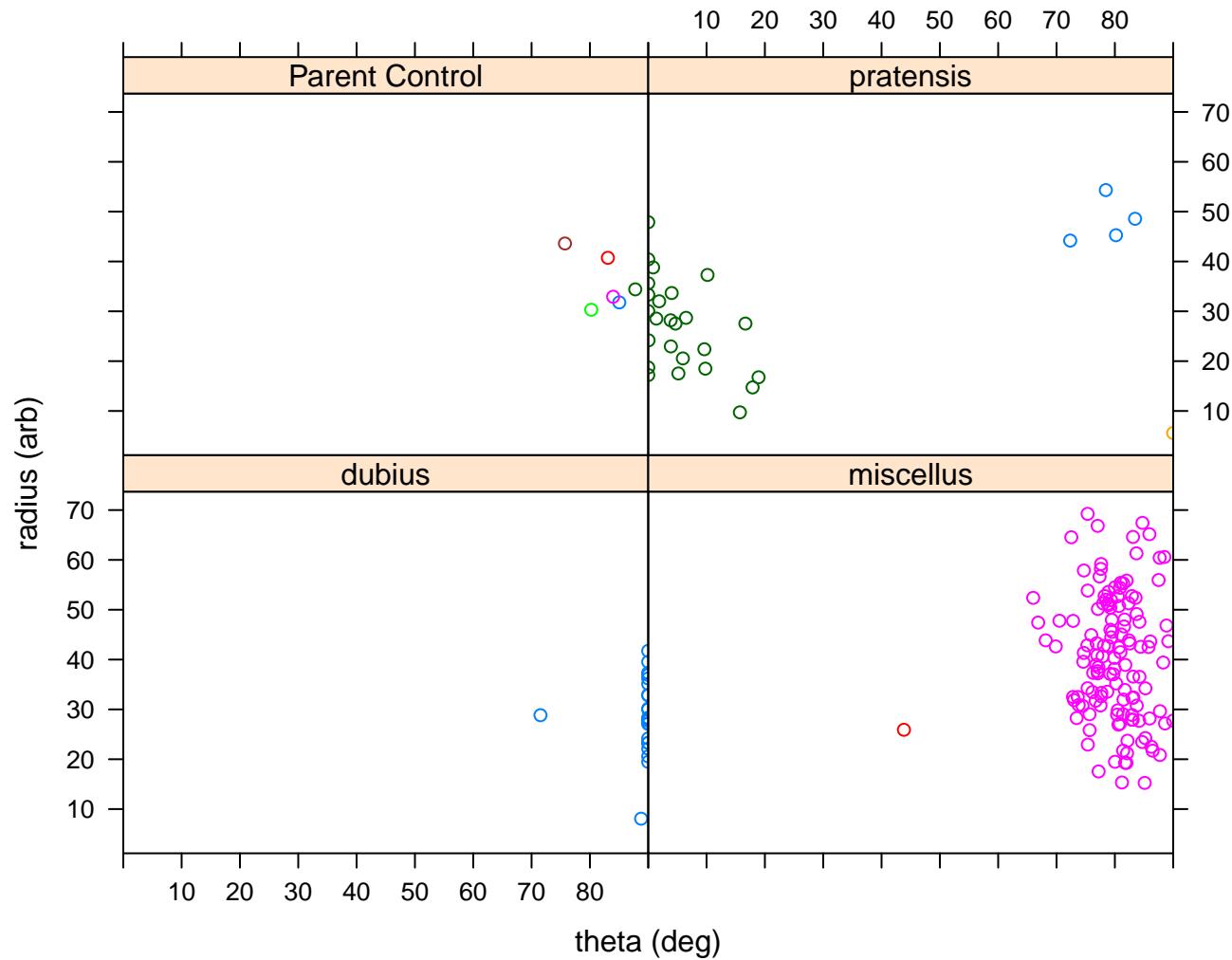
theta (deg)



V_2_5_isotig13417_279 cDNA

Call

HH	○	PM3_1_2	○
HHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
No_Aleles	○	PM6	○
PM3_1_1	○		

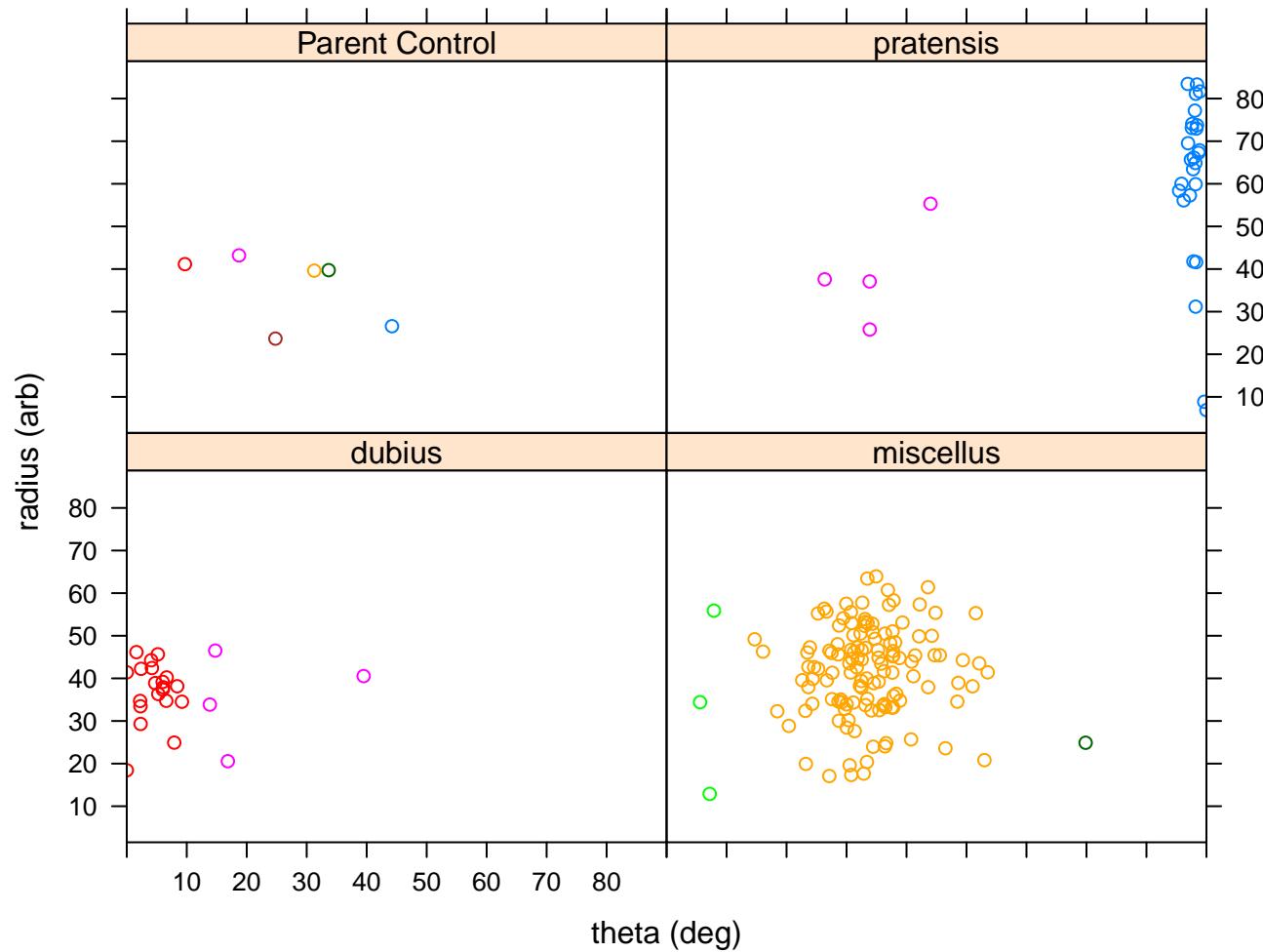


V_2_5_isotig13417_378 cDNA

Call

HH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○

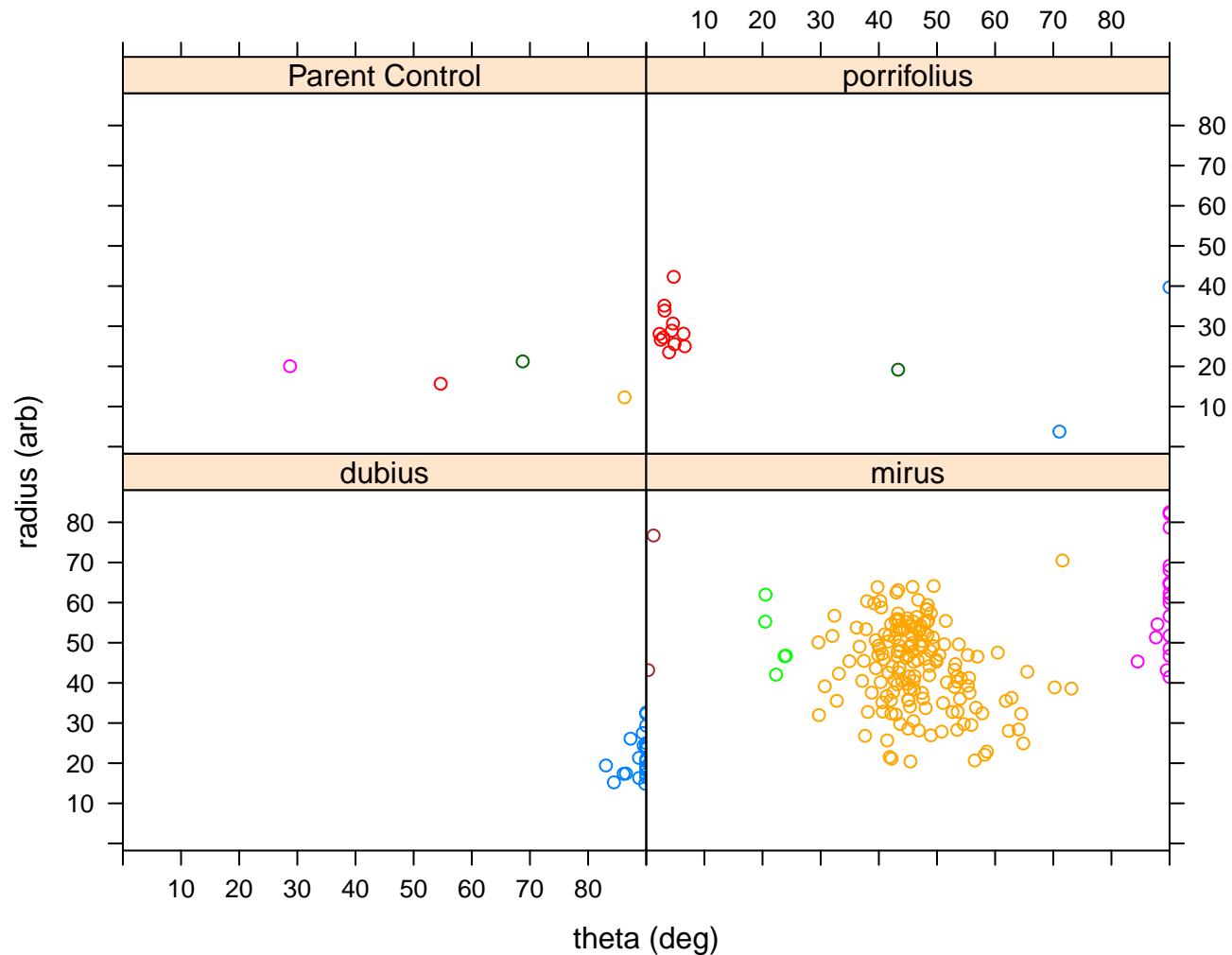
10 20 30 40 50 60 70 80



V_2_5_isotig13420_454 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○



V_2_5_isotig13420_454 cDNA

Call

HH	○	LLLL	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LHHH	○	PM2_1_2	○
LL	○	PM2_2_1	○
LLHH	○		

10 20 30 40 50 60 70 80

Parent Control

porrifolius

120
110
100
90
80
70
60
50
40
30
20
10

dubius

mirus

120
110
100
90
80
70
60
50
40
30
20
10

10 20 30 40 50 60 70 80

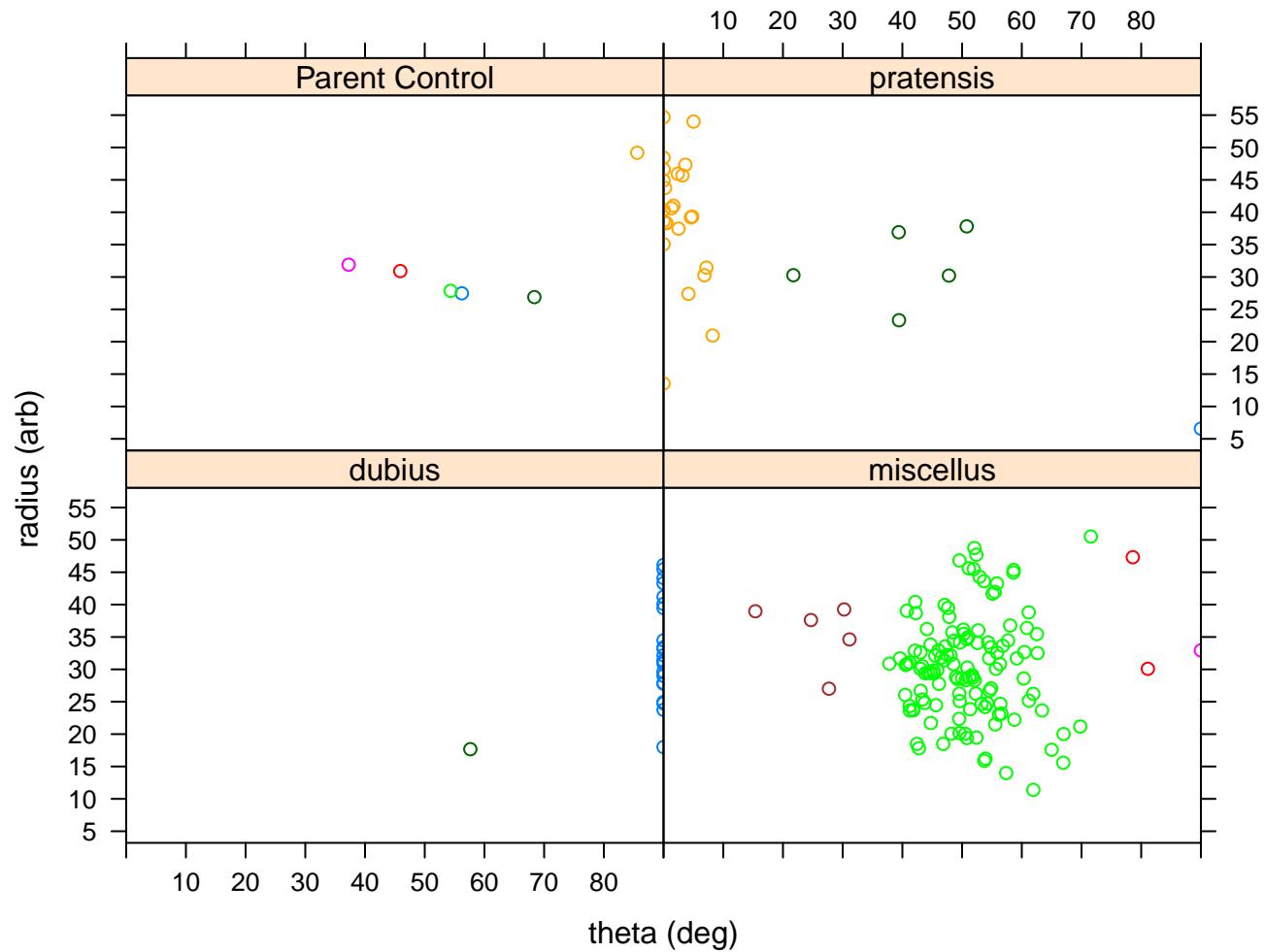
theta (deg)

radius (arb)

V_2_5_isotig13426_198 cDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LHHH	○	PM4	○
LL	○	PM5	○
LLHH	○	PM6	○
LLLH	○		



V_2_5_isotig13426_465 cDNA

Call

HH	○	No_Aleles	○
LH	○	PM3_1_1	○
LHHH	○	PM3_1_2	○
LL	○	PM3_2_1	○
LLHH	○	PM4	○
LLLH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

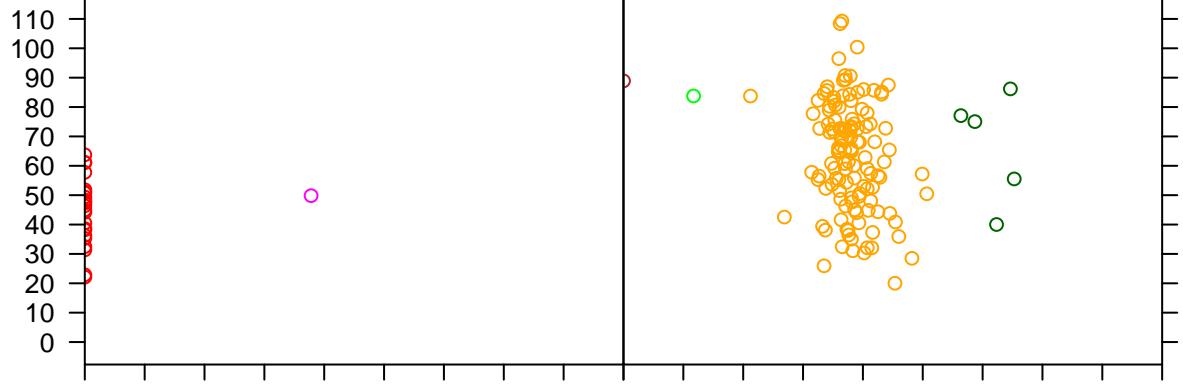
Parent Control

pratensis

110
100
90
80
70
60
50
40
30
20
10
0

dubius

miscellus



theta (deg)

V_2_5_isotig13452_427 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

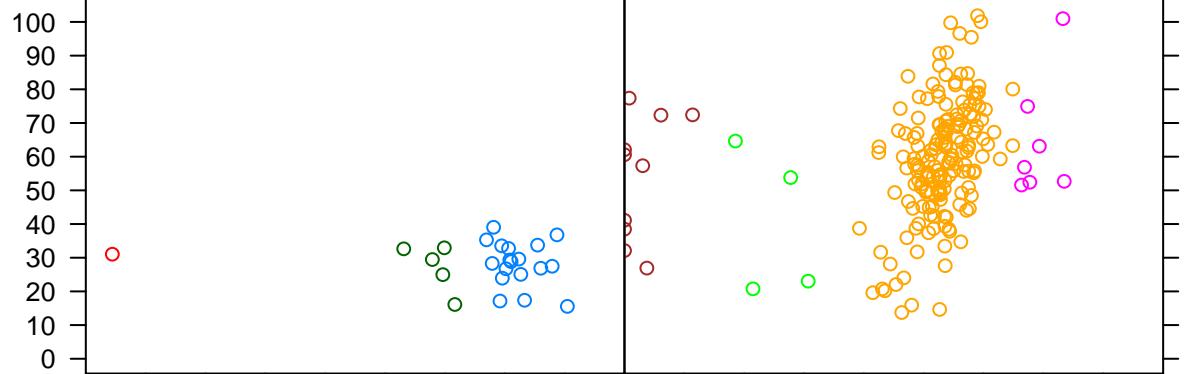
Parent Control

porrifolius

100
90
80
70
60
50
40
30
20
10
0

dubius

mirus



theta (deg)

V_2_5_isotig13452_508 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

90
80
70
60
50
40
30
20
10
0

dubius

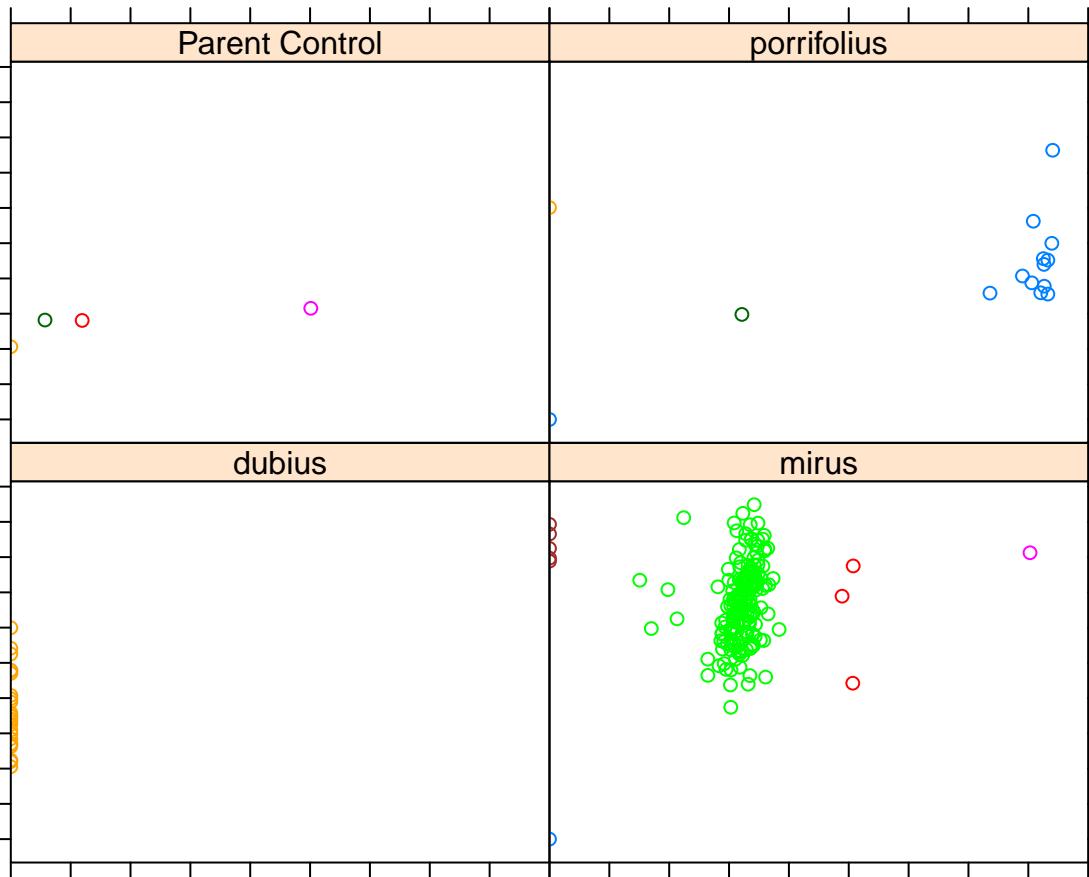
mirus

radius (arb)

90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig13452_508 cDNA

Call

Bad_Spectrum	LLLH	LLHH
HH	LLLL	HHHH
HHHH	No_Alleles	HHHH
LH	PM1	LH
LHHH	PM2_1_1	LHHH
LL	PM2_1_2	LL
LLHH	PM2_2_1	LLHH

10 20 30 40 50 60 70 80

radius (arb)

Parent Control

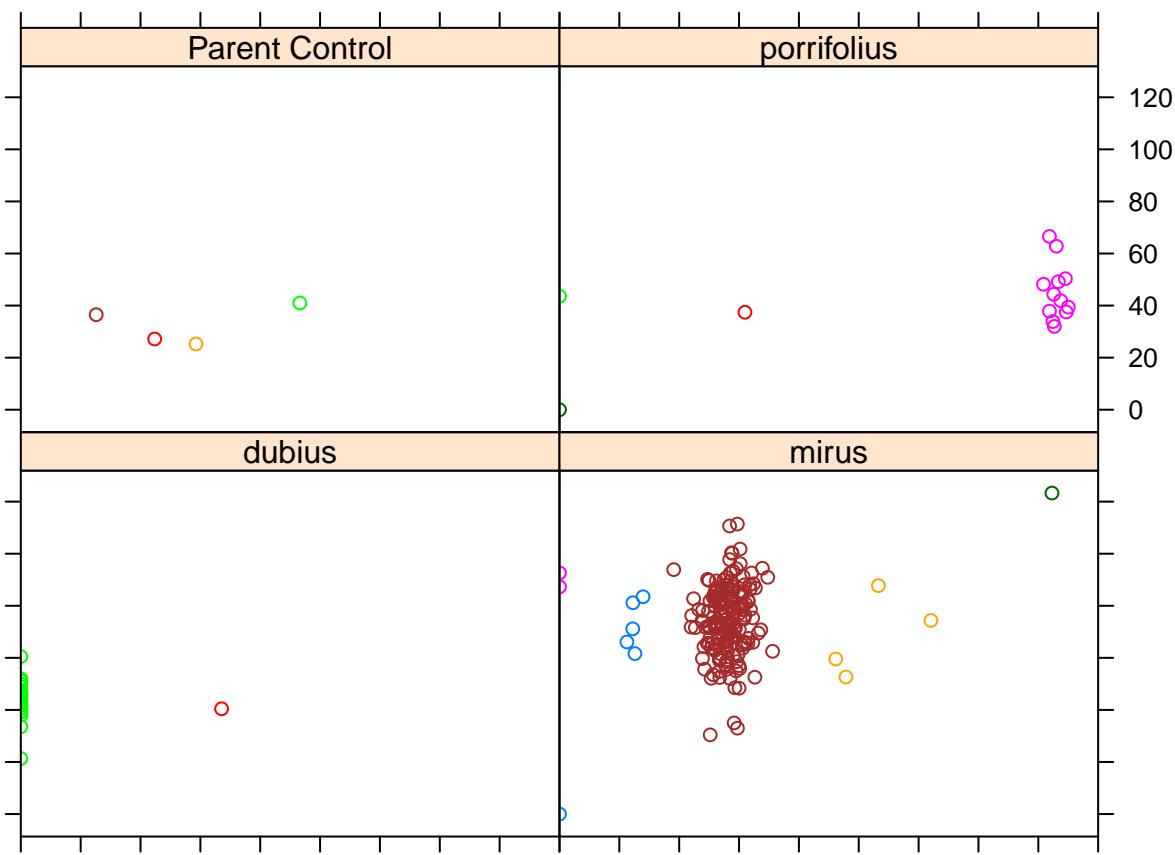
porrifolius

dubius

mirus

10 20 30 40 50 60 70 80

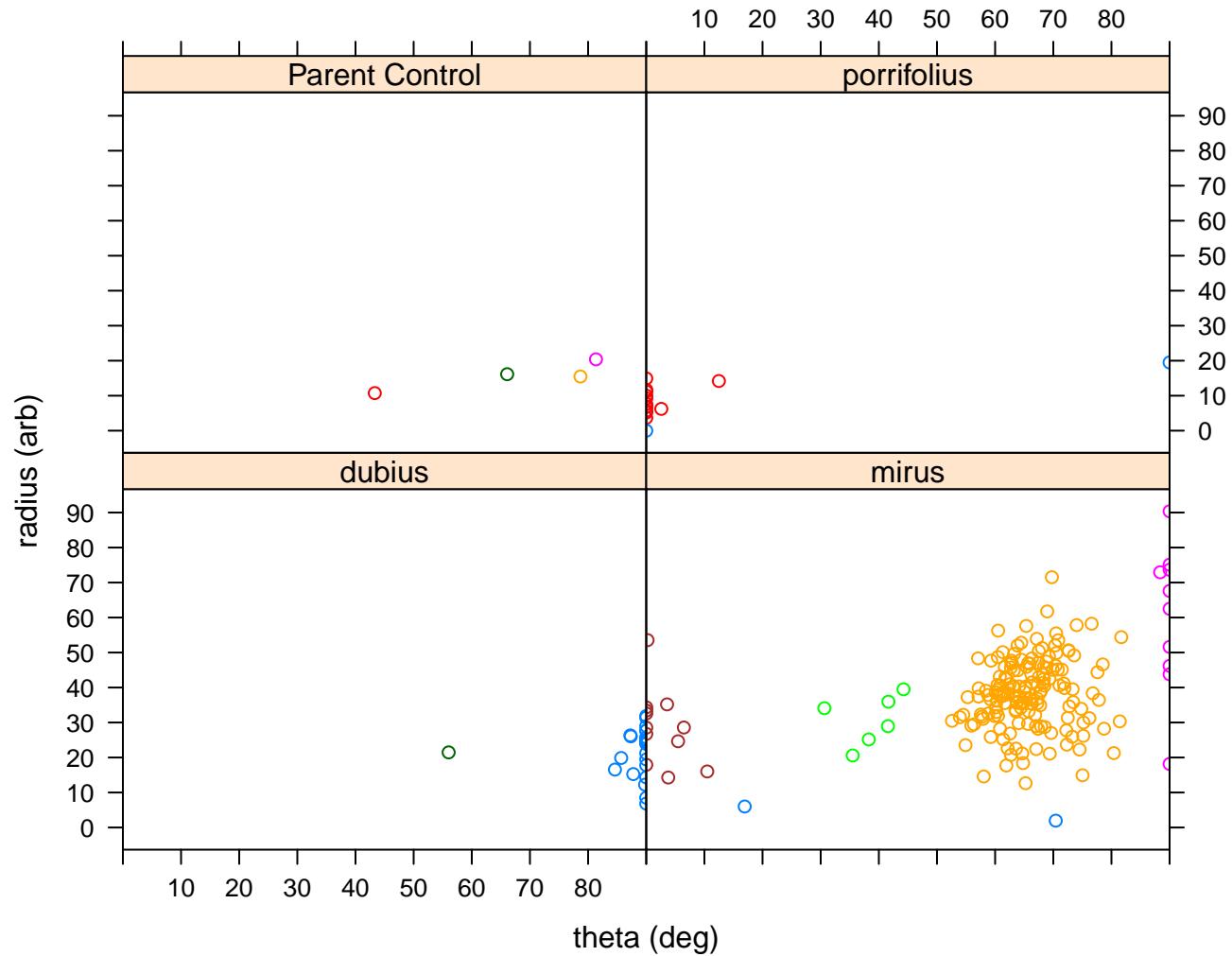
theta (deg)



V_2_5_isotig13472_369 cDNA

Call

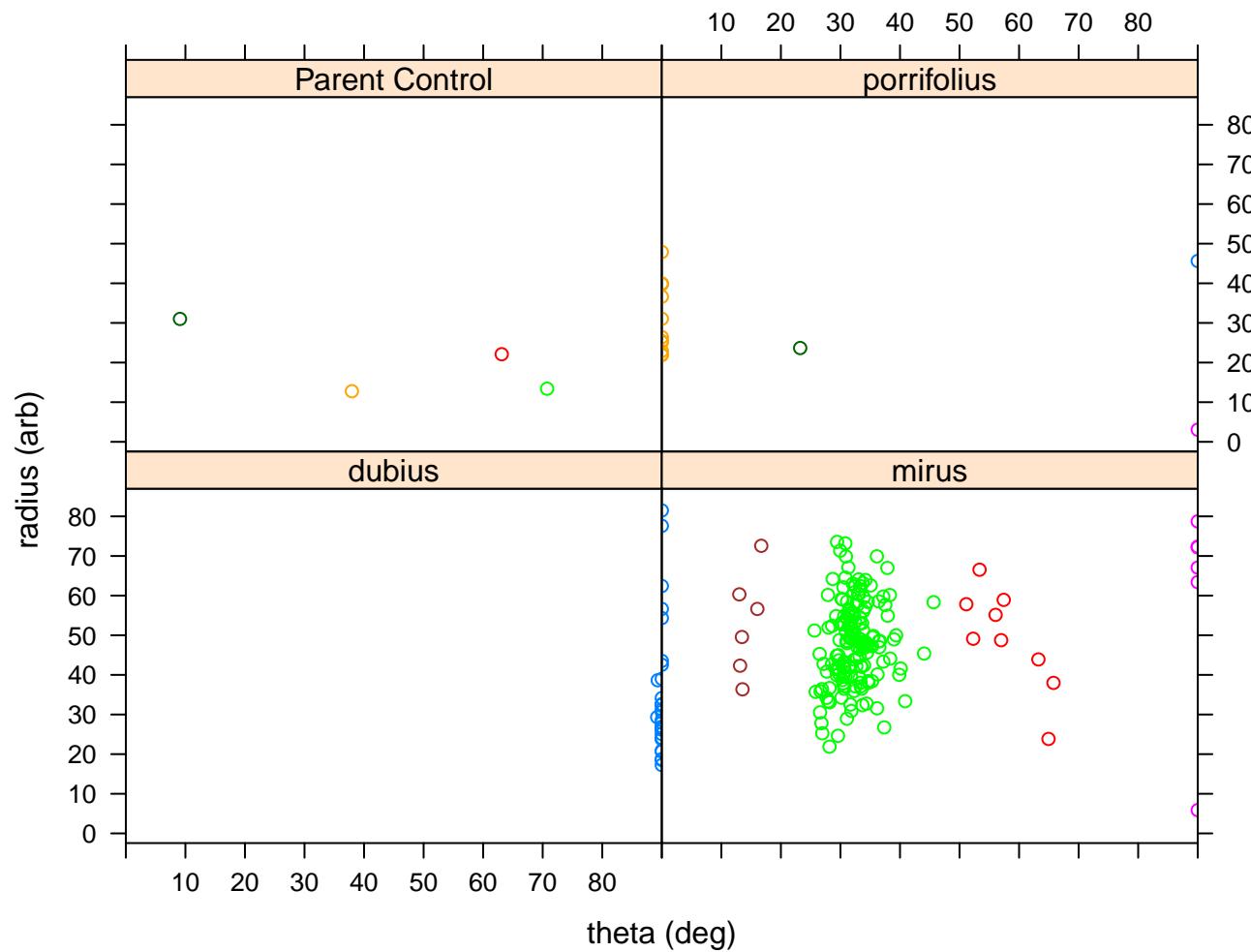
HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○



V_2_5_isotig13514_564 gDNA

Call

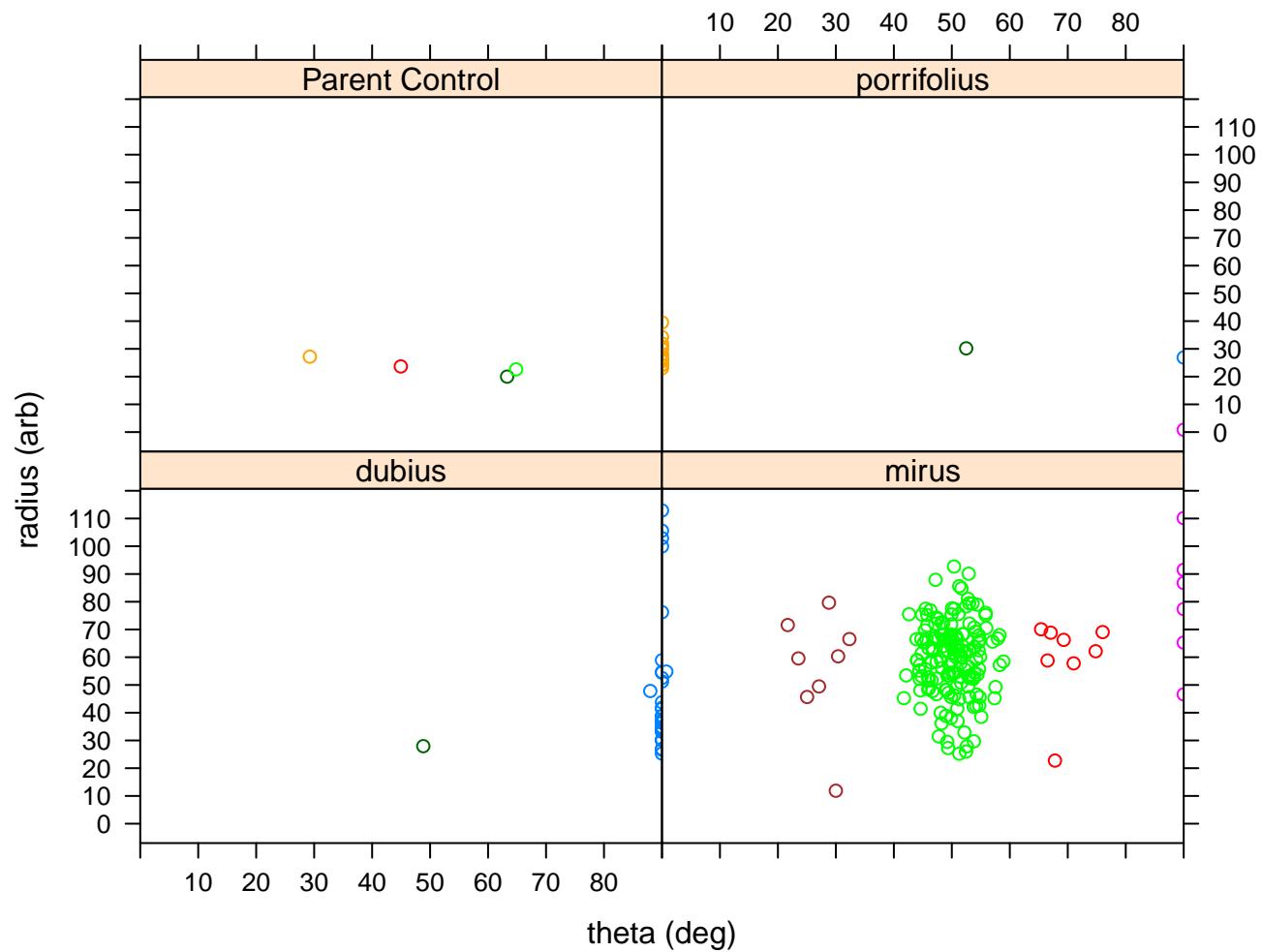
HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig13514_564 cDNA

Call

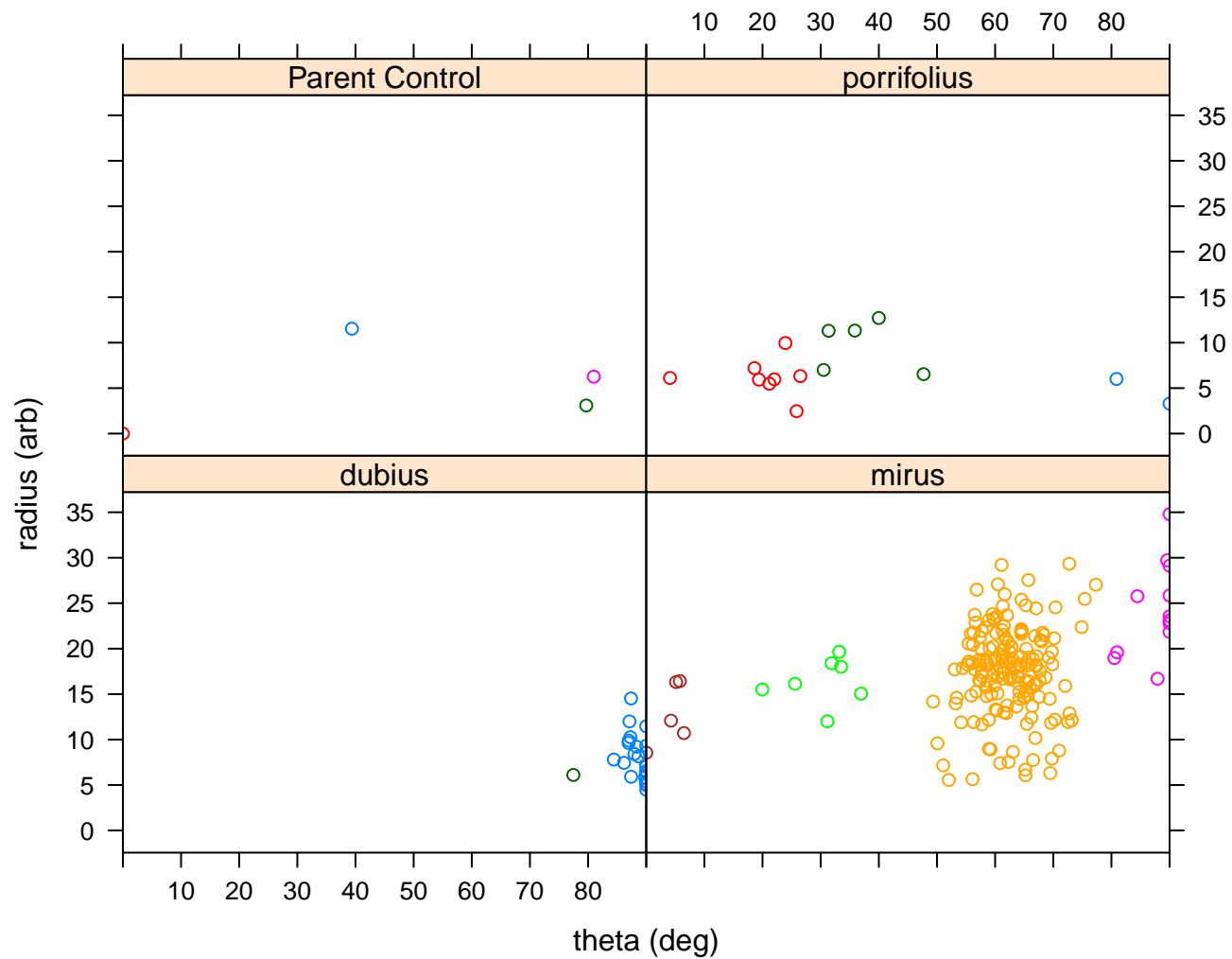
HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig13514_615 gDNA

Call

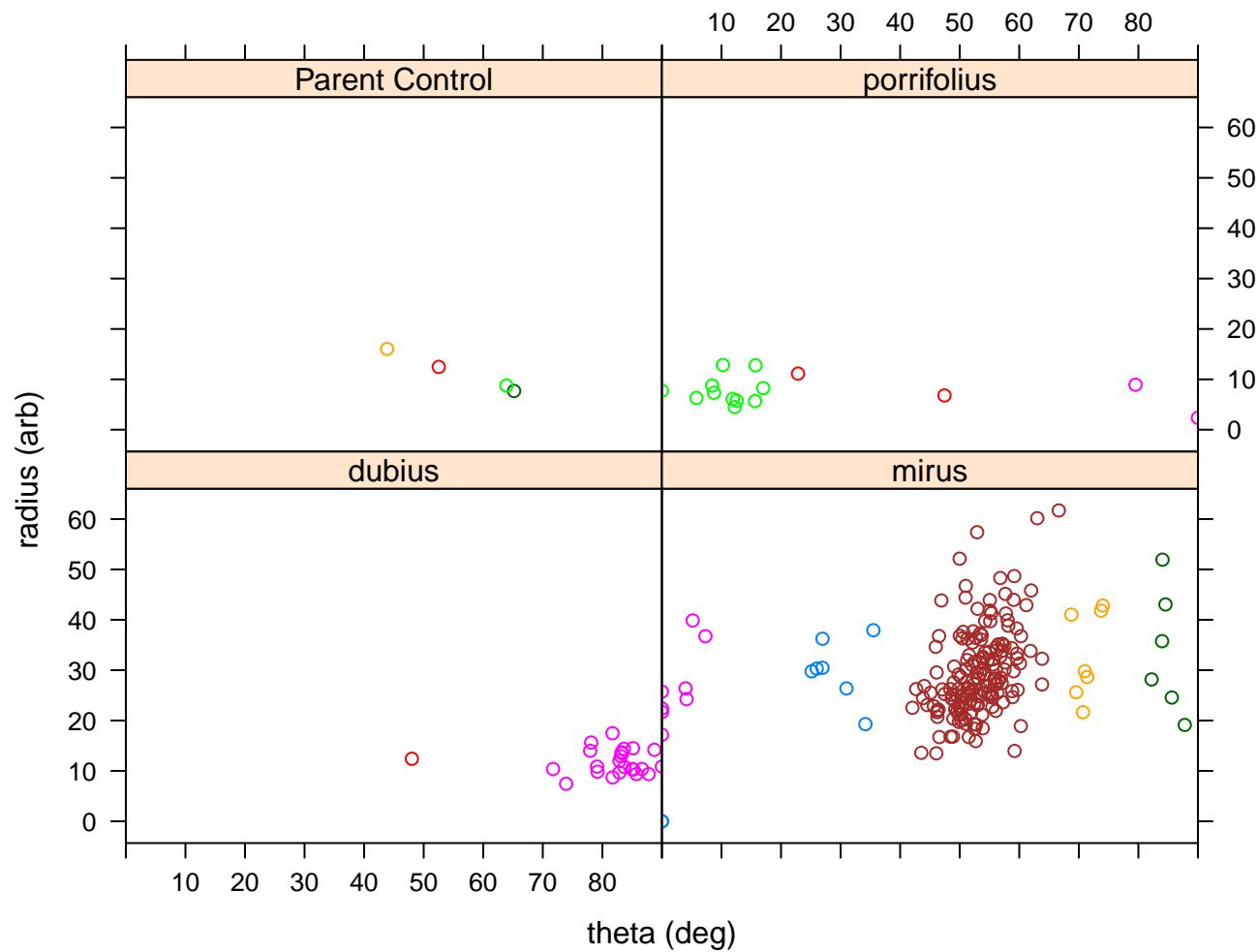
HH	○	LLLL	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig13514_615 cDNA

Call

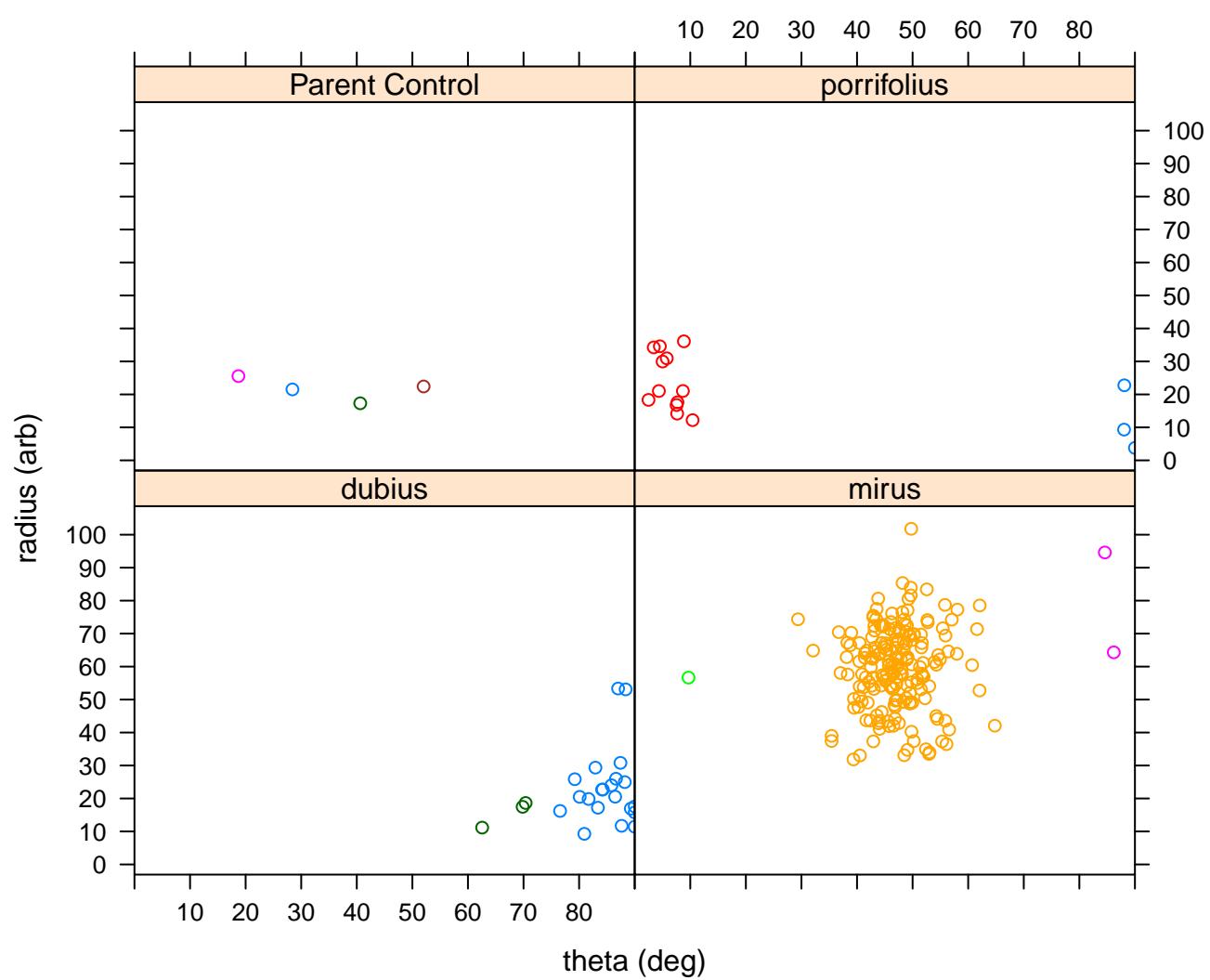
Bad_Spectrum	○	LLLH	○
HH	○	LLLL	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LHHH	○	PM2_1_2	○
LL	○	PM2_2_1	○
LLHH	○		



V_2_5_isotig13523_397 cDNA

Call

HH	○	LLLL	●
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○



V_2_5_isotig13562_134 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

radius (arb)

80
70
60
50
40
30
20
10
0

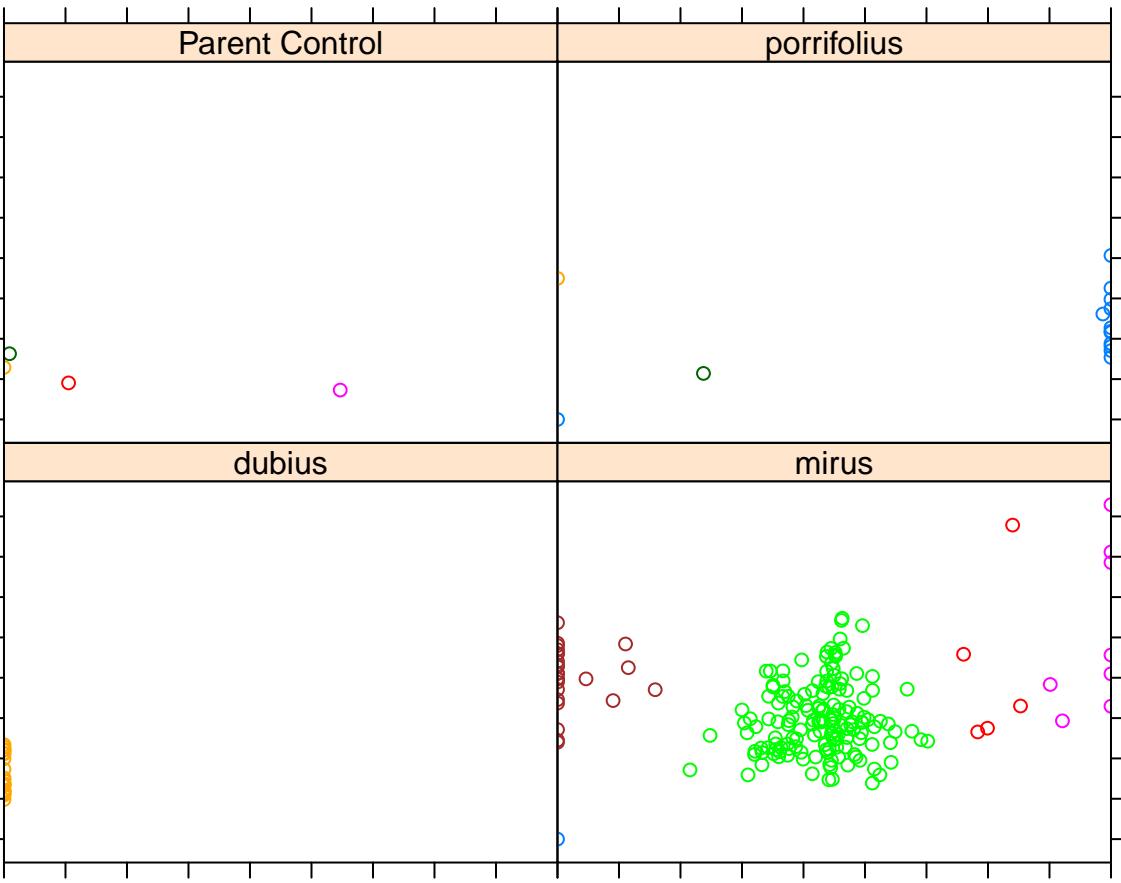
dubius

mirus

80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

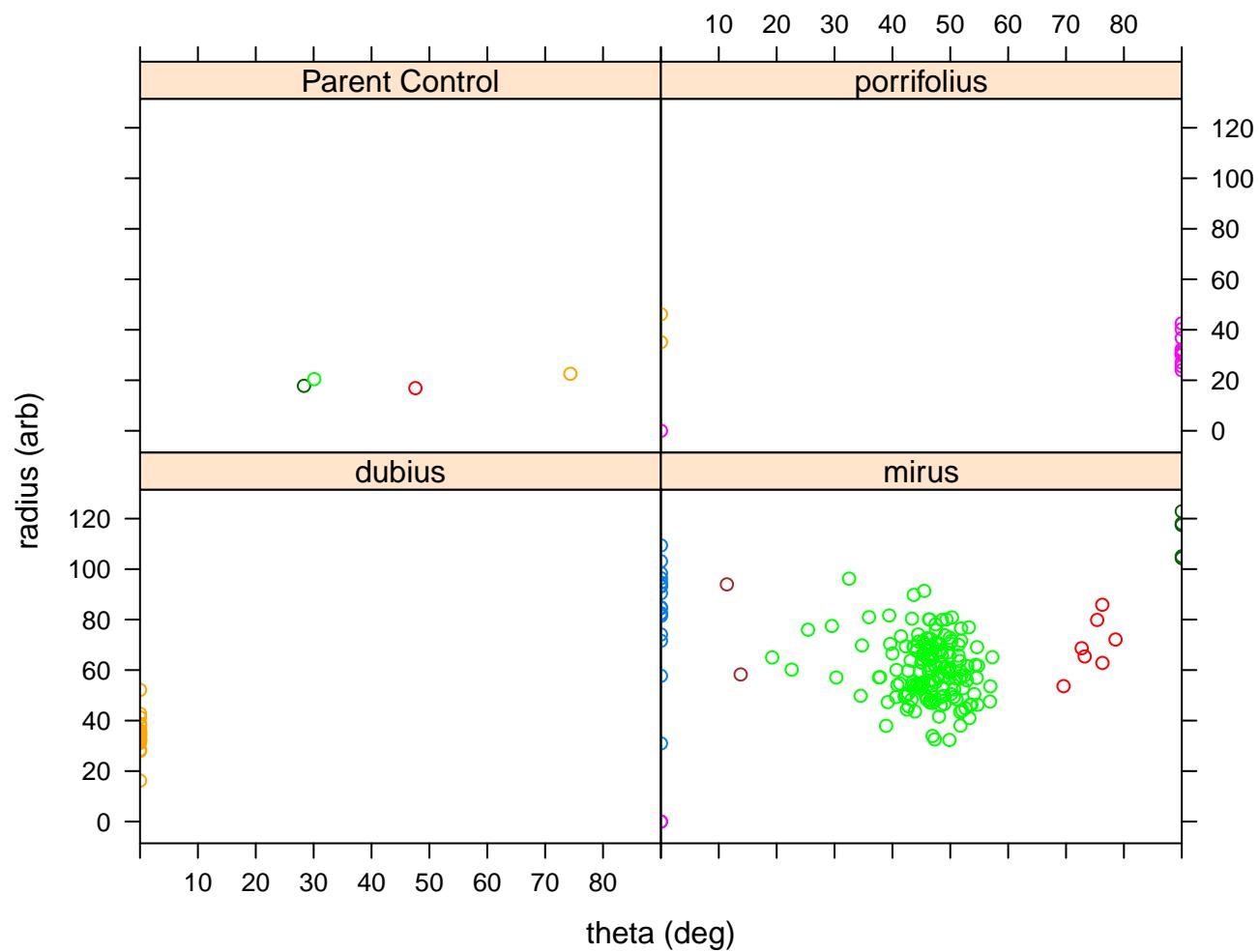
theta (deg)



V_2_5_isotig13562_134 cDNA

Call

Bad_Spectrum	○	LLLL	○
HH	○	No_Alleles	○
HHHH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig13591_328 gDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○
LLLL	○		○

10 20 30 40 50 60 70 80

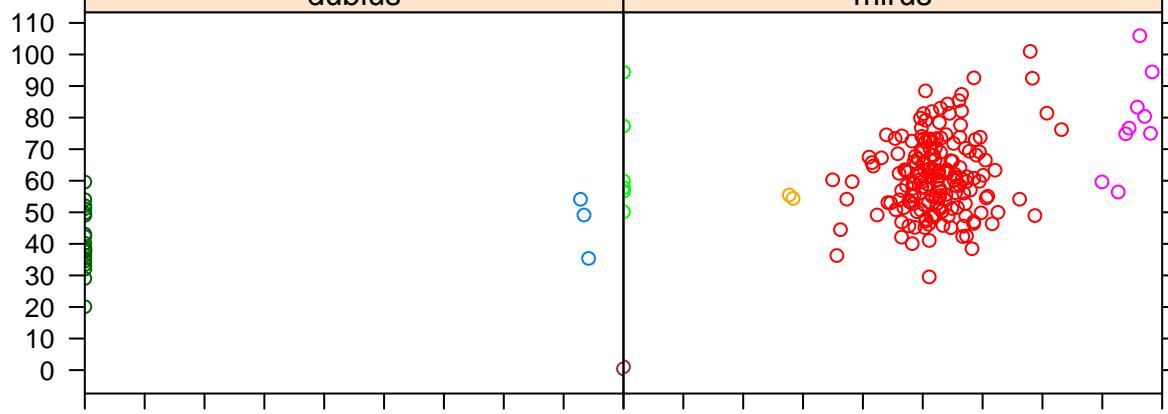
Parent Control

porrifolius

110
100
90
80
70
60
50
40
30
20
10
0

dubius

mirus



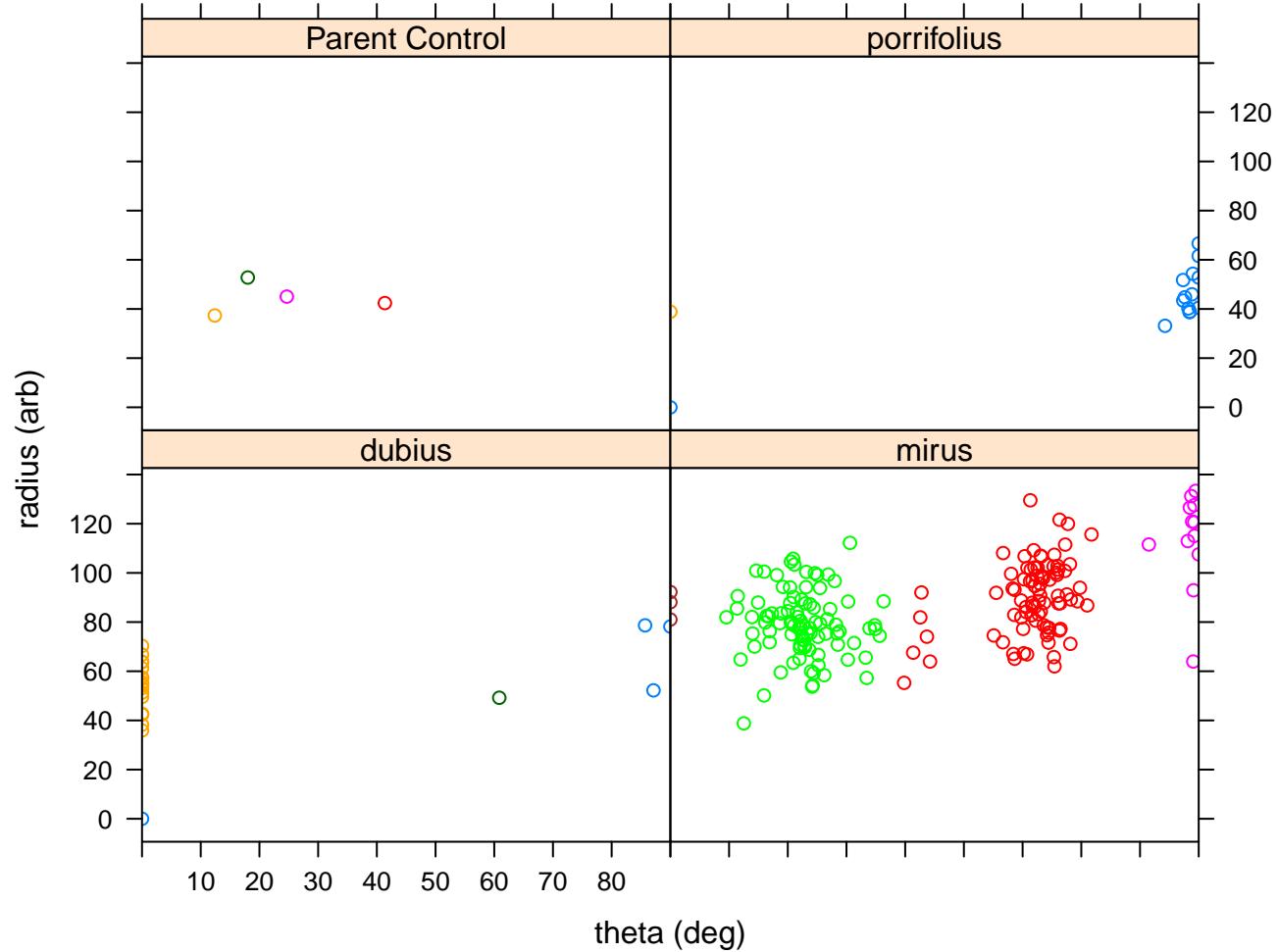
theta (deg)

V_2_5_isotig13591_328 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

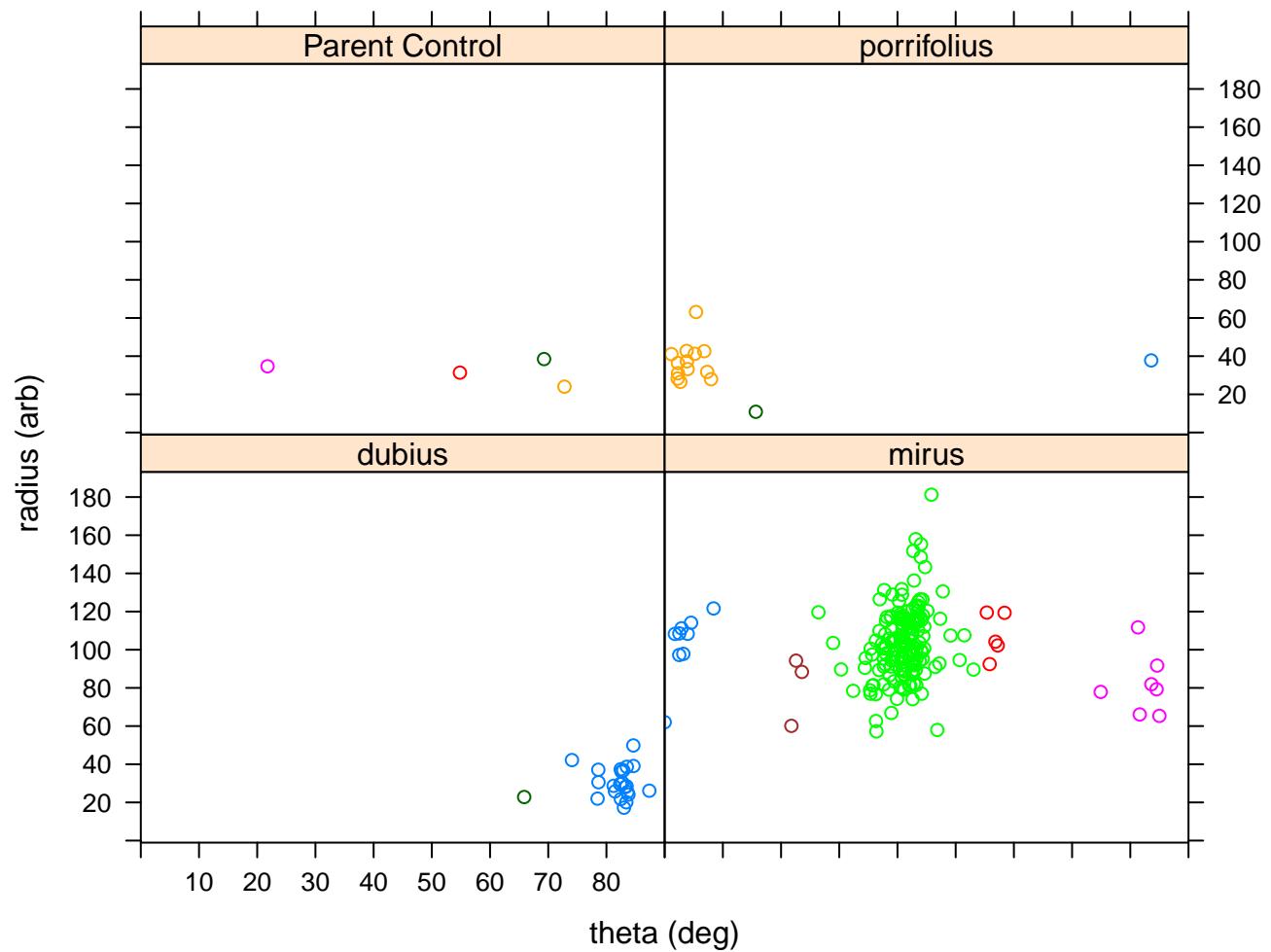


V_2_5_isotig13591_72 gDNA

Call

HH	○	LLLH	○
HHHH	○	LLLL	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

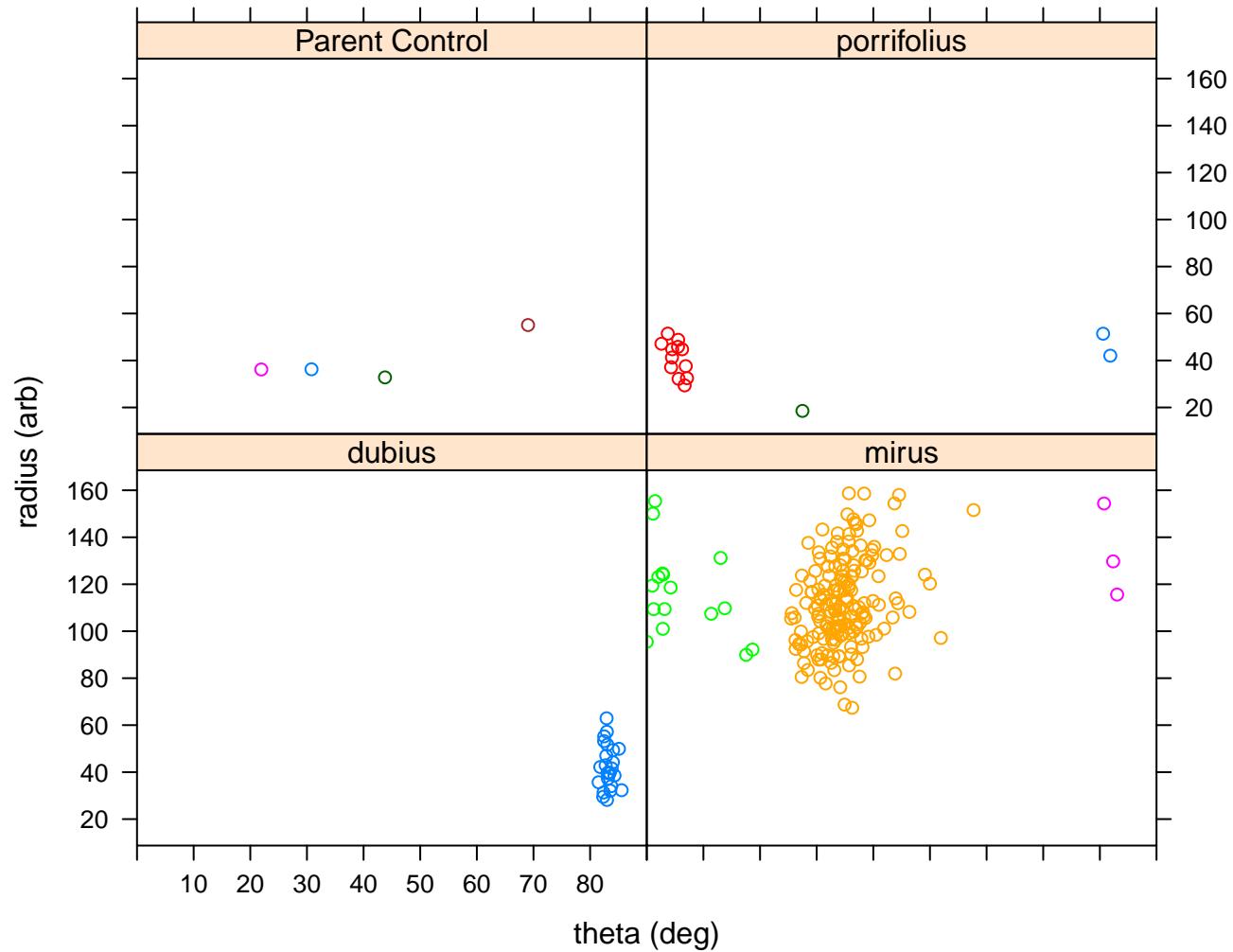


V_2_5_isotig13591_72 cDNA

Call

HH	○	LLLL	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

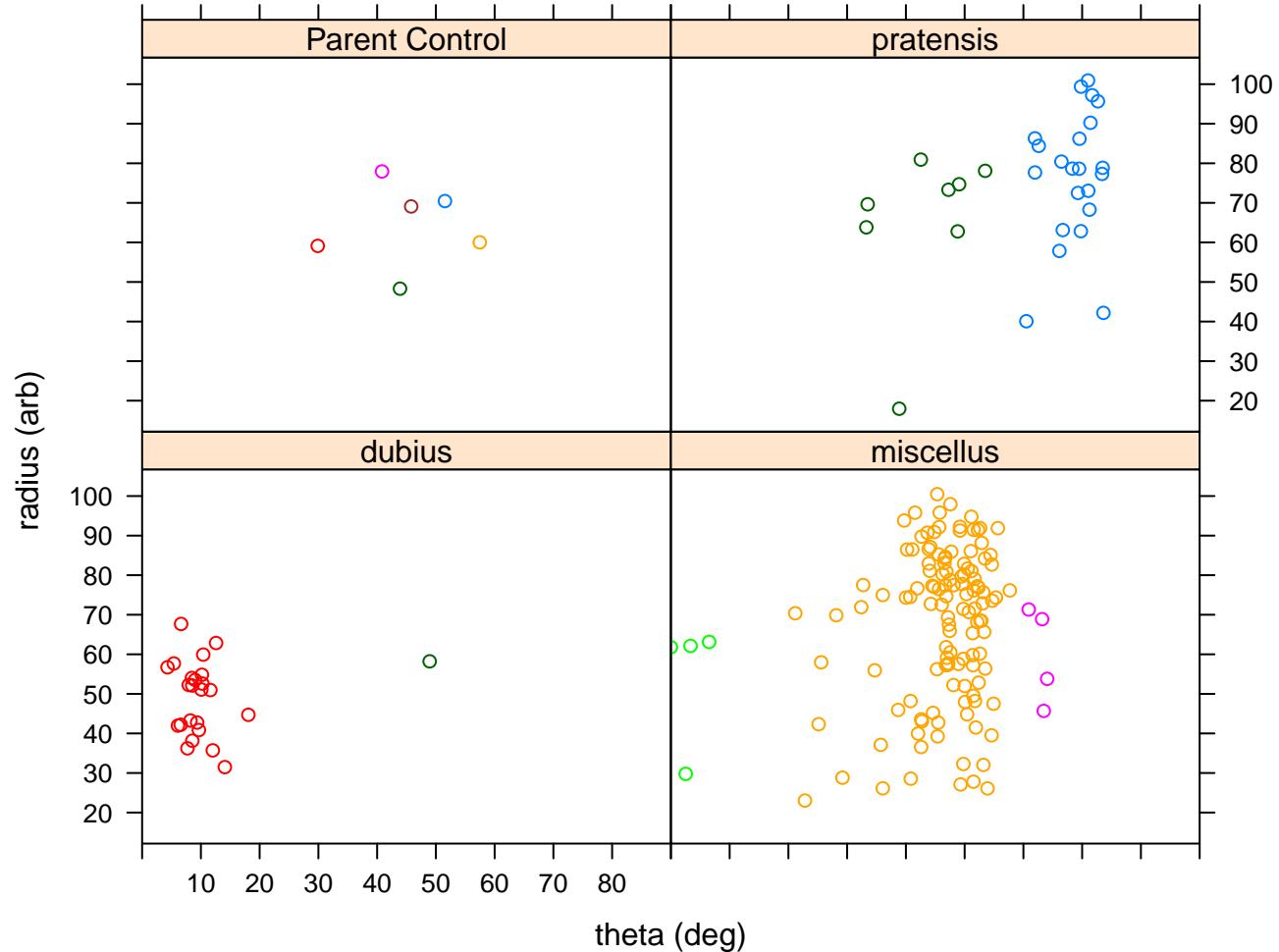


V_2_5_isotig13594_322 cDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80



V_2_5_isotig13594_349 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

radius (arb)

70
60
50
40
30
20
10
0

dubius

mirus

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig13594_349 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

porrifolius

radius (arb)

80
70
60
50
40
30
20
10
0

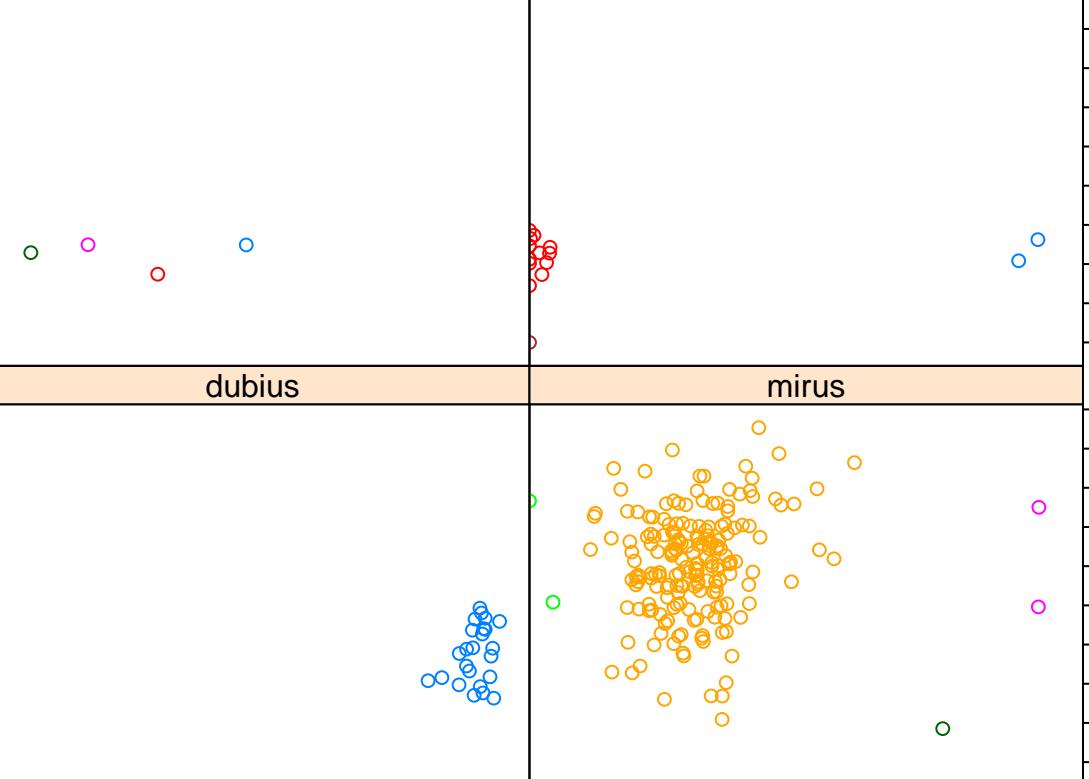
dubius

mirus

80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

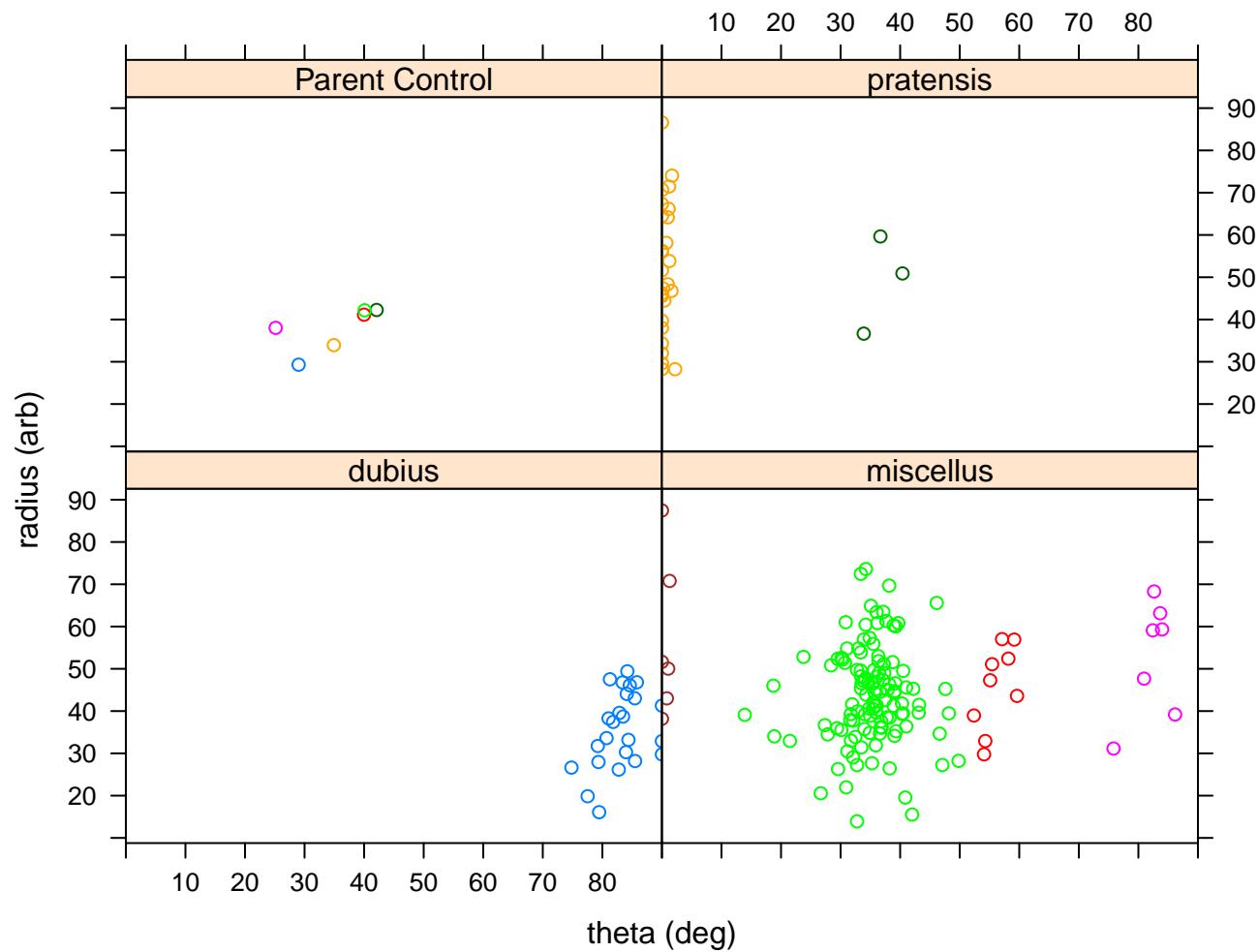
theta (deg)



V_2_5_isotig13666_198 gDNA

Call

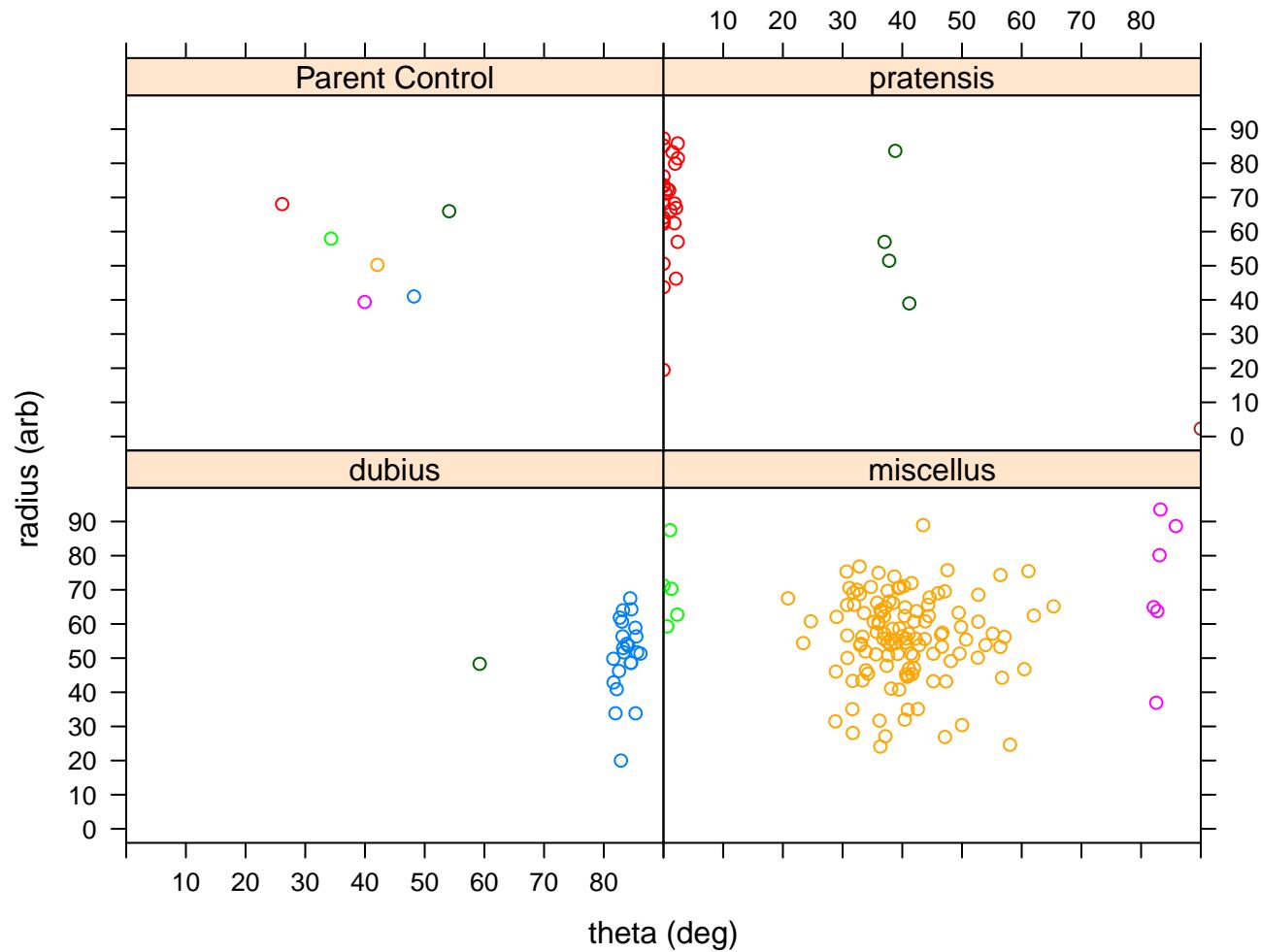
HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LHHH	○	PM4	○
LL	○	PM5	○
LLHH	○	PM6	○
LLLL	○		



V_2_5_isotig13666_198 cDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○
No_Alleles	○		



V_2_5_isotig13687_511 gDNA

Call

HH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		

10 20 30 40 50 60 70 80

Parent Control

porrifolius

220
200
180
160
140
120
100
80
60
40
20
0

dubius

mirus

220
200
180
160
140
120
100
80
60
40
20
0

10 20 30 40 50 60 70 80

theta (deg)

radius (arb)

V_2_5_isotig13687_511 cDNA

Call

HH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

porrifolius

240
220
200
180
160
140
120
100
80
60
40
20
0

dubius

mirus

240
220
200
180
160
140
120
100
80
60
40
20
0

radius (arb)

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig13690_481 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

90
80
70
60
50
40
30
20
10
0

dubius

miscellus

90
80
70
60
50
40
30
20
10
0

radius (arb)

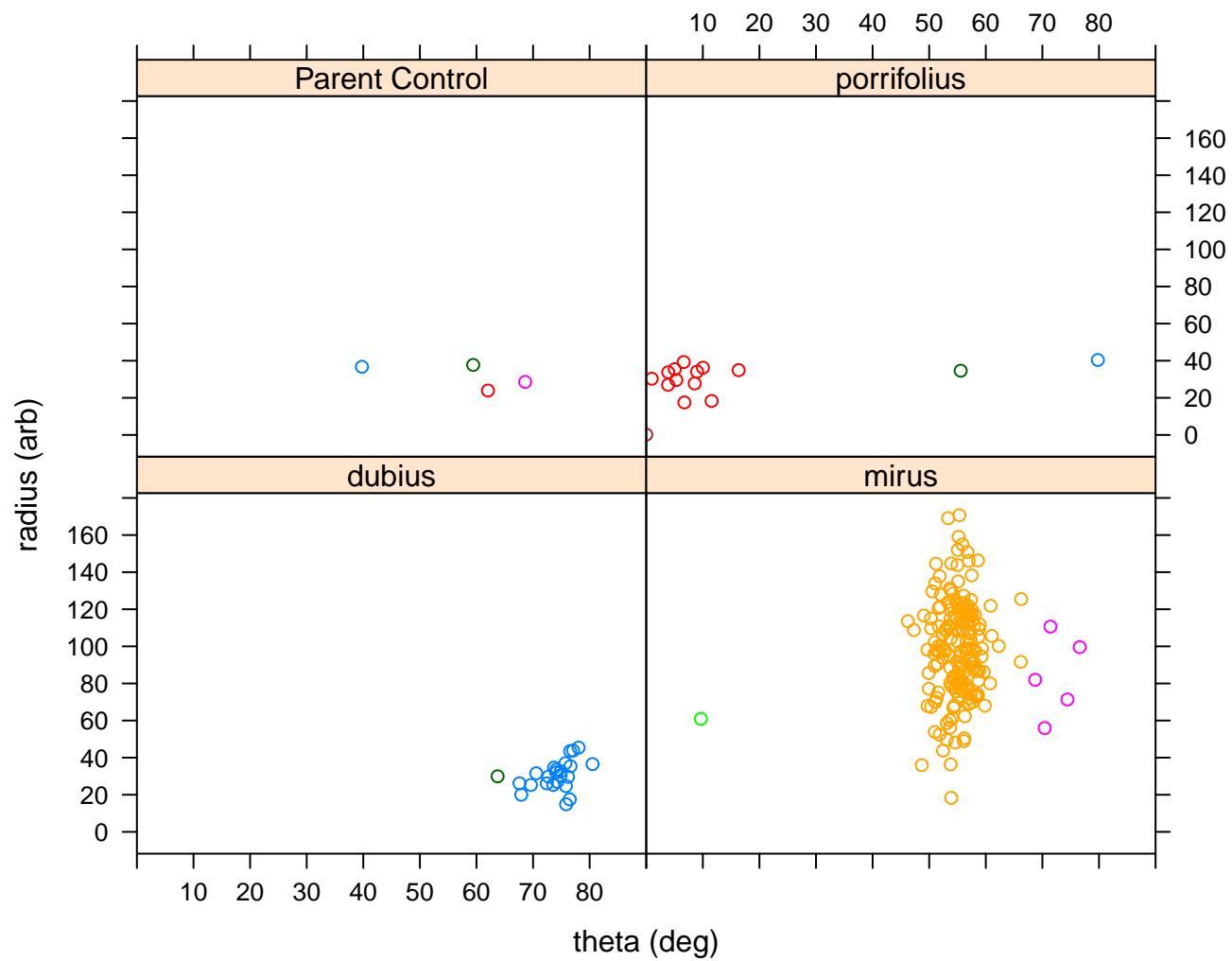
theta (deg)

10 20 30 40 50 60 70 80

V_2_5_isotig13797_350 gDNA

Call

		No_Aleles
HH	○	PM1
HHHH	○	PM2_1_1
LH	○	PM2_1_2
LL	○	PM2_2_1
LLHH	○	
	○	



V_2_5_isotig13797_350 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

220
200
180
160
140
120
100
80
60
40
20
0

dubius

mirus

220
200
180
160
140
120
100
80
60
40
20
0

10 20 30 40 50 60 70 80

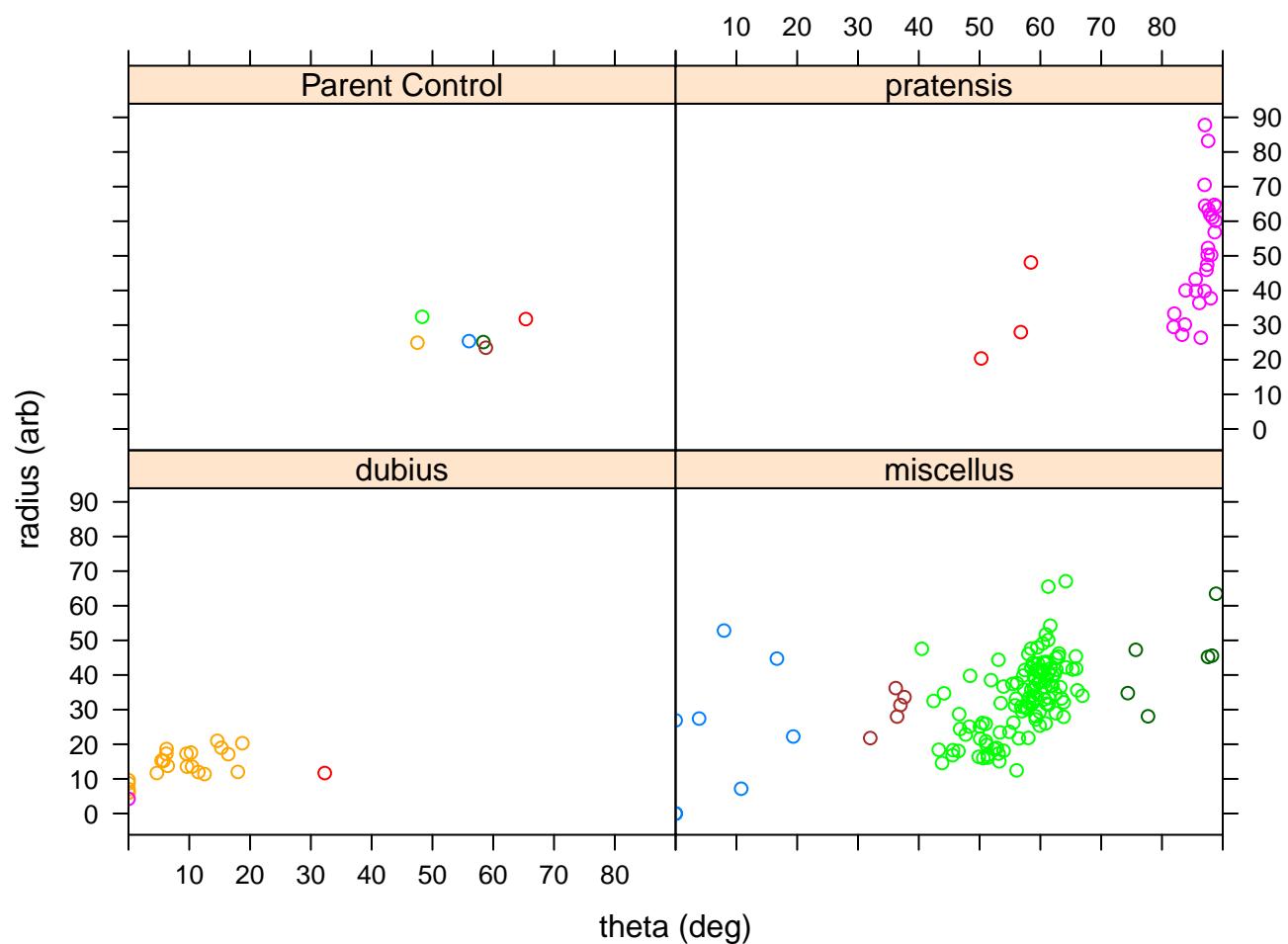
theta (deg)

radius (arb)

V_2_5_isotig13821_173 gDNA

Call

Bad_Spectrum	○	No_Aleles	○
HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		



V_2_5_isotig13821_173 cDNA

Call

Bad_Spectrum	LLLL	○	○	○	○
HH	PM3_1_1	○	○	○	○
HHHH	PM3_1_2	○	○	○	○
LH	PM3_2_1	○	○	○	○
LHHH	PM4	○	○	○	○
LL	PM5	○	○	○	○
LLHH	PM6	○	○	○	○
LLLH		○	○	○	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

radius (arb)

70
60
50
40
30
20
10
0

dubius

miscellus

70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

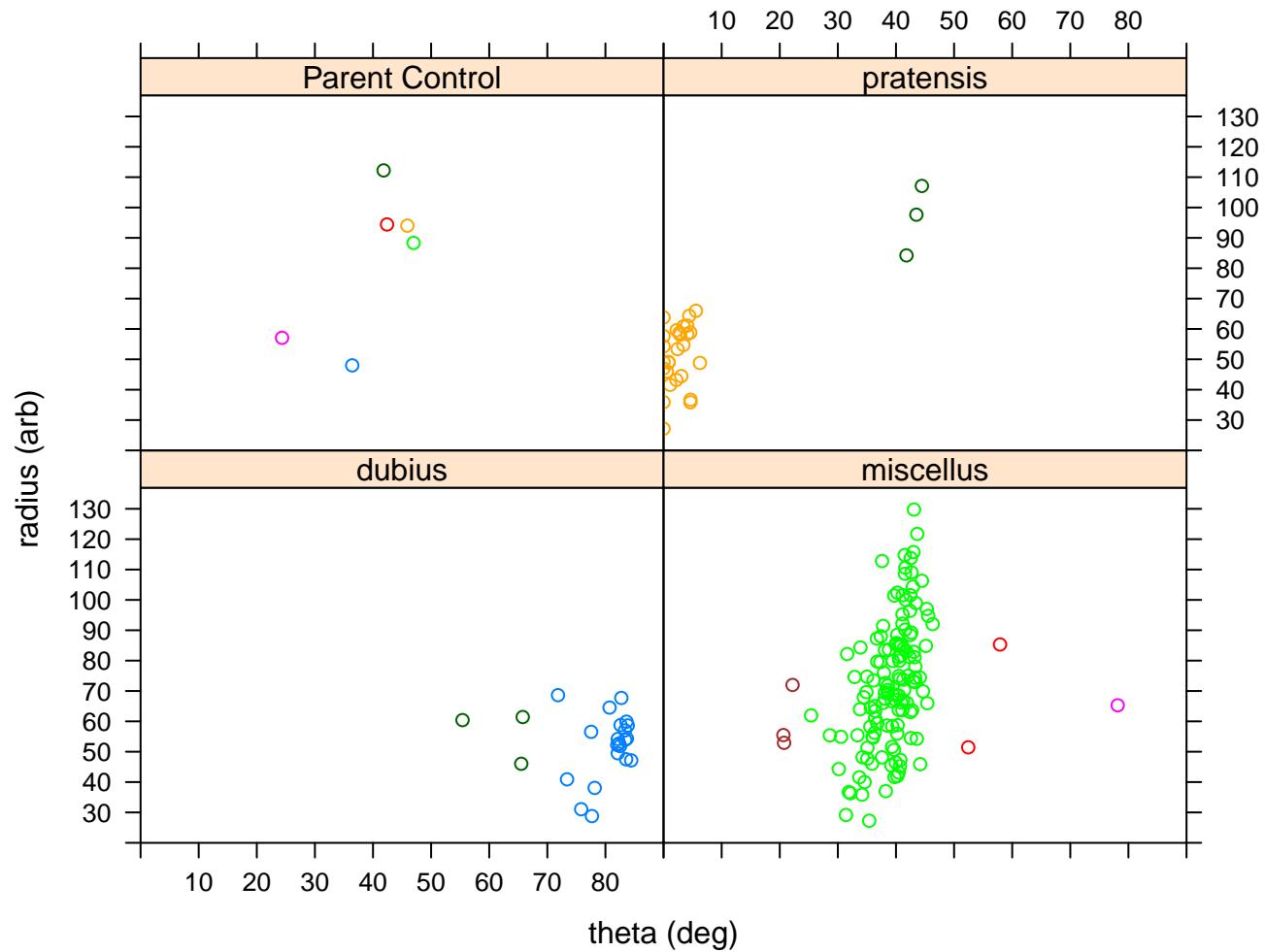
theta (deg)

0
1
2
3
4
5
6
7
8
9

V_2_5_isotig13851_116 gDNA

Call

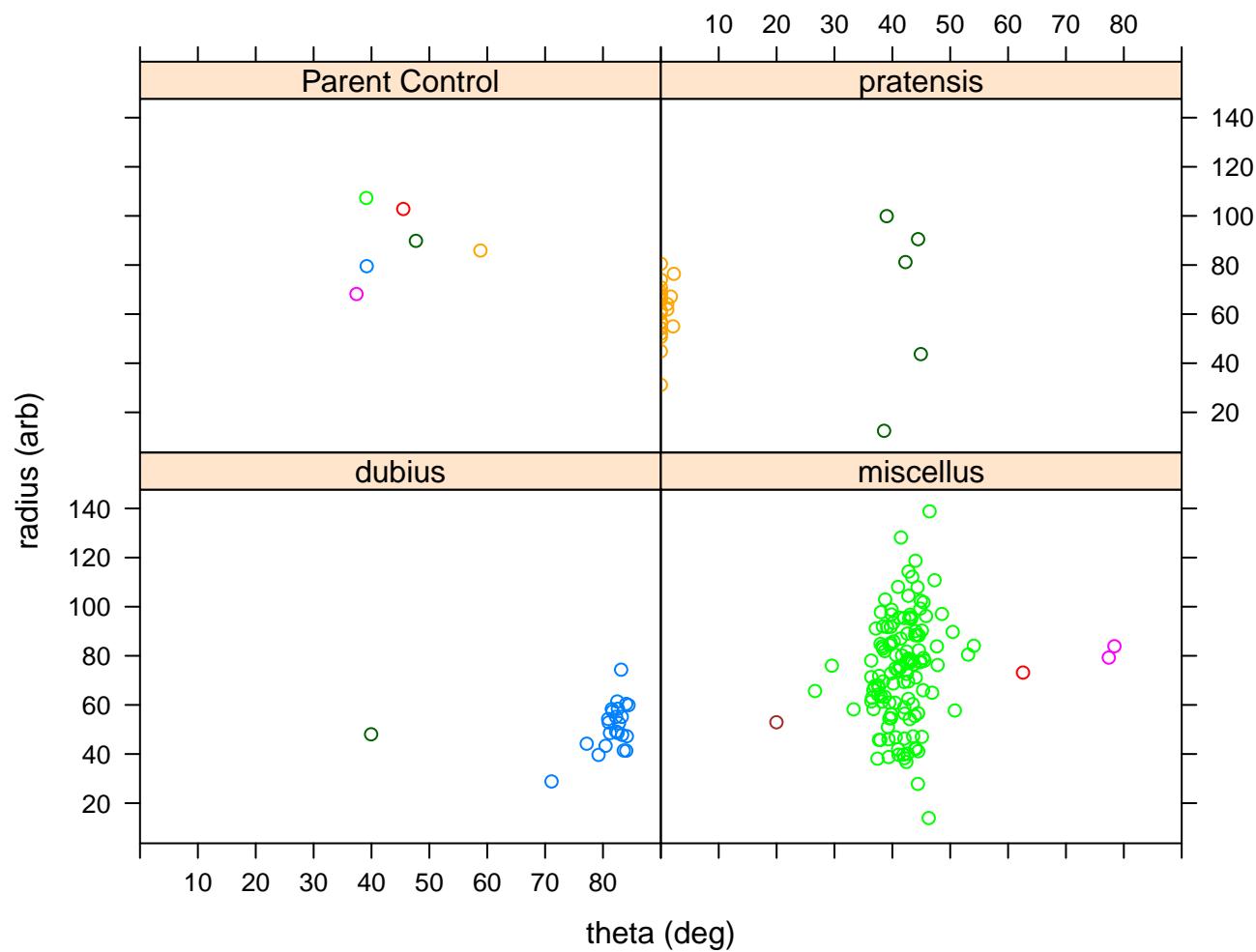
HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LHHH	○	PM4	○
LL	○	PM5	○
LLHH	○	PM6	○
LLLH	○		



V_2_5_isotig13851_116 cDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LHHH	○	PM4	○
LL	○	PM5	○
LLHH	○	PM6	○
LLLH	○		



V_2_5_isotig13853_469 gDNA

Call

Bad_Spectrum	LLLH	LLLH
HH	LLLL	LLLL
HHHH	No_Aleles	No_Aleles
LH	PM1	PM1
LHHH	PM2_1_1	PM2_1_1
LL	PM2_1_2	PM2_1_2
LLHH	PM2_2_1	PM2_2_1

10 20 30 40 50 60 70 80

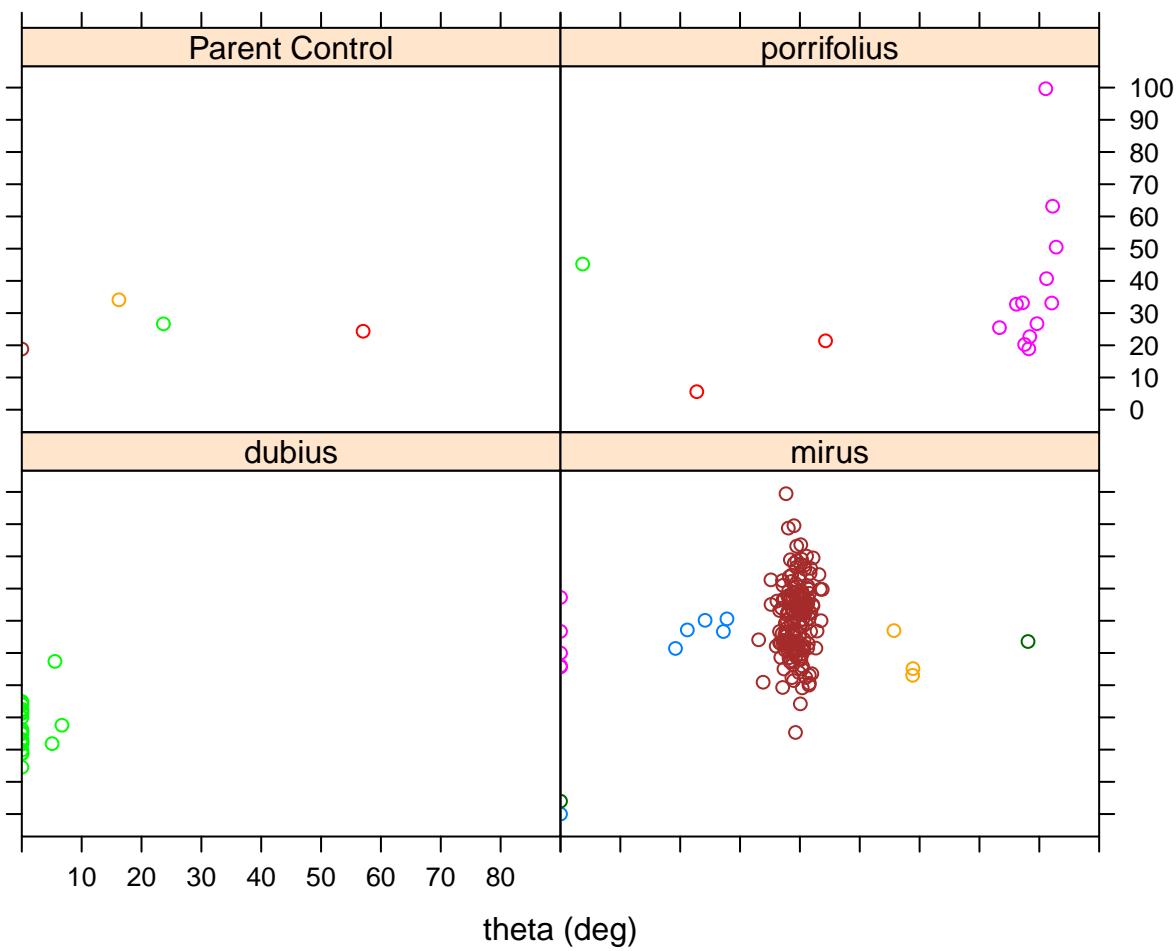
radius (arb)

Parent Control

porrifolius

dubius

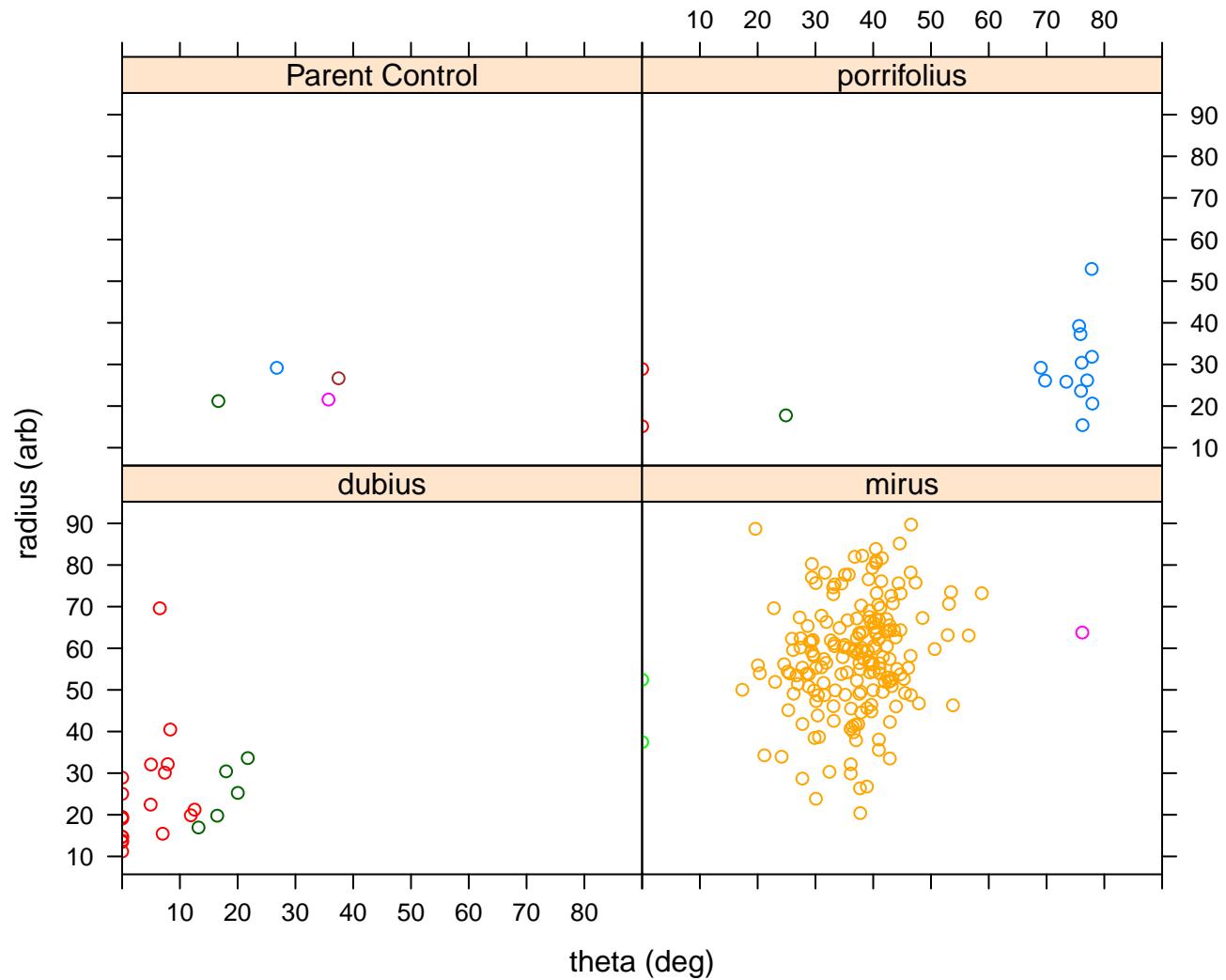
mirus



V_2_5_isotig13853_469 cDNA

Call

HH	○	LLLL	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○



V_2_5_isotig13929_264 gDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LL	○	PM2_1_1	○
LLLH	○	PM2_1_2	○
LLLL	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

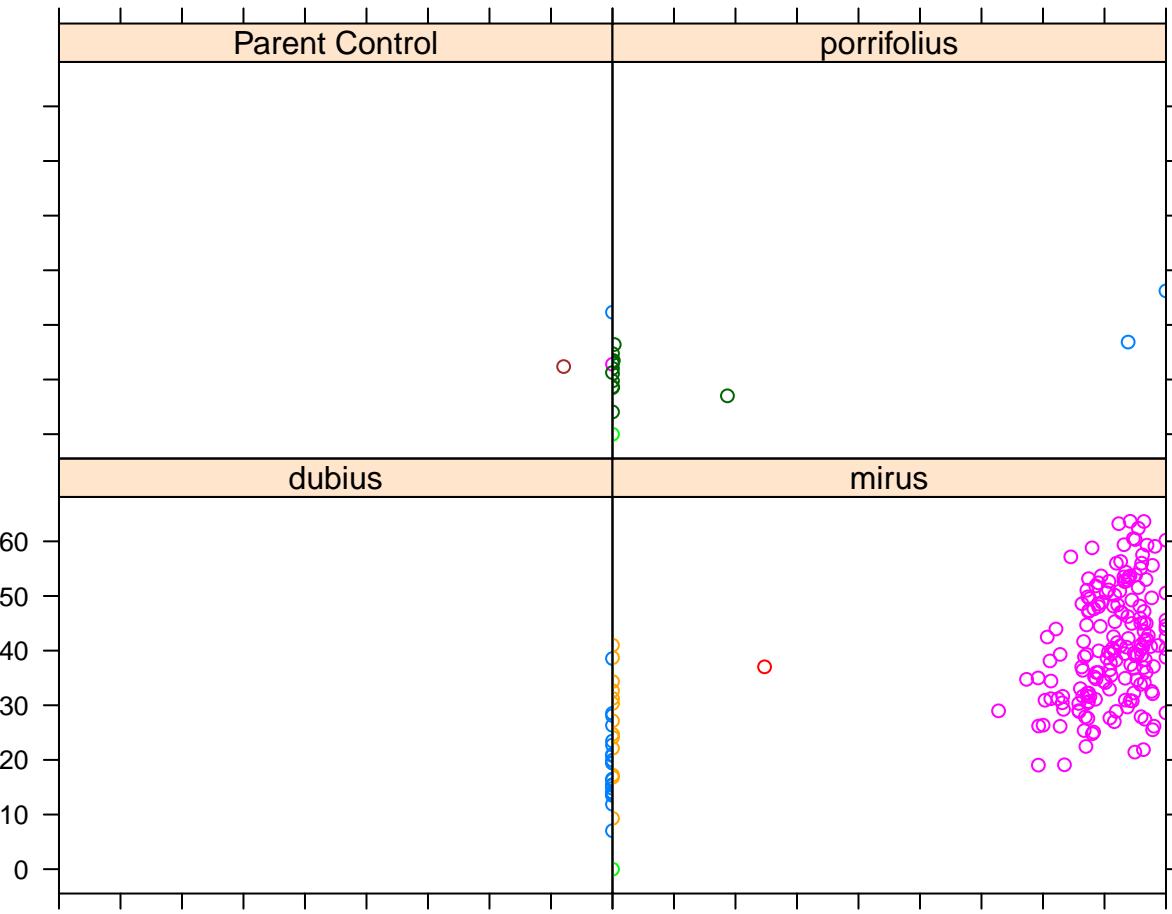
porrifolius

60
50
40
30
20
10
0

radius (arb)

dubius

mirus



10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig13929_264 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LHHH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

80
70
60
50
40
30
20
10
0

dubius

mirus

radius (arb)

80

70

60

50

40

30

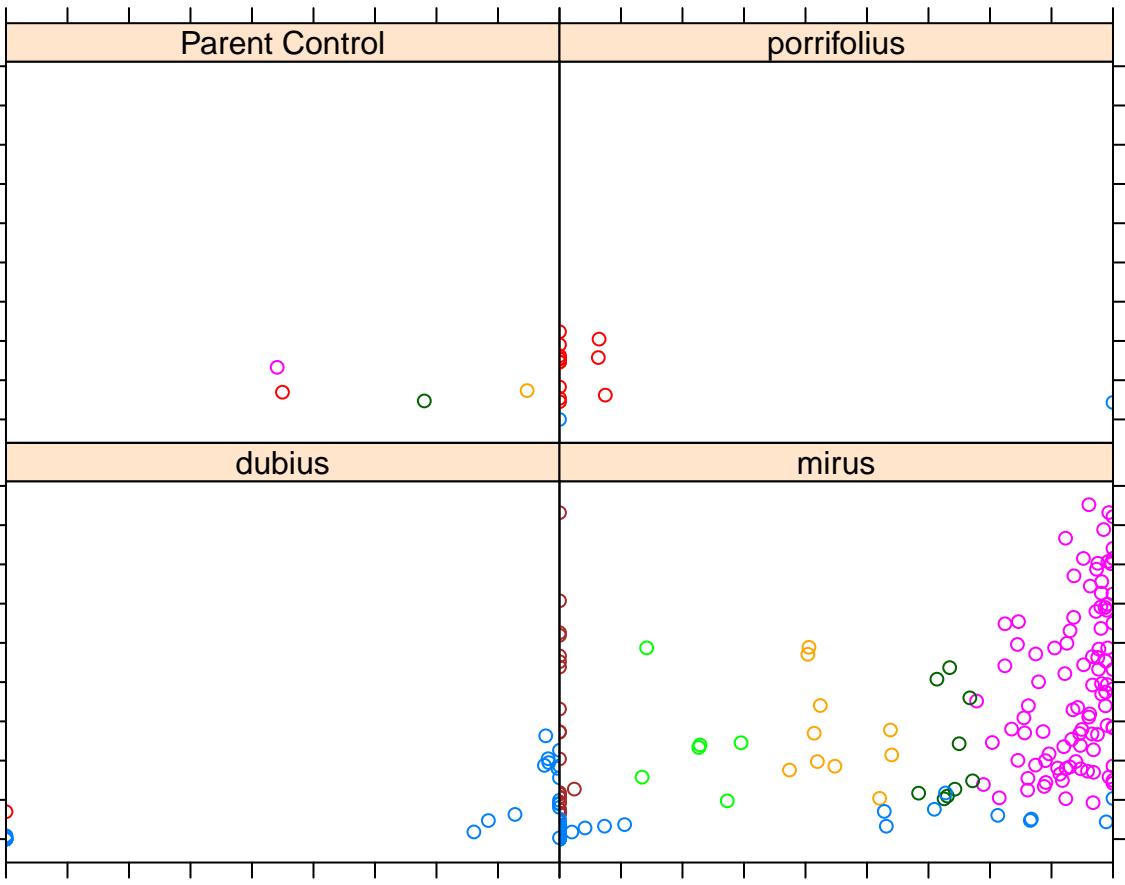
20

10

0

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig13936_214 cDNA

Call

HH	○	LLLL	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

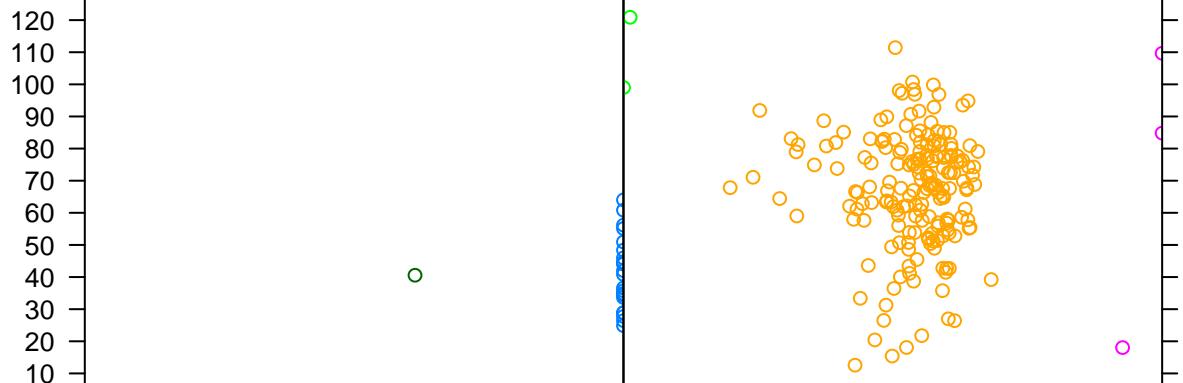
porrifolius

120
110
100
90
80
70
60
50
40
30
20
10

radius (arb)

dubius

mirus



theta (deg)

V_2_5_isotig13984_100 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

70
60
50
40
30
20
10
0

radius (arb)

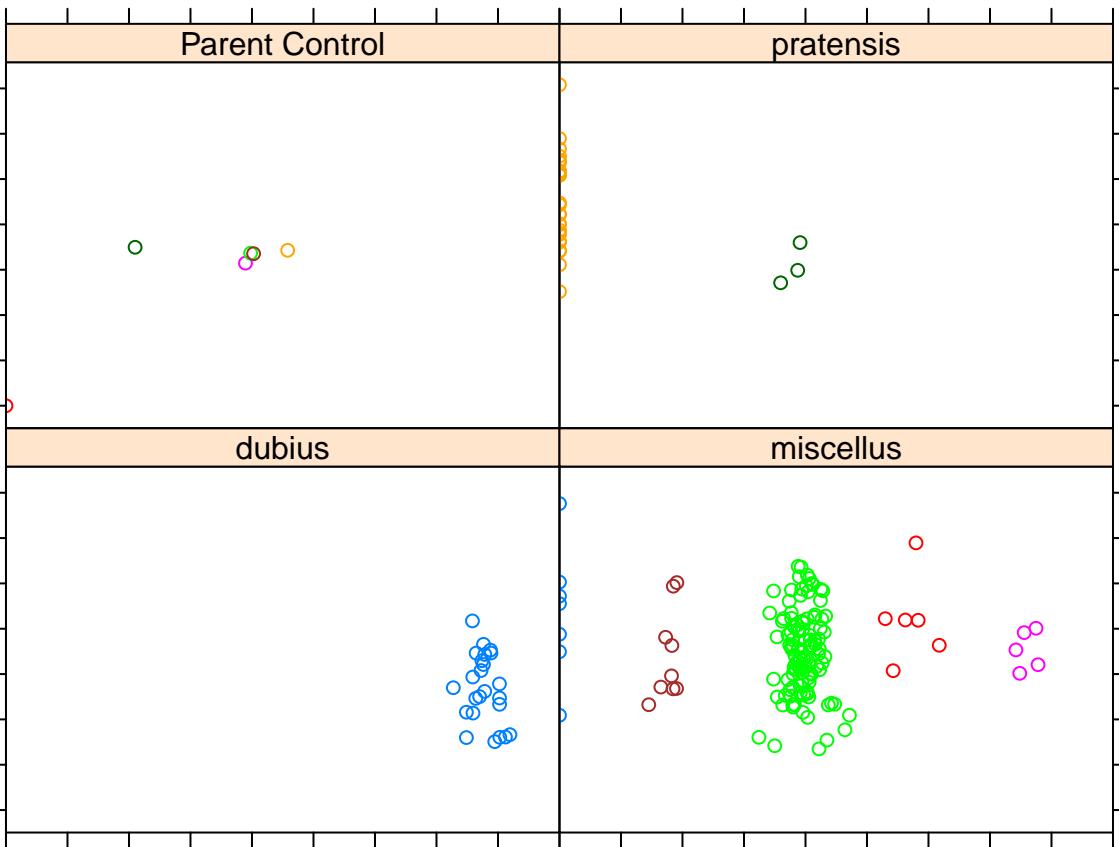
dubius

miscellus

70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig13984_100 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

90
80
70
60
50
40
30
20
10
0

dubius

miscellus

radius (arb)

90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig13984_525 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

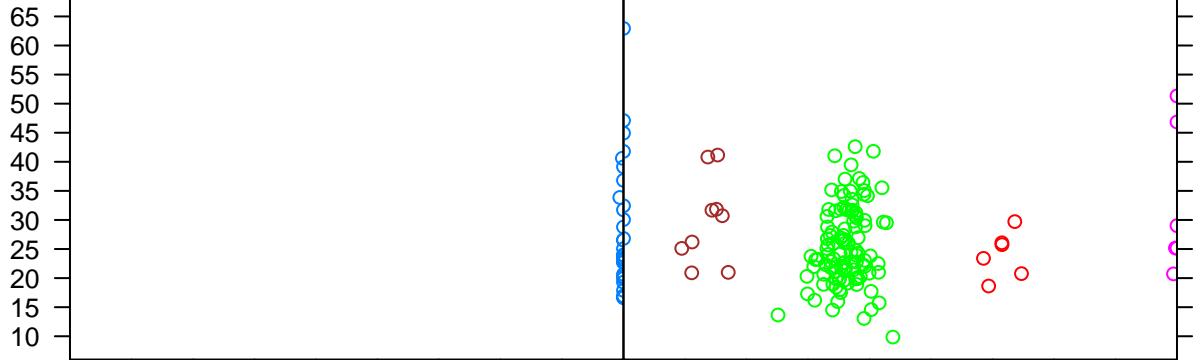
Parent Control

pratensis

65
60
55
50
45
40
35
30
25
20
15
10

dubius

miscellus



theta (deg)

V_2_5_isotig13984_525 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

90
80
70
60
50
40
30
20
10
0

dubius

miscellus

radius (arb)

90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig13984_61 cDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

80
70
60
50
40
30
20

dubius

miscellus

80
70
60
50
40
30
20

10 20 30 40 50 60 70 80

theta (deg)

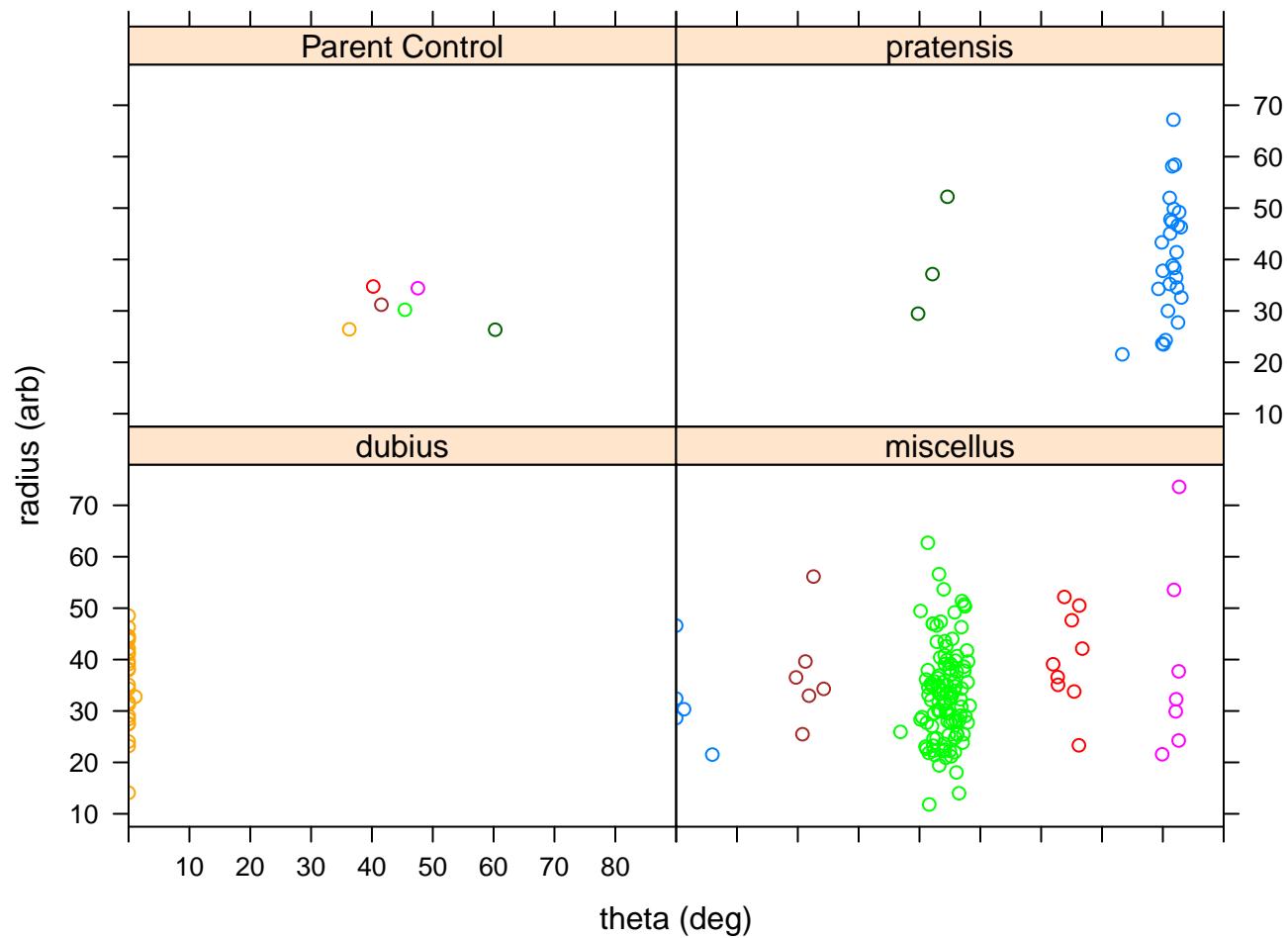
radius (arb)

V_2_5_isotig13984_94 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

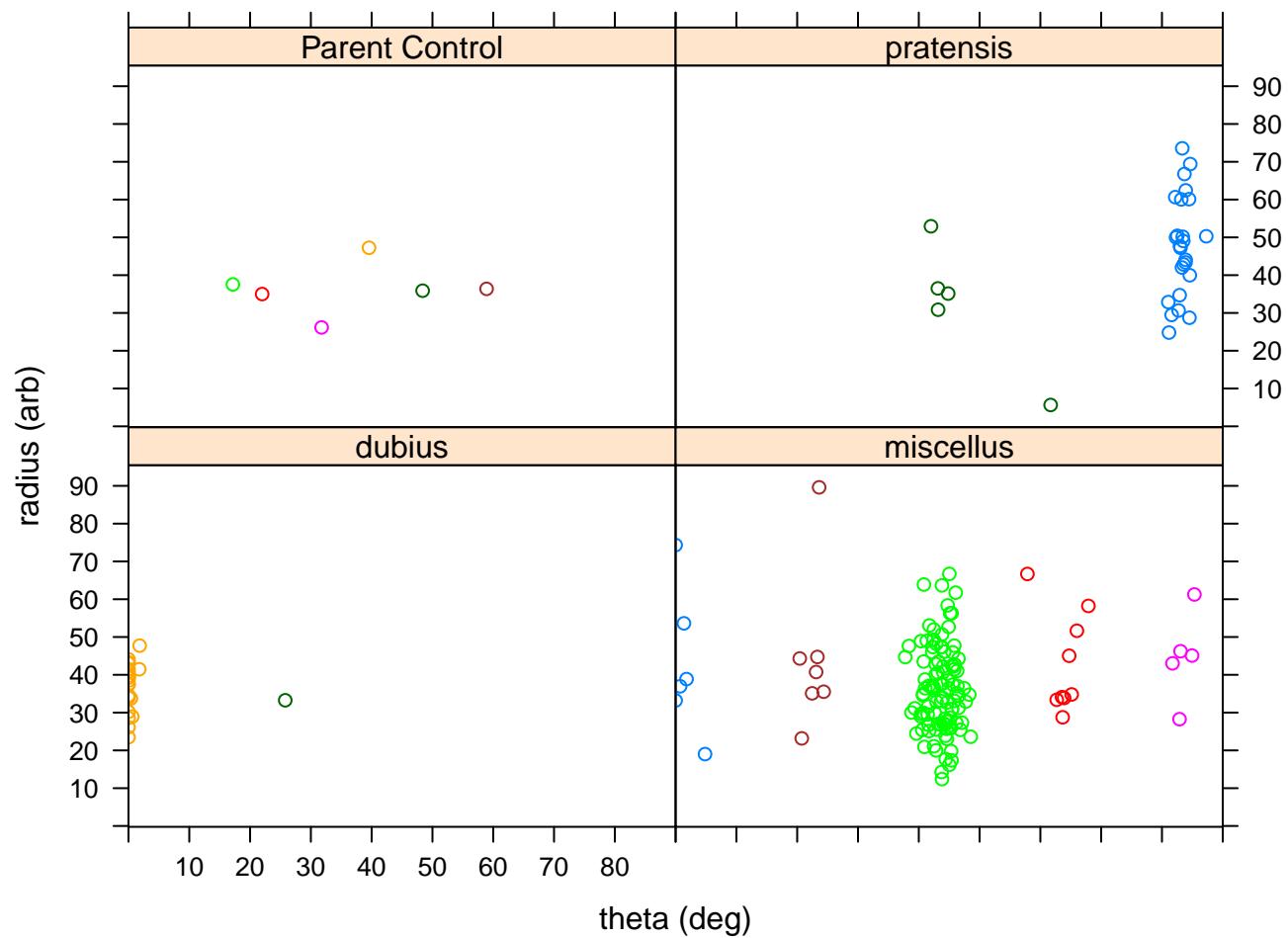


V_2_5_isotig13984_94 cDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80



V_2_5_isotig13991_308 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

70
60
50
40
30
20
10
0

dubius

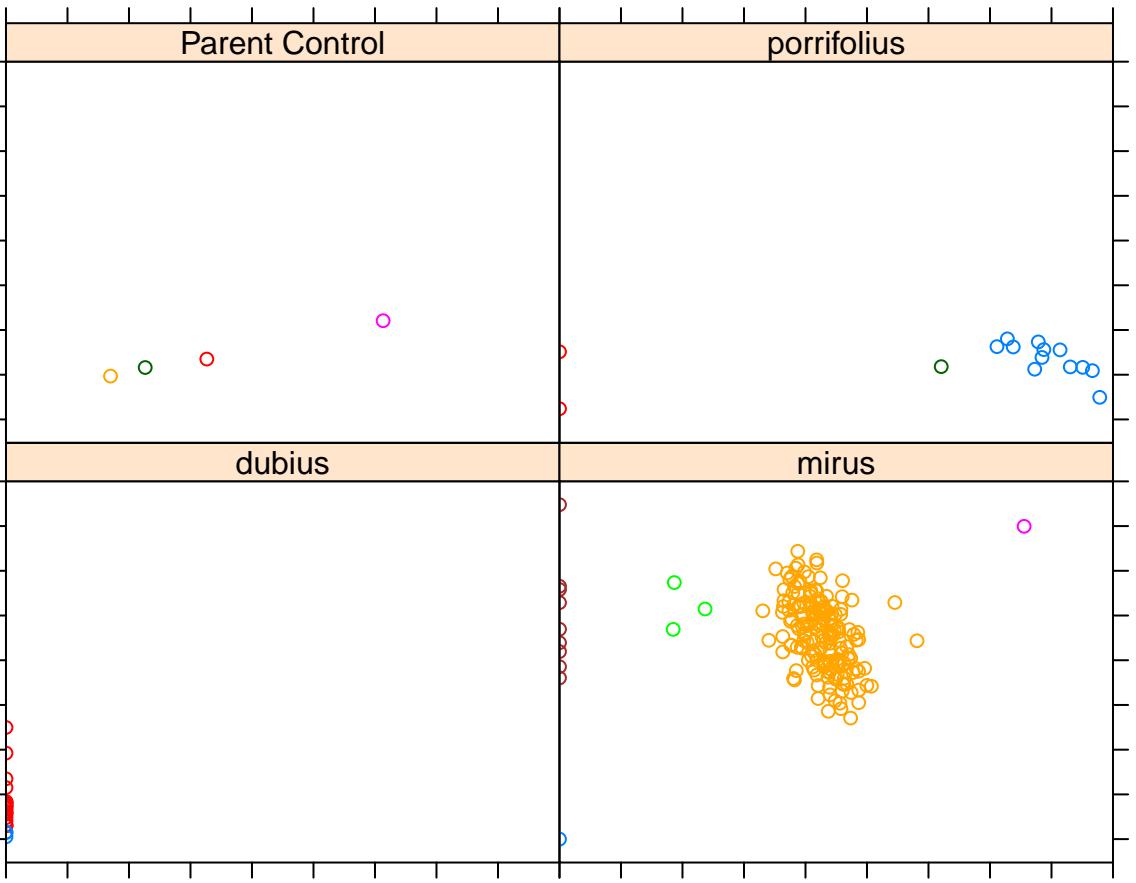
mirus

radius (arb)

70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig13991_308 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLL	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

90
80
70
60
50
40
30
20
10
0

dubius

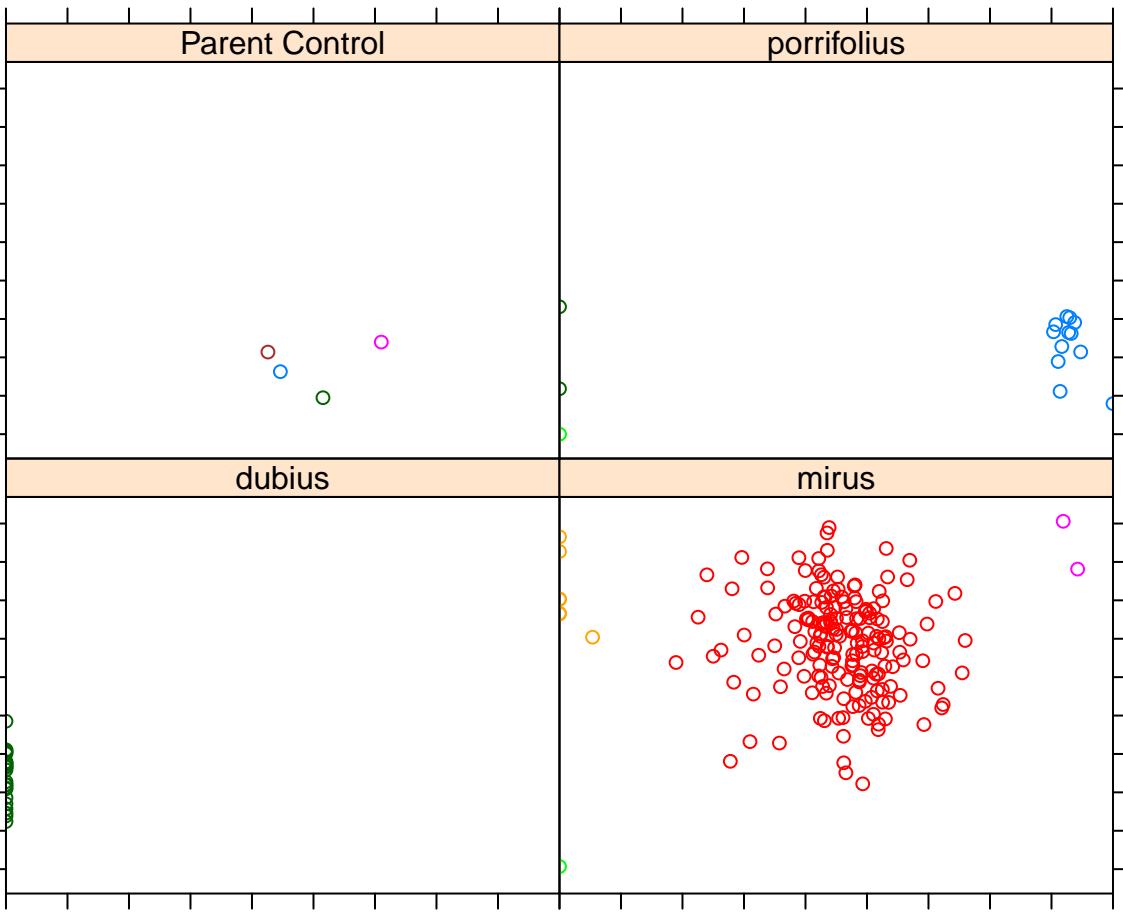
mirus

radius (arb)

90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig14009_374 gDNA

Call

HH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

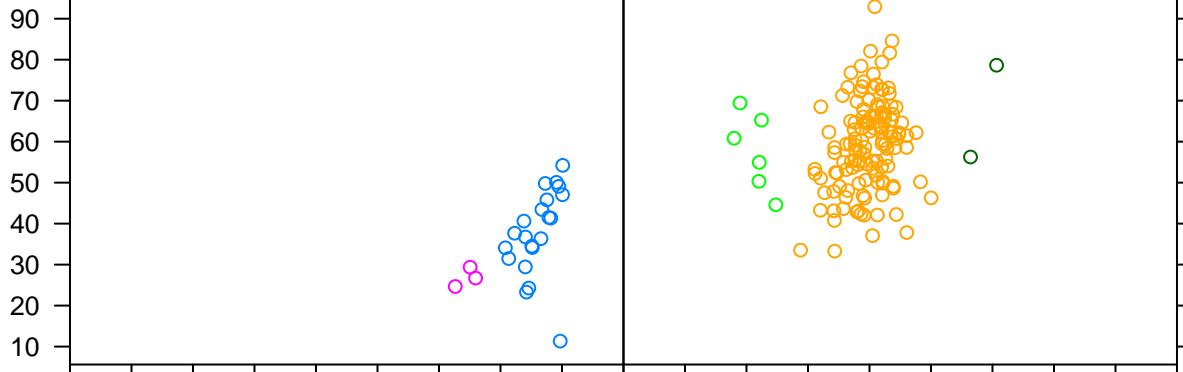
pratensis

90
80
70
60
50
40
30
20
10

dubius

miscellus

radius (arb)



10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig14009_374 cDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
No_Alleles	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

110
100
90
80
70
60
50
40
30
20
10
0

dubius

miscellus

110
100
90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)

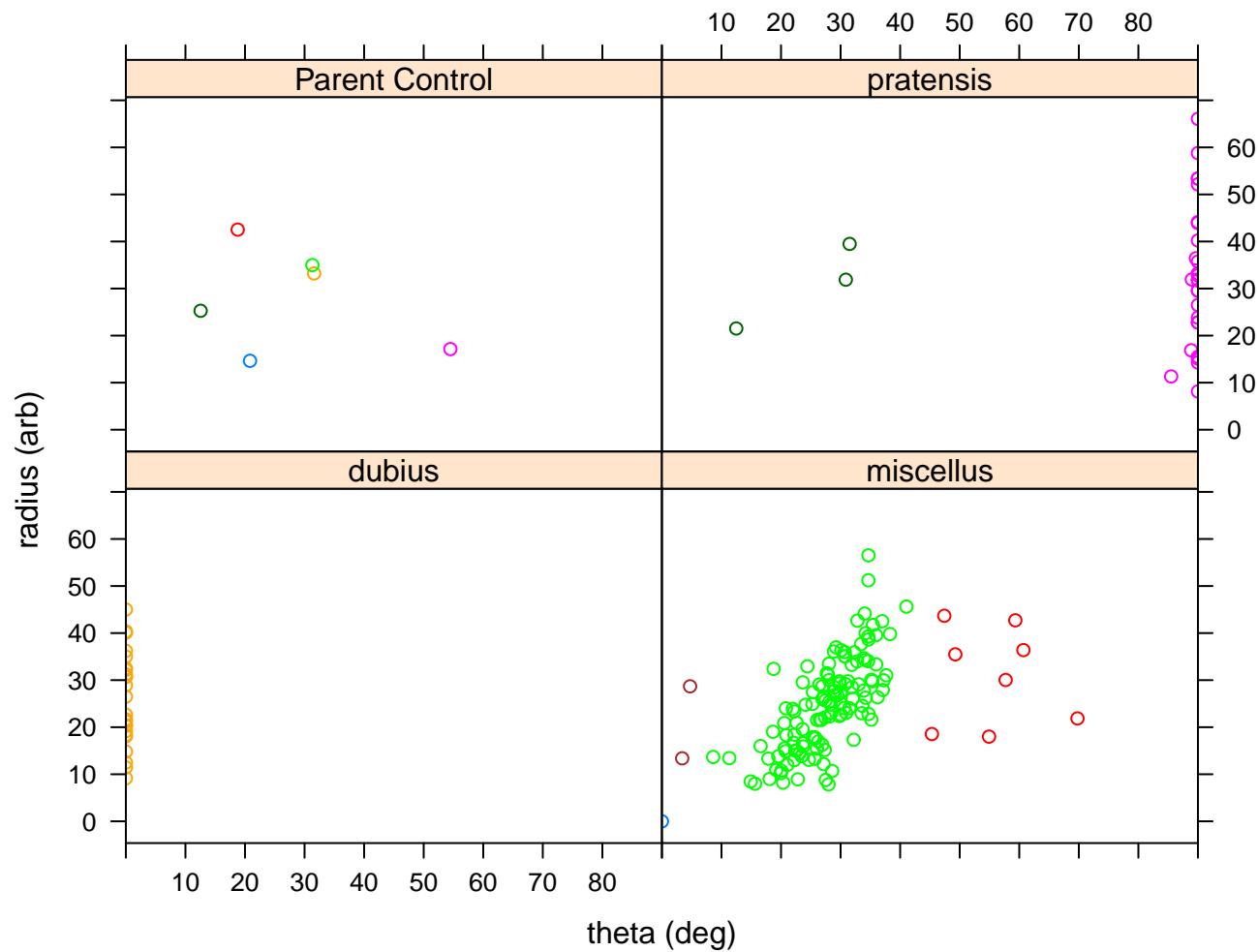
radius (arb)

V_2_5_isotig14009_621 gDNA

Call

Bad_Spectrum
HH
LH
LHHH
LL
LLHH
LLLL

PM3_1_1
PM3_1_2
PM3_2_1
PM4
PM5
PM6



V_2_5_isotig14009_621 cDNA

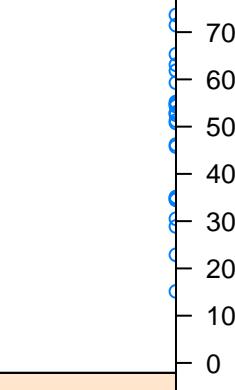
Call

HH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LL	○	PM3_2_1	○
LLHH	○	PM4	○
LLLL	○	PM5	○
No_Alleles	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis



radius (arb)

dubius

miscellus

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig14028_137 gDNA

Call

HH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

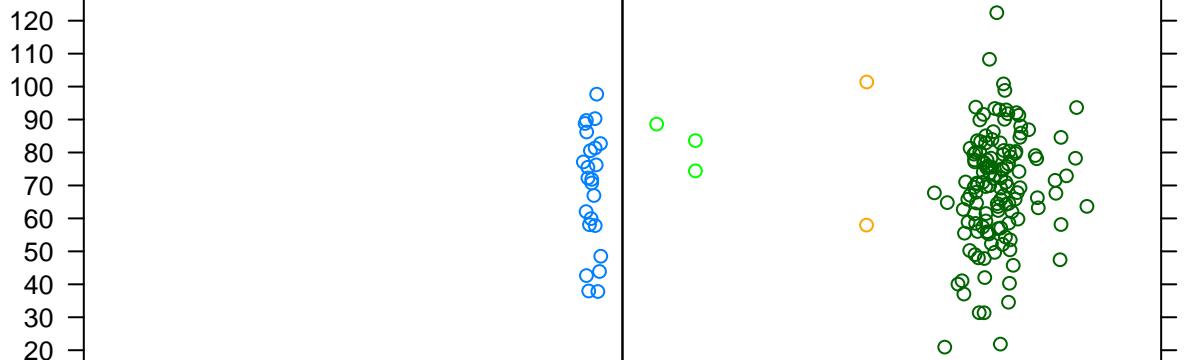
Parent Control

pratensis

120
110
100
90
80
70
60
50
40
30
20

dubius

miscellus



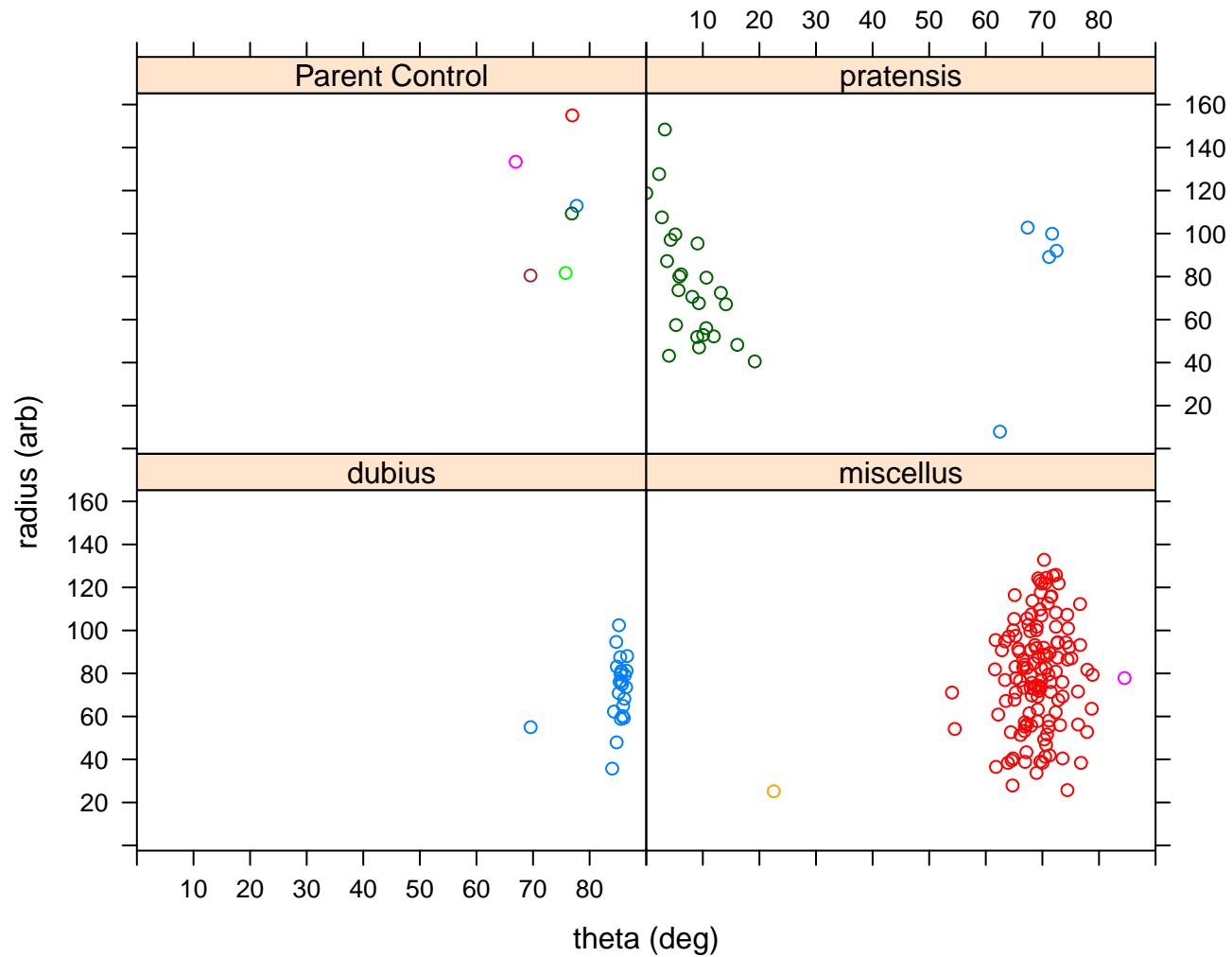
10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig14028_137 cDNA

Call

HH	○	PM3_1_2	○
HHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○
PM3_1_1	○		



V_2_5_isotig14028_278 gDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

radius (arb)

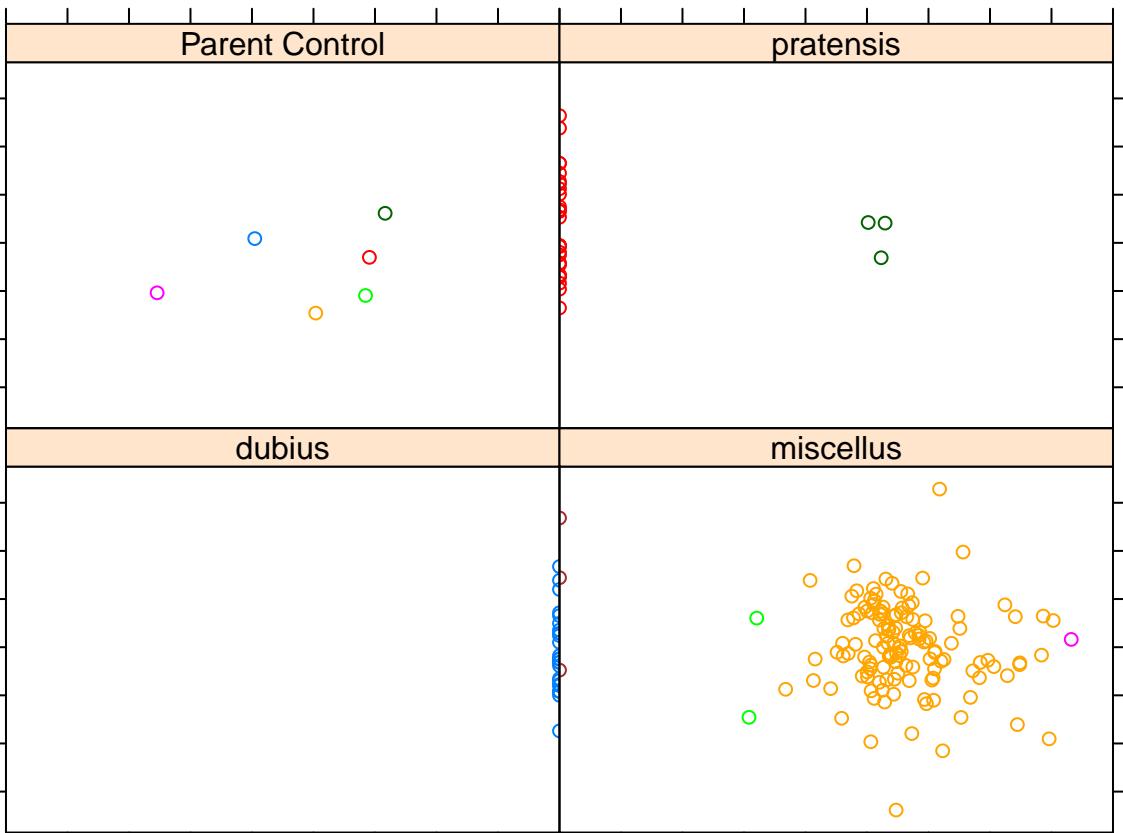
70
60
50
40
30
20
10

dubius

miscellus

10 20 30 40 50 60 70 80

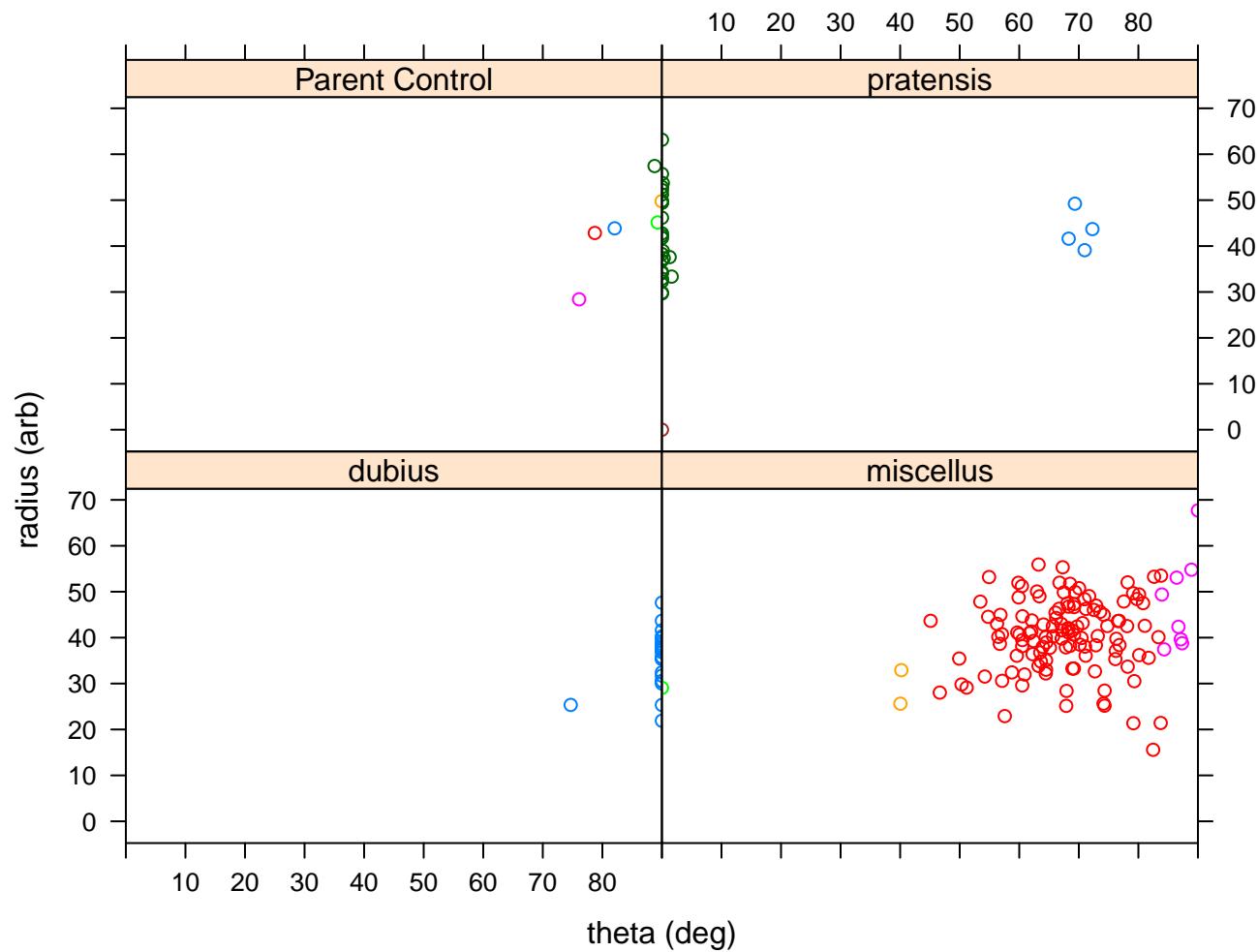
theta (deg)



V_2_5_isotig14028_278 cDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LL	○	PM3_2_1	○
LLHH	○	PM4	○
LLLH	○	PM5	○
LLLL	○	PM6	○
No_Aleles	○		



V_2_5_isotig14028_331 gDNA

Call

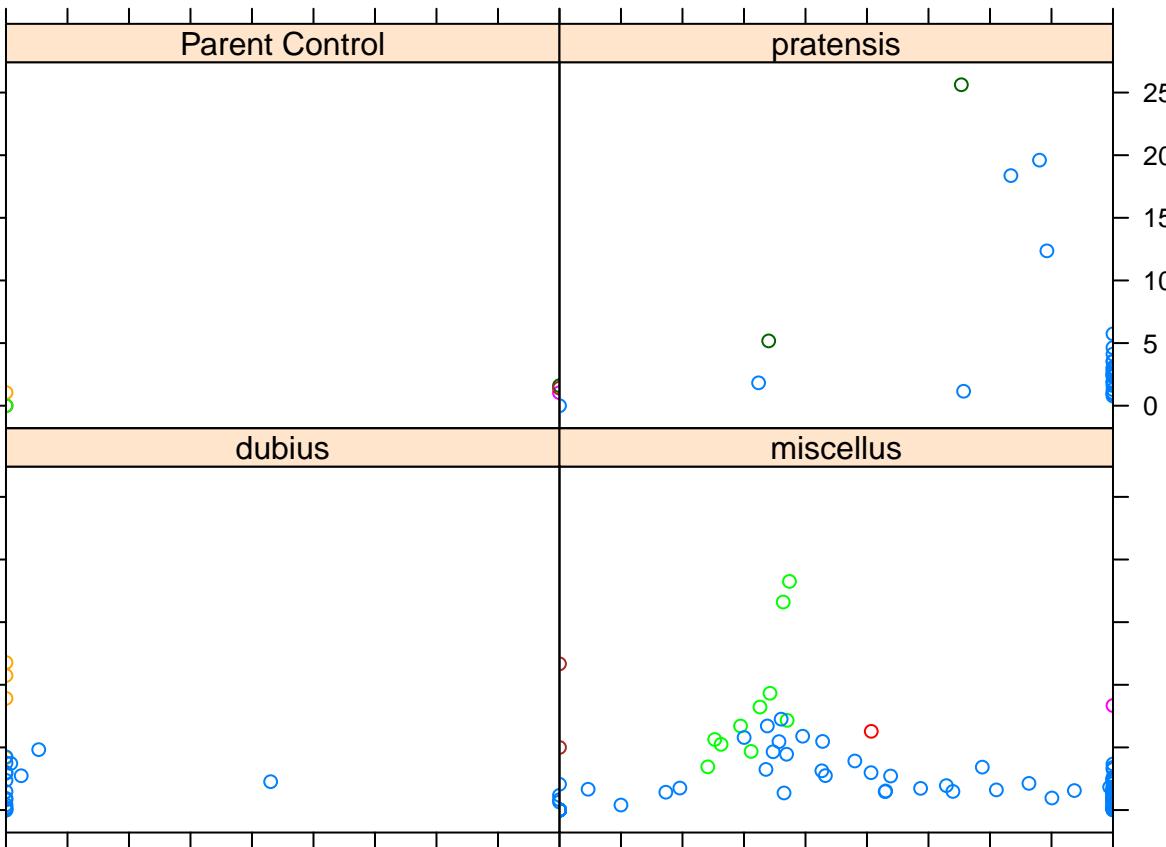
HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

radius (arb)



theta (deg)

V_2_5_isotig14028_331 cDNA

Call

HH	○	No_Aleles	○
LH	○	PM3_1_1	○
LHHH	○	PM3_1_2	○
LL	○	PM3_2_1	○
LLHH	○	PM4	○
LLLH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

45
40
35
30
25
20
15
10
5
0

dubius

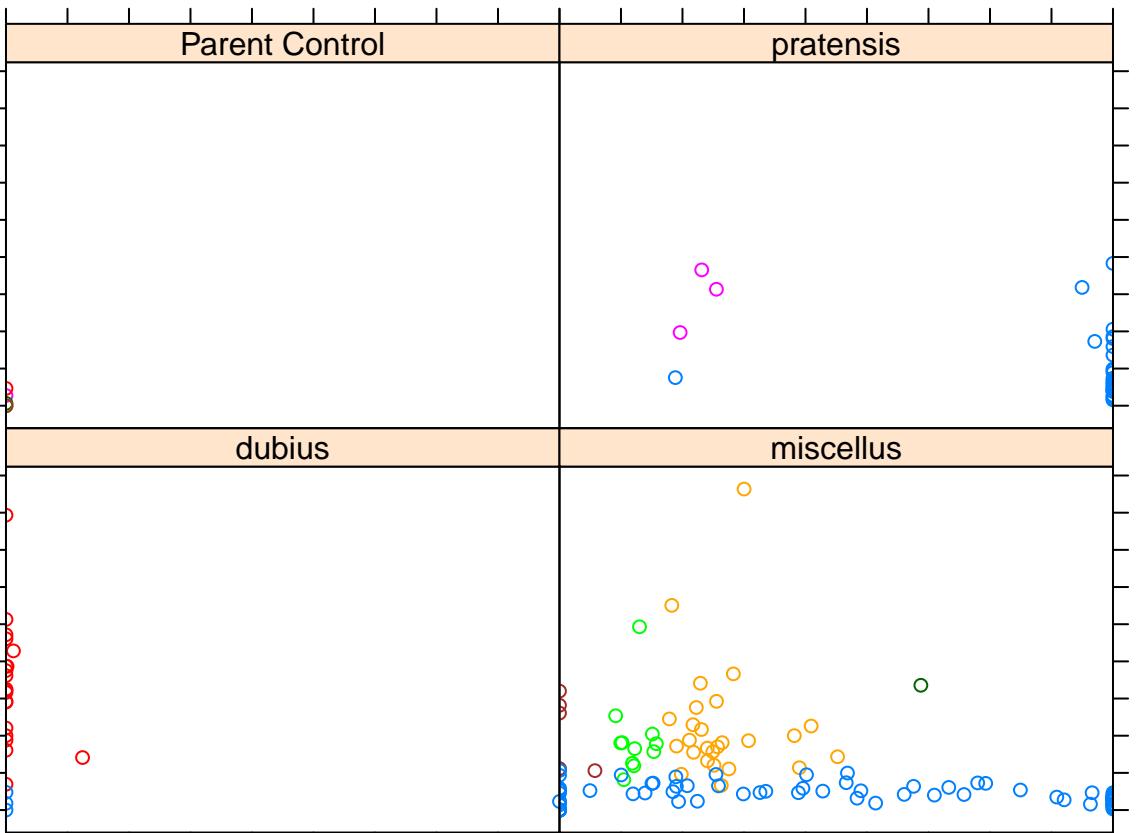
miscellus

radius (arb)

45
40
35
30
25
20
15
10
5
0

10 20 30 40 50 60 70 80

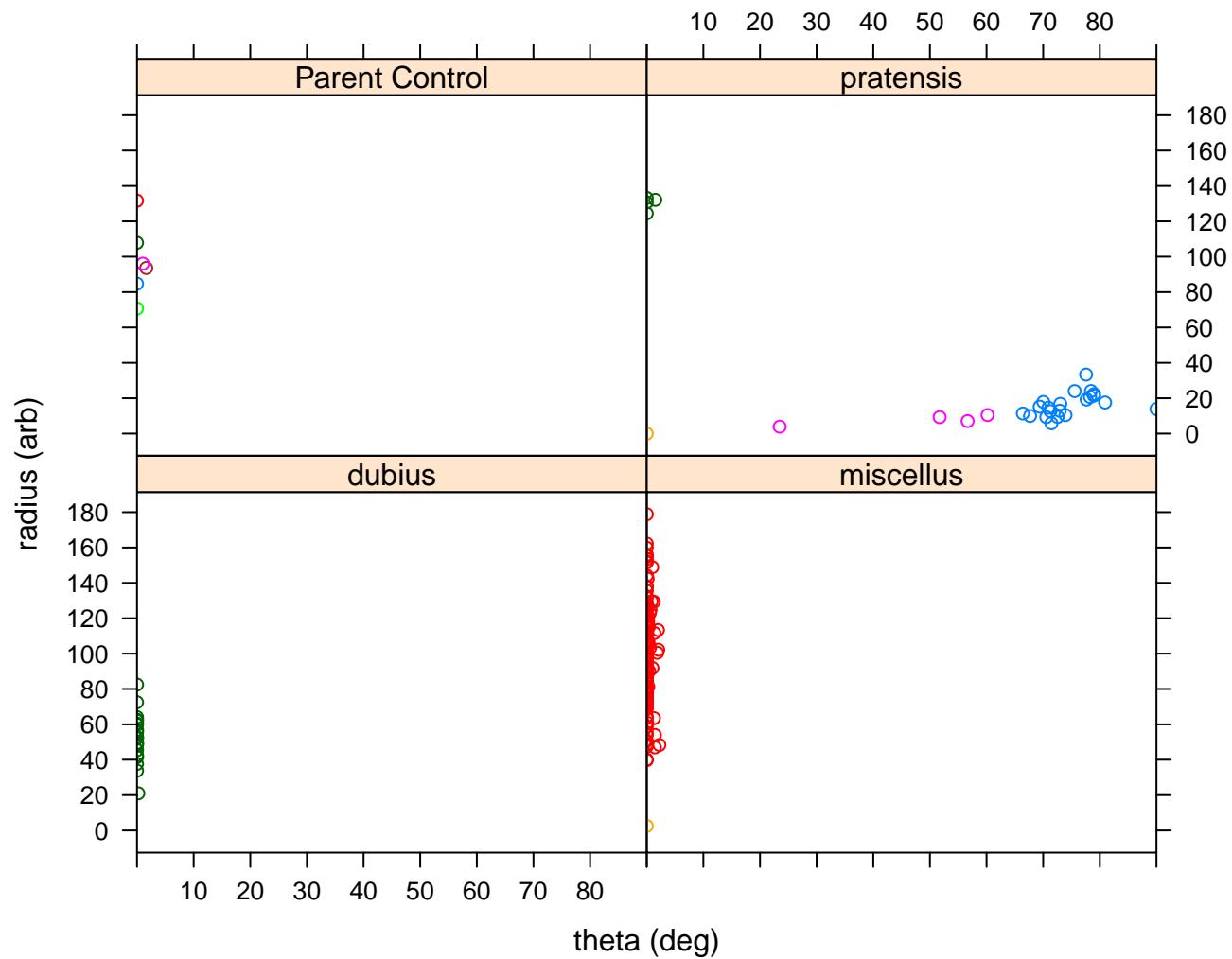
theta (deg)



V_2_5_isotig14028_600 cDNA

Call

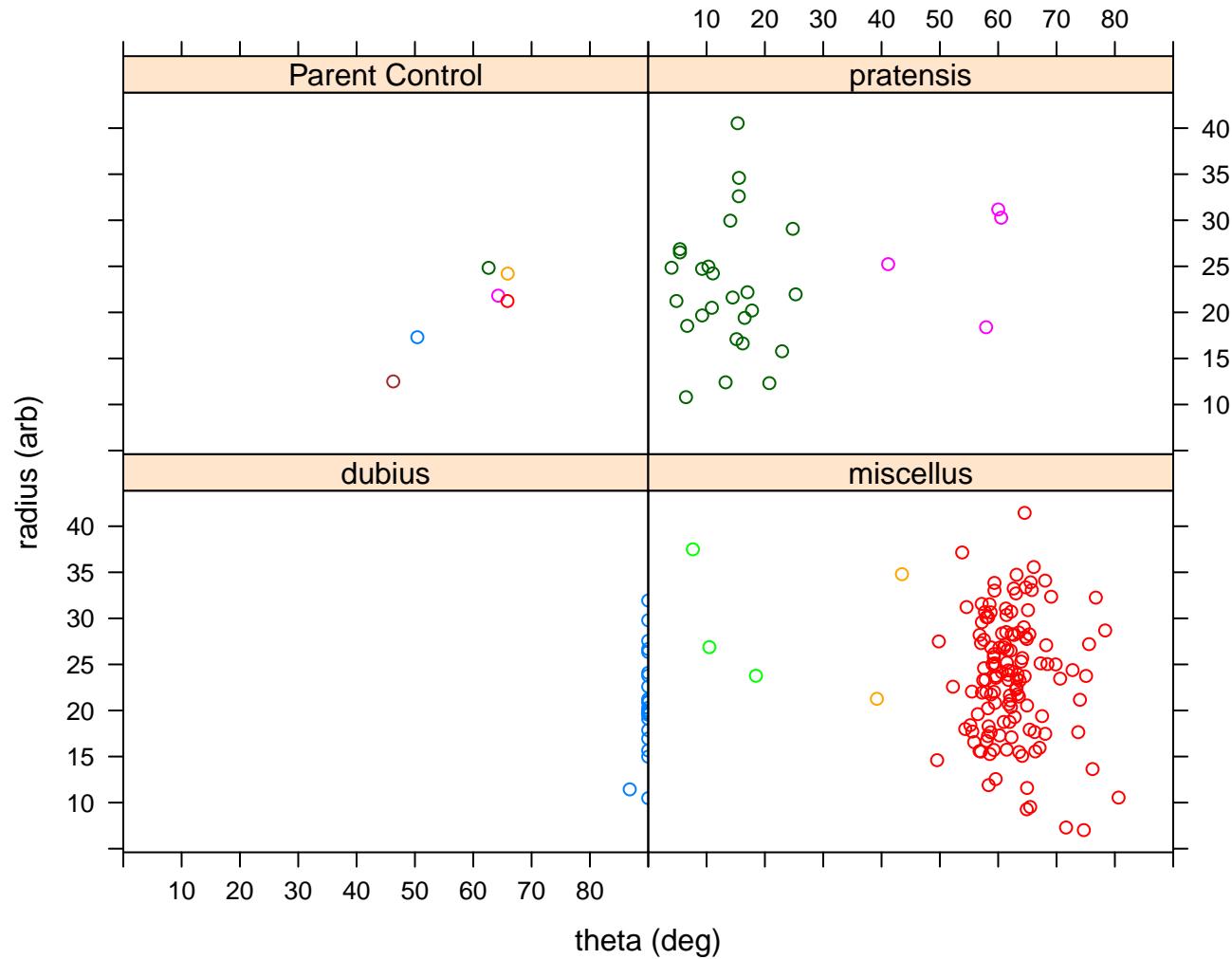
HH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLLL	○	PM5	○
No_Aleles	○	PM6	○
PM3_1_1	○		



V_2_5_isotig14028_86 gDNA

Call

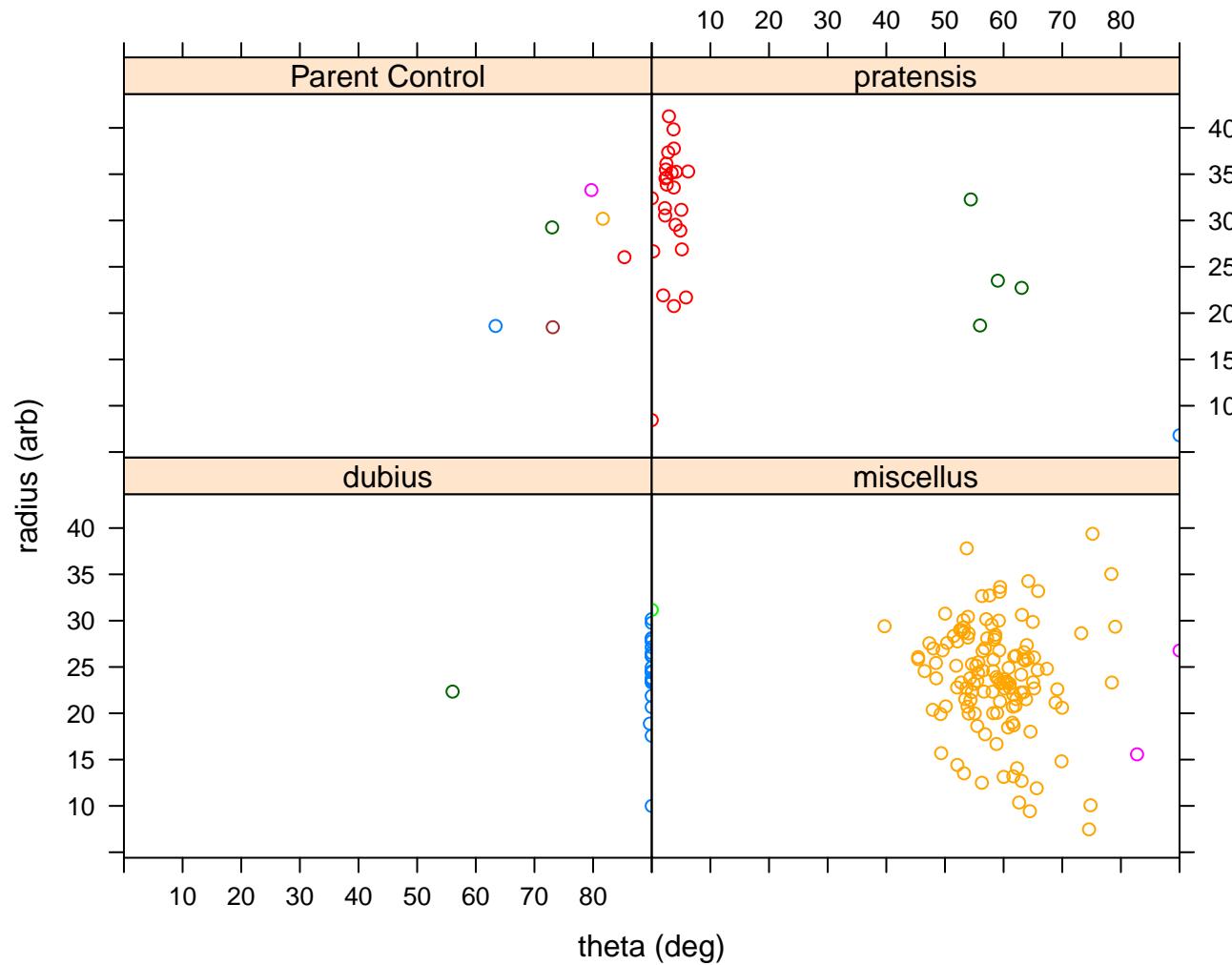
HH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LL	○	PM3_2_1	○
LLHH	○	PM4	○
LLLH	○	PM5	○
LLLL	○	PM6	○



V_2_5_isotig14028_86 cDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○



V_2_5_isotig14095_298 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		

10 20 30 40 50 60 70 80

Parent Control

porrifolius

90
80
70
60
50
40
30
20
10

dubius

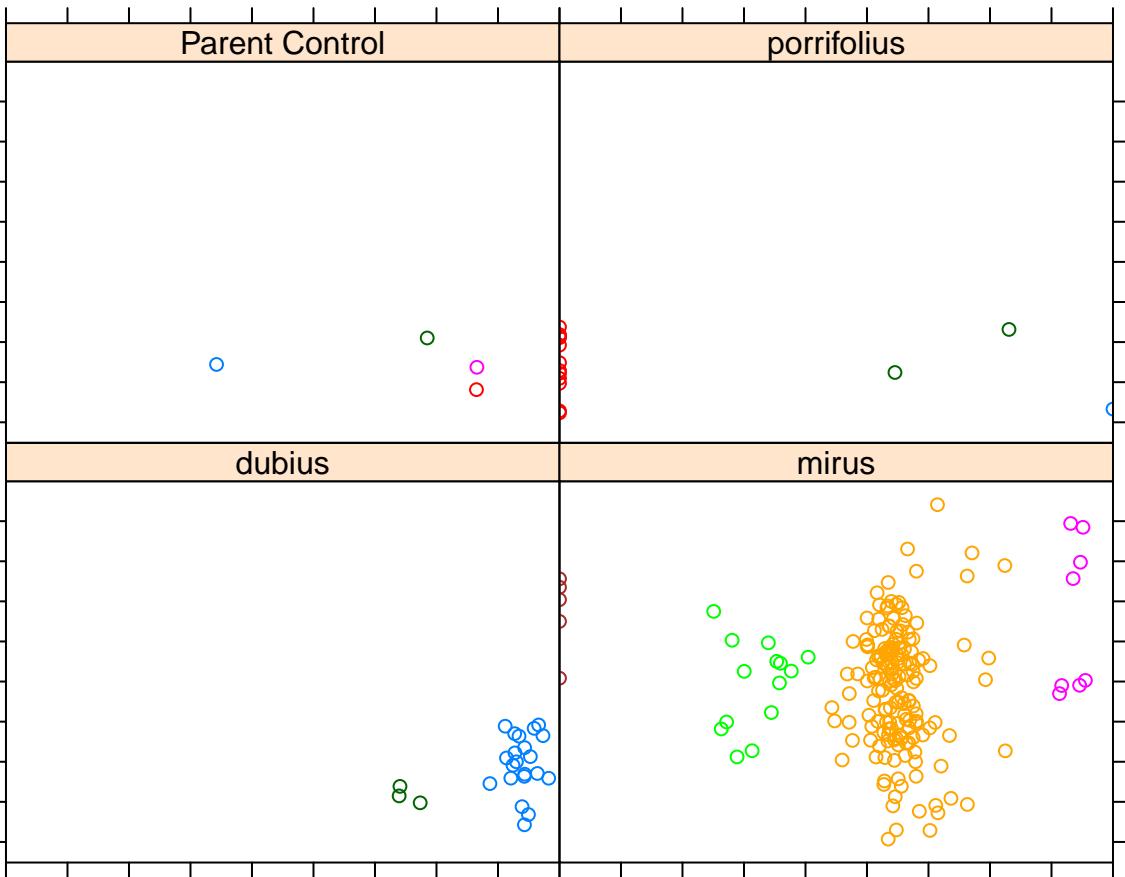
mirus

radius (arb)

90
80
70
60
50
40
30
20
10

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig14095_298 cDNA

Call

HH	○	LLLL	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		

10 20 30 40 50 60 70 80

Parent Control

porrifolius

90
80
70
60
50
40
30
20
10

dubius

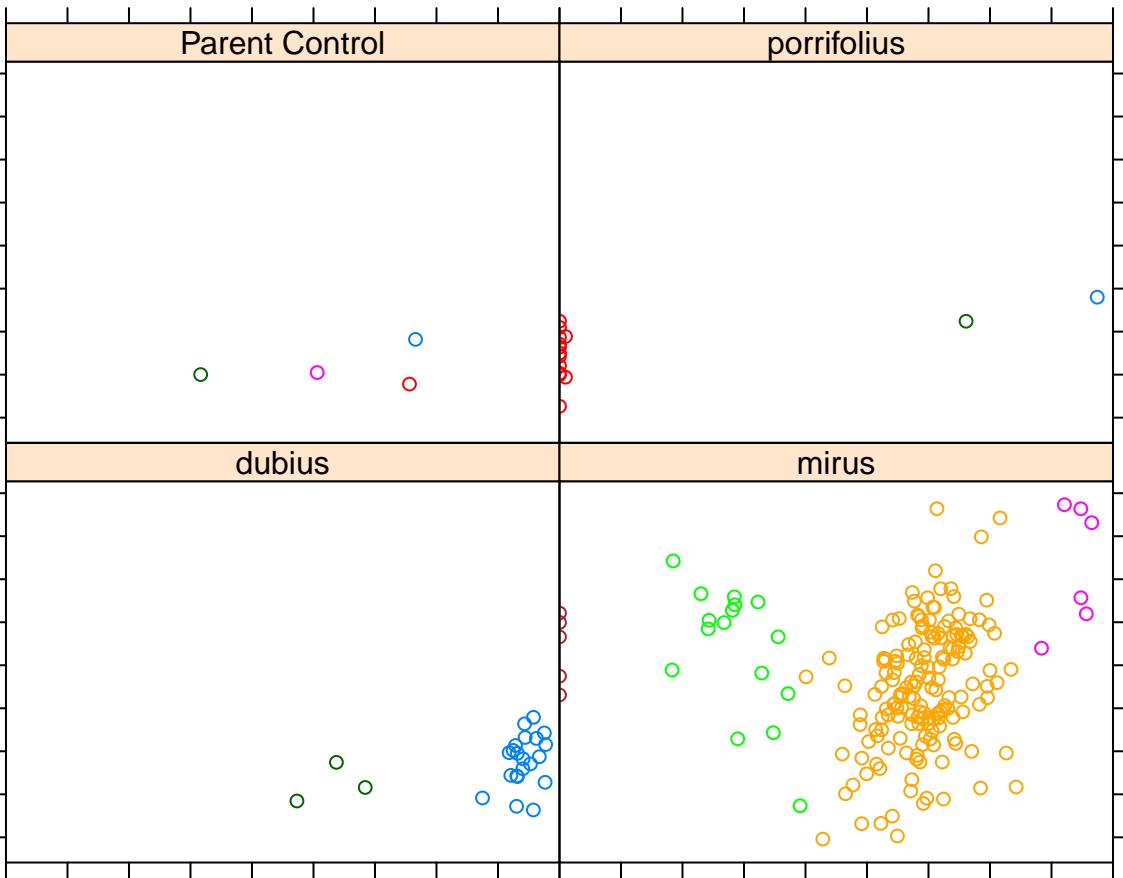
mirus

radius (arb)

90
80
70
60
50
40
30
20
10

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig14108_308 gDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

120
110
100
90
80
70
60
50
40
30
20
10
0

radius (arb)

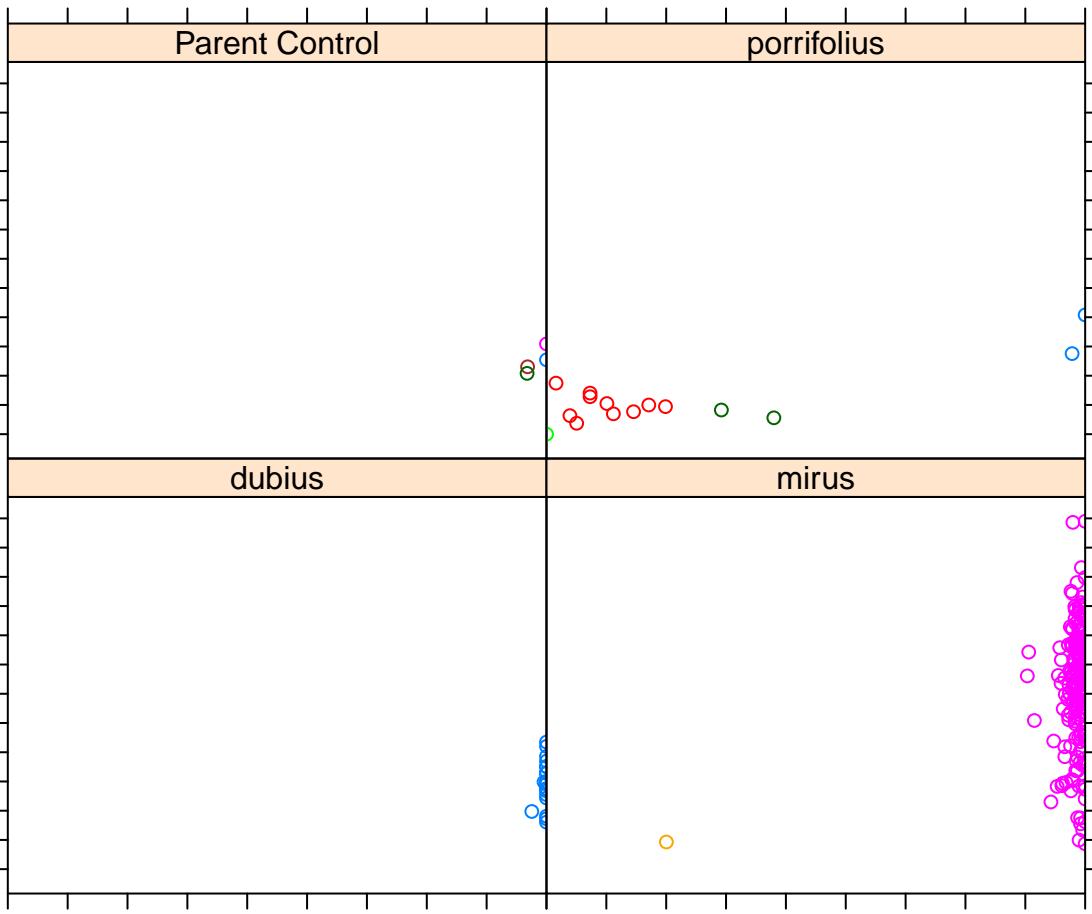
dubius

mirus

120
110
100
90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig14108_308 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○
LLLL	○		○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

120
100
80
60
40
20
0

dubius

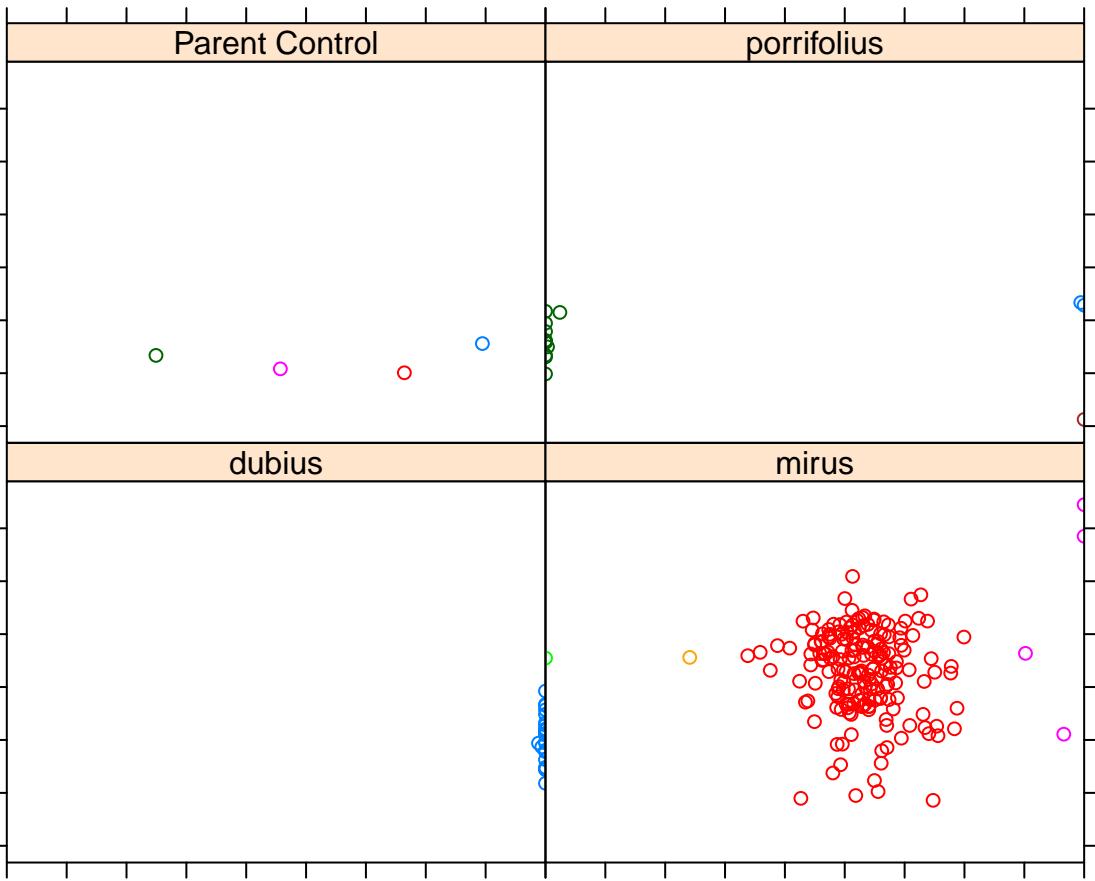
mirus

120
100
80
60
40
20
0

radius (arb)

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig14108_311 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

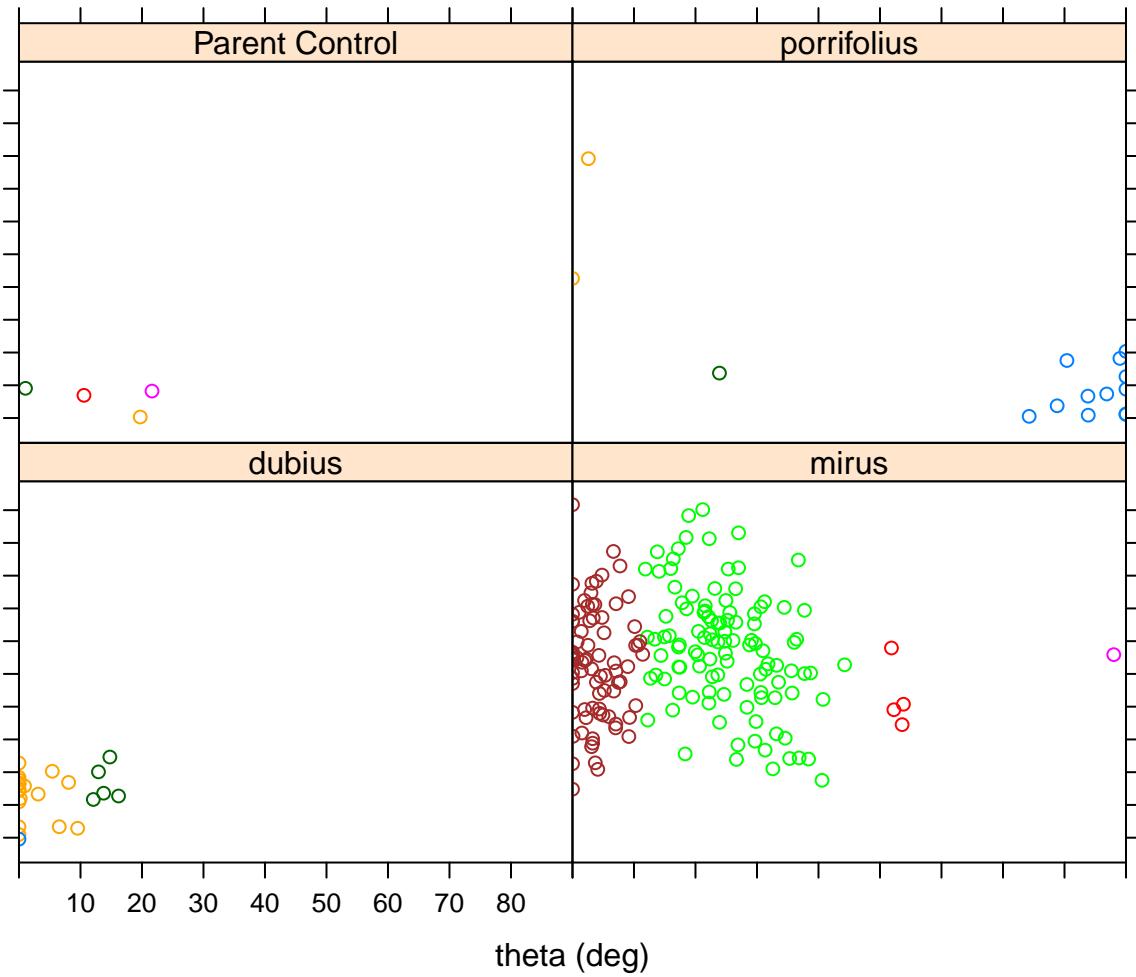
porrifolius

55
50
45
40
35
30
25
20
15
10
5

dubius

mirus

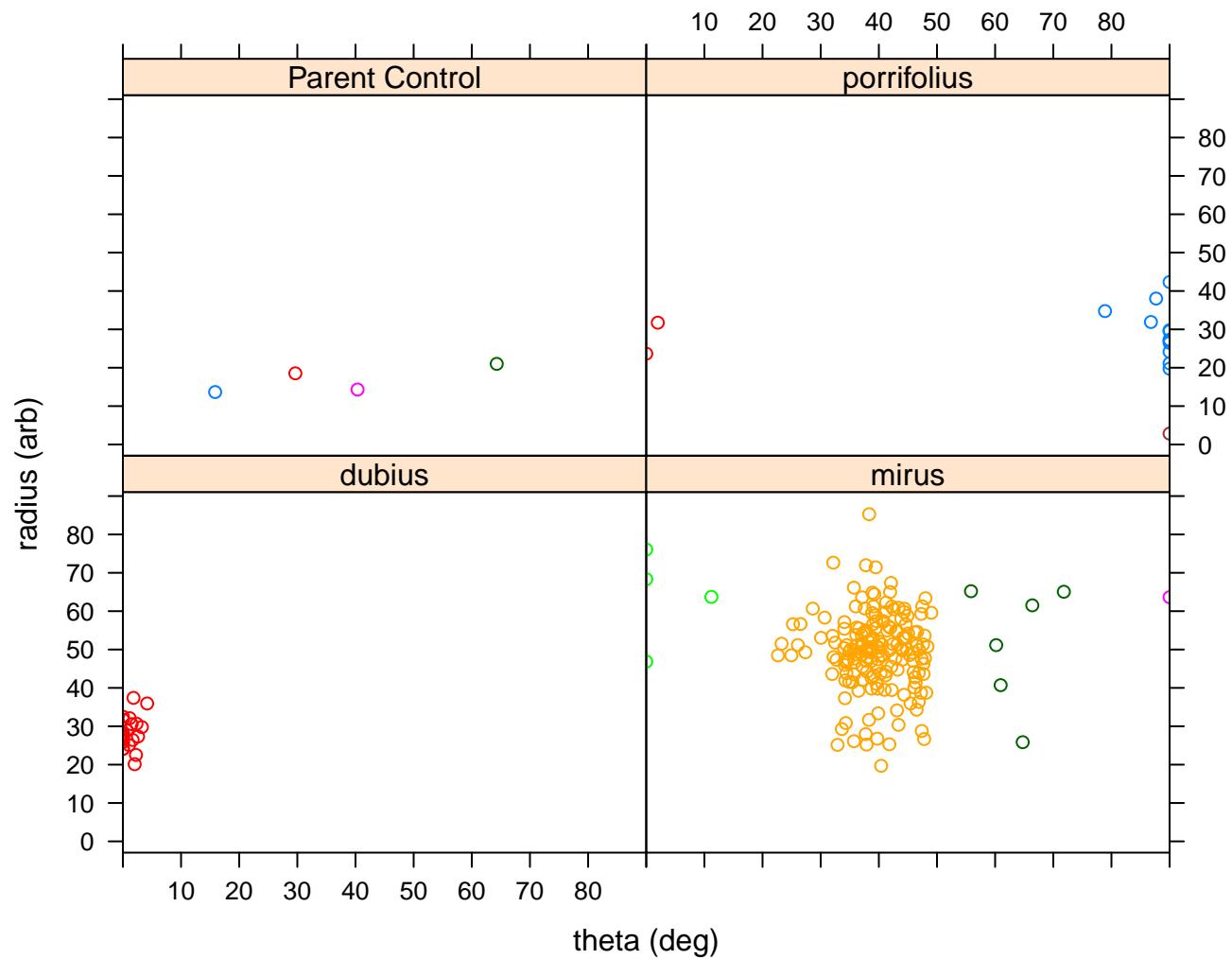
radius (arb)



V_2_5_isotig14108_311 cDNA

Call

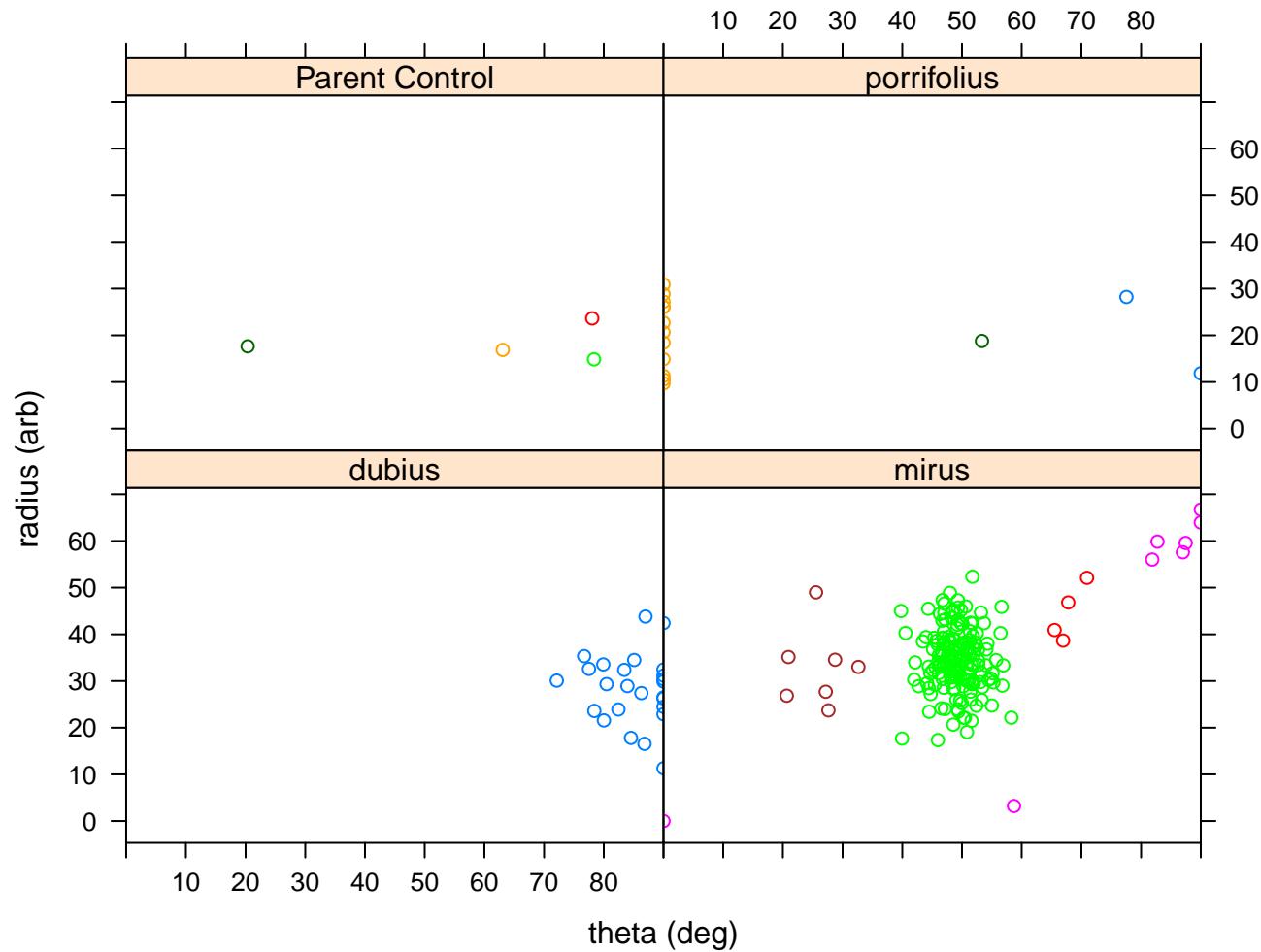
HH	○	No_Aleles	○
HHHH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLL	○		



V_2_5_isotig14193_303 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig14193_303 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

radius (arb)

70
60
50
40
30
20
10
0

dubius

mirus

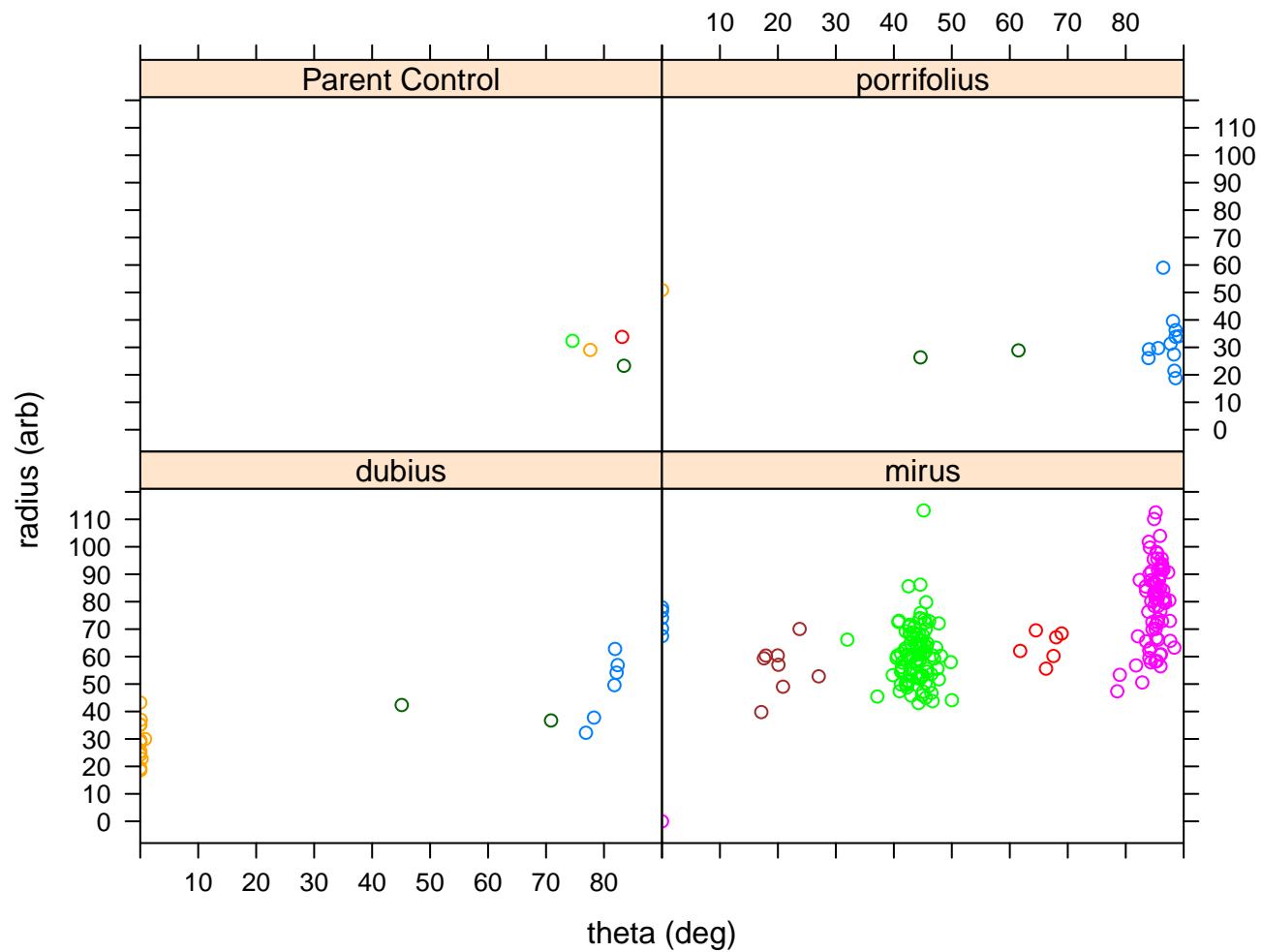
10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig14264_137 gDNA

Call

HH	○	LLLL	○
HHHH	●	No_Aleles	●
LH	○	PM1	○
LHHH	●	PM2_1_1	●
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	●		



V_2_5_isotig14275_296 gDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

porrifolius

radius (arb)

70
60
50
40
30
20
10
0

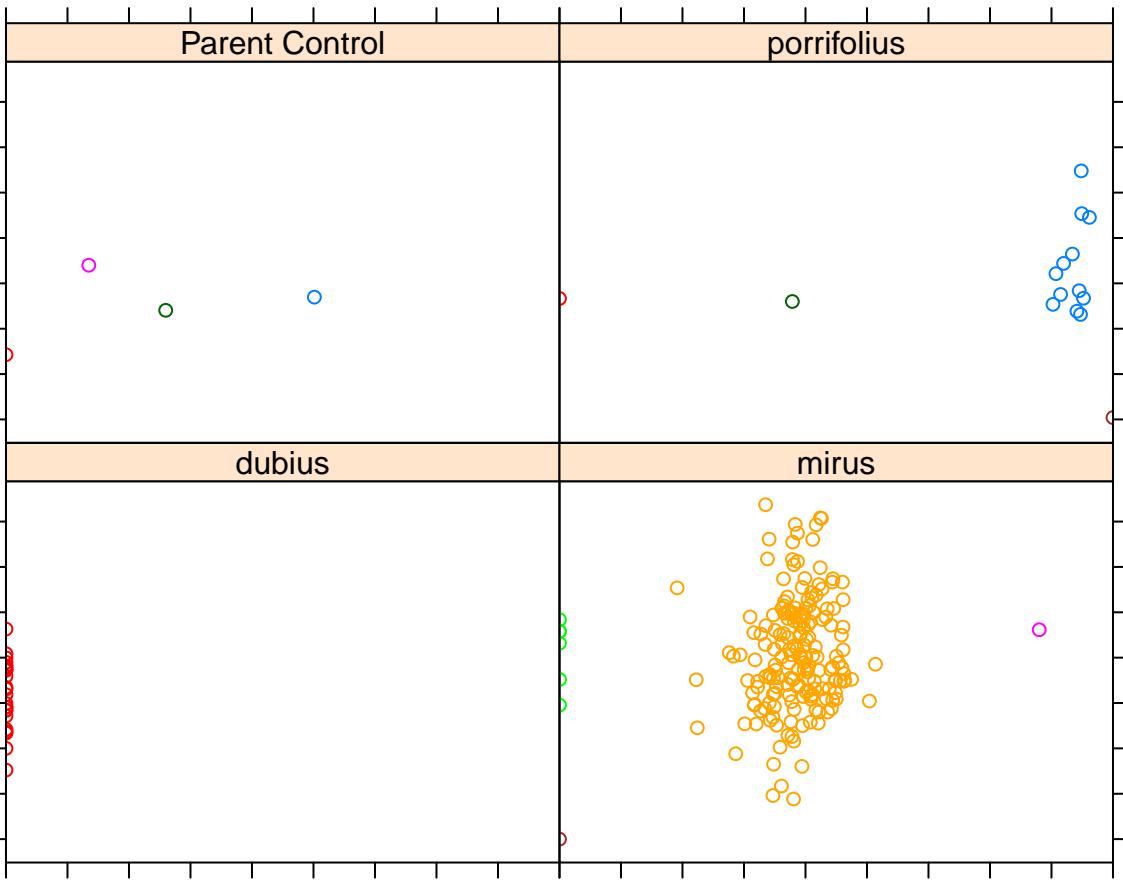
dubius

mirus

70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig14275_296 cDNA

Call

Bad_Spectrum	LLL	No_Alleles	○
HH	○	PM1	○
HHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		

10 20 30 40 50 60 70 80

Parent Control

porrifolius

70
60
50
40
30
20
10
0

dubius

mirus

72
60
50
40
30
20
10
0

radius (arb)

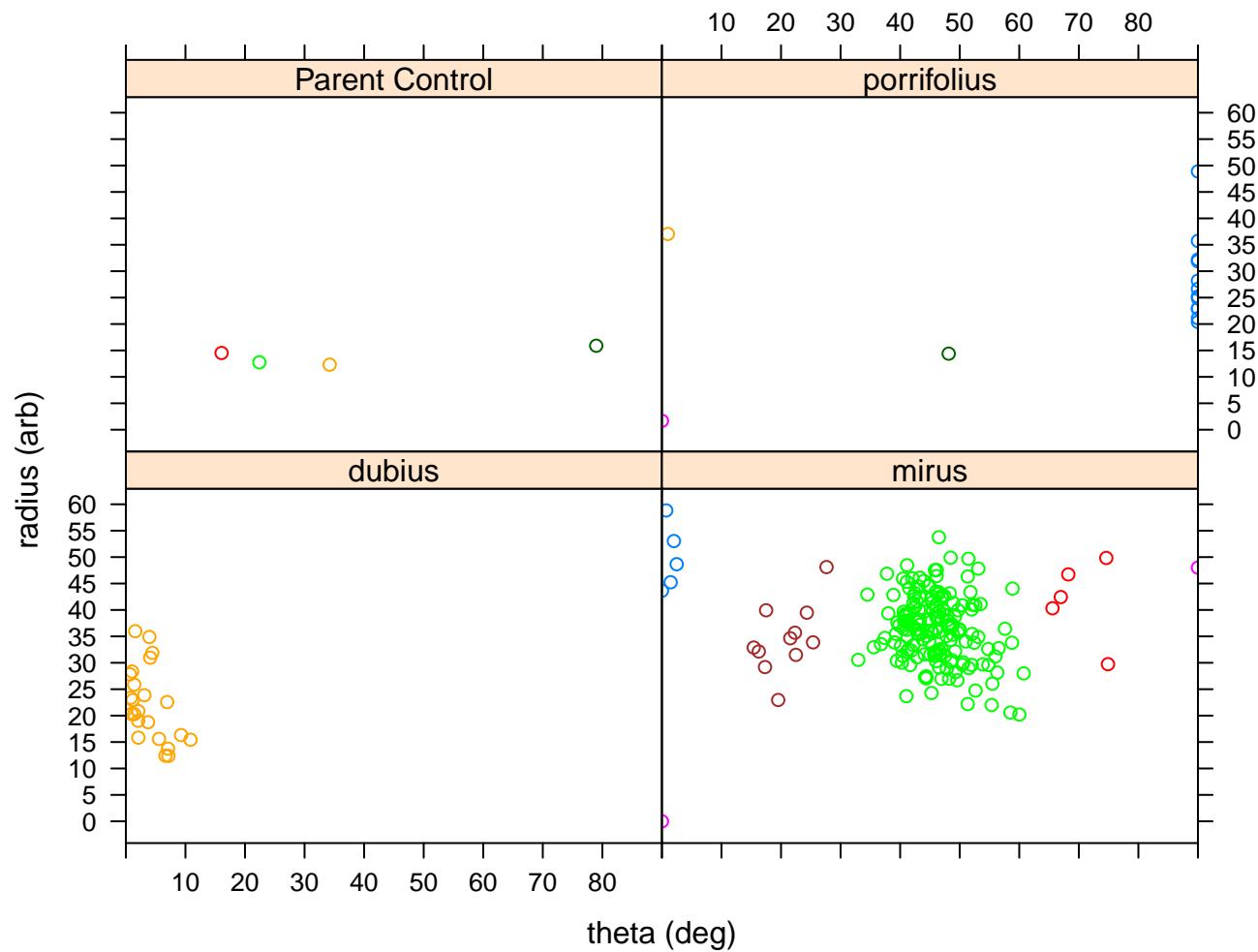
theta (deg)

10 20 30 40 50 60 70 80

V_2_5_isotig14319_430 gDNA

Call

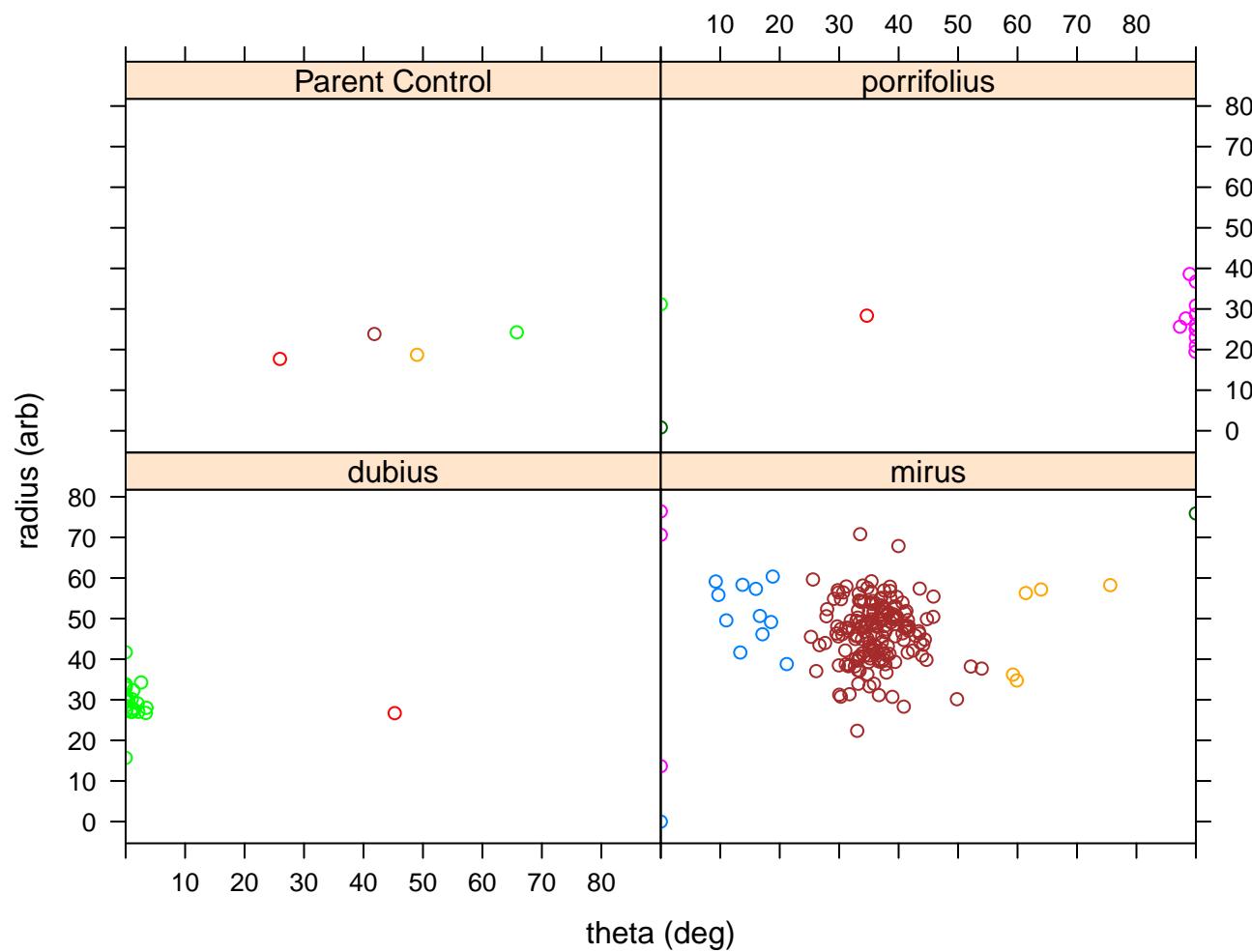
HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig14319_430 cDNA

Call

Bad_Spectrum	○	LLLH	○
HH	○	LLLL	○
HHHH	○	No_Alleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○



V_2_5_isotig14345_278 gDNA

Call

Bad_Spectrum
HH
LH
LHHH
LL
LLHH
LLLH

LLLL
PM3_1_1
PM3_1_2
PM3_2_1
PM4
PM5
PM6

10 20 30 40 50 60 70 80

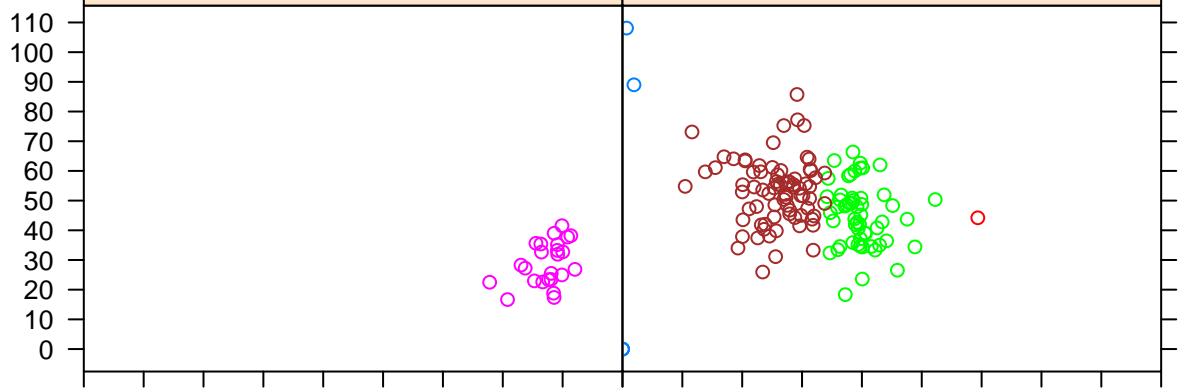
Parent Control

pratensis

110
100
90
80
70
60
50
40
30
20
10
0

dubius

miscellus



theta (deg)

V_2_5_isotig14345_278 cDNA

Call

Bad_Spectrum	○	No_Alleles	○
HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LHHH	○	PM4	○
LL	○	PM5	○
LLHH	○	PM6	○
LLLH	○		

10 20 30 40 50 60 70 80

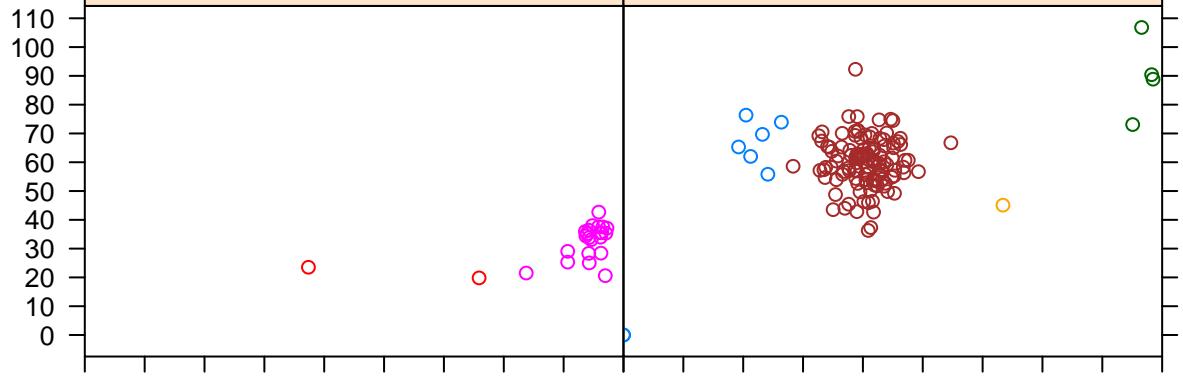
Parent Control

pratensis

110
100
90
80
70
60
50
40
30
20
10
0

dubius

miscellus



theta (deg)

V_2_5_isotig14355_366 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

70
60
50
40
30
20
10
0

dubius

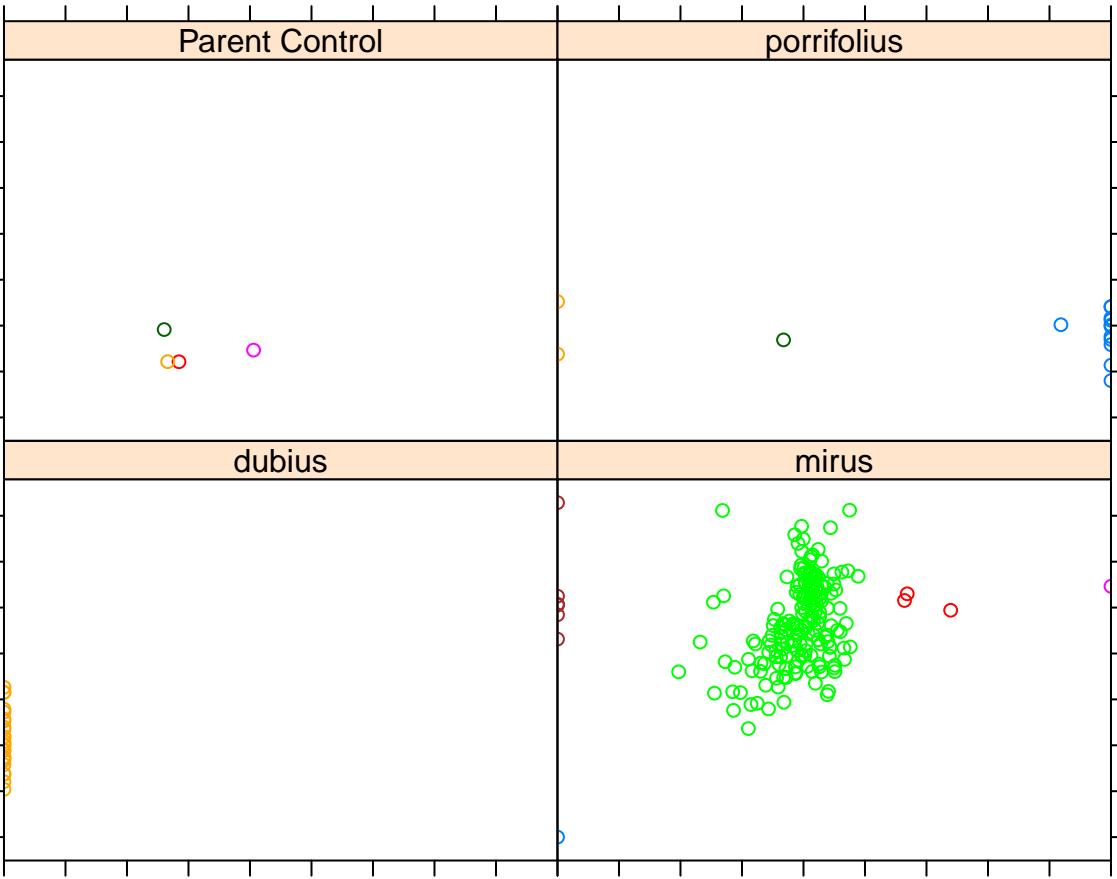
mirus

72
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)

radius (arb)



V_2_5_isotig14355_366 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

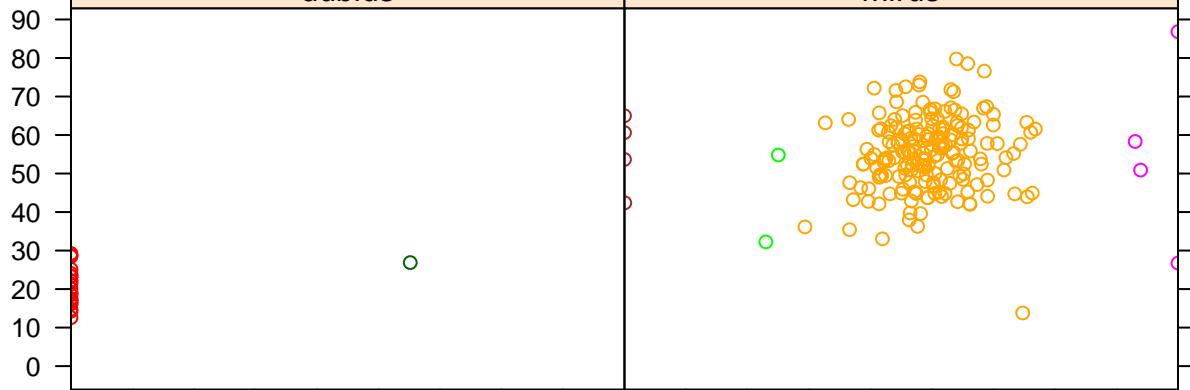
porrifolius

90
80
70
60
50
40
30
20
10
0

dubius

mirus

radius (arb)



theta (deg)

V_2_5_isotig14376_481 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

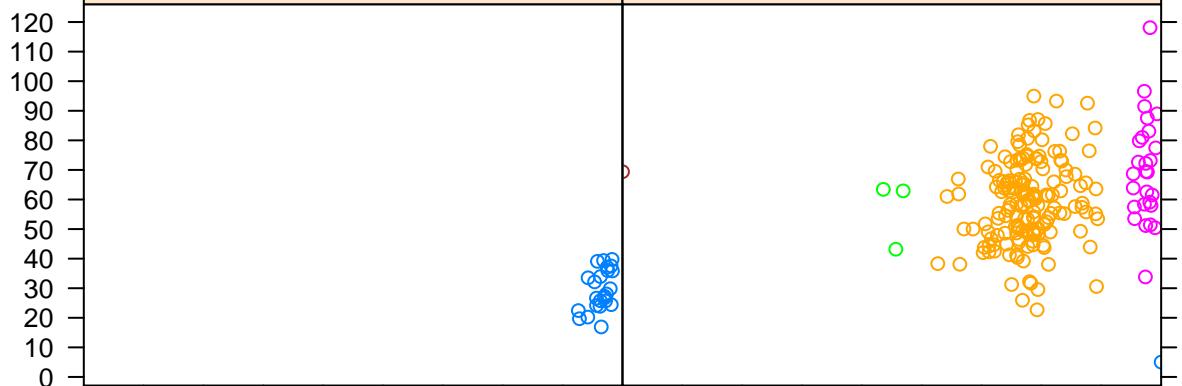
Parent Control

porrifolius

120
110
100
90
80
70
60
50
40
30
20
10
0

dubius

mirus



theta (deg)

V_2_5_isotig14376_481 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LHHH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

140
120
100
80
60
40
20
0

dubius

mirus

140
120
100
80
60
40
20
0

10 20 30 40 50 60 70 80

theta (deg)

radius (arb)

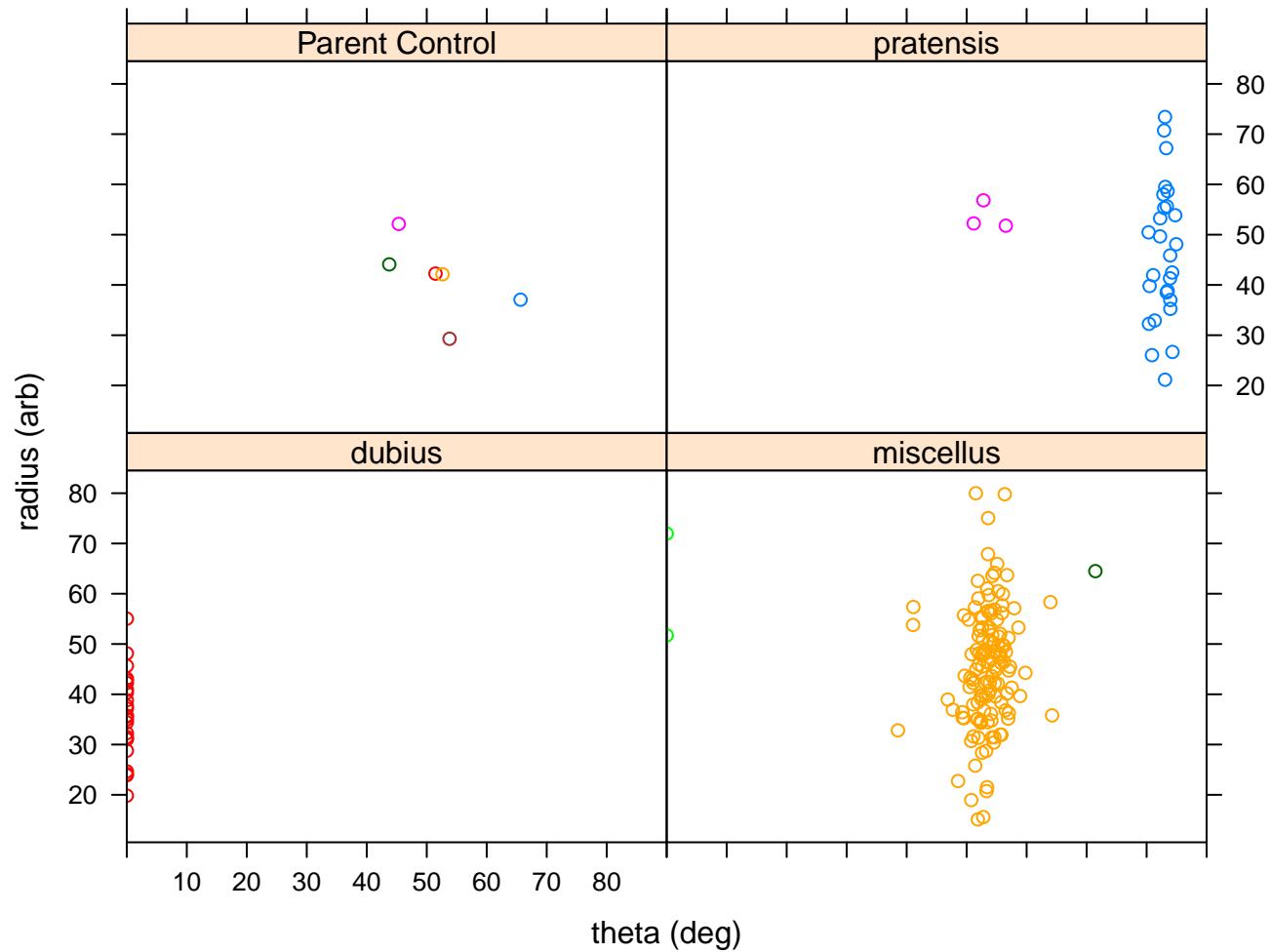
140
120
100
80
60
40
20
0

V_2_5_isotig14384_217 gDNA

Call

HH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

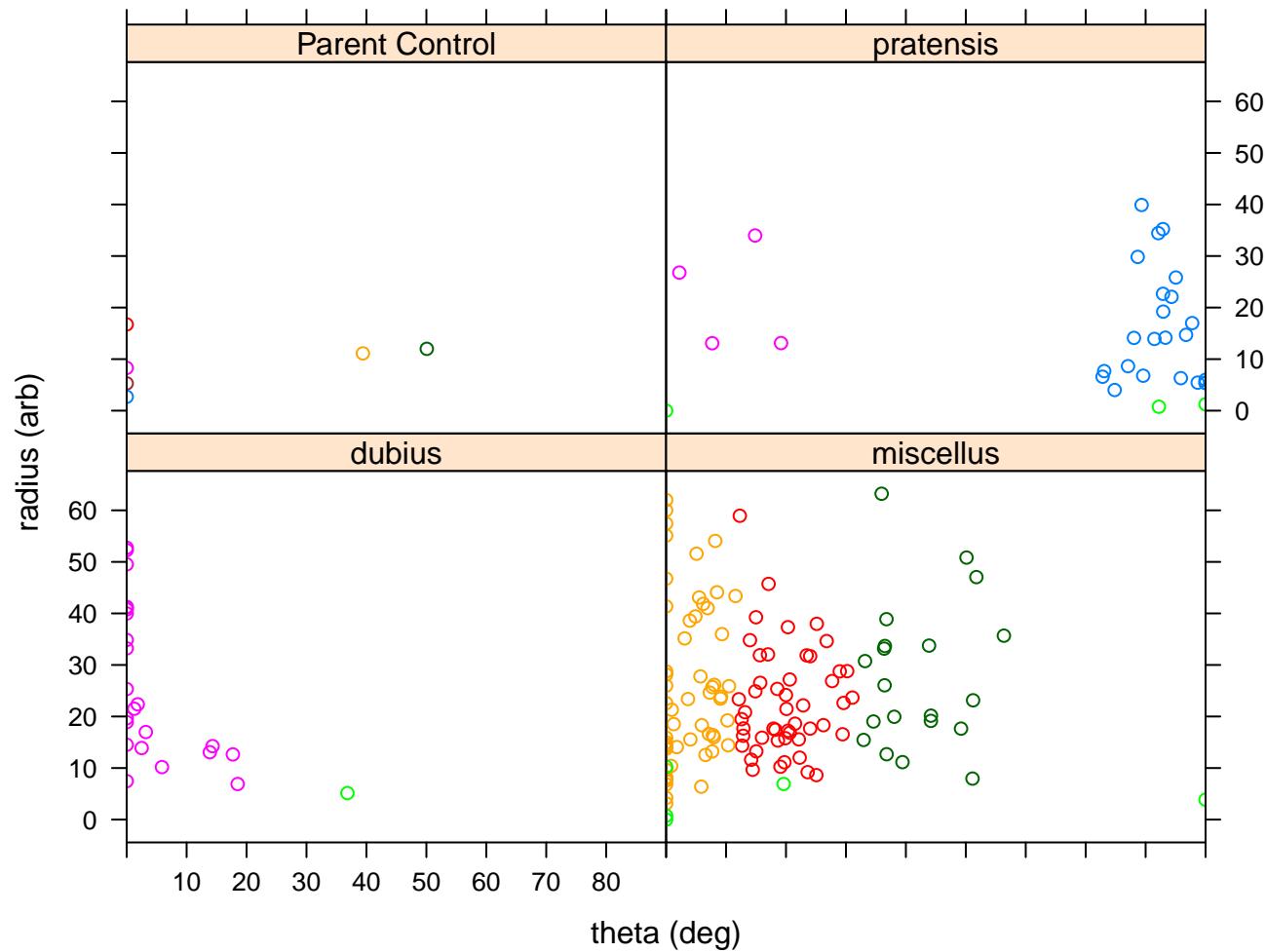


V_2_5_isotig14384_217 cDNA

Call

HH	○	PM3_1_1	○
LL	○	PM3_1_2	○
LLHH	○	PM3_2_1	○
LLLH	○	PM4	○
LLLL	○	PM5	○
No_Aleles	○	PM6	○

10 20 30 40 50 60 70 80



V_2_5_isotig14391_119 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

100
90
80
70
60
50
40
30
20
10
0

dubius

mirus

100
90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

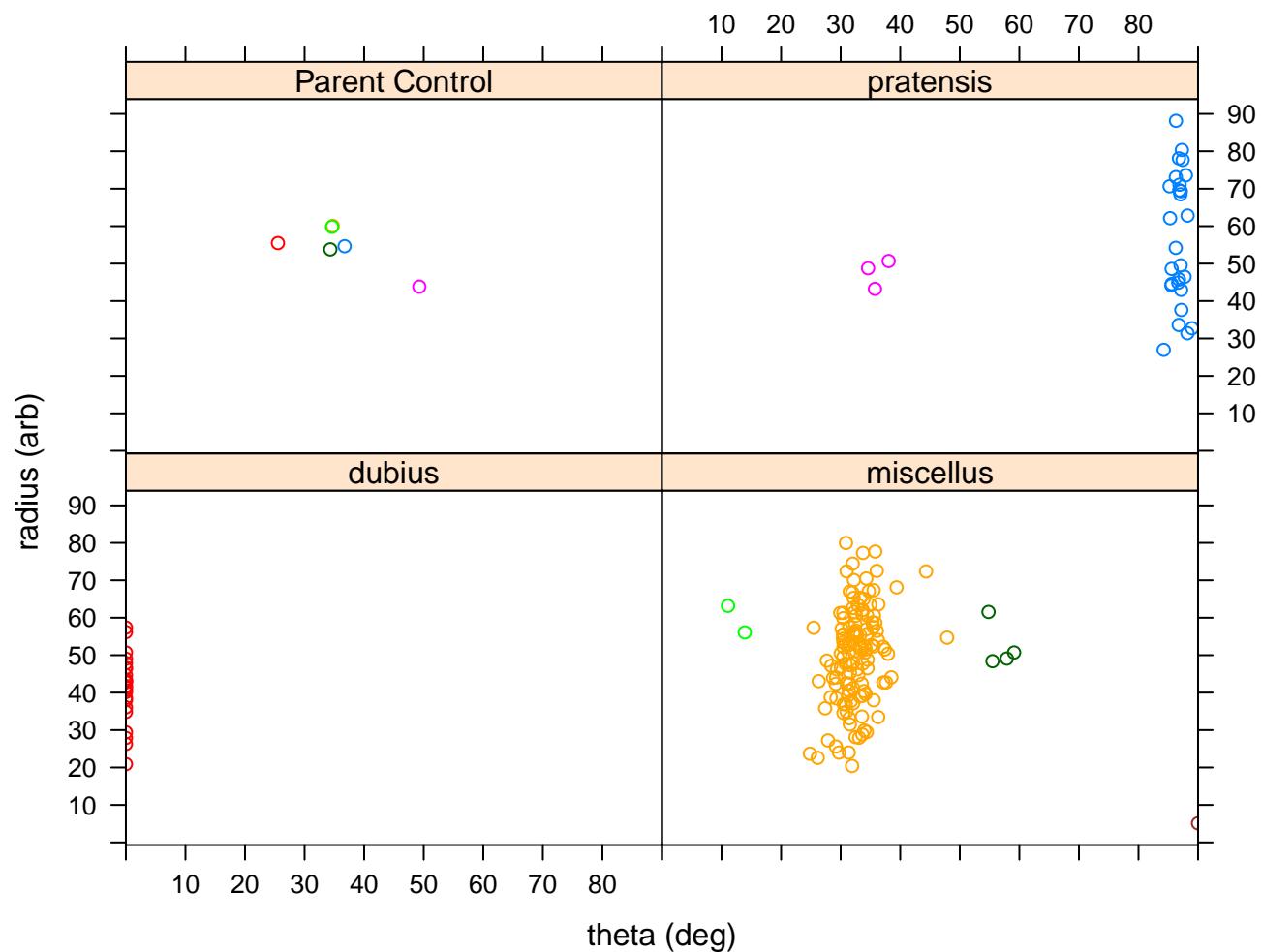
theta (deg)

radius (arb)

V_2_5_isotig14392_157 gDNA

Call

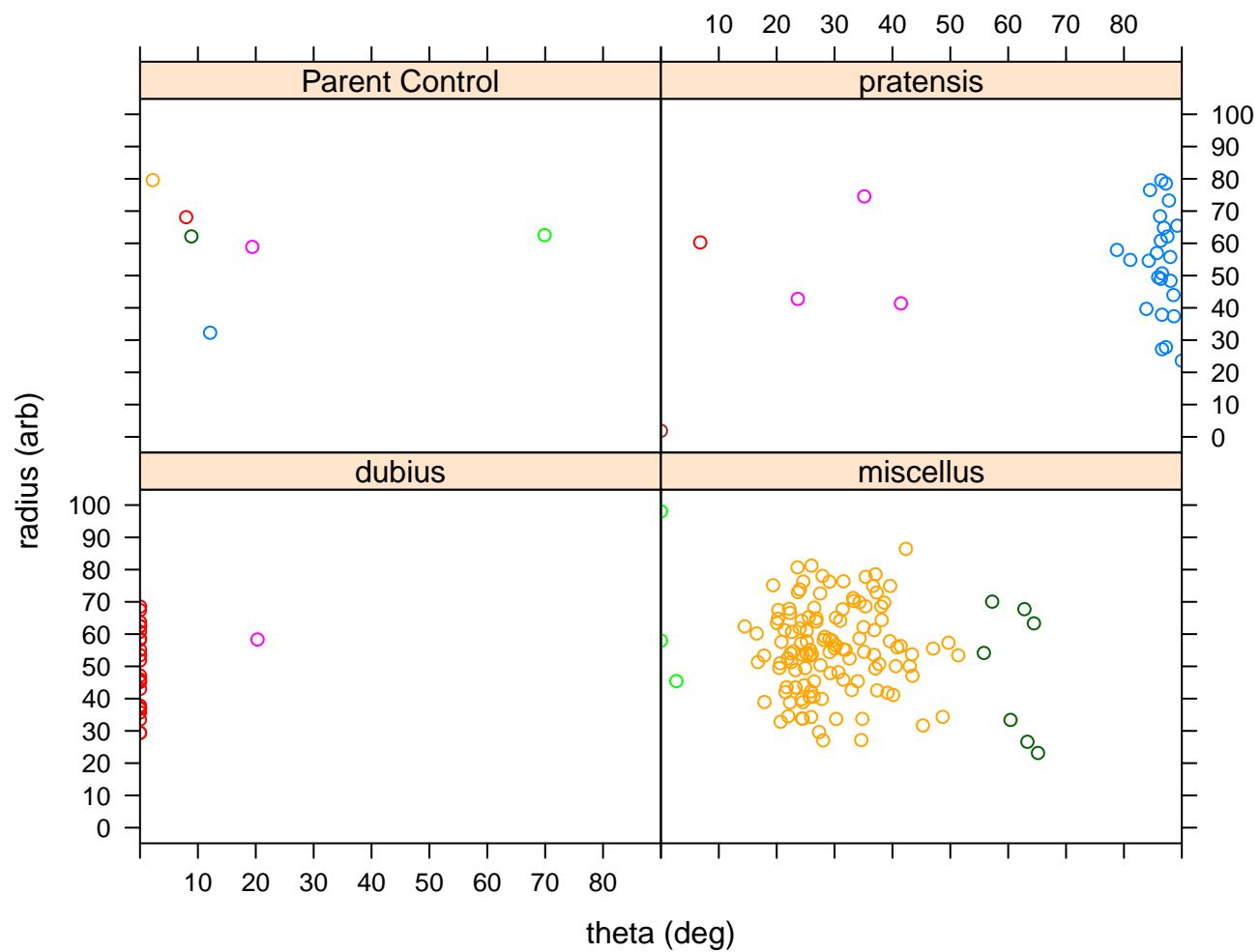
HH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
No_Alleles	○		



V_2_5_isotig14392_157 cDNA

Call

HH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○
No_Alleles	○		



V_2_5_isotig14392_431 gDNA

Call

HH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
PM3_1_1	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

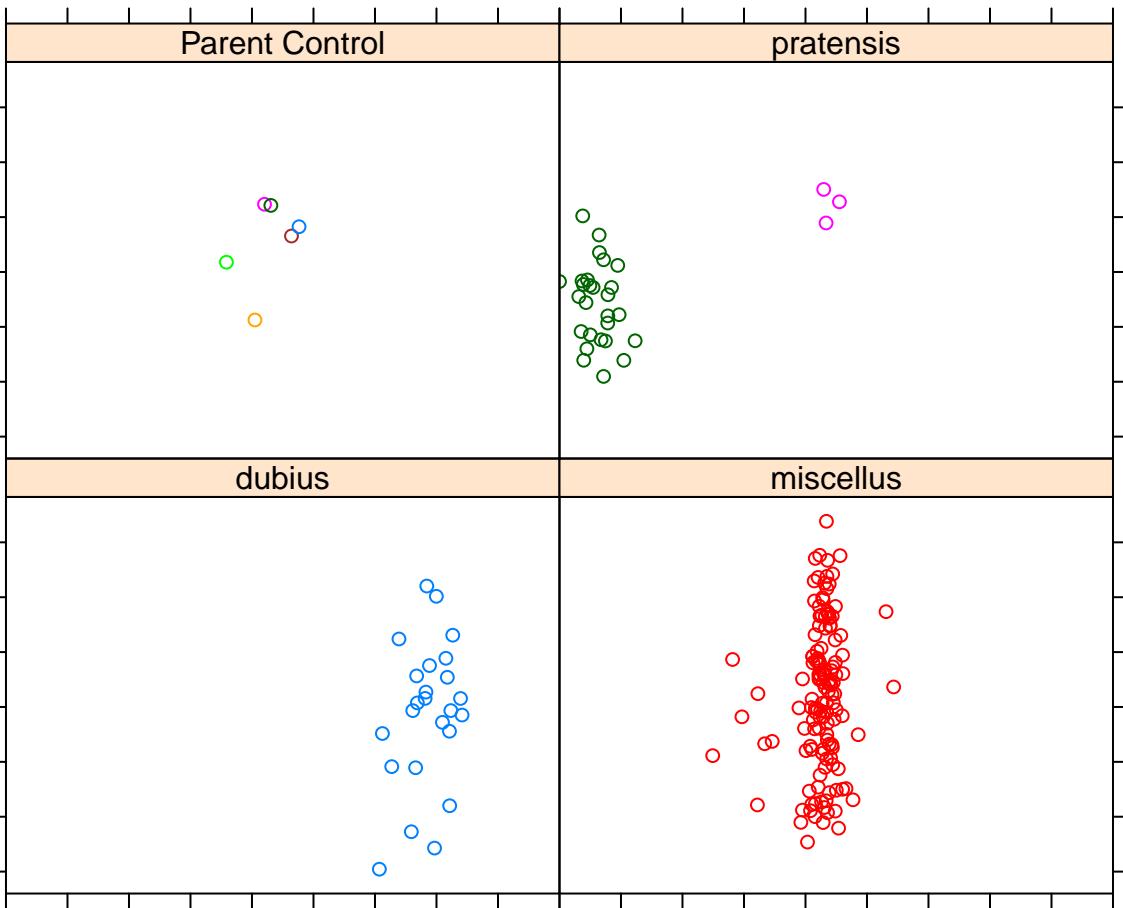
radius (arb)

dubius

miscellus

10 20 30 40 50 60 70 80

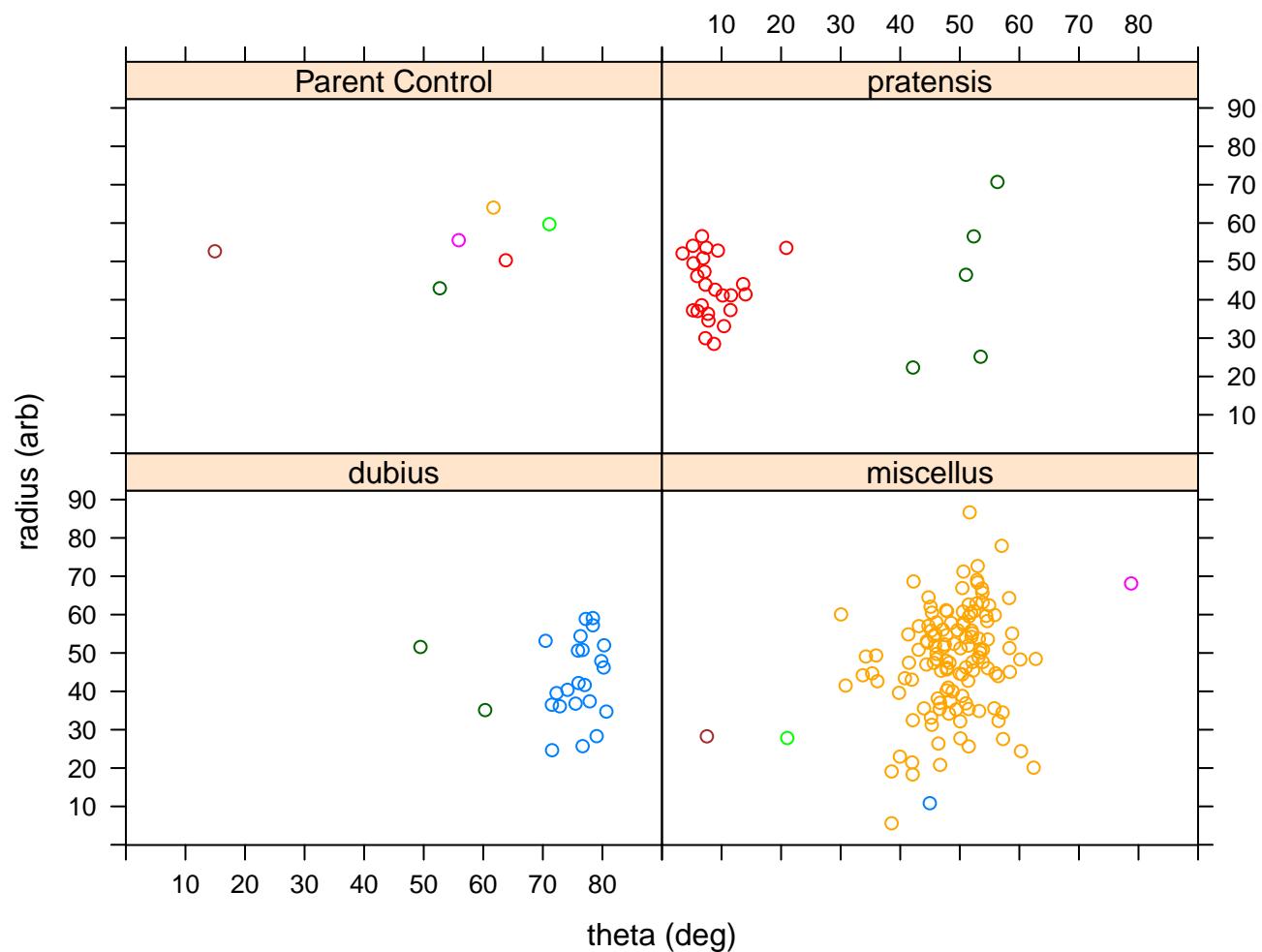
theta (deg)



V_2_5_isotig14392_431 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LL	○	PM3_2_1	○
LLHH	○	PM4	○
LLLH	○	PM5	○
LLLL	○	PM6	○



V_2_5_isotig14400_81 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

radius (arb)

60
50
40
30
20
10
0

dubius

mirus

10 20 30 40 50 60 70 80

theta (deg)

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

V_2_5_isotig14400_81 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LHHH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

70
60
50
40
30
20
10
0

dubius

mirus

radius (arb)

70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

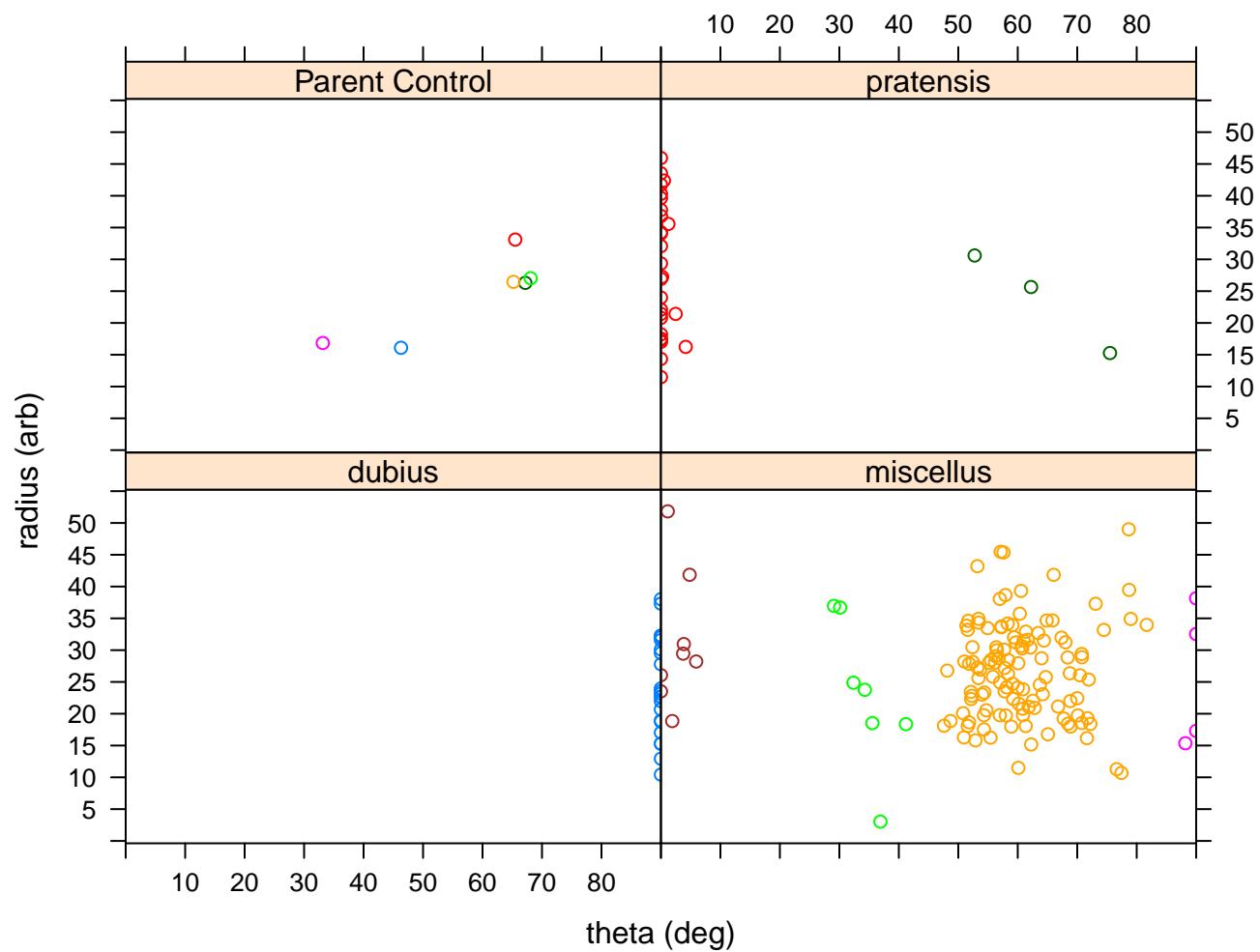
theta (deg)

70
60
50
40
30
20
10
0

V_2_5_isotig14409_465 gDNA

Call

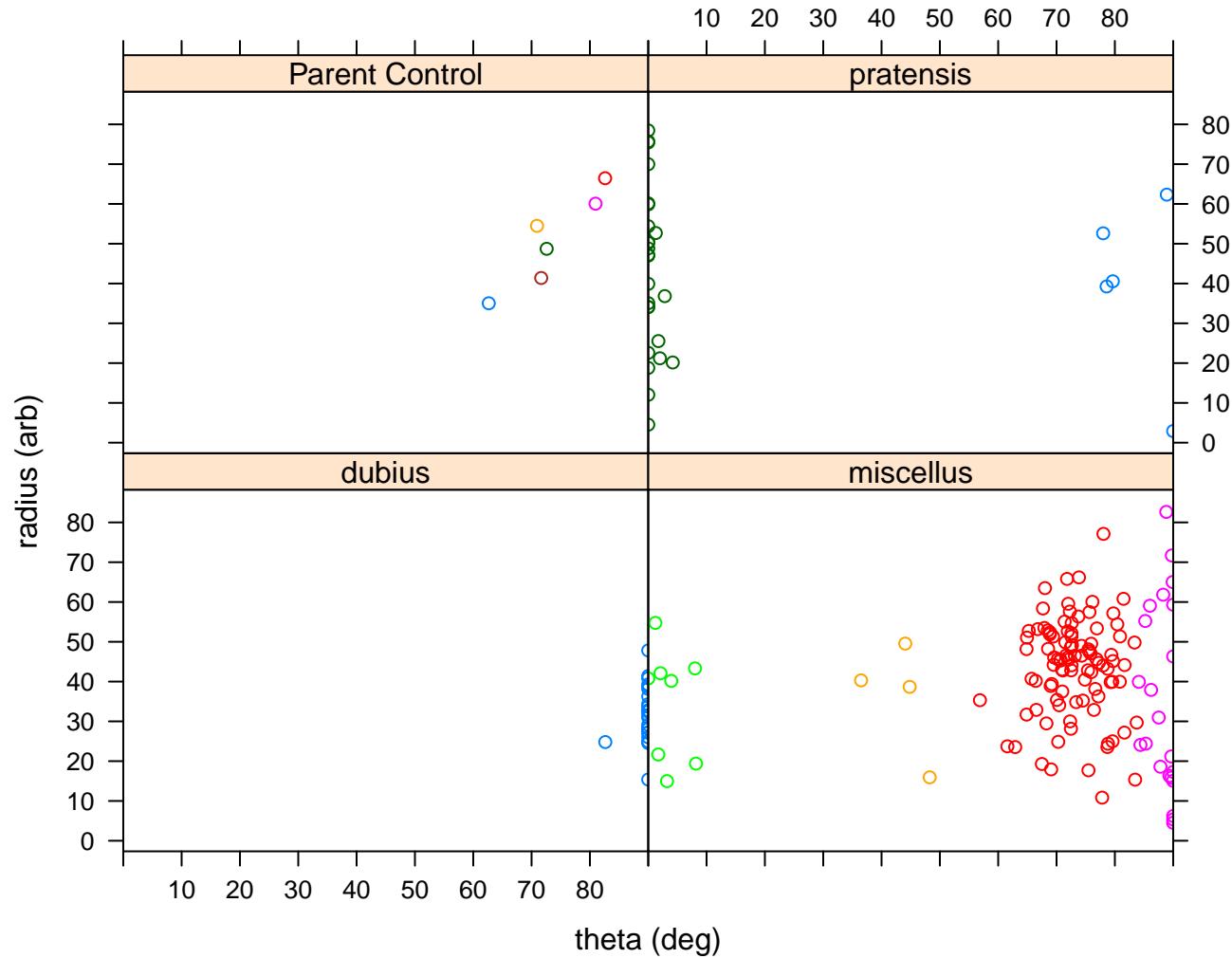
HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		



V_2_5_isotig14409_465 cDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LL	○	PM3_2_1	○
LLHH	○	PM4	○
LLLH	○	PM5	○
LLLL	○	PM6	○



V_2_5_isotig14430_311 gDNA

Call

HH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
PM3_1_1	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

50
45
40
35
30
25
20
15
10
5

dubius

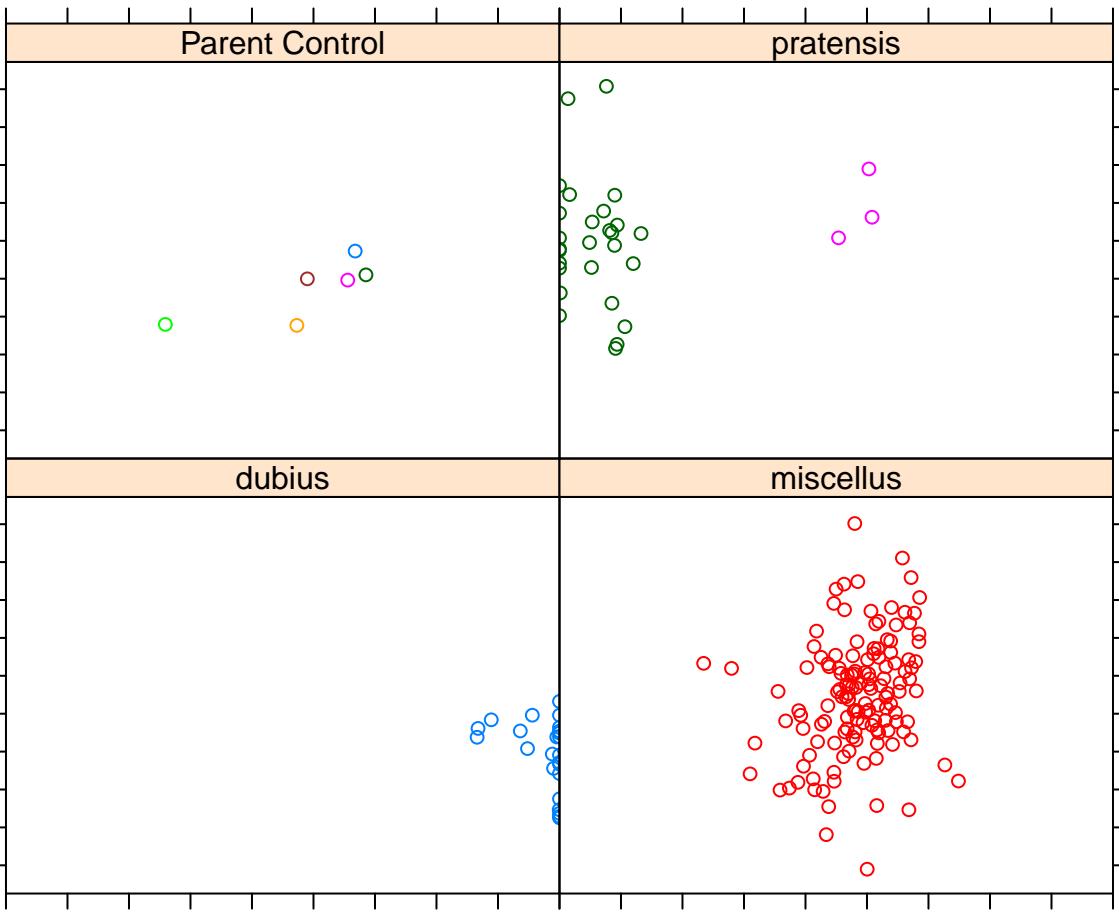
miscellus

55
50
45
40
35
30
25
20
15
10
5

radius (arb)

10 20 30 40 50 60 70 80

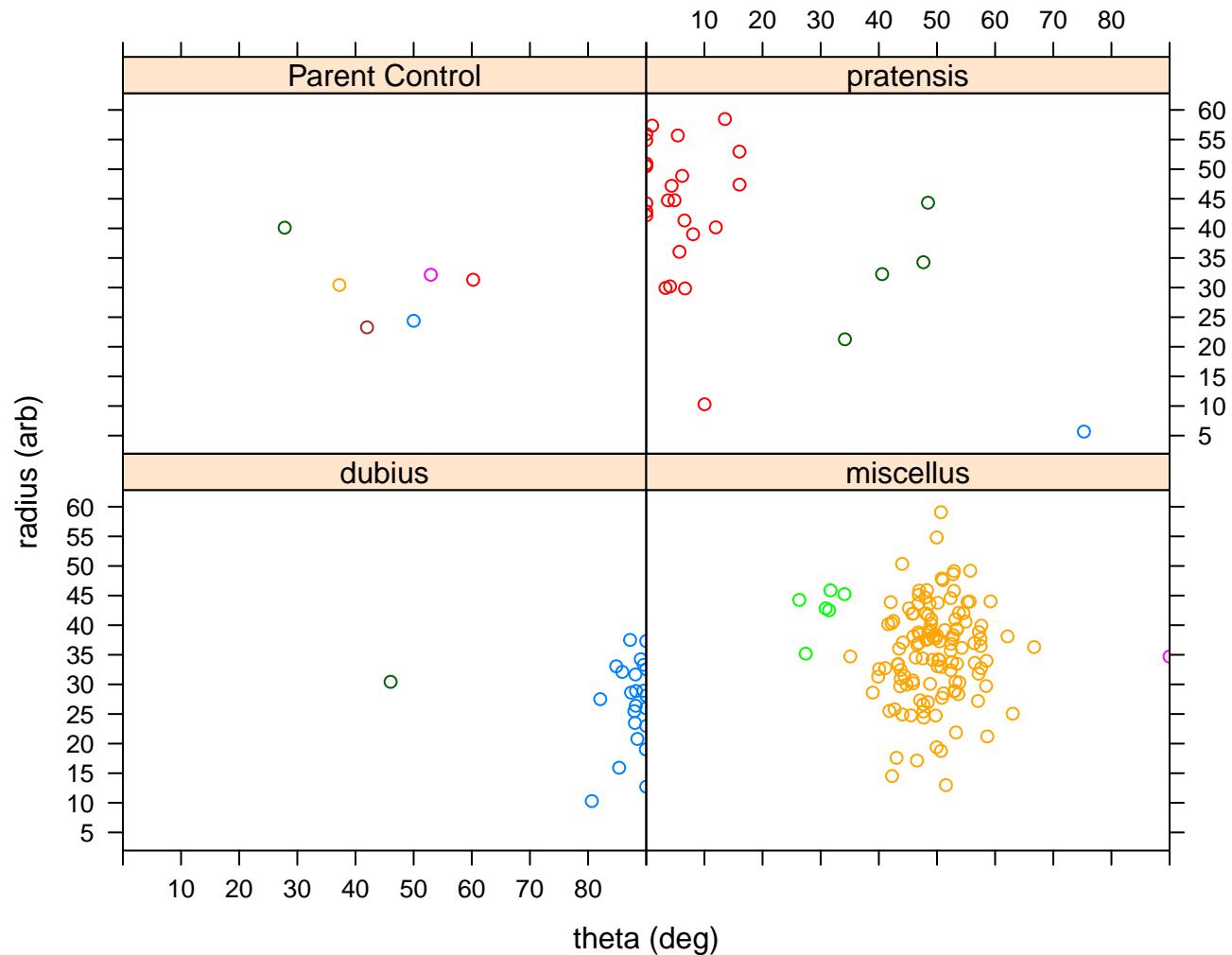
theta (deg)



V_2_5_isotig14430_311 cDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○



V_2_5_isotig14453_151 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

radius (arb)

110
100
90
80
70
60
50
40
30
20
10

dubius

miscellus

110
100
90
80
70
60
50
40
30
20
10

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig14453_151 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

120
110
100
90
80
70
60
50
40
30
20
10
0

dubius

miscellus

radius (arb)

120
110
100
90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig14453_273 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

65
60
55
50
45
40
35
30
25
20
15
10
5

radius (arb)

dubius

miscellus

65
60
55
50
45
40
35
30
25
20
15
10
5

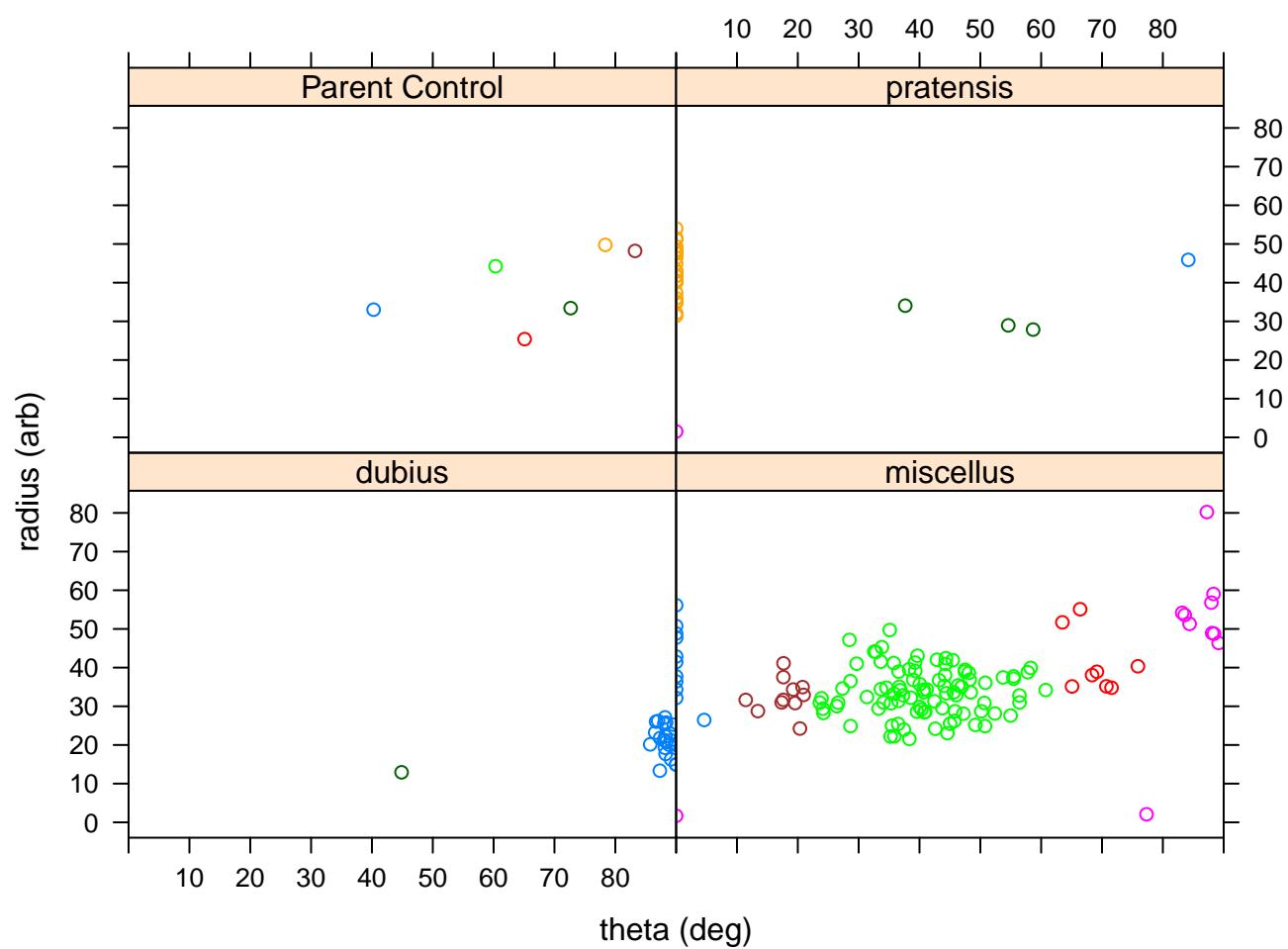
10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig14453_273 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		



V_2_5_isotig14453_492 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

radius (arb)

90
80
70
60
50
40
30
20
10

dubius

miscellus

90
80
70
60
50
40
30
20
10

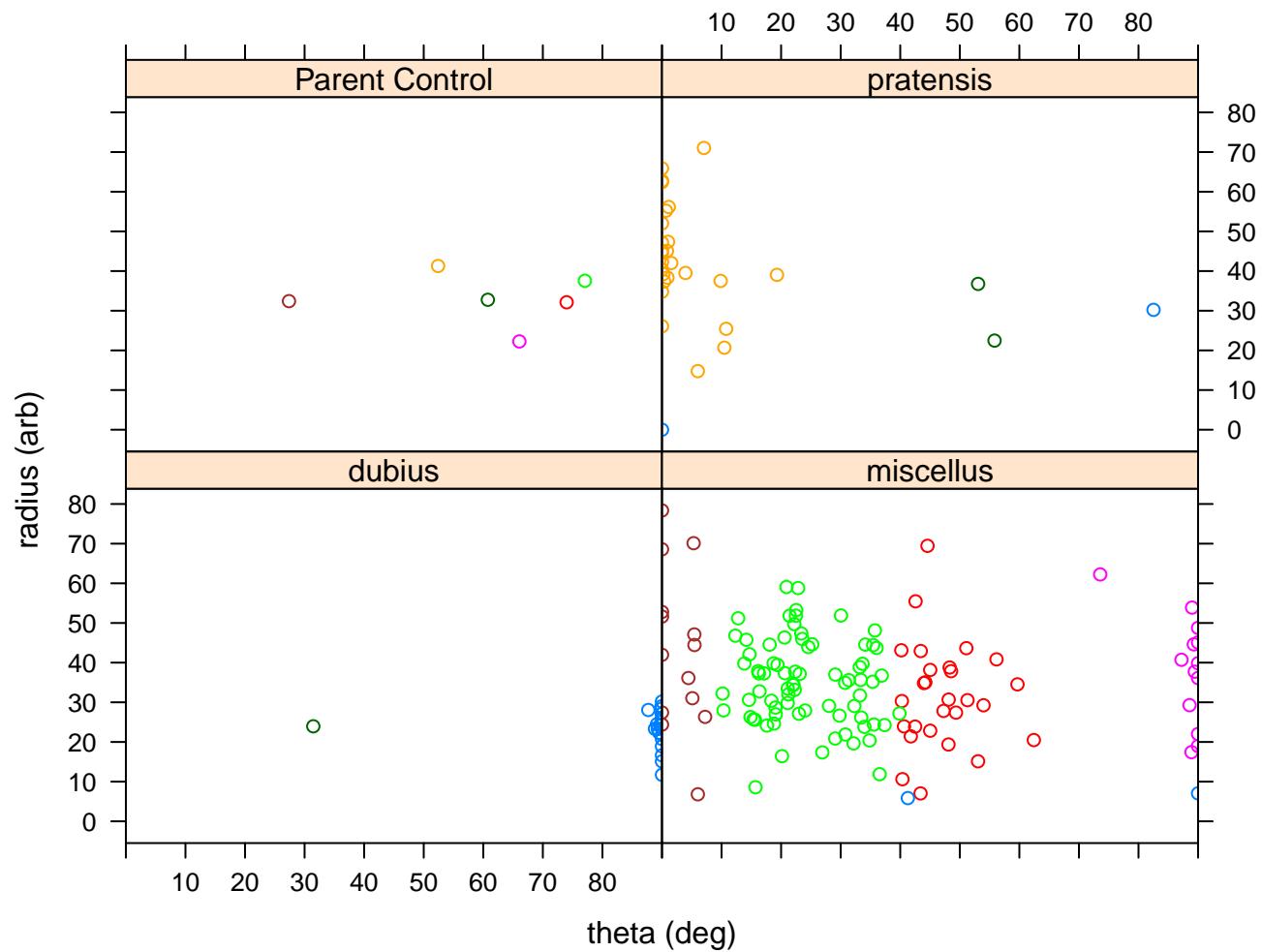
10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig14453_492 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○



V_2_5_isotig14468_247 gDNA

Call

HH	○	PM1	○
HHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

porrifolius

100
90
80
70
60
50
40
30
20
10

radius (arb)

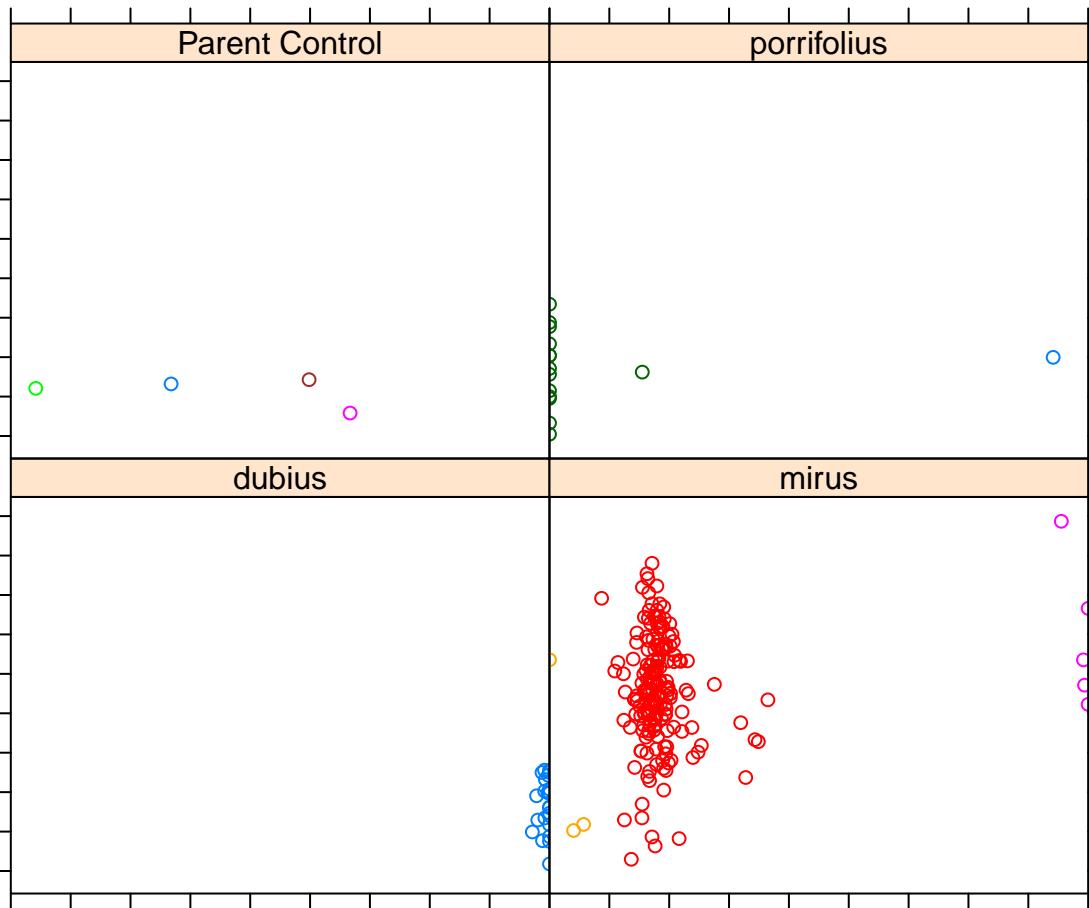
dubius

mirus

100
90
80
70
60
50
40
30
20
10

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig14468_247 cDNA

Call

HH	○	LLLL	○
HHHH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

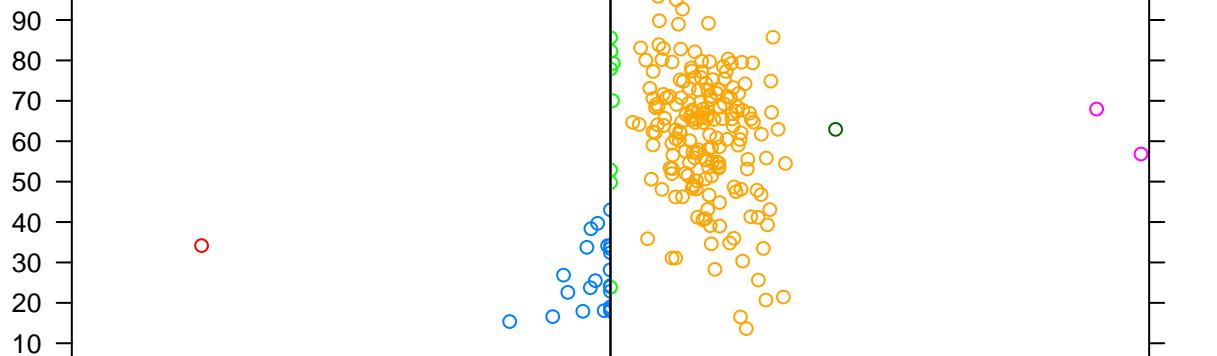
porrifolius

90
80
70
60
50
40
30
20
10

radius (arb)

dubius

mirus



theta (deg)

V_2_5_isotig14468_362 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

60
50
40
30
20
10
0

dubius

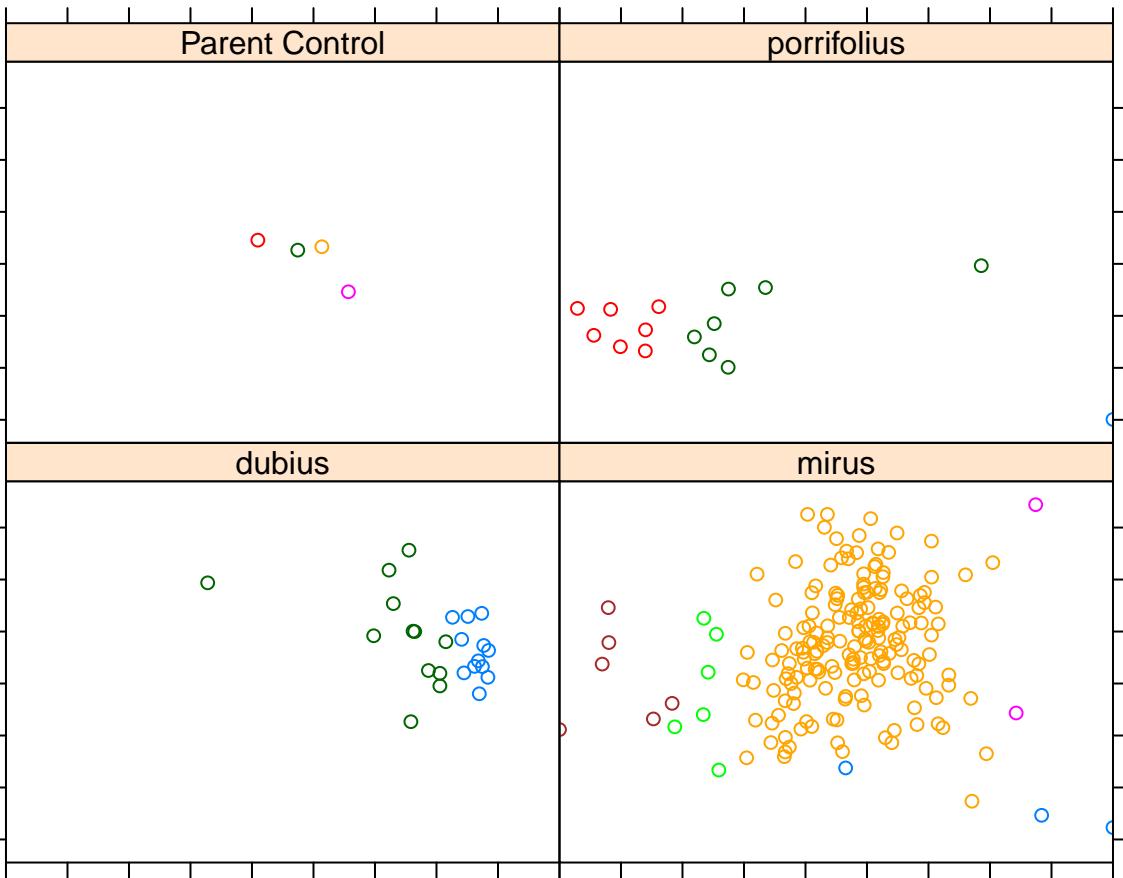
mirus

radius (arb)

60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig14476_427 gDNA

Call

Bad_Spectrum	LLLL	○
HH	No_Alleles	○
HHHH	PM1	○
LH	PM2_1_1	○
LL	PM2_1_2	○
LLHH	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

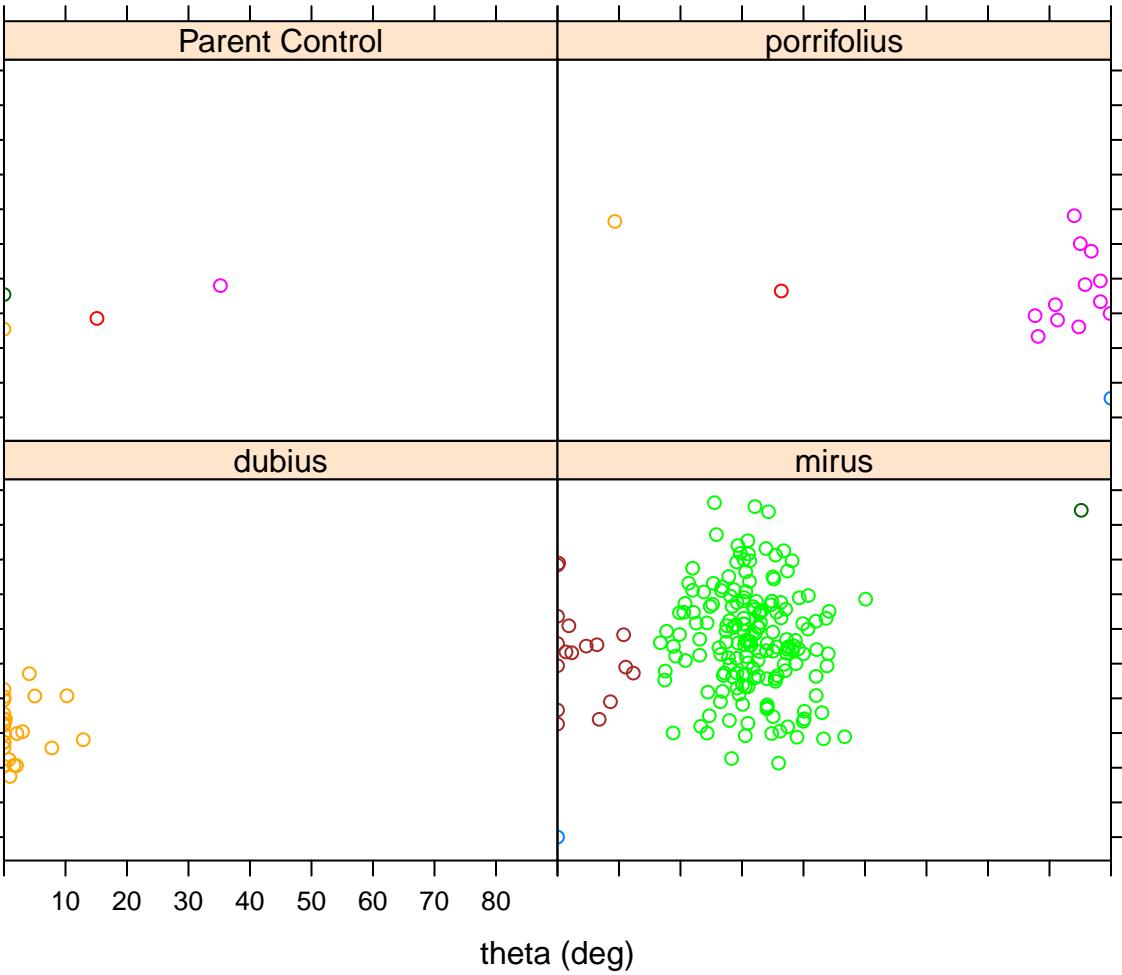
porrifolius

50
45
40
35
30
25
20
15
10
5
0

dubius

mirus

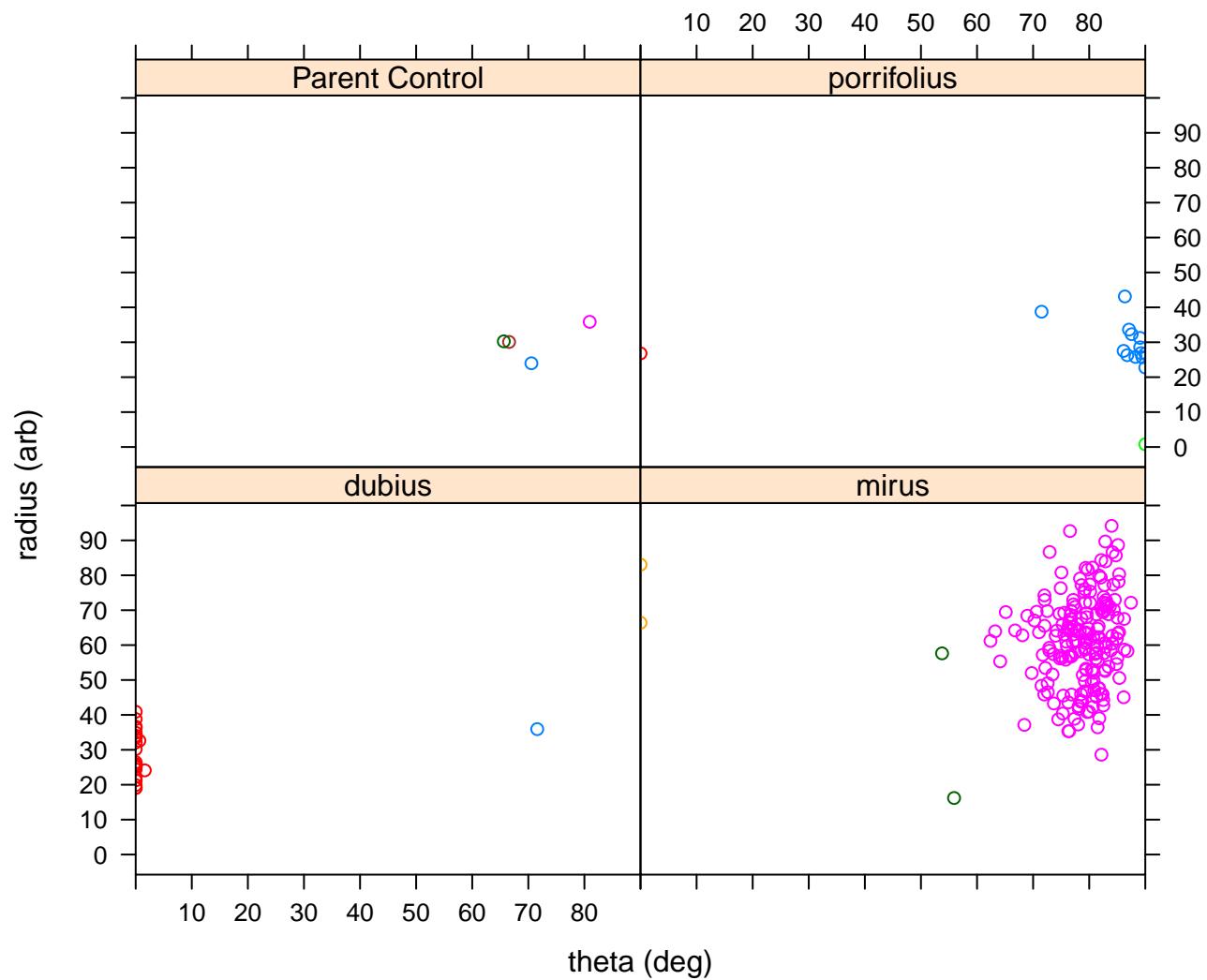
radius (arb)



V_2_5_isotig14476_427 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLLL	○	PM2_2_1	○



V_2_5_isotig14496_375 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

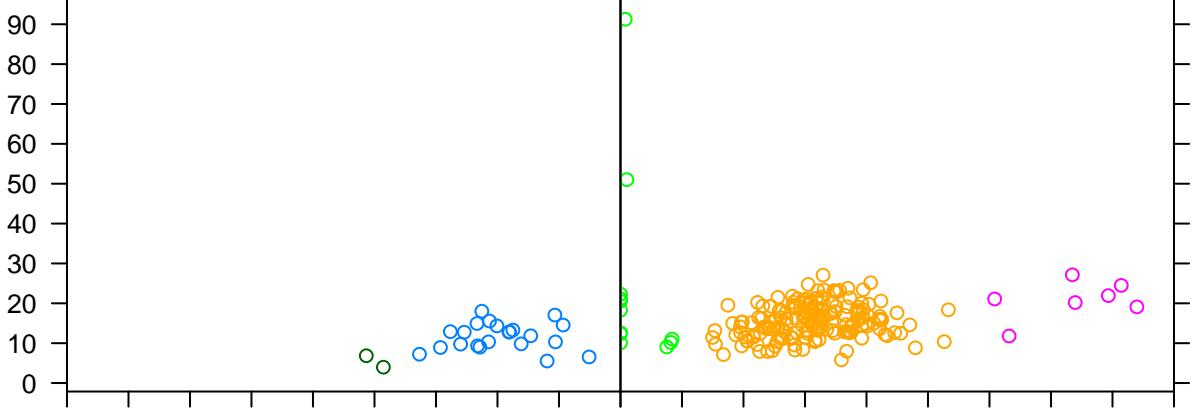
porrifolius

radius (arb)

90
80
70
60
50
40
30
20
10
0

dubius

mirus

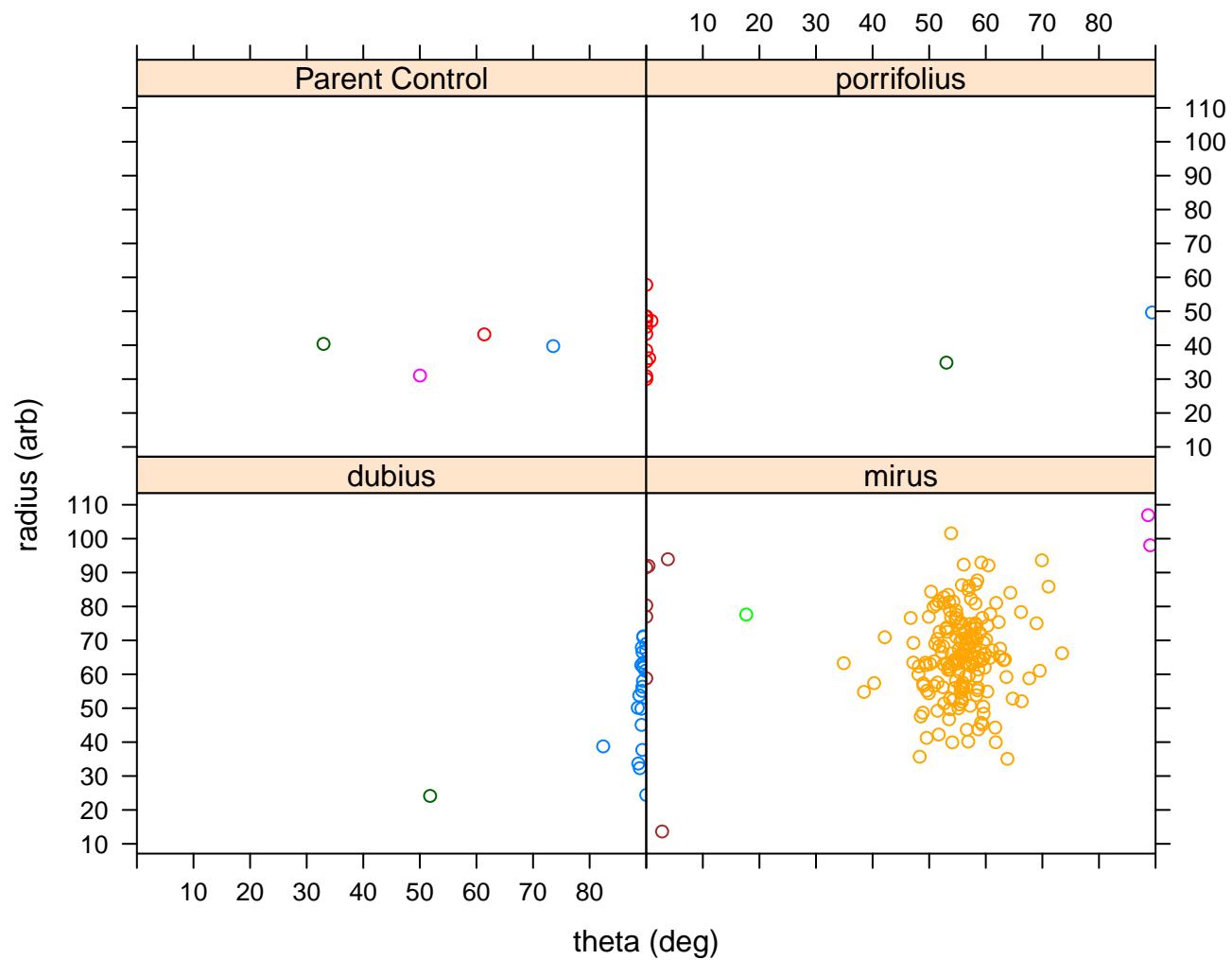


theta (deg)

V_2_5_isotig14496_375 cDNA

Call

HH	○	LLLL	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		

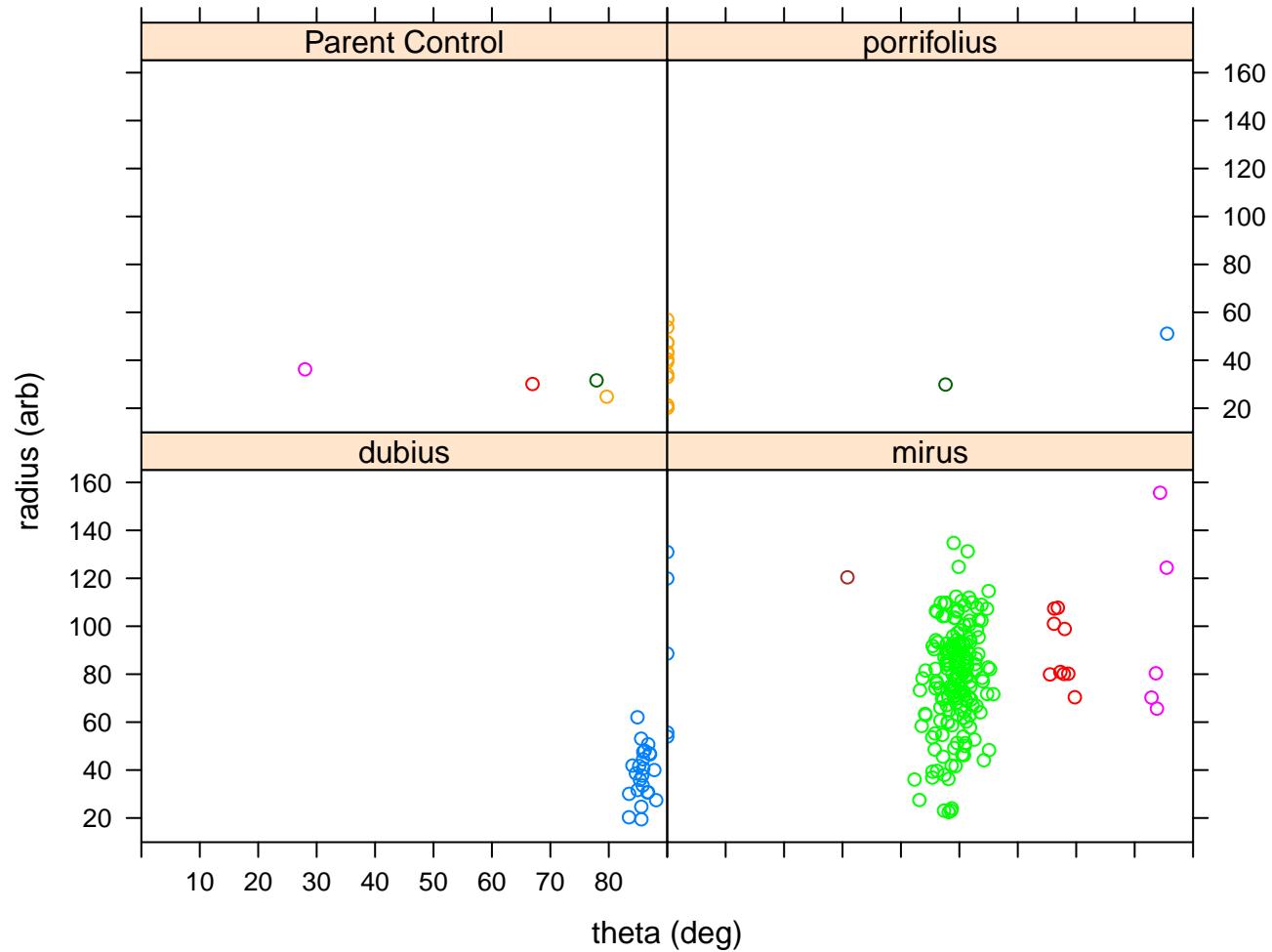


V_2_5_isotig14496_510 gDNA

Call

HH	○	LLLH	○
HHHH	○	LLLL	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

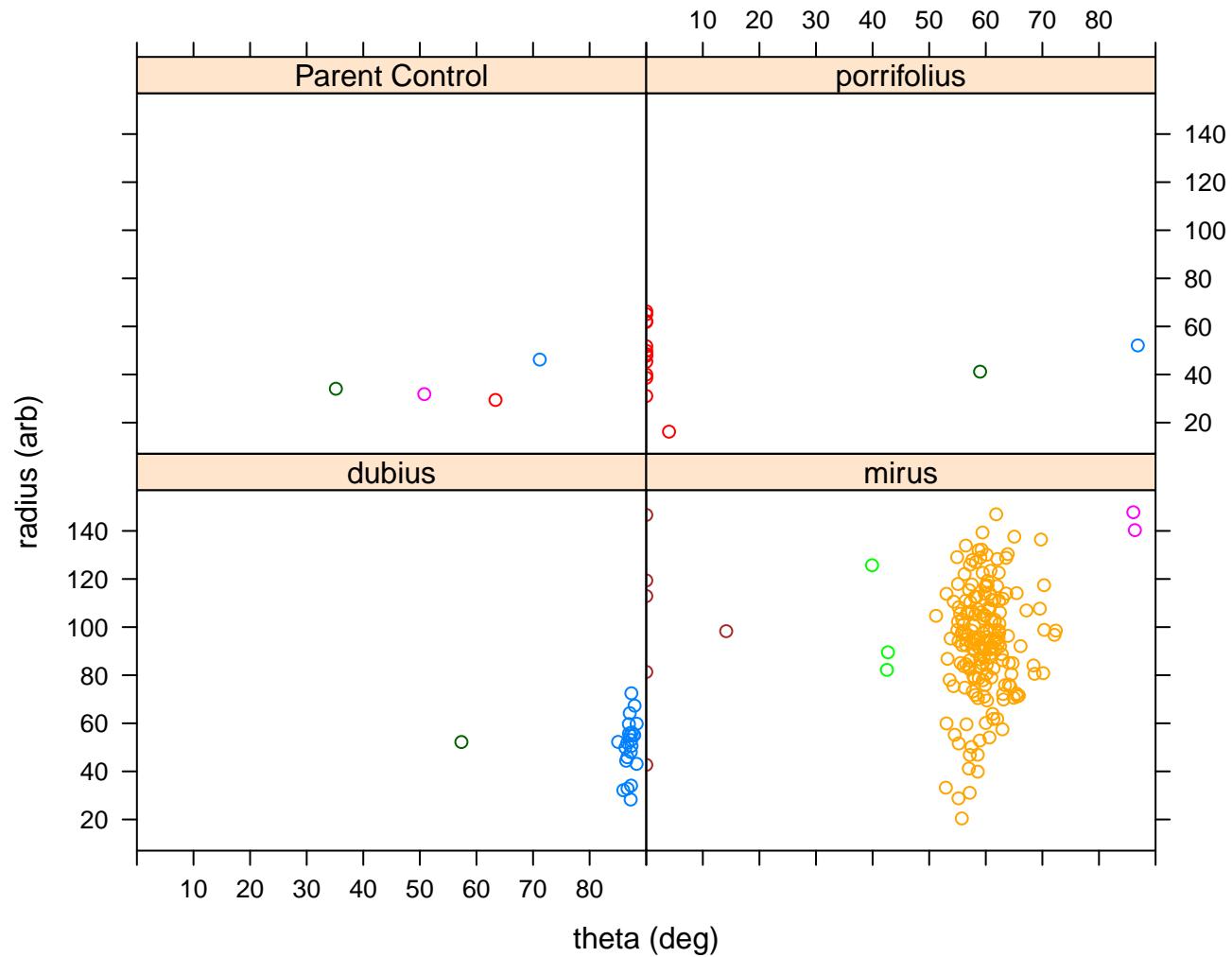
10 20 30 40 50 60 70 80



V_2_5_isotig14496_510 cDNA

Call

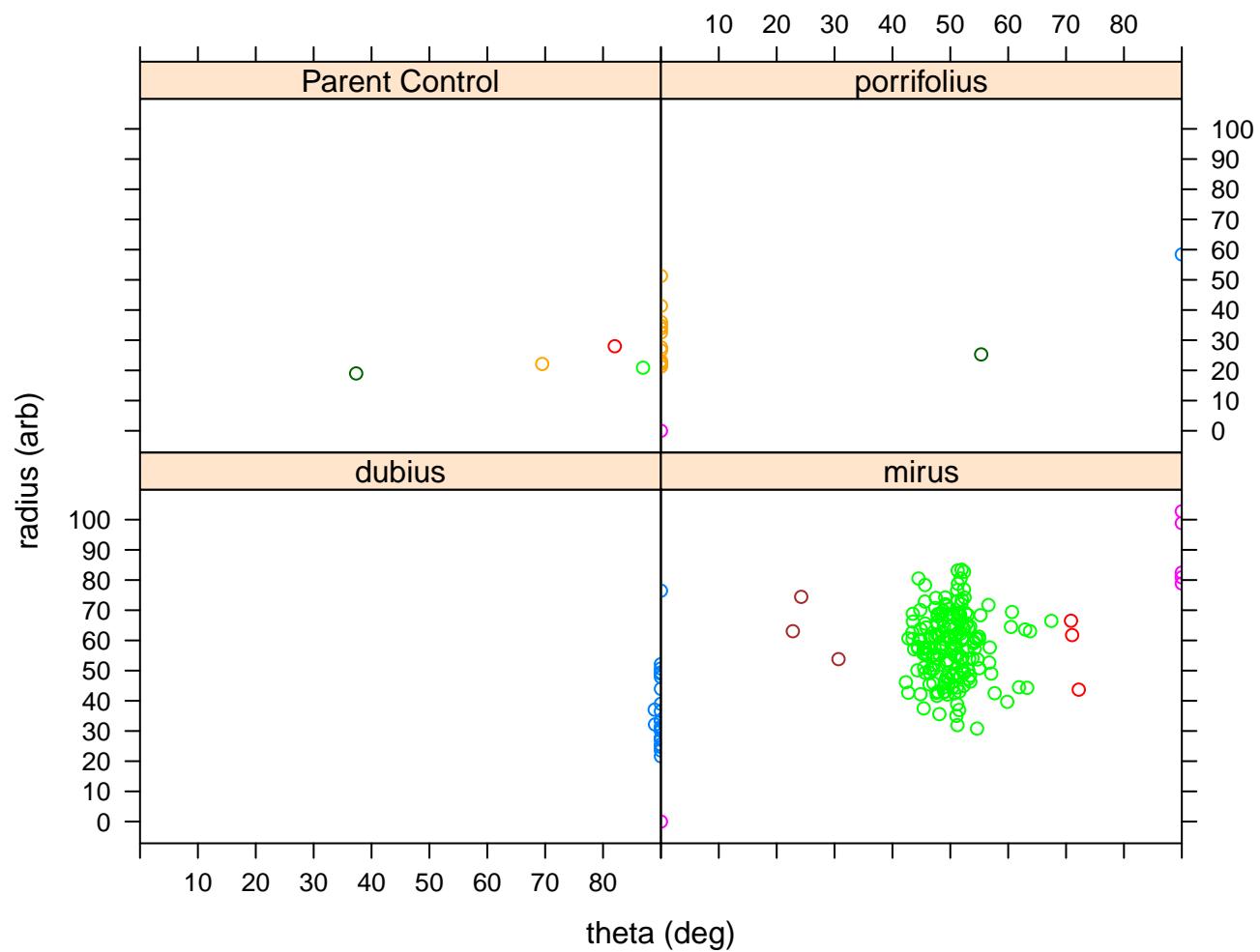
HH	○	LLLL	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig14521_33 gDNA

Call

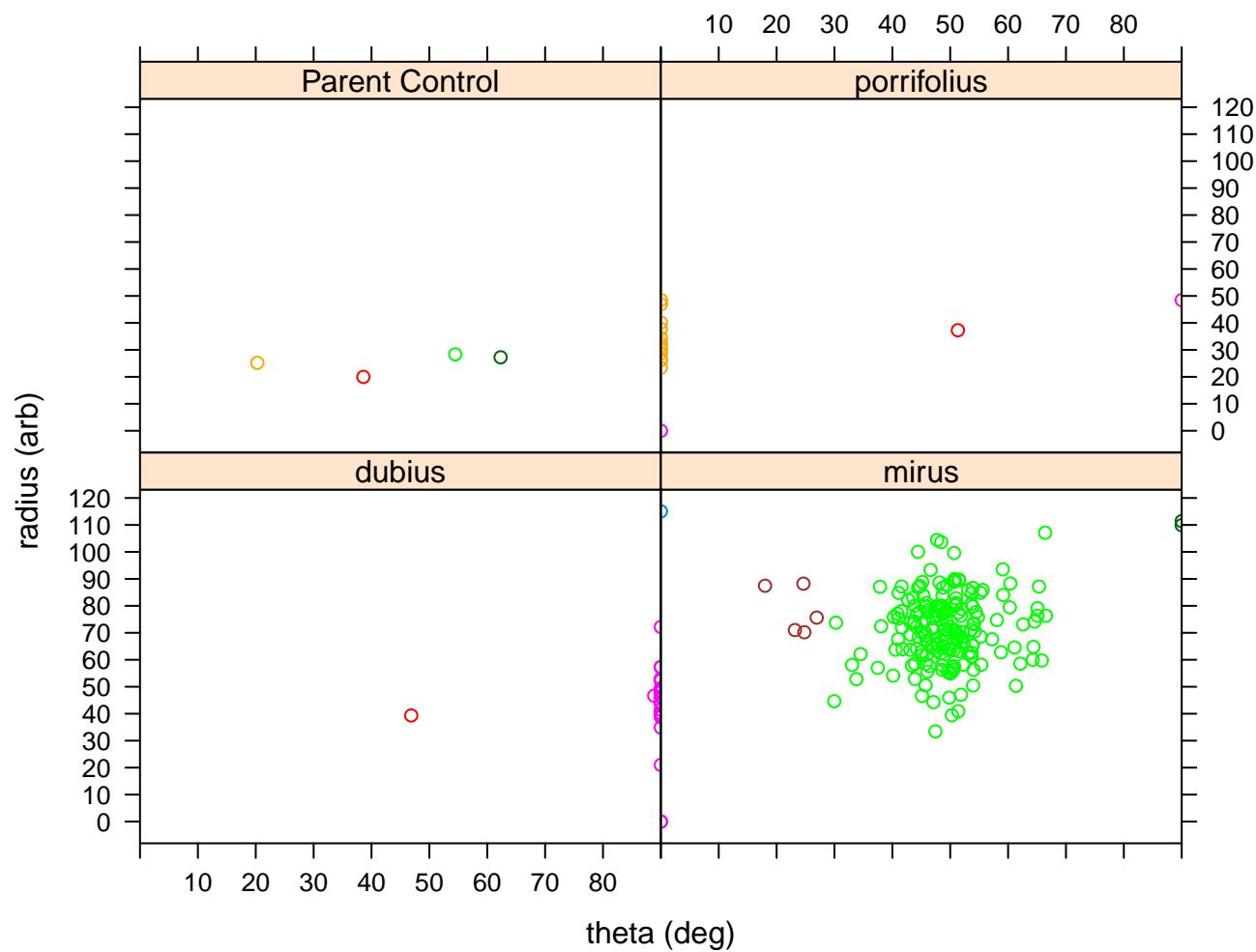
HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig14521_33 cDNA

Call

Bad_Spectrum	○	LLLL	○
HH	○	No_Alleles	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig14551_347 cDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

radius (arb)

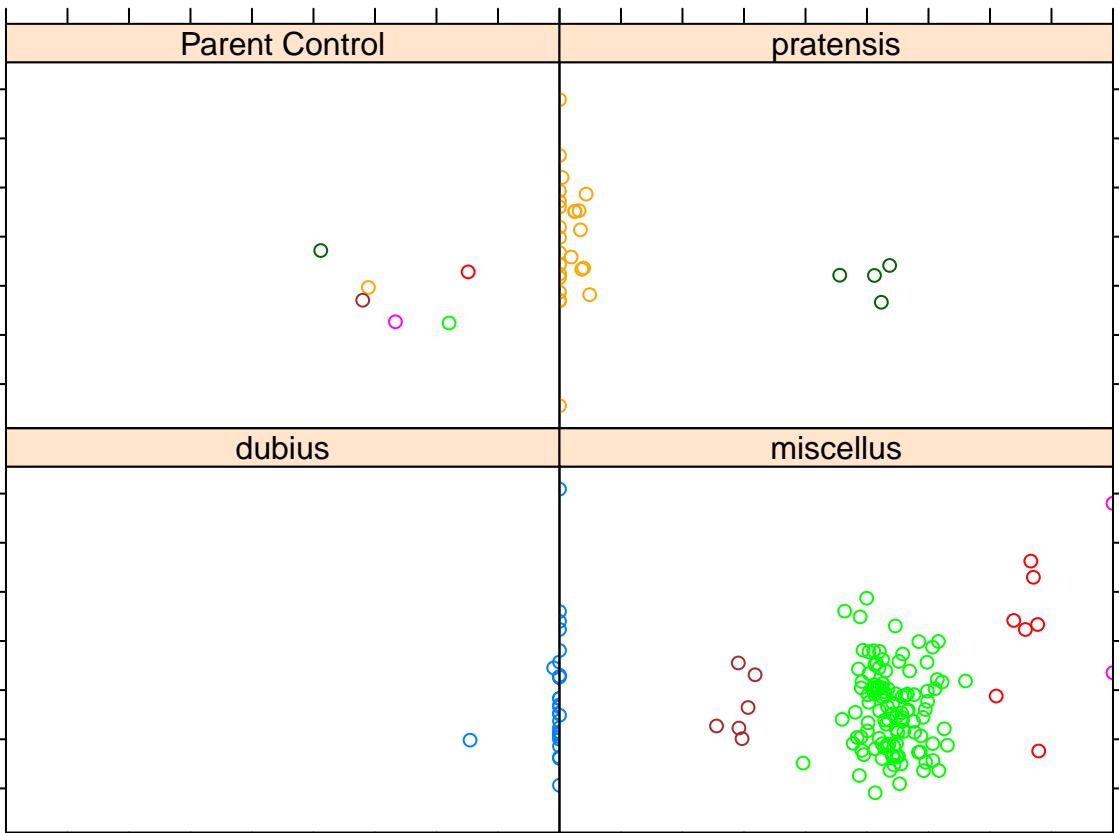
80
70
60
50
40
30
20

dubius

miscellus

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig14558_452 gDNA

Call

HH	○	PM1	○
HHHH	○	PM2_1_1	○
LH	○	PM2_1_2	○
LL	○	PM2_2_1	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

porrifolius

140
120
100
80
60
40
20
0

radius (arb)

dubius

mirus

140
120
100
80
60
40
20
0

10 20 30 40 50 60 70 80

theta (deg)

10 20 30 40 50 60 70 80

Parent Control

porrifolius

140
120
100
80
60
40
20
0

dubius

mirus

140
120
100
80
60
40
20
0

V_2_5_isotig14558_452 cDNA

Call

HH	○	LLLL	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

160
140
120
100
80
60
40
20

radius (arb)

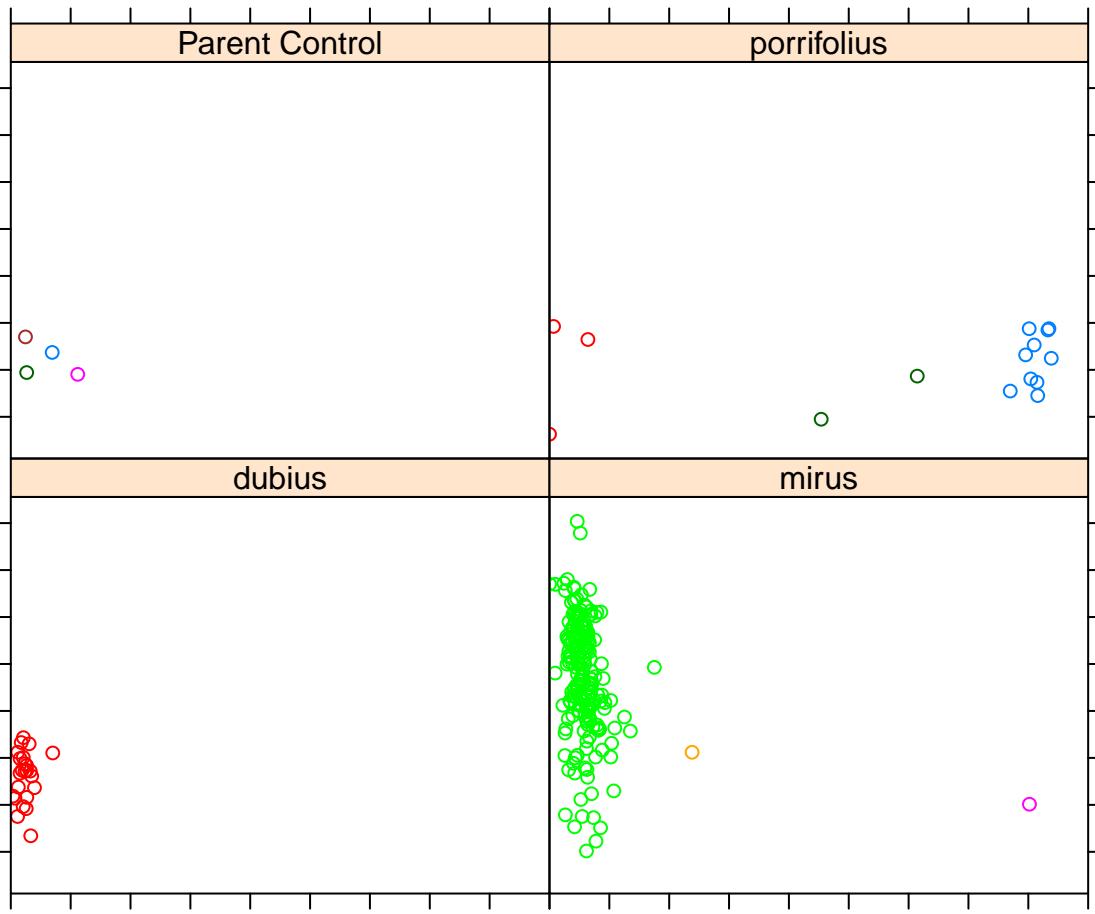
dubius

mirus

160
140
120
100
80
60
40
20

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig14560_355 gDNA

Call

Bad_Spectrum	○	LLLL	○
HH	○	No_Alleles	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LHHH	○	PM2_1_2	○
LL	○	PM2_2_1	○
LLHH	○		

10 20 30 40 50 60 70 80

Parent Control

porrifolius

80
70
60
50
40
30
20
10
0

radius (arb)

dubius

mirus

80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig14560_355 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

90
80
70
60
50
40
30
20
10
0

dubius

mirus

90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

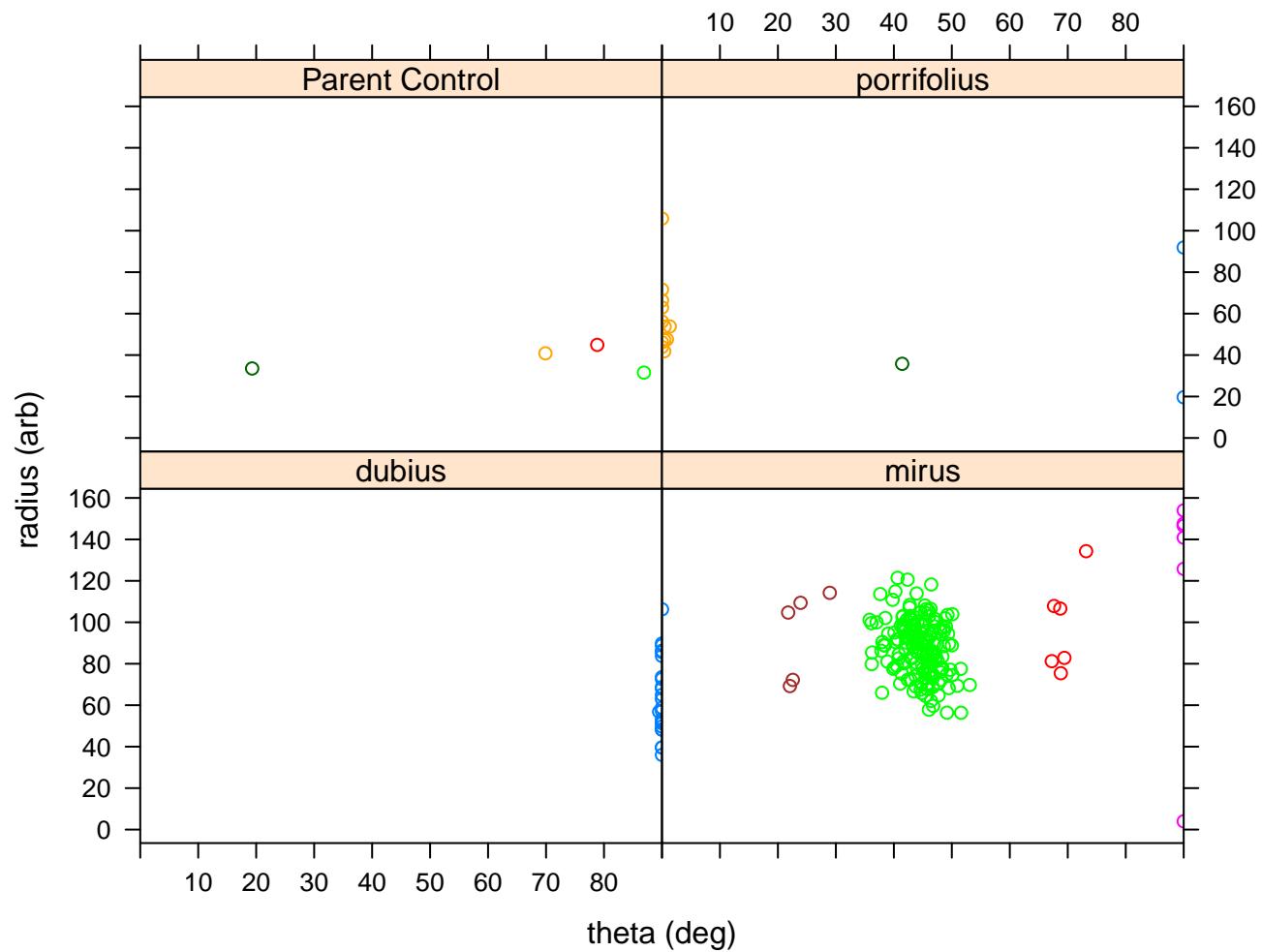
theta (deg)

radius (arb)

V_2_5_isotig14560_451 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig14560_451 cDNA

Call

Bad_Spectrum	○	LLLL	○
HH	○	No_Alleles	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LHHH	○	PM2_1_2	○
LL	○	PM2_2_1	○
LLHH	○		

10 20 30 40 50 60 70 80

Parent Control

porrifolius

radius (arb)

160
140
120
100
80
60
40
20
0

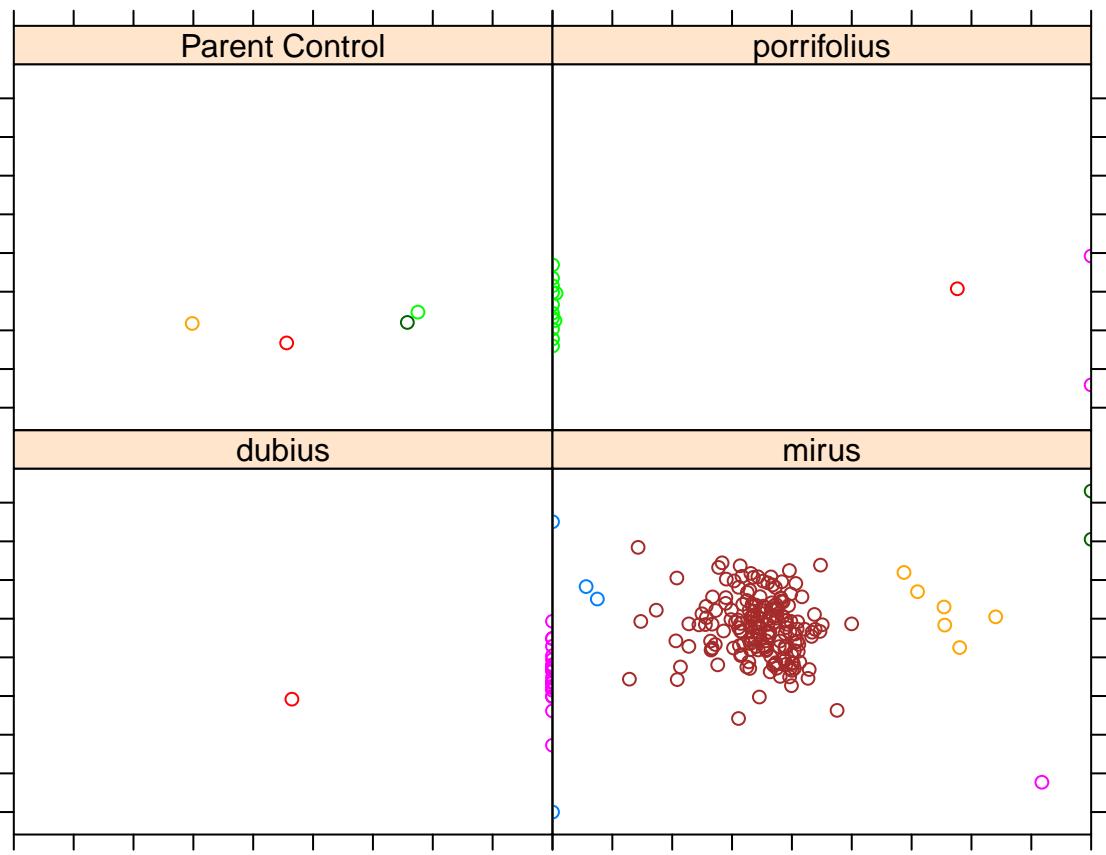
dubius

mirus

160
140
120
100
80
60
40
20
0

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig14563_559 gDNA

Call

HH	○	LLLH	○
HHHH	○	LLLL	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

70
60
50
40
30
20
10

dubius

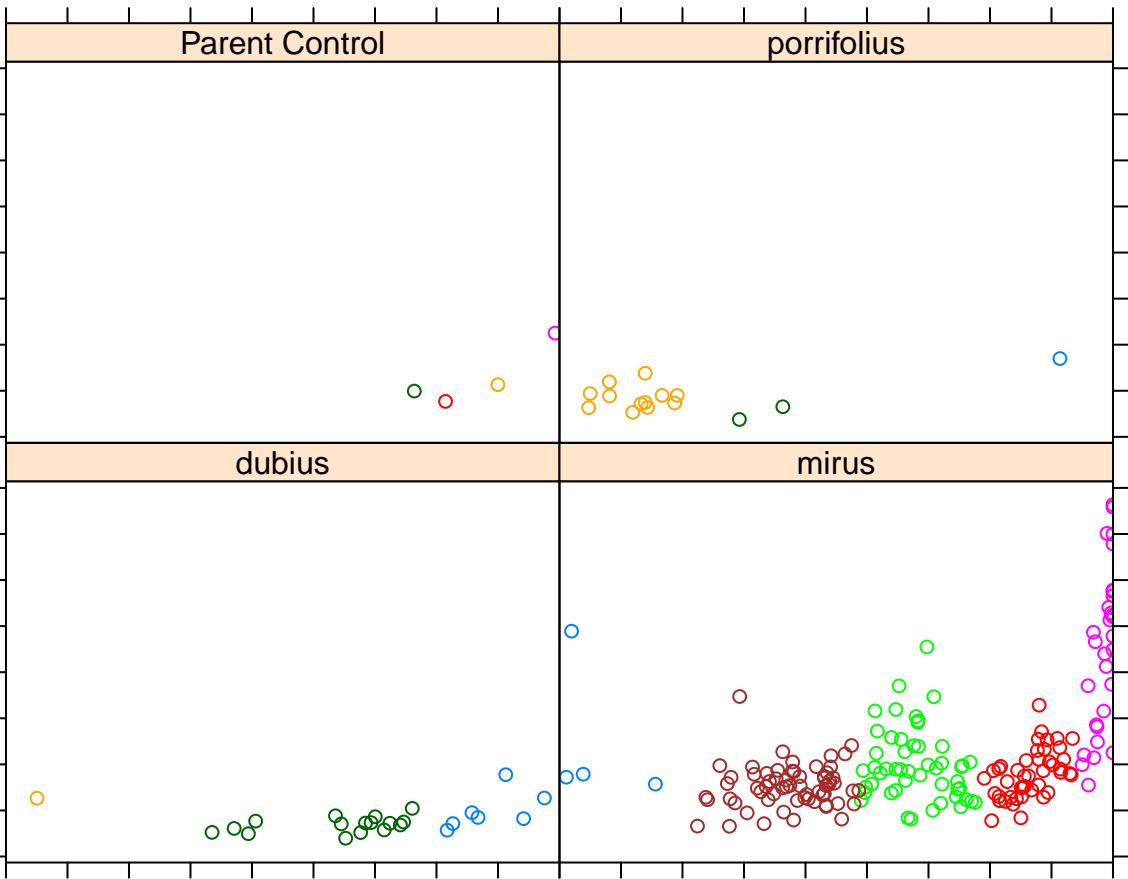
mirus

radius (arb)

70
60
50
40
30
20
10

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig14615_401 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

110
100
90
80
70
60
50
40
30
20
10
0

radius (arb)

dubius

miscellus

110
100
90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig14615_401 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

140
120
100
80
60
40
20
0

dubius

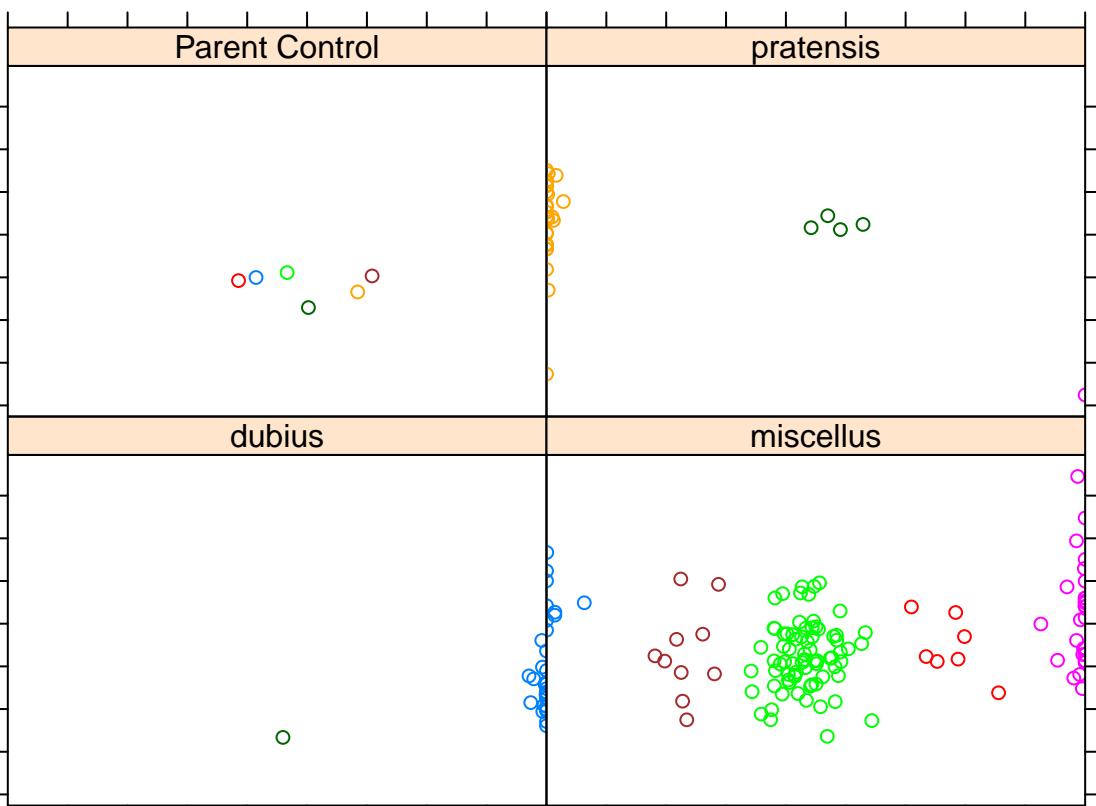
miscellus

radius (arb)

140
120
100
80
60
40
20
0

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig14621_467 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LHHH	○	PM2_1_2	○
LL	○	PM2_2_1	○
LLHH	○		

10 20 30 40 50 60 70 80

Parent Control

porrifolius

radius (arb)

80
70
60
50
40
30
20
10

dubius

mirus

80

70

60

50

40

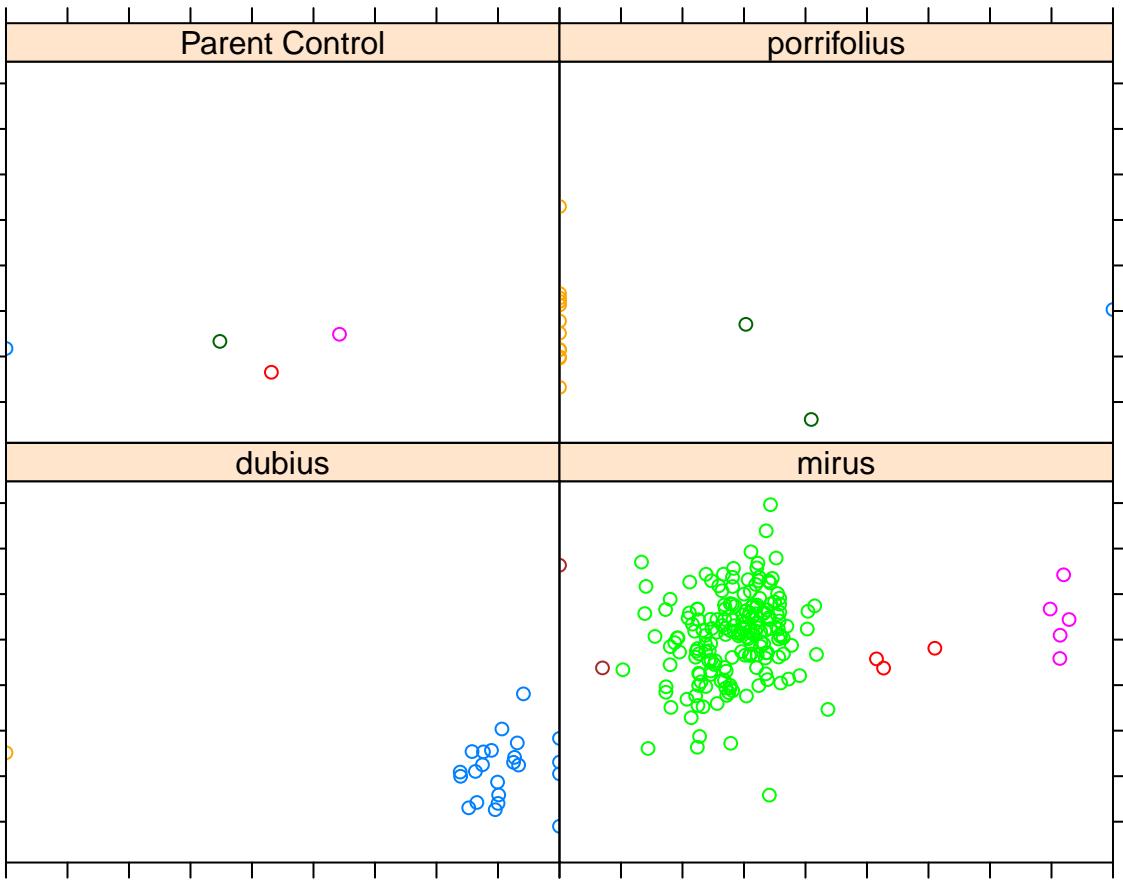
30

20

10

10 20 30 40 50 60 70 80

theta (deg)

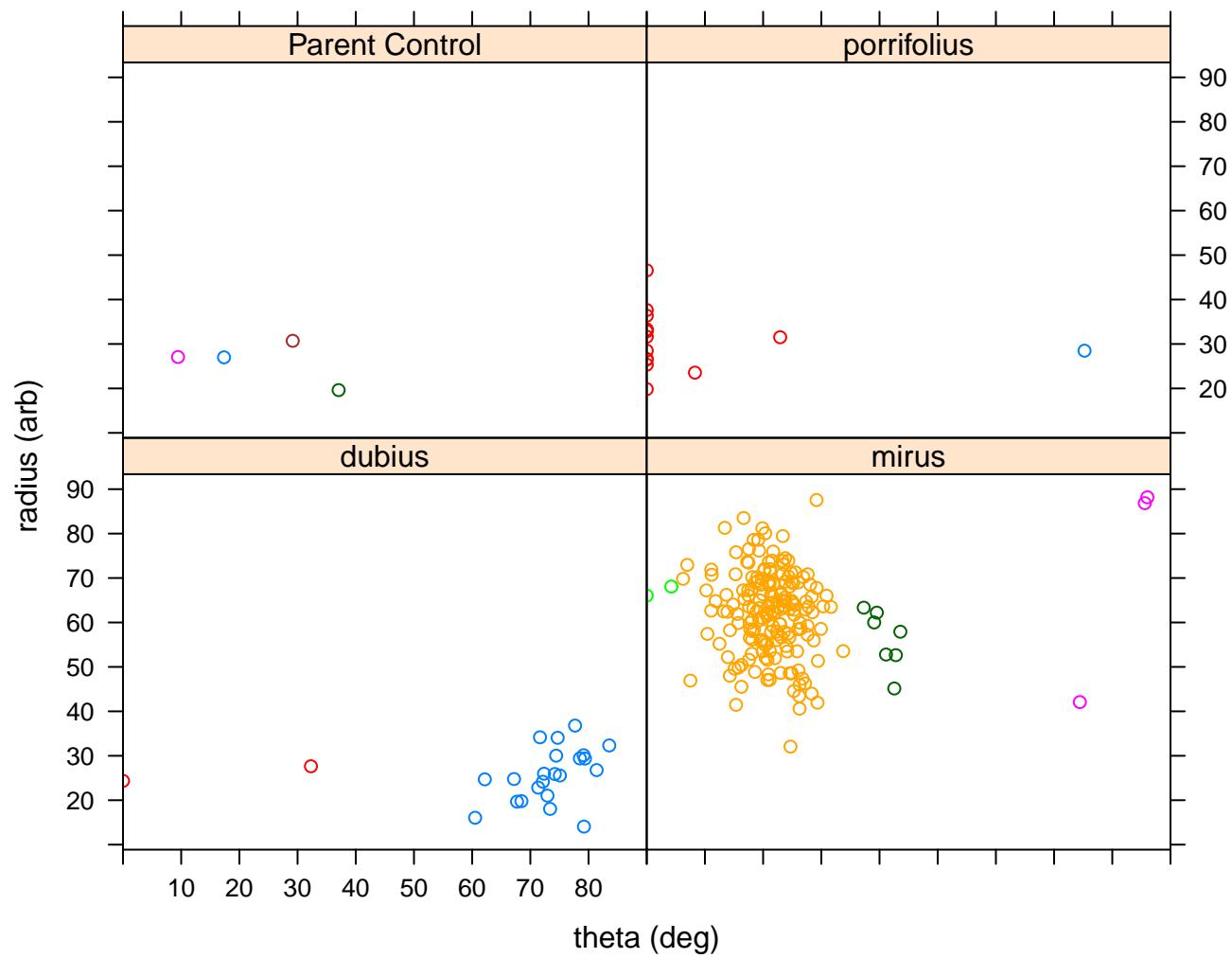


V_2_5_isotig14621_467 cDNA

Call

HH	○	LLLL	○
HHHH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

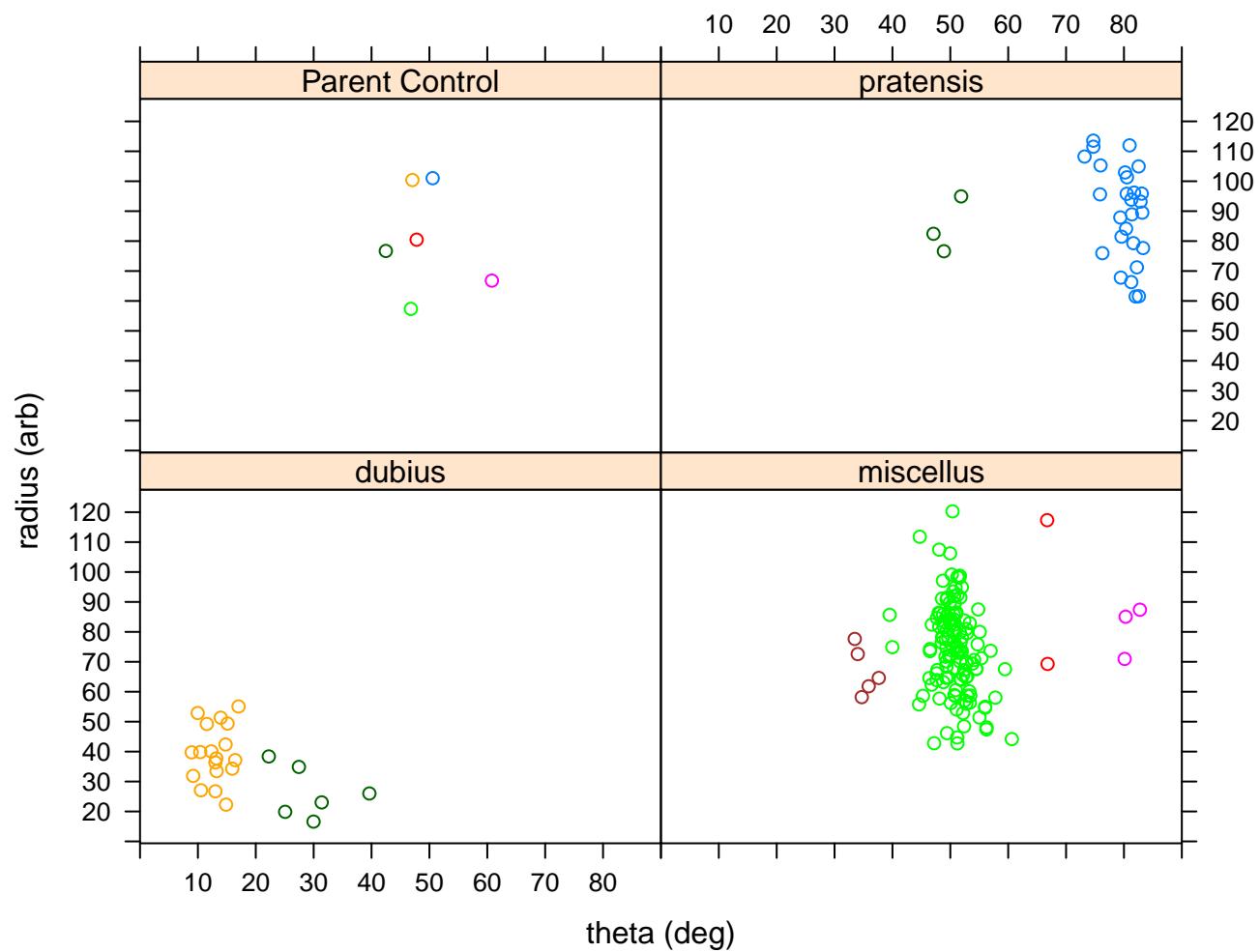
10 20 30 40 50 60 70 80



V_2_5_isotig14657_381 gDNA

Call

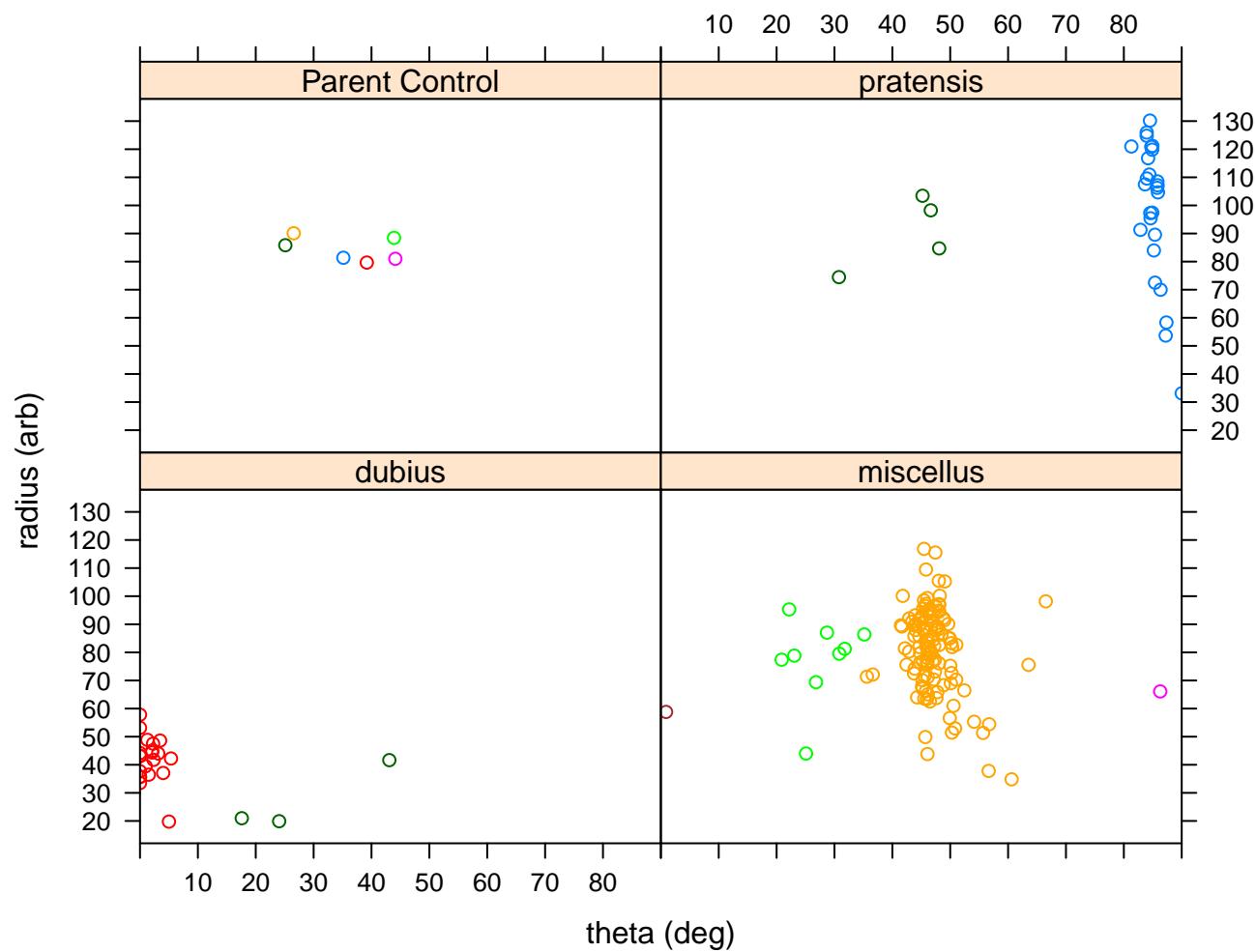
HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LHHH	○	PM4	○
LL	○	PM5	○
LLHH	○	PM6	○
LLLH	○		



V_2_5_isotig14657_381 cDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		



V_2_5_isotig14665_365 gDNA

Call

HH	○	LLLH	○
HHHH	○	LLLL	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

55
50
45
40
35
30
25
20
15
10
5

dubius

mirus

55
50
45
40
35
30
25
20
15
10
5

radius (arb)

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig14665_365 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

50
45
40
35
30
25
20
15
10
5
0

dubius

mirus

radius (arb)

theta (deg)

10 20 30 40 50 60 70 80

V_2_5_isotig14687_273 gDNA

Call

HH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
PM3_1_1	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

120
110
100
90
80
70
60
50
40
30
20
10
0

radius (arb)

dubius

miscellus

120
110
100
90
80
70
60
50
40
30
20
10
0

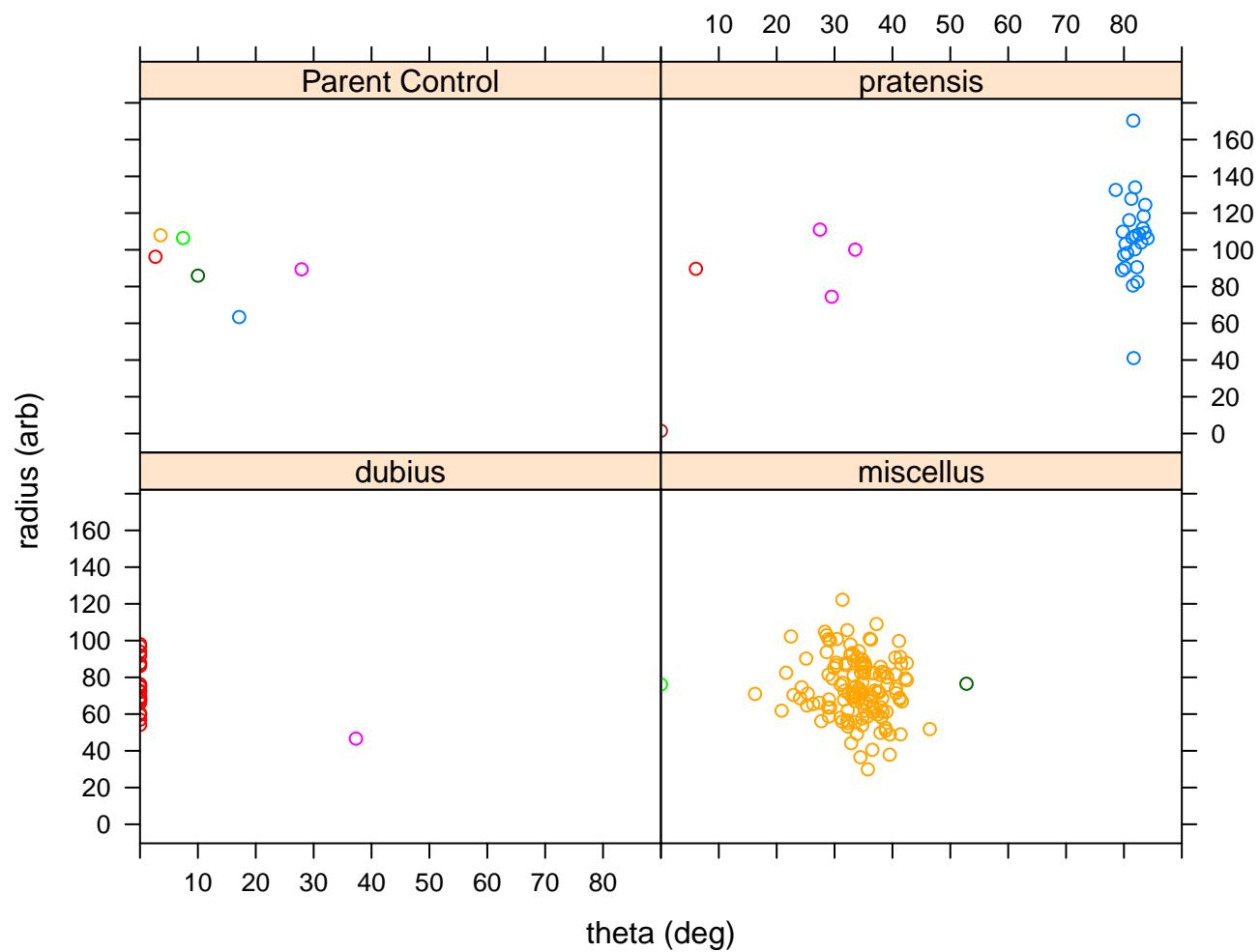
10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig14687_273 cDNA

Call

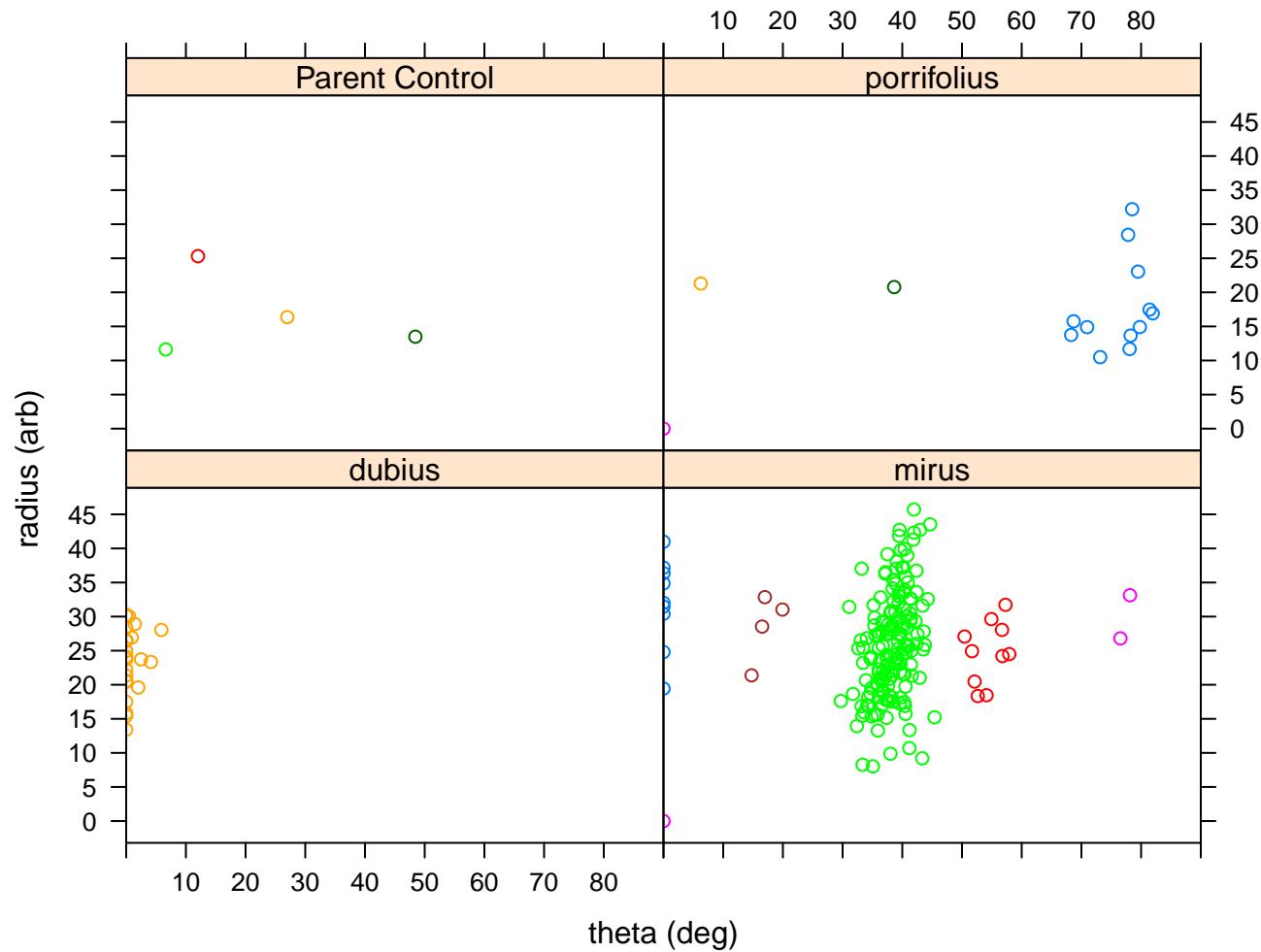
HH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○
No_Alleles	○		



V_2_5_isotig14701_433 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig14701_433 cDNA

Call

Bad_Spectrum	○	LLLL	○
HH	○	No_Alleles	○
HHHH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

70
60
50
40
30
20
10
0

dubius

mirus

radius (arb)

70

60

50

40

30

20

10

0

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig14716_446 gDNA

Call

Bad_Spectrum	LLLH	LLHH
HH	LLLL	HHHH
HHHH	No_Alleles	HH
LH	PM1	LH
LHHH	PM2_1_1	LHHH
LL	PM2_1_2	LL
LLHH	PM2_2_1	LLHH

10 20 30 40 50 60 70 80

Parent Control

porrifolius

60
55
50
45
40
35
30
25
20
15
10
5
0

dubius

mirus

60
55
50
45
40
35
30
25
20
15
10
5
0

radius (arb)

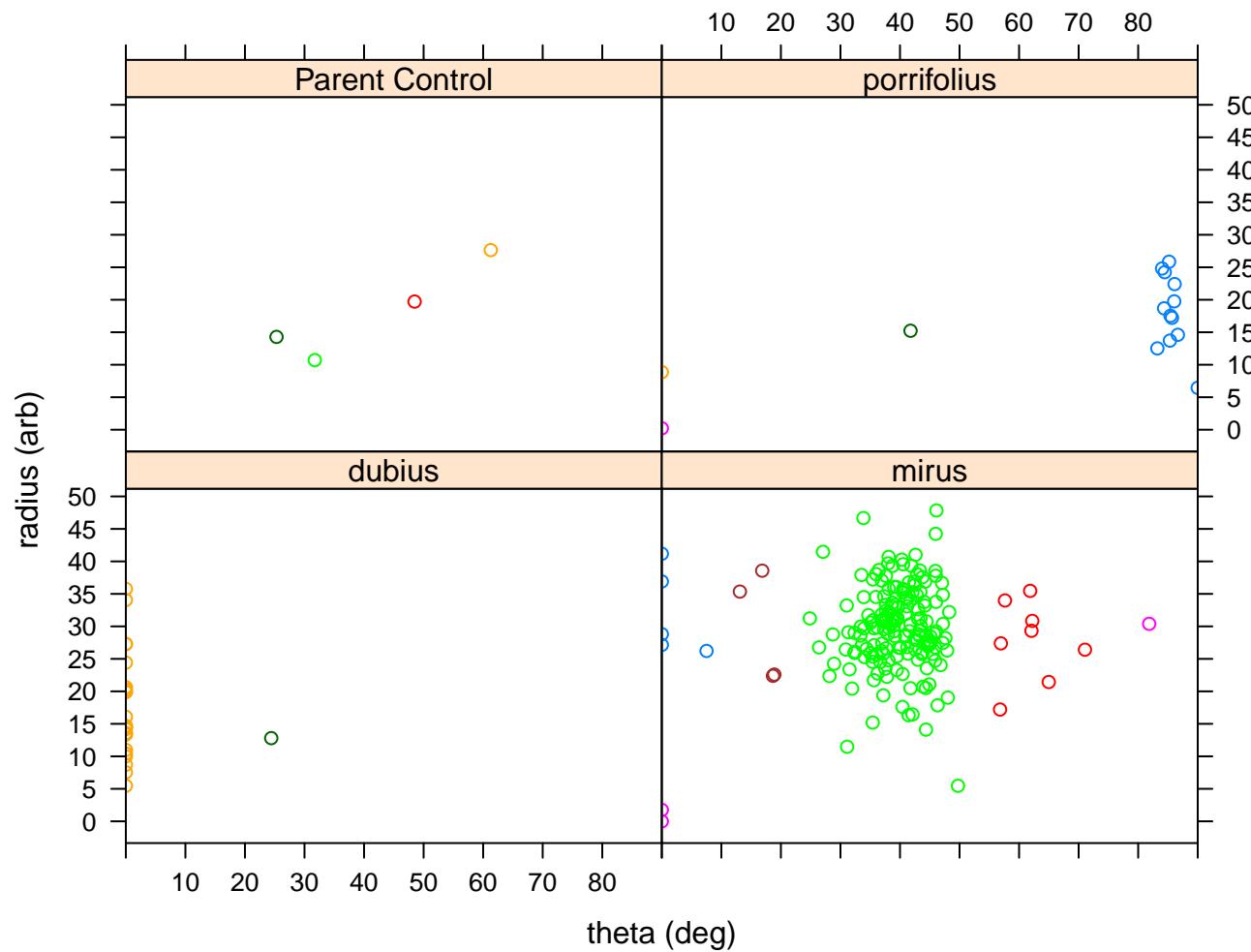
theta (deg)

10 20 30 40 50 60 70 80

V_2_5_isotig14716_446 cDNA

Call

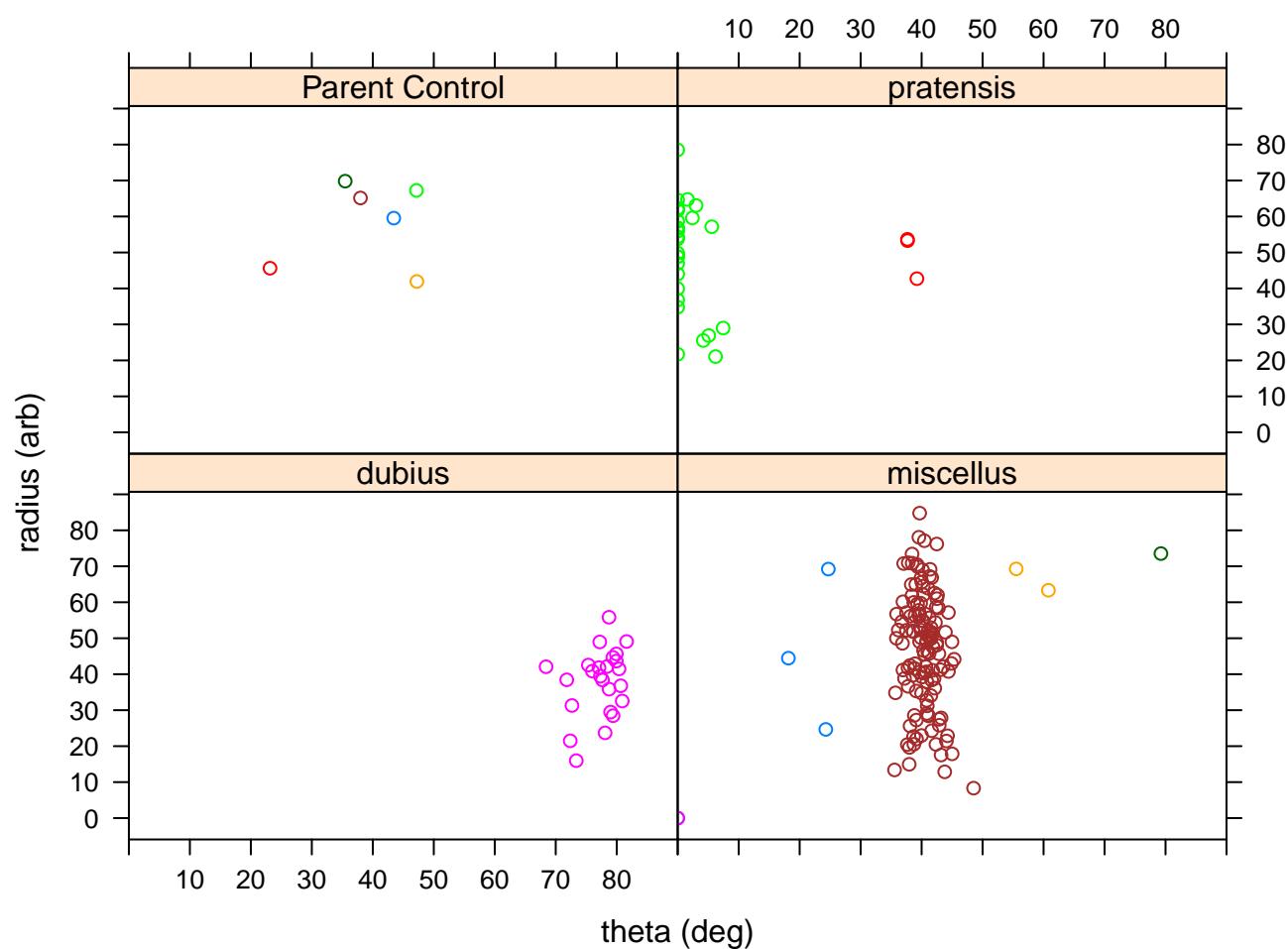
HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig14726_499 gDNA

Call

Bad_Spectrum	○	No_Aleles	○
HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LHHH	○	PM4	○
LL	○	PM5	○
LLHH	○	PM6	○
LLLH	○		



V_2_5_isotig14726_499 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

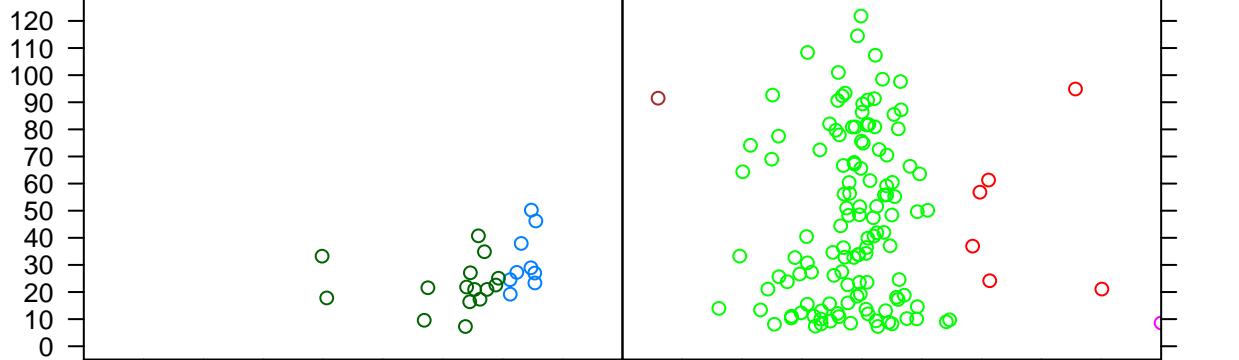
Parent Control

pratensis

120
110
100
90
80
70
60
50
40
30
20
10
0

dubius

miscellus

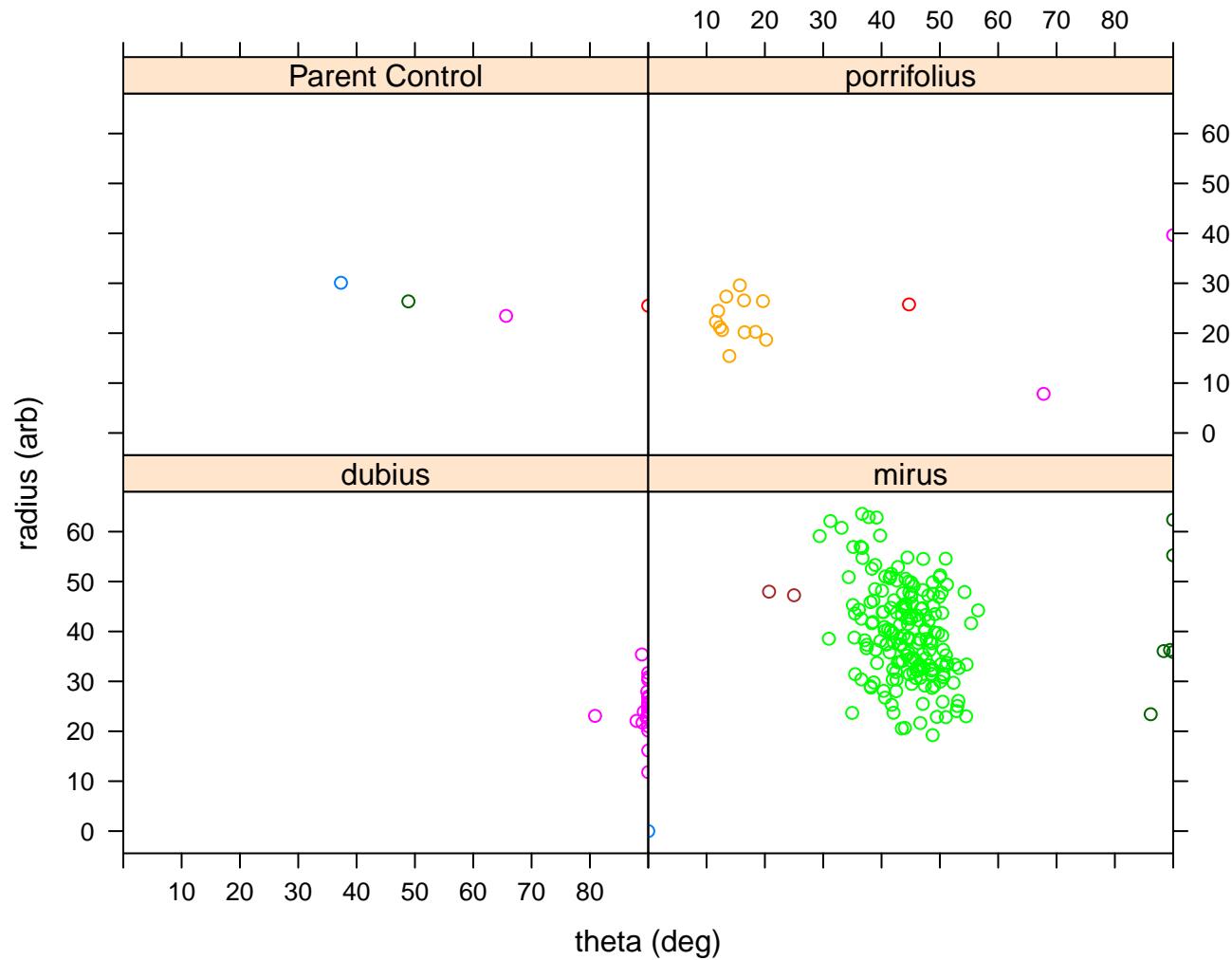


theta (deg)

V_2_5_isotig14744_167 gDNA

Call

Bad_Spectrum	LLL	LLL	○
HH	PM1	PM1	○
HHHH	PM2_1_1	PM2_1_1	○
LH	PM2_1_2	PM2_1_2	○
LL	PM2_2_1	PM2_2_1	○
LLHH	○	○	○



V_2_5_isotig14744_167 cDNA

Call

HH	○	LLLL	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

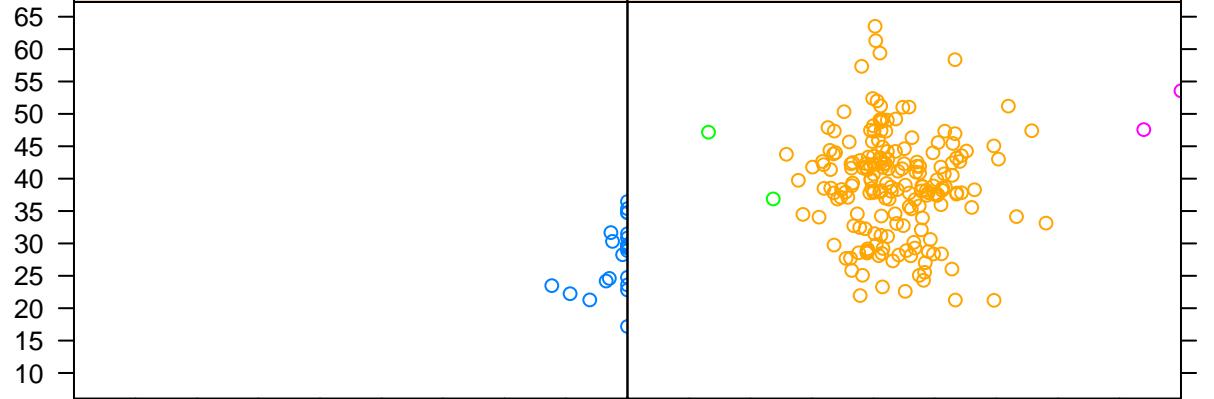
porrifolius

65
60
55
50
45
40
35
30
25
20
15
10

radius (arb)

dubius

mirus



theta (deg)

V_2_5_isotig14744_211 cDNA

Call

HH	○	LLLL	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

radius (arb)

140
120
100
80
60
40
20

dubius

mirus

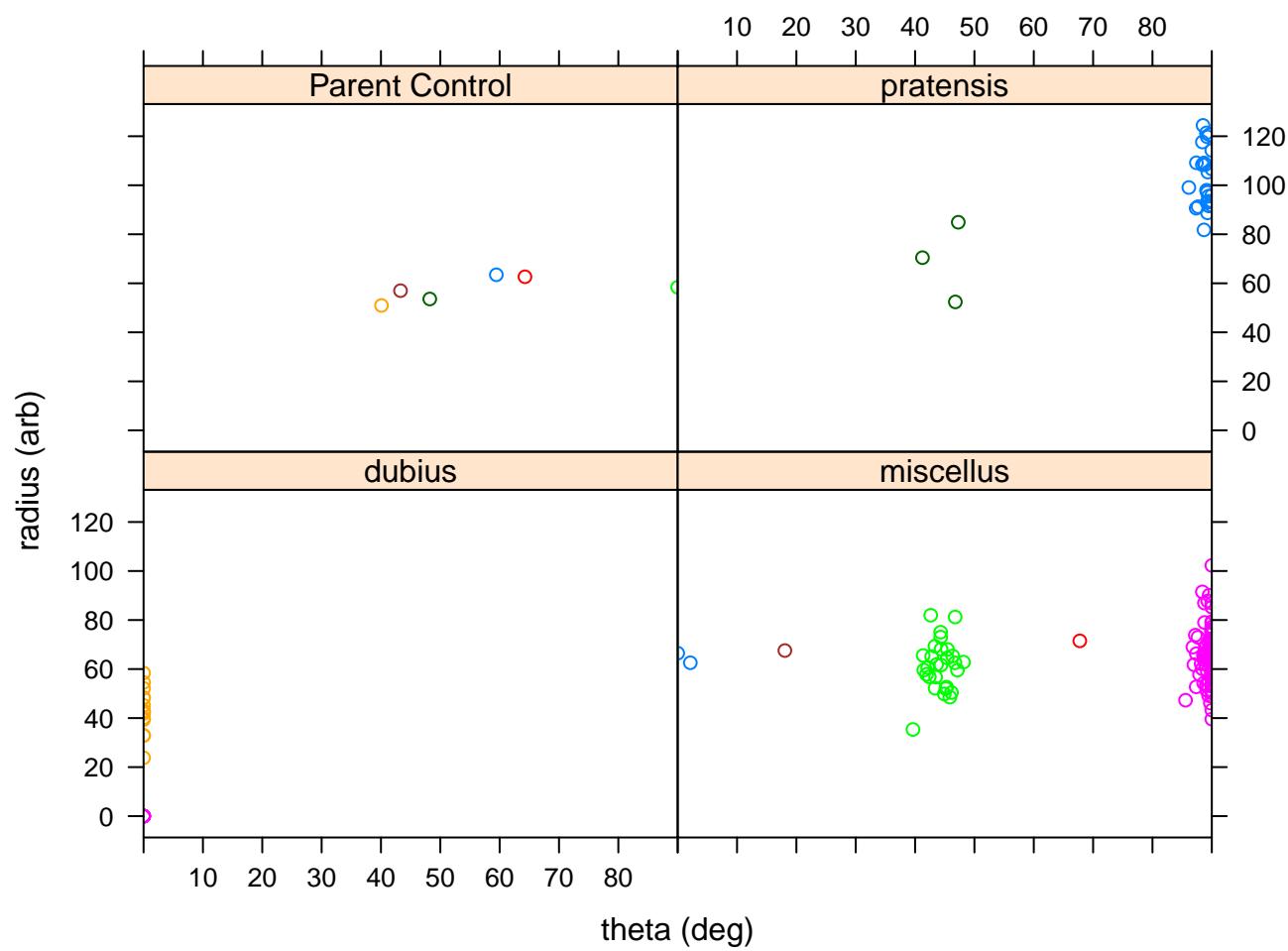
10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig14786_161 gDNA

Call

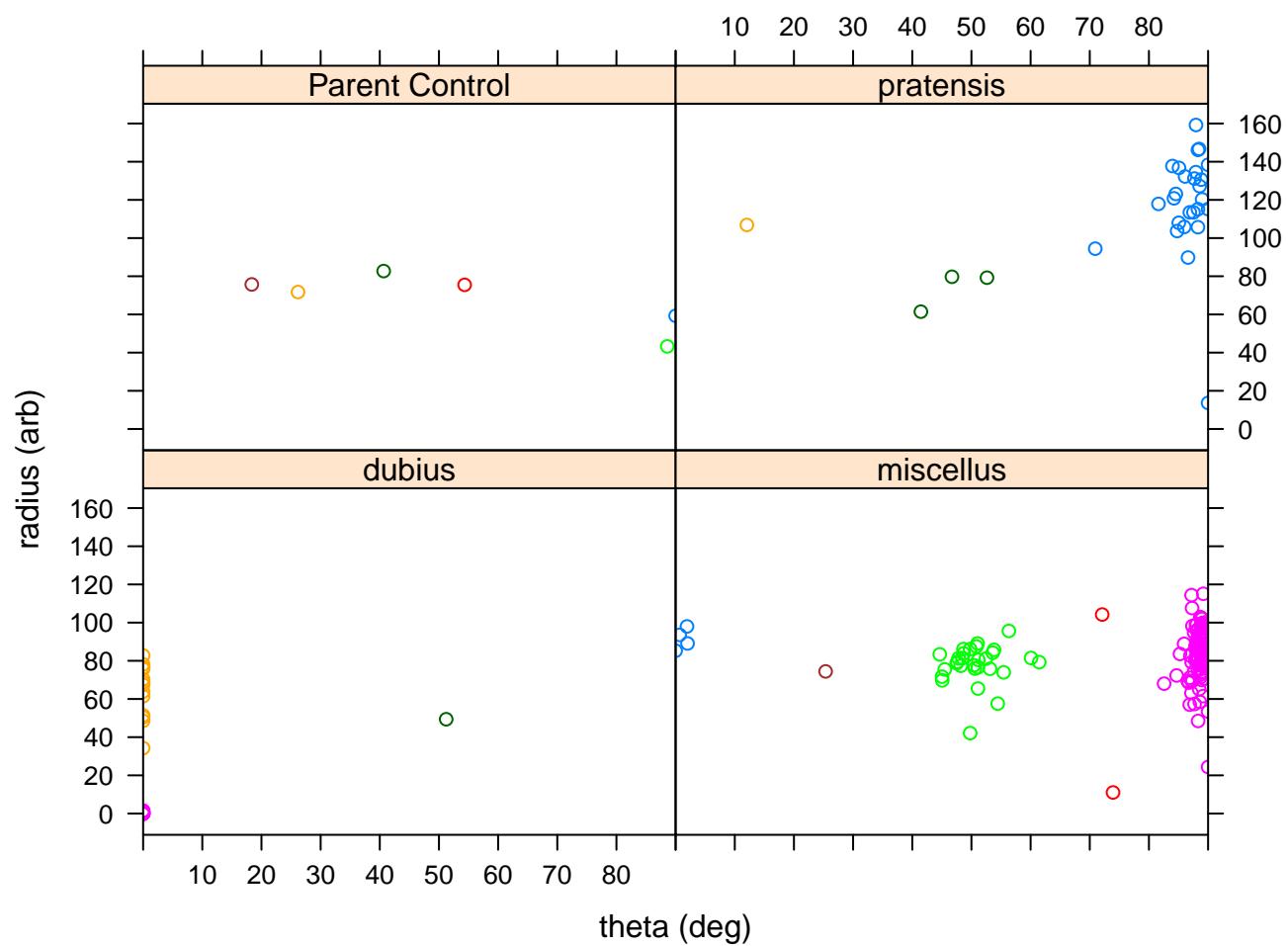
HH	○	No_Aleles
HHHH	○	PM3_1_1
LH	○	PM3_1_2
LHHH	○	PM3_2_1
LL	○	PM4
LLHH	○	PM5
LLLH	○	PM6
LLLL	○	



V_2_5_isotig14786_161 cDNA

Call

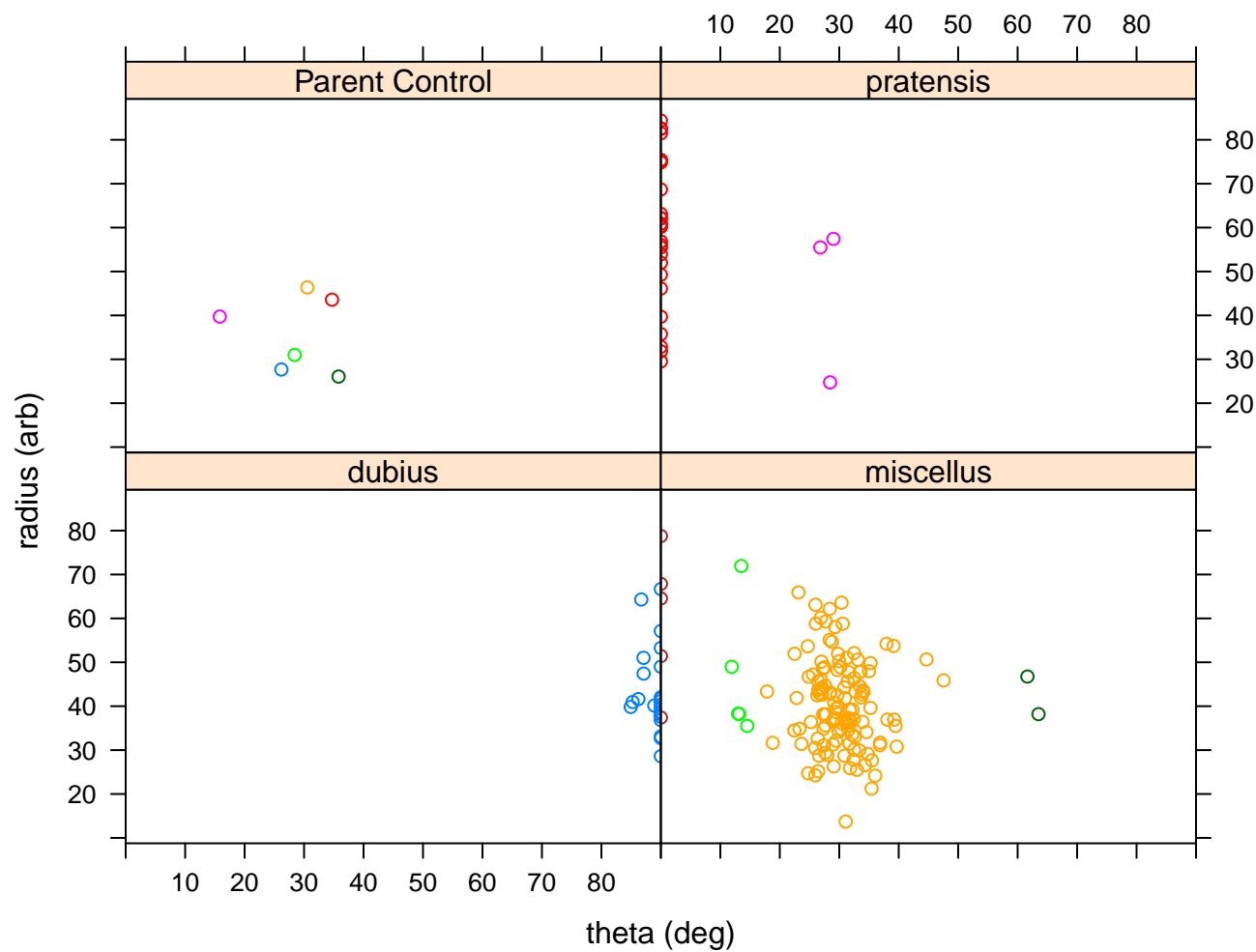
HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		



V_2_5_isotig14804_123 gDNA

Call

HH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		



V_2_5_isotig14804_123 cDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

130
120
110
100
90
80
70
60
50
40
30
20
10

dubius

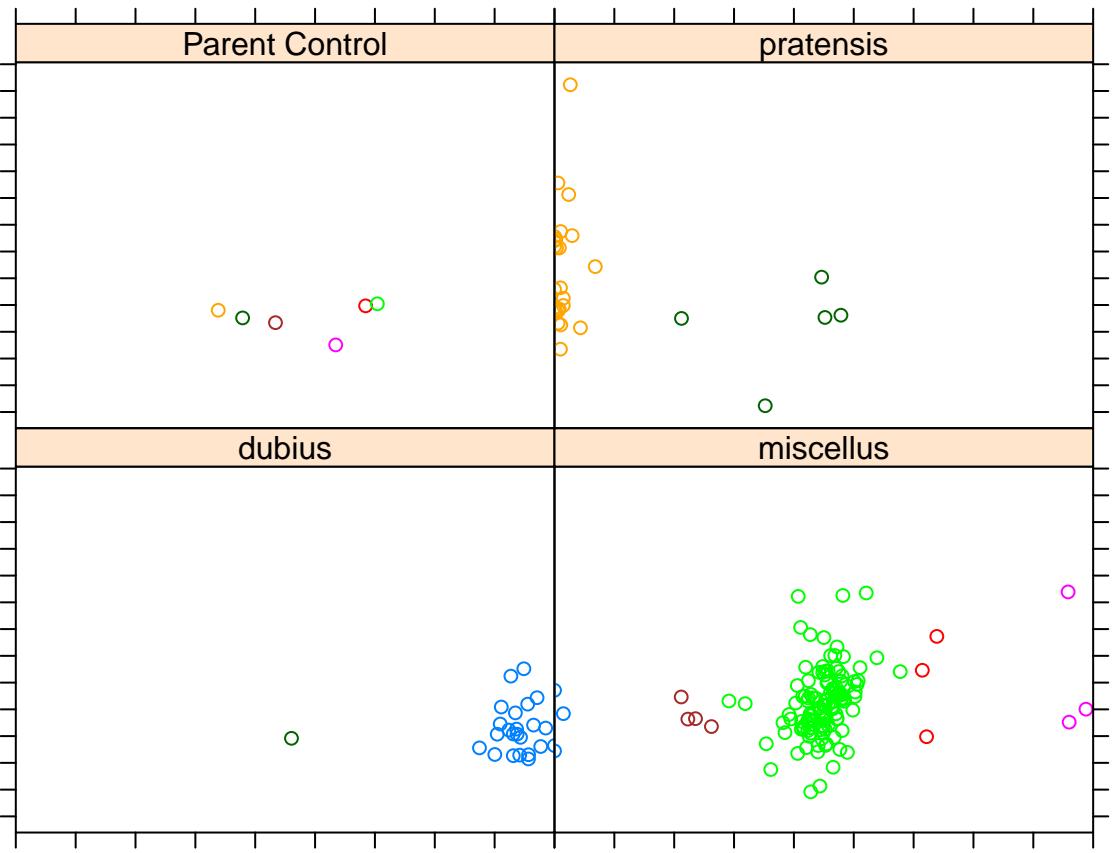
miscellus

radius (arb)

130
120
110
100
90
80
70
60
50
40
30
20
10

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig14821_104 gDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

30
25
20
15
10
5
0

radius (arb)

dubius

miscellus

30
25
20
15
10
5
0

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig14821_104 cDNA

Call

Bad_Spectrum	○	LLLL	○
HH	○	No_Alleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

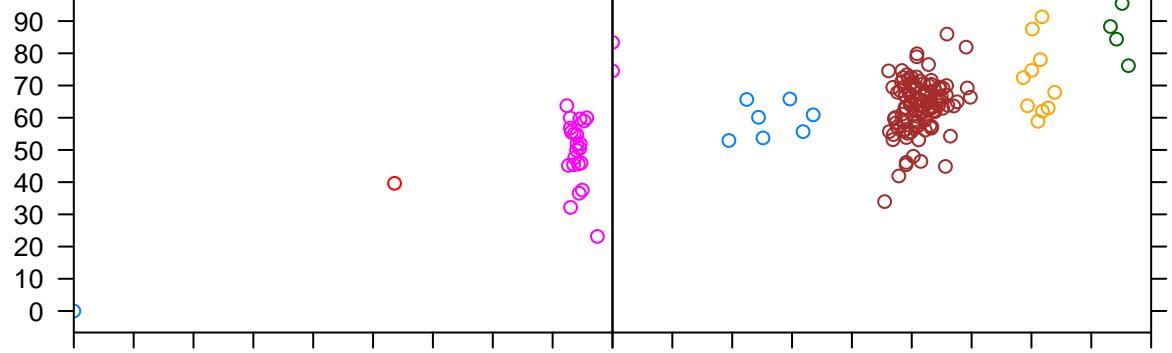
pratensis

90
80
70
60
50
40
30
20
10
0

radius (arb)

dubius

miscellus



theta (deg)

V_2_5_isotig14828_178 cDNA

Call

Bad_Spectrum	LLLH	○	○
HH	LLLL	○	○
HHHH	PM1	○	○
LH	PM2_1_1	○	○
LL	PM2_1_2	○	○
LLHH	PM2_2_1	○	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

140
120
100
80
60
40
20
0

dubius

mirus

140
120
100
80
60
40
20
0

10 20 30 40 50 60 70 80

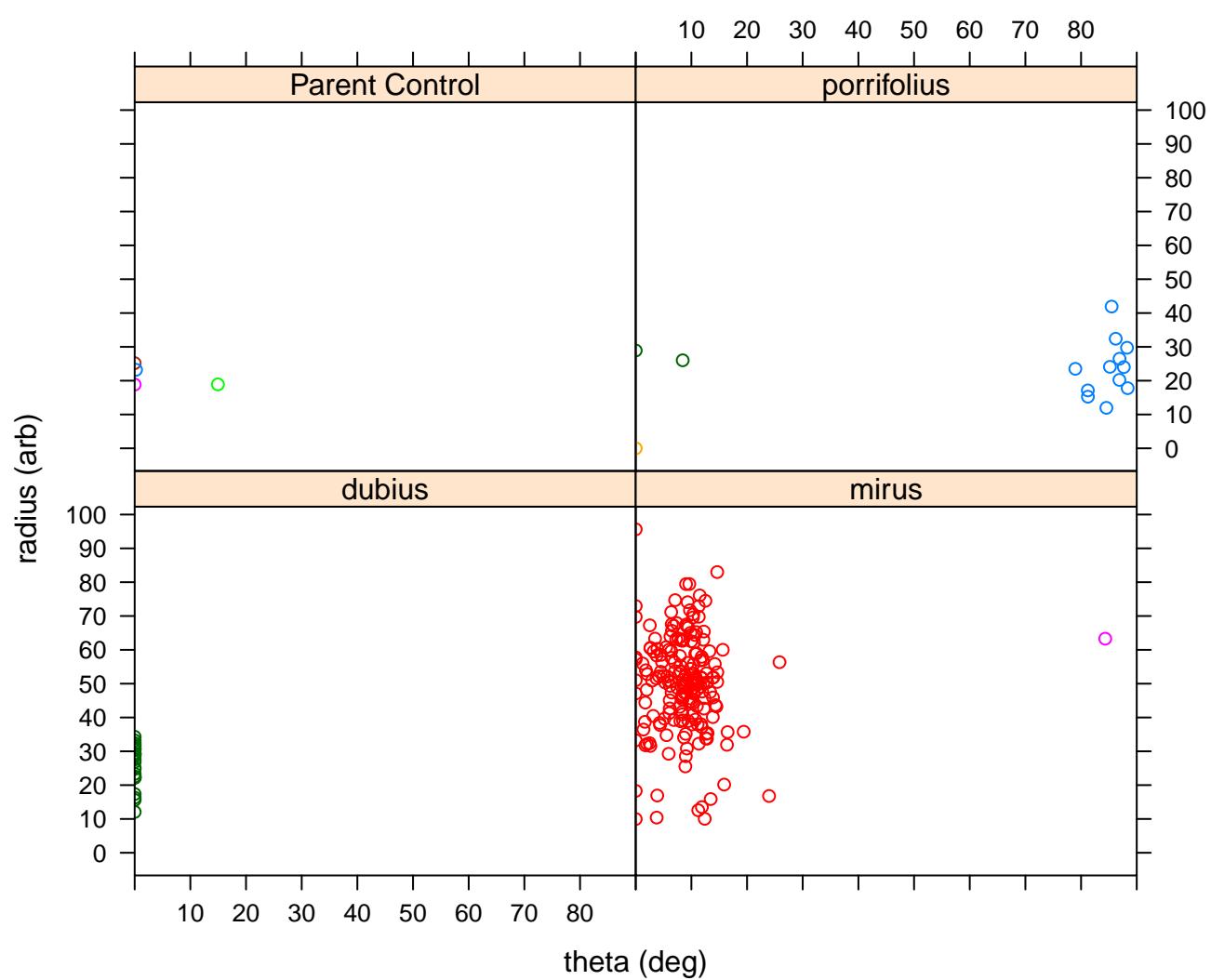
theta (deg)

radius (arb)

V_2_5_isotig14833_354 gDNA

Call

HH	○	PM1	○
HHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLLL	○	PM2_2_1	○
No_Alleles	○		

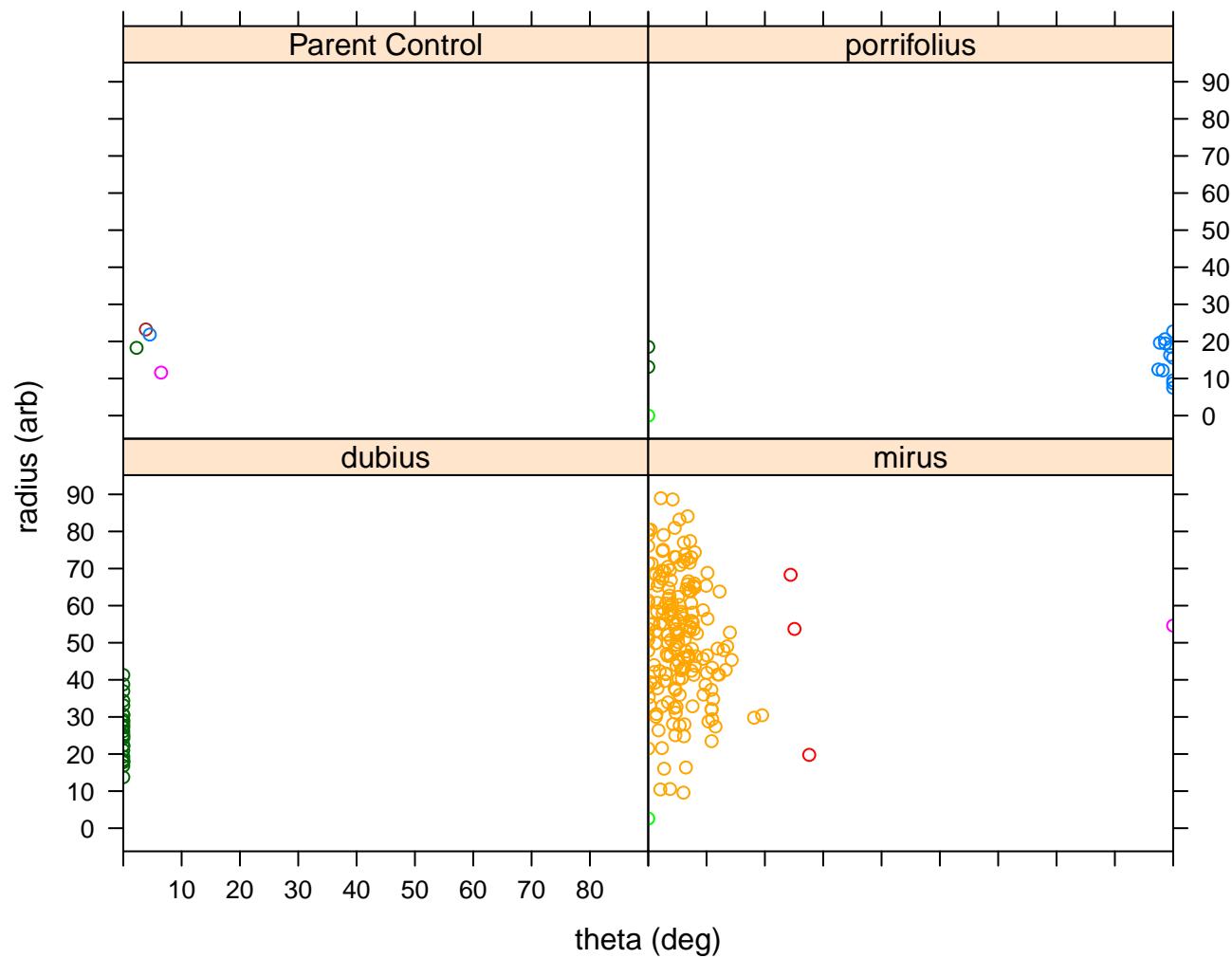


V_2_5_isotig14833_354 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LL	○	PM2_1_1	○
LLLH	○	PM2_1_2	○
LLLL	○	PM2_2_1	○

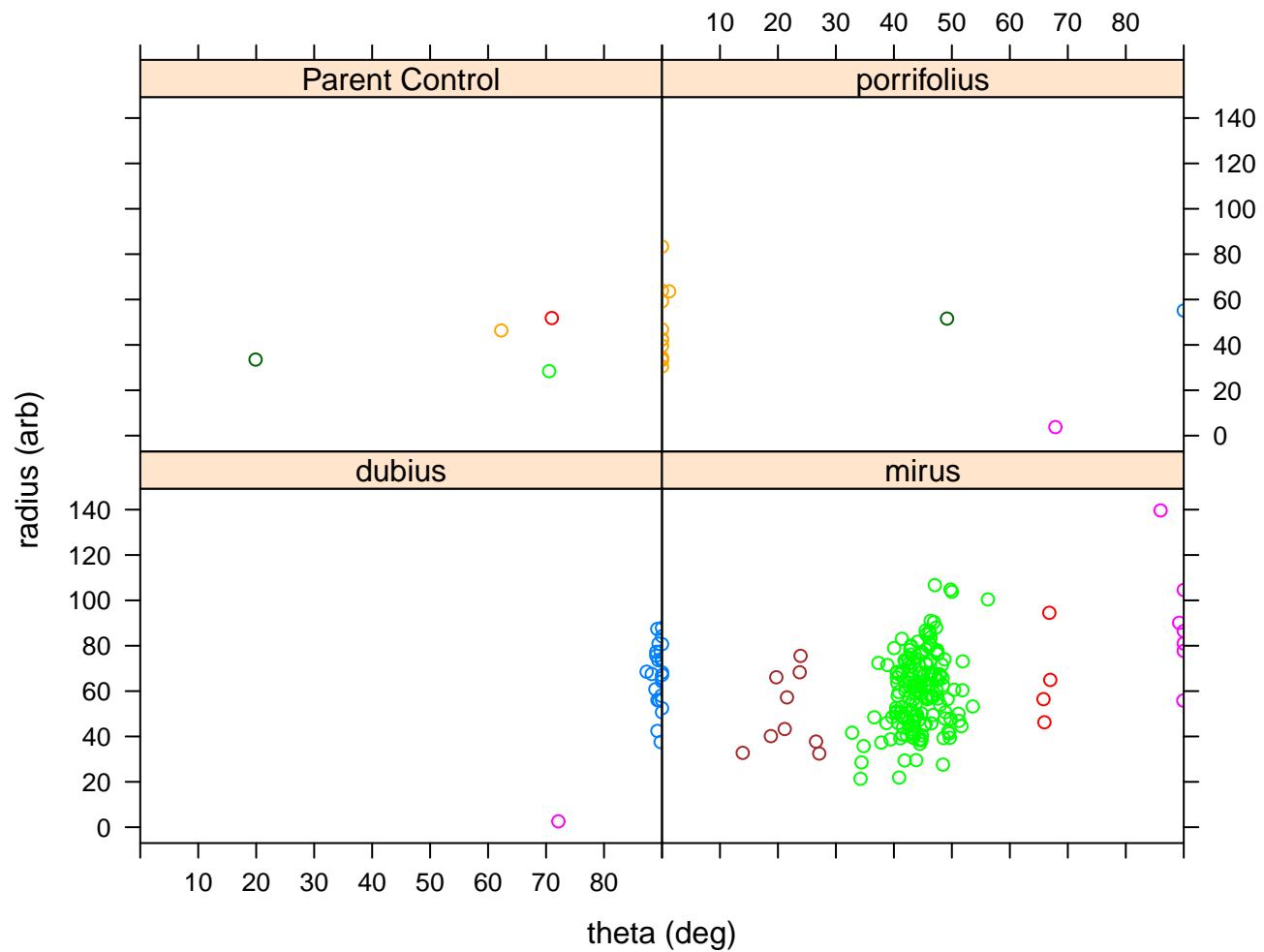
10 20 30 40 50 60 70 80



V_2_5_isotig14870_514 gDNA

Call

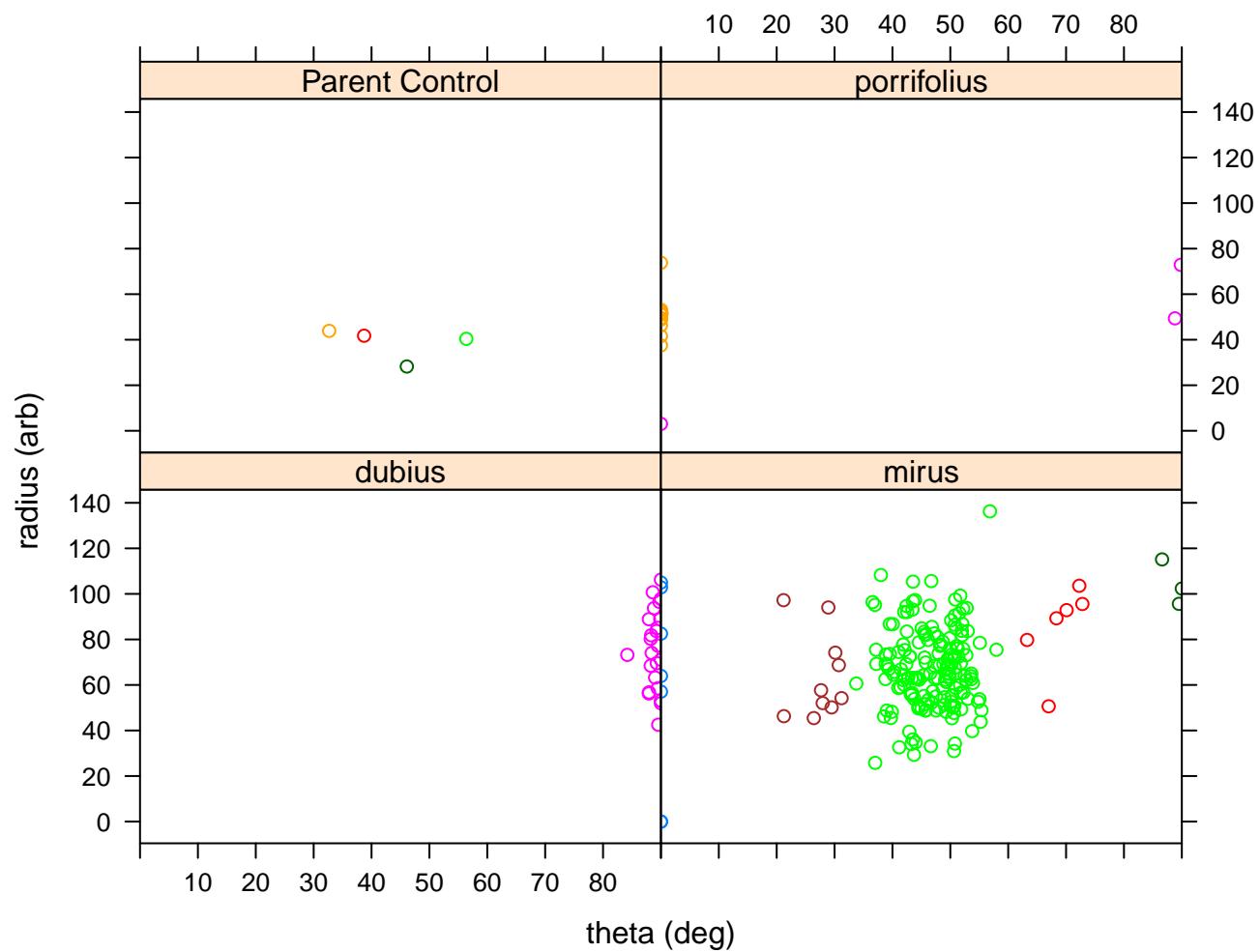
HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig14870_514 cDNA

Call

Bad_Spectrum	○	LLLL	○
HH	○	No_Alleles	○
HHHH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig14886_179 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

55
50
45
40
35
30
25
20
15
10
5

dubius

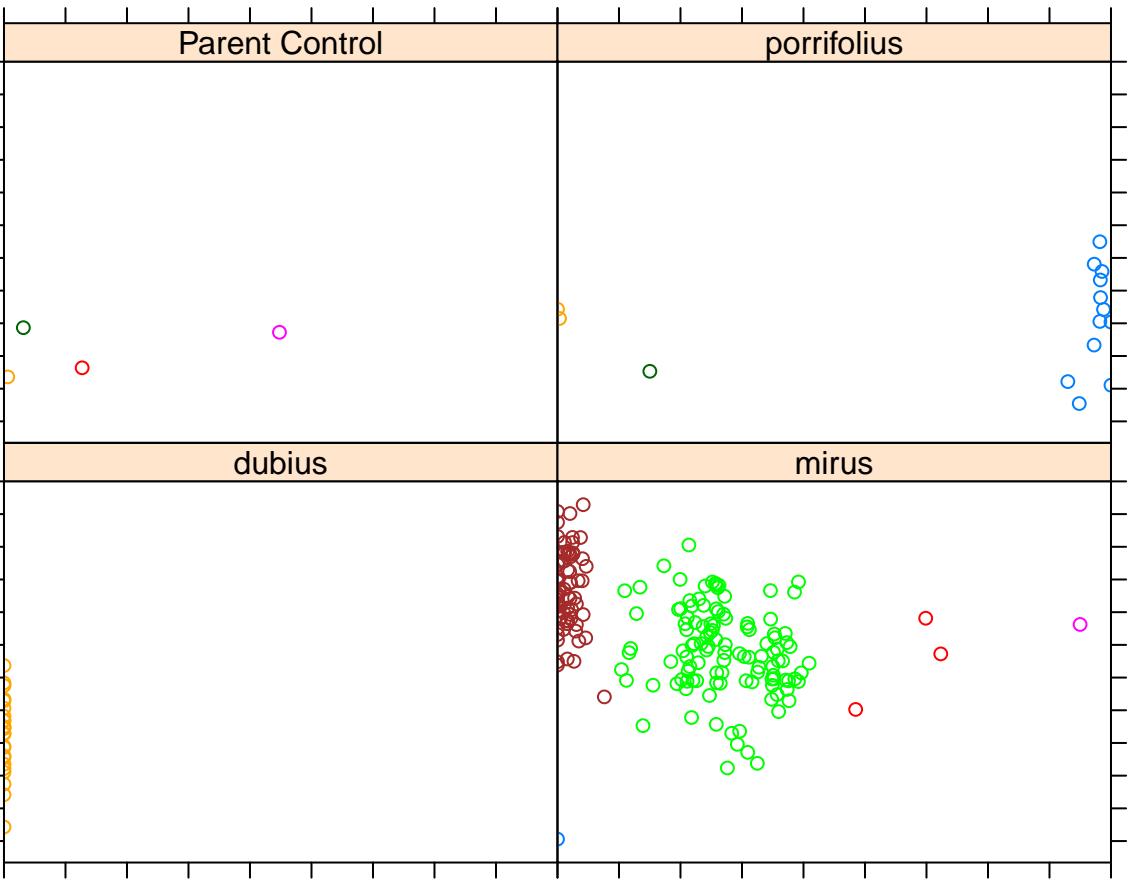
mirus

radius (arb)

55
50
45
40
35
30
25
20
15
10
5

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig14886_179 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

radius (arb)

70
60
50
40
30
20
10

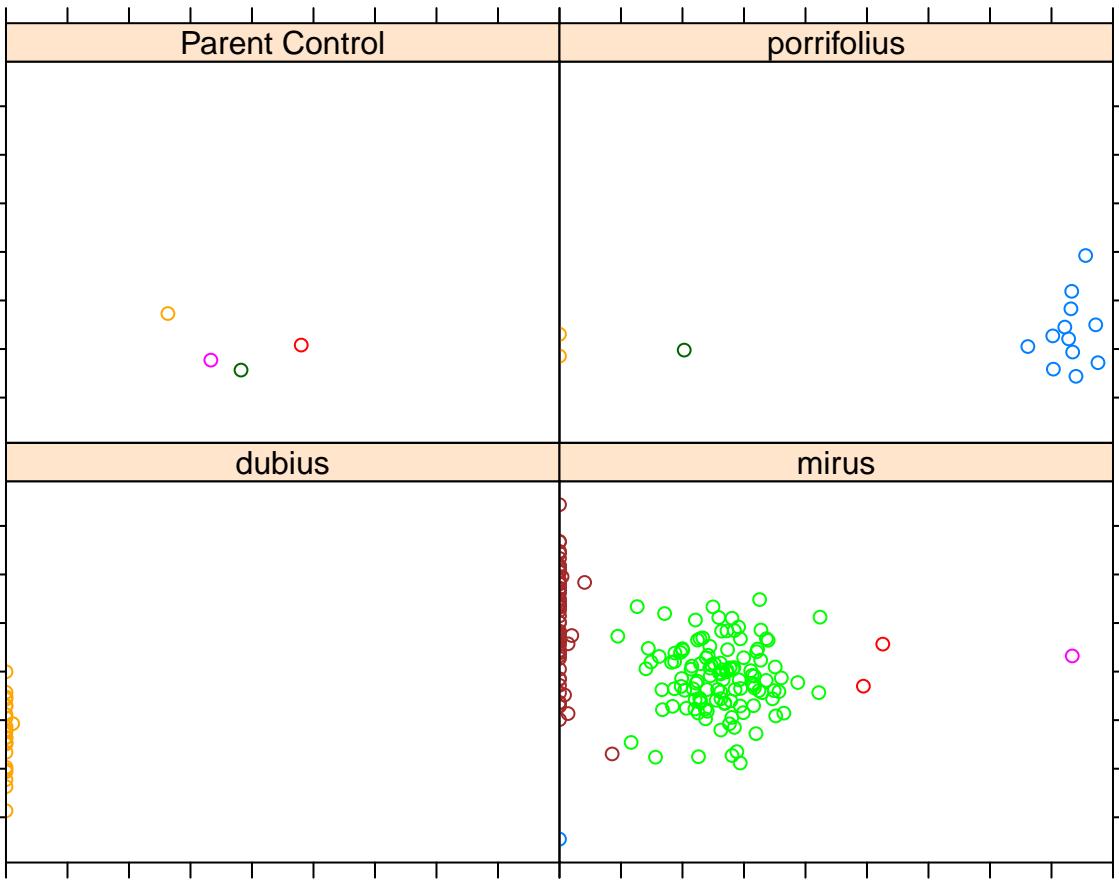
dubius

mirus

70
60
50
40
30
20
10

10 20 30 40 50 60 70 80

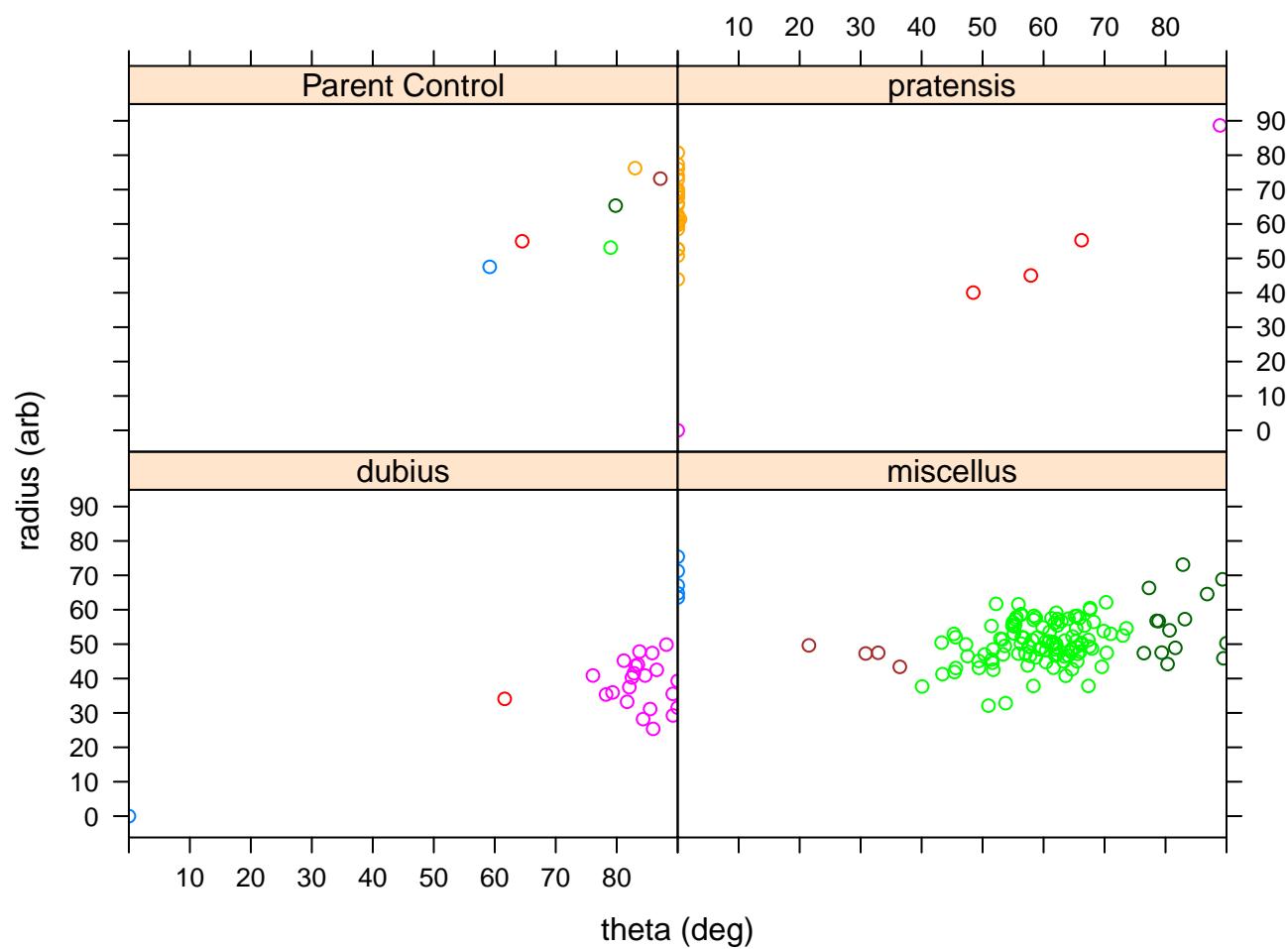
theta (deg)



V_2_5_isotig14889_252 cDNA

Call

Bad_Spectrum	○	No_Alleles	○
HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		



V_2_5_isotig14912_124 gDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LL	○	PM3_2_1	○
LLHH	○	PM4	○
LLLH	○	PM5	○
No_Alleles	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

radius (arb)

25

20

5

0

dubius

miscellus

25

20

15

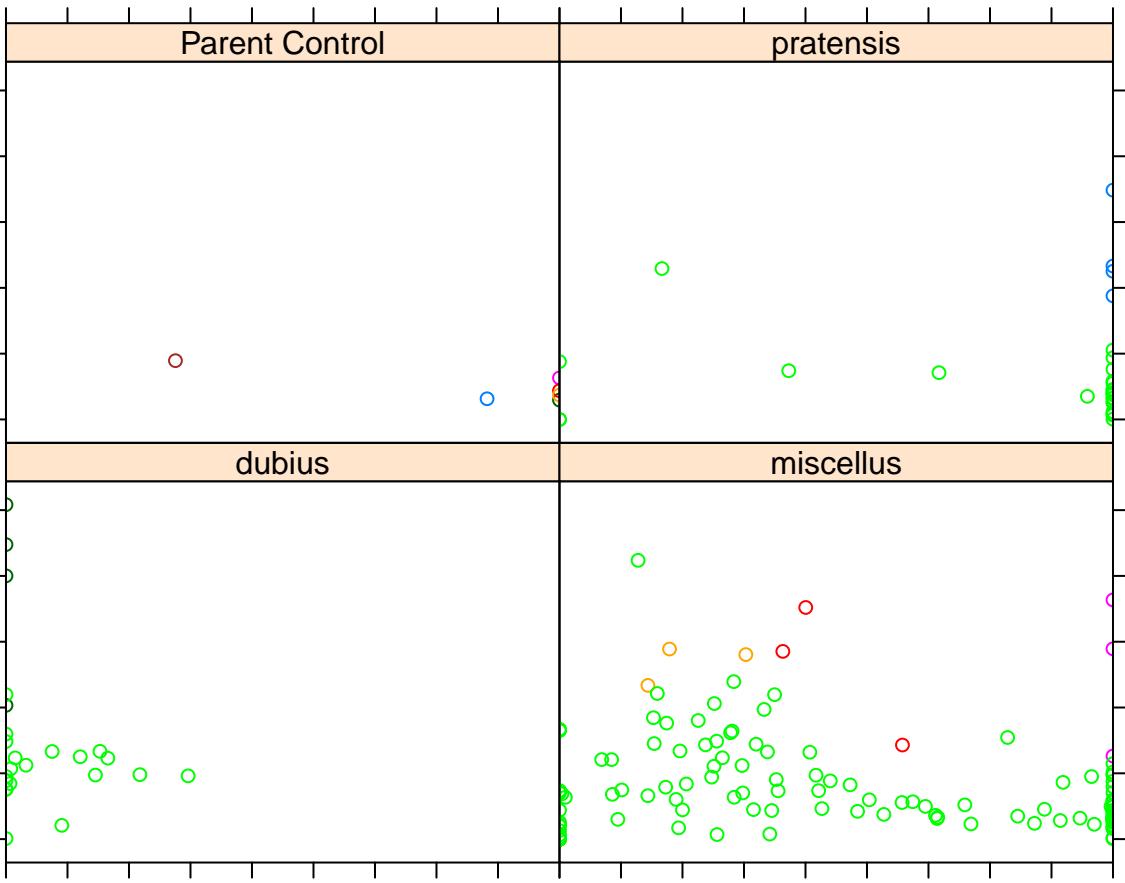
10

5

0

10 20 30 40 50 60 70 80

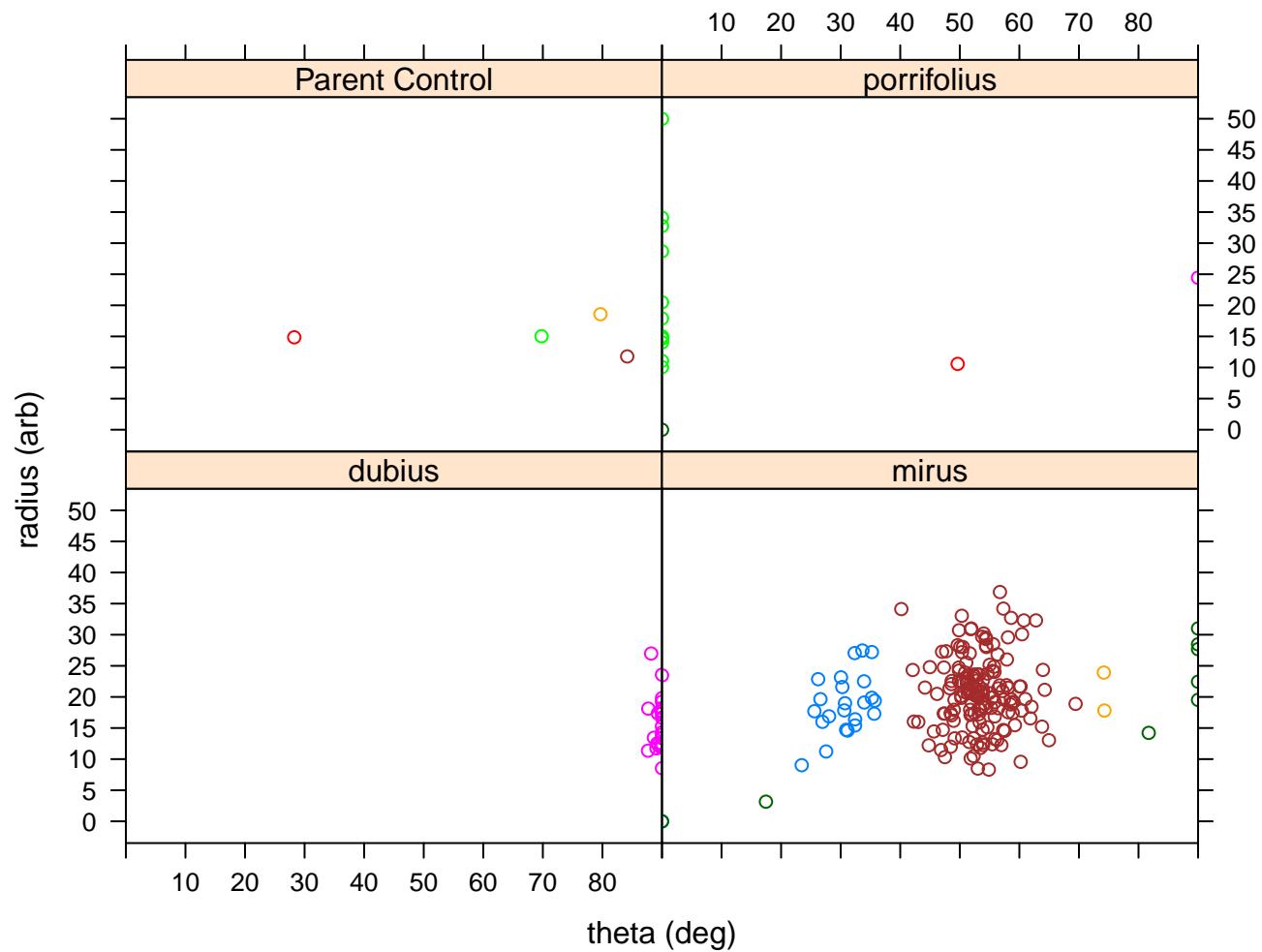
theta (deg)



V_2_5_isotig14936_348 gDNA

Call

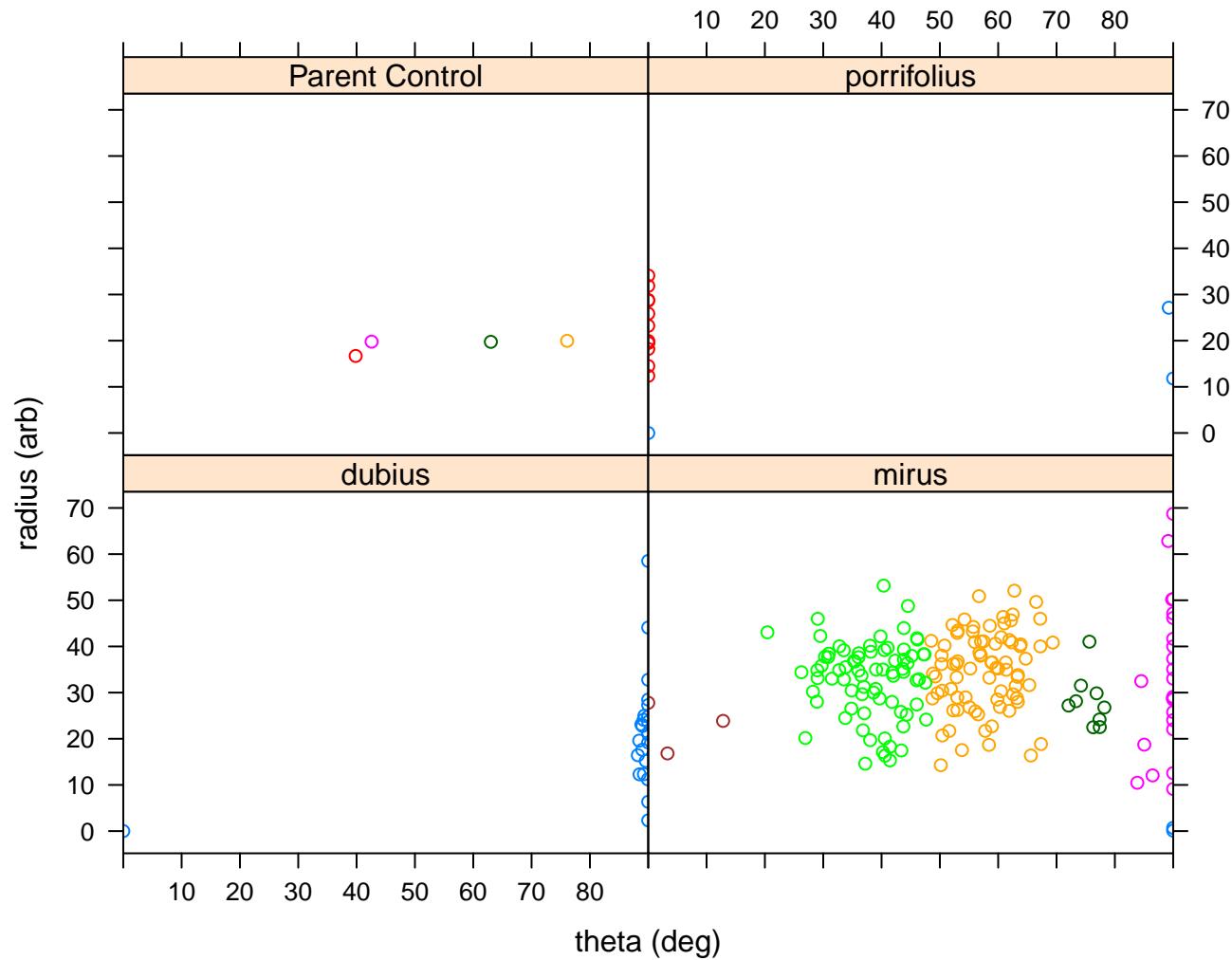
Bad_Spectrum	○	LLLH	○
HH	○	LLLL	○
HHHH	○	No_Alleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○



V_2_5_isotig14936_348 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LHHH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○



V_2_5_isotig14936_434 cDNA

Call

HH	○	LLLL	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		

10 20 30 40 50 60 70 80

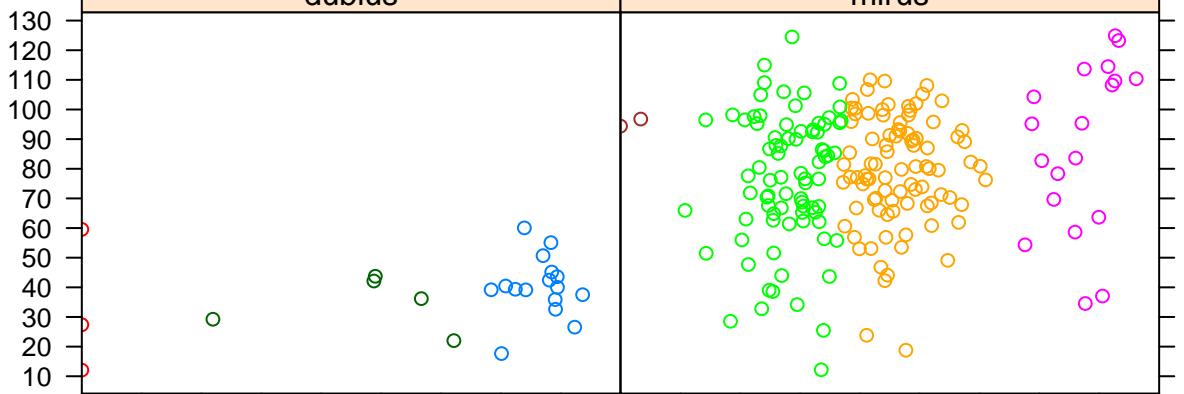
Parent Control

porrifolius

130
120
110
100
90
80
70
60
50
40
30
20
10

dubius

mirus



theta (deg)

V_2_5_isotig14956_464 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

100
90
80
70
60
50
40
30
20

dubius

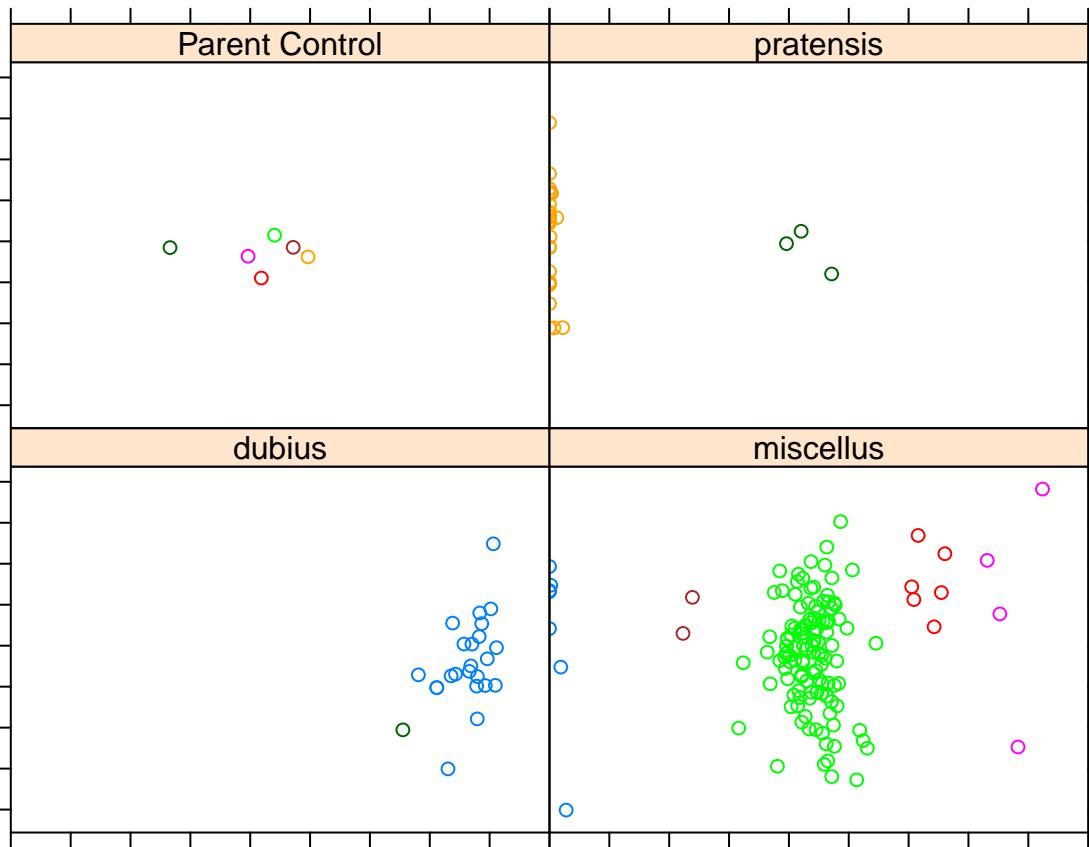
miscellus

radius (arb)

100
90
80
70
60
50
40
30
20

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig14956_464 cDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

120
110
100
90
80
70
60
50
40
30
20
10

dubius

miscellus

radius (arb)

120
100
80
60
40
20
10

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig15110_433 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

30
25
20
15
10
5
0

dubius

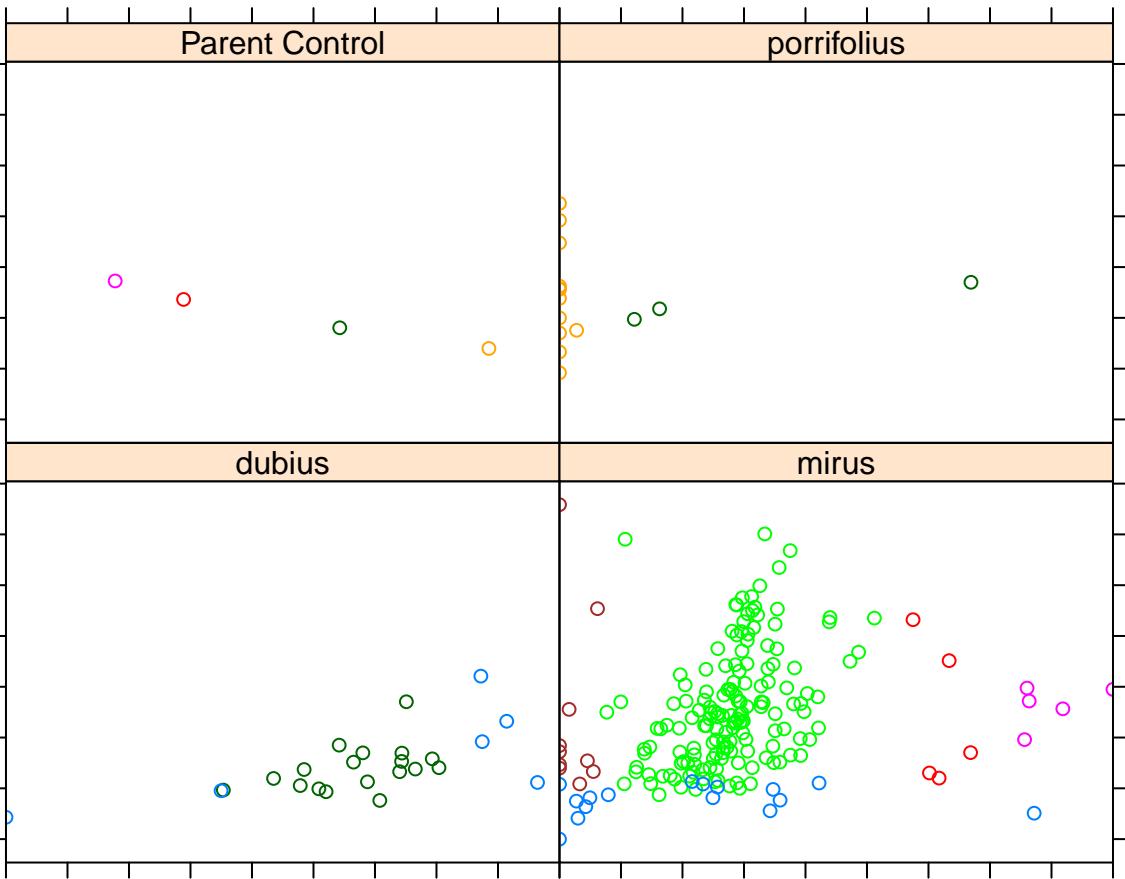
mirus

radius (arb)

30
25
20
15
10
5
0

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig15110_433 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

60
55
50
45
40
35
30
25
20
15
10
5
0

dubius

mirus

60
55
50
45
40
35
30
25
20
15
10
5
0

radius (arb)

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig15132_217 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

100
90
80
70
60
50
40
30
20
10
0

dubius

mirus

100
90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

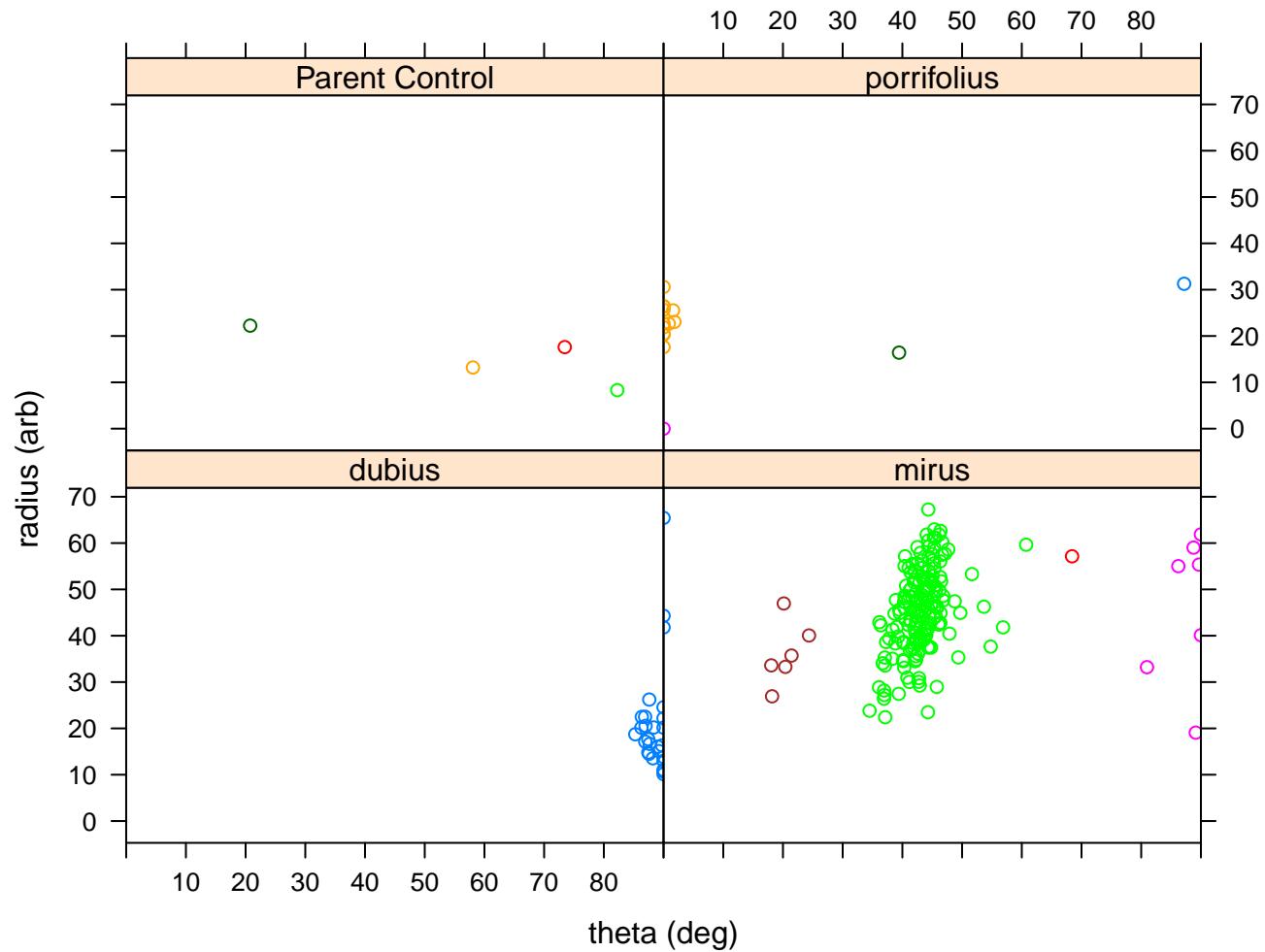
theta (deg)

radius (arb)

V_2_5_isotig15156_93 gDNA

Call

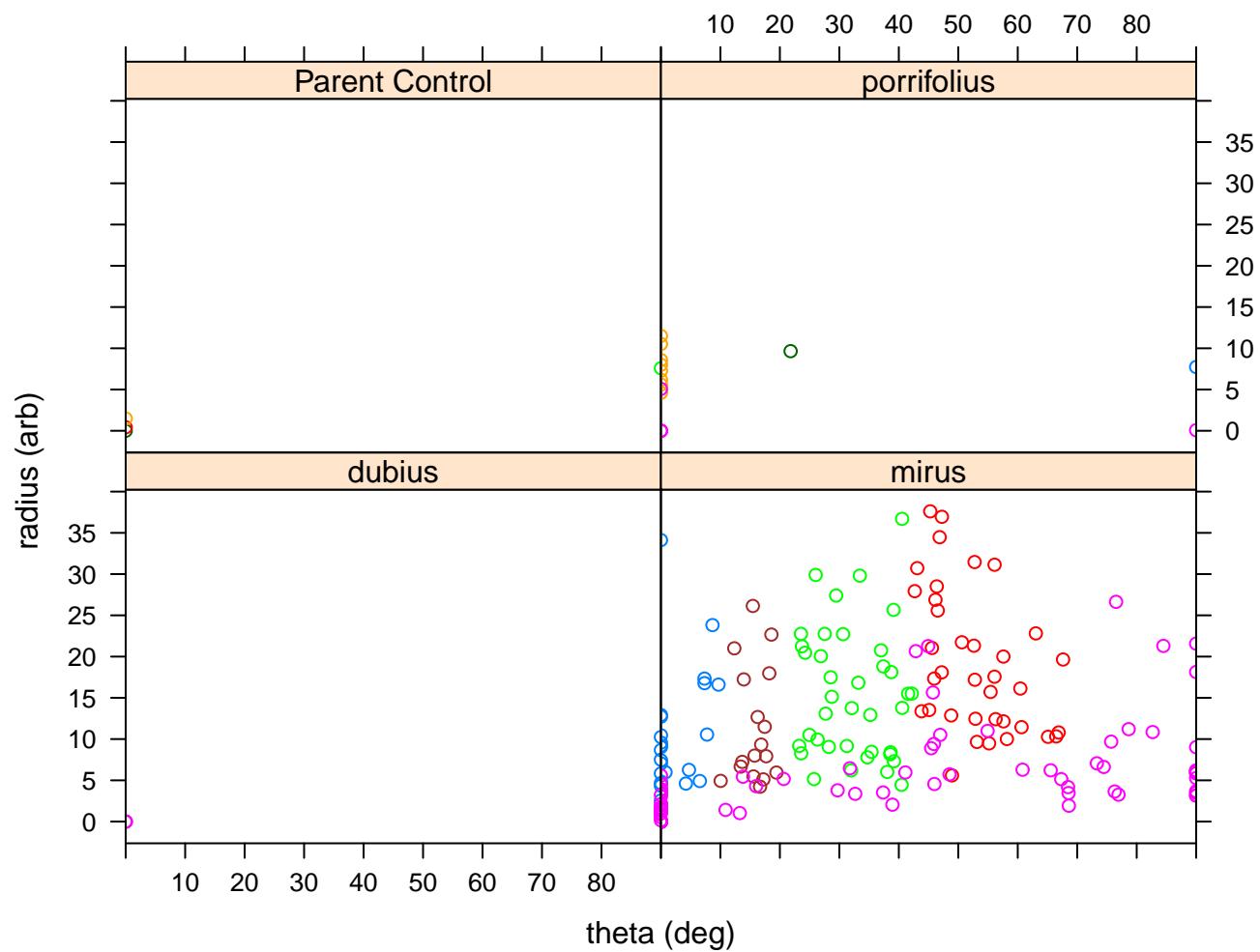
HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig15156_93 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig15232_115 gDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LL	○	PM3_2_1	○
LLHH	○	PM4	○
LLLH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

radius (arb)

40

dubius

miscellus

40

35

30

25

20

15

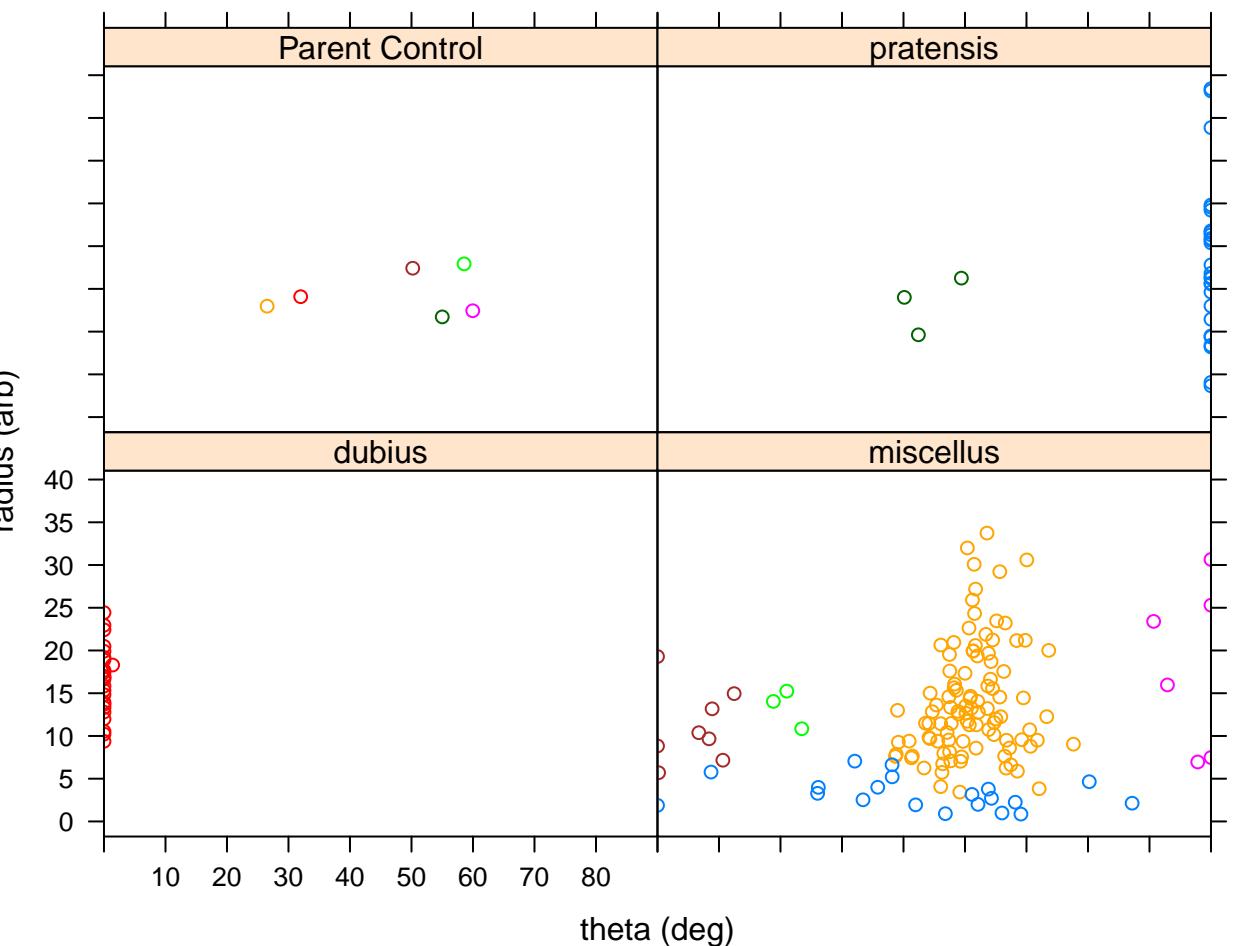
10

5

0

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig15232_115 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

100
90
80
70
60
50
40
30
20
10
0

dubius

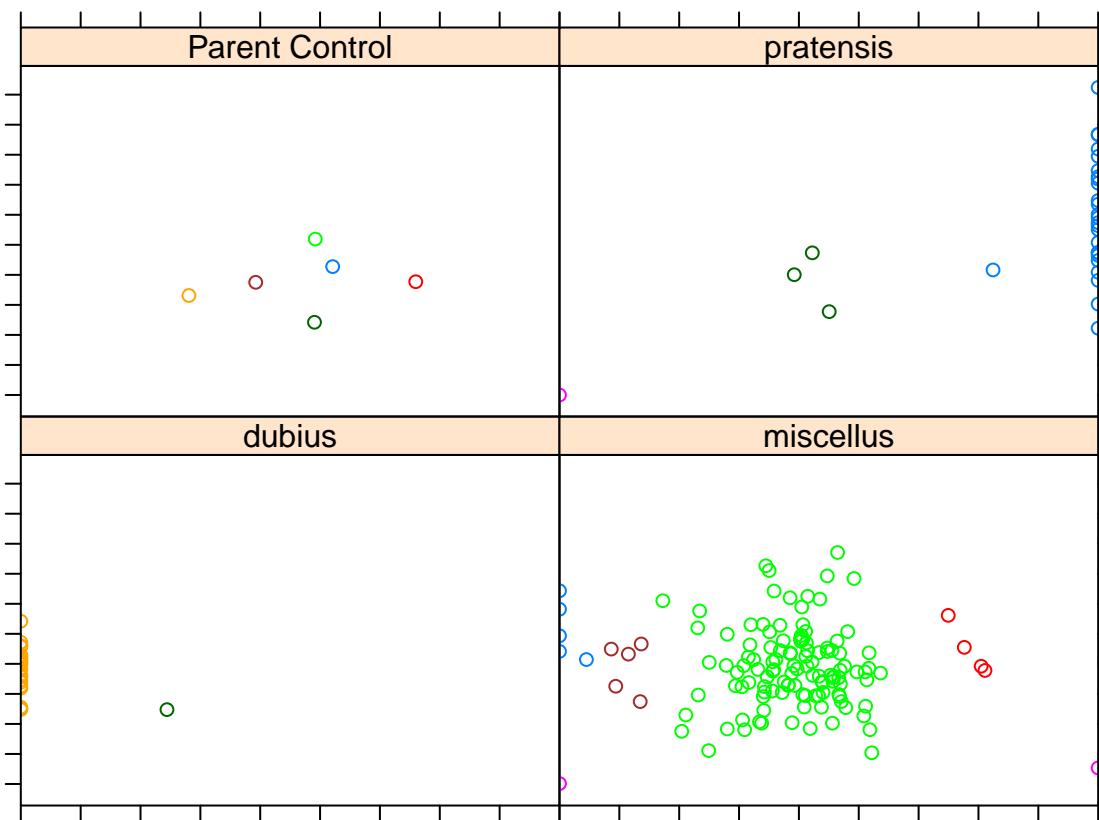
miscellus

radius (arb)

100
90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig15245_54 gDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

28
26
24
22
20
18
16
14
12
10
8
6
4

dubius

miscellus

28
26
24
22
20
18
16
14
12
10
8
6
4

10 20 30 40 50 60 70 80

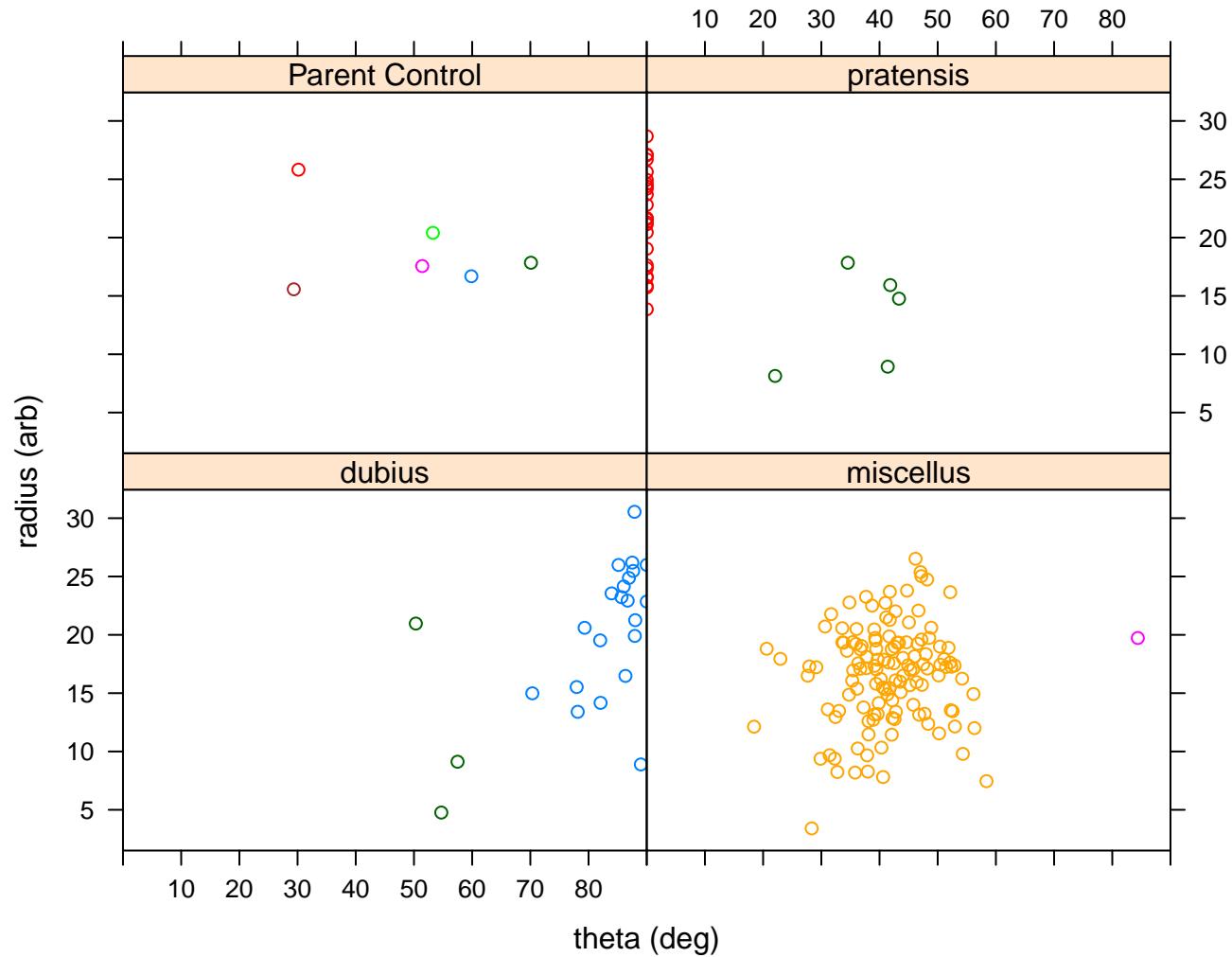
theta (deg)

radius (arb)

V_2_5_isotig15245_54 cDNA

Call

HH	○	PM3_1_2	○
HHHH	○	PM3_2_1	○
LH	○	PM4	○
LL	○	PM5	○
LLHH	○	PM6	○
PM3_1_1	○		



V_2_5_isotig15247_365 gDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LHHH	○	PM4	○
LL	○	PM5	○
LLHH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

65
60
55
50
45
40
35
30
25
20

dubius

miscellus

radius (arb)

65
60
55
50
45
40
35
30
25
20

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig15247_365 cDNA

Call

HH	○	PM3_1_2	○
HHHH	○	PM3_2_1	○
LH	○	PM4	○
LL	○	PM5	○
LLHH	○	PM6	○
PM3_1_1	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

90
80
70
60
50
40
30
20
10

dubius

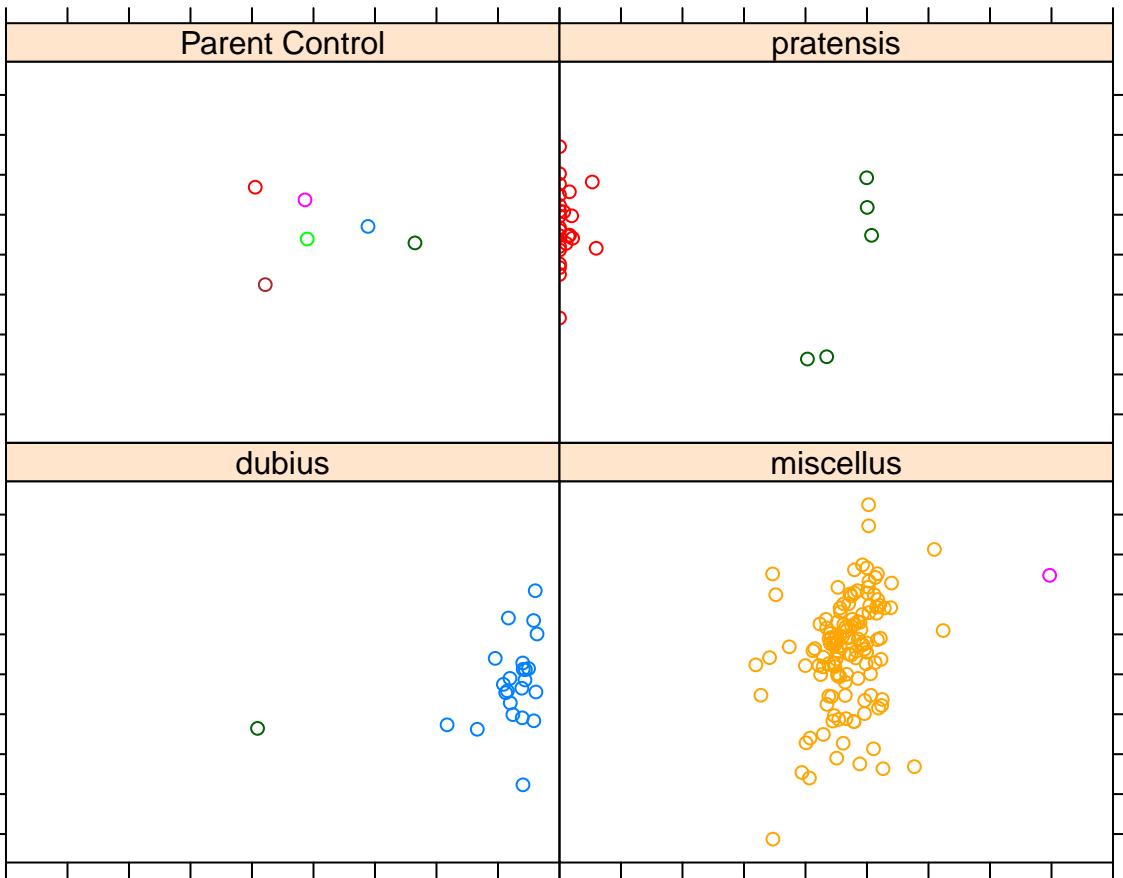
miscellus

radius (arb)

90
80
70
60
50
40
30
20
10

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig15247_461 gDNA

Call

HH	○	PM3_1_2	○
HHHH	○	PM3_2_1	○
LH	○	PM4	○
LL	○	PM5	○
LLHH	○	PM6	○
PM3_1_1	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

65
60
55
50
45
40
35
30
25
20
15
10

dubius

miscellus

65
60
55
50
45
40
35
30
25
20
15
10

10 20 30 40 50 60 70 80

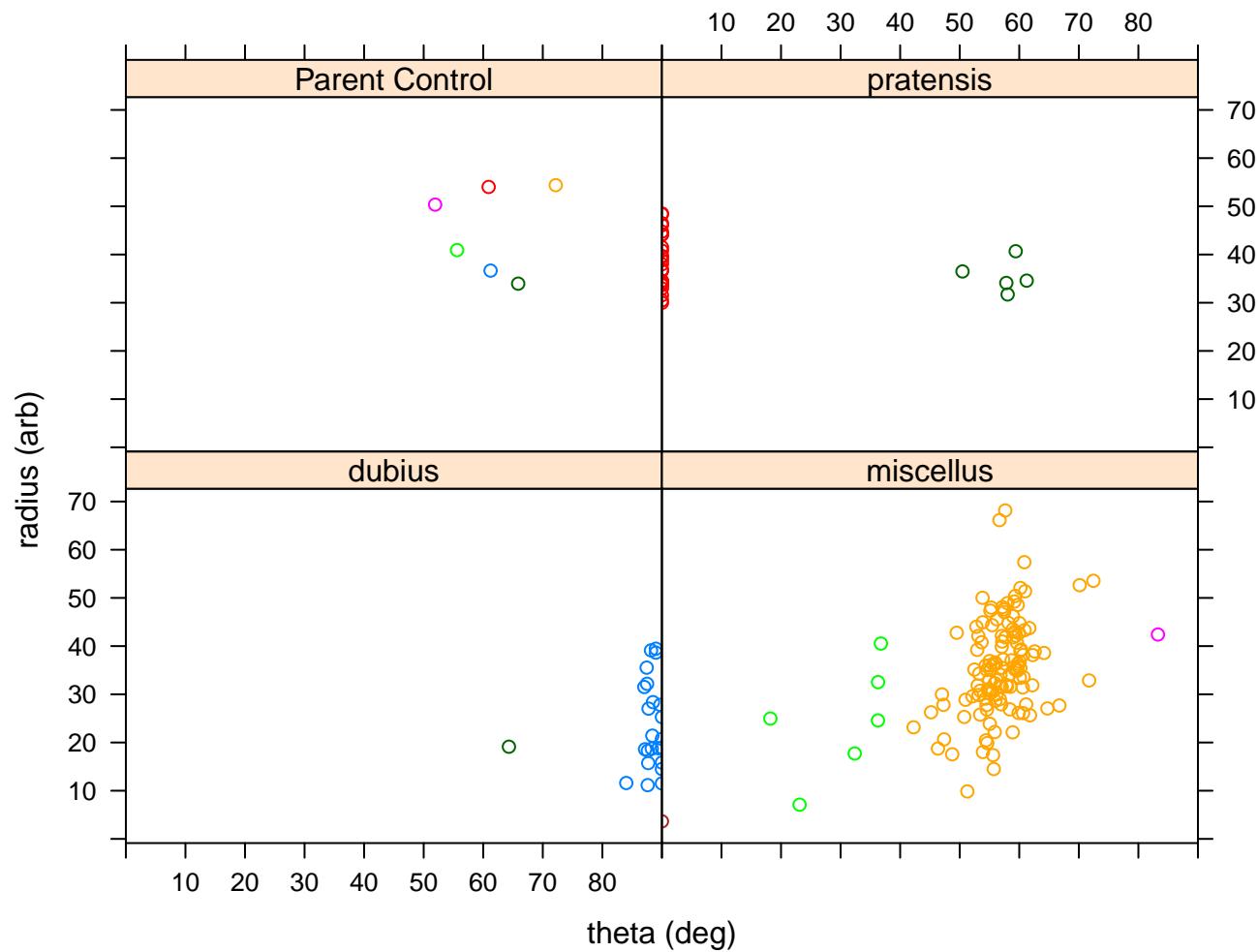
theta (deg)

radius (arb)

V_2_5_isotig15247_461 cDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
No_Alleles	○		



V_2_5_isotig15265_522 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

100
90
80
70
60
50
40
30
20

dubius

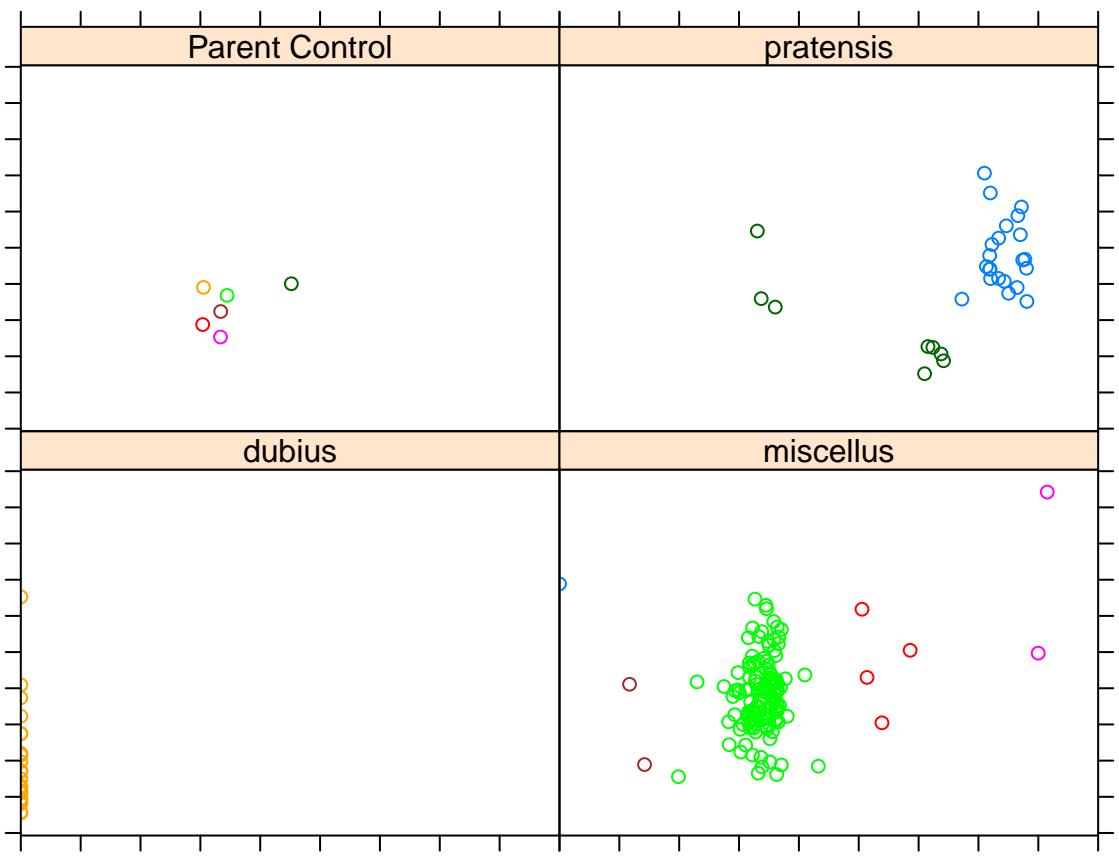
miscellus

radius (arb)

100
90
80
70
60
50
40
30
20

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig15265_522 cDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

120
110
100
90
80
70
60
50
40
30
20

dubius

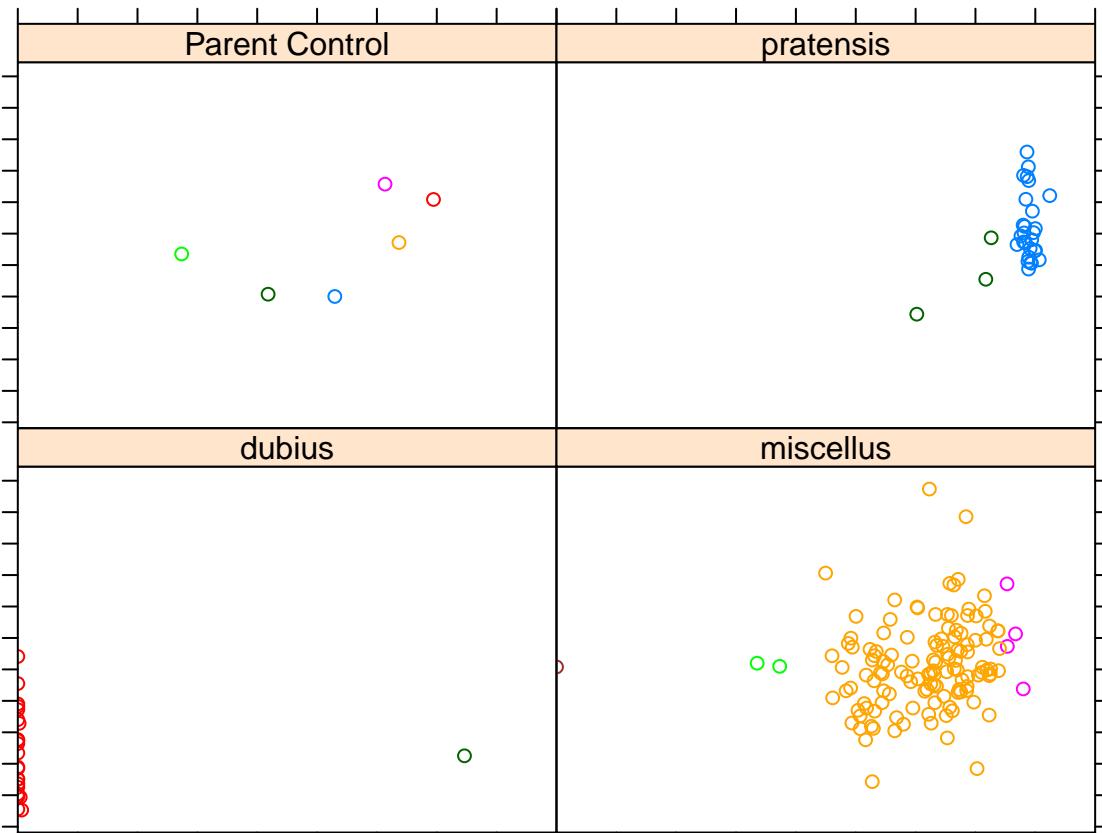
miscellus

120
110
100
90
80
70
60
50
40
30
20

radius (arb)

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig15281_153 cDNA

Call

Bad_Spectrum	○	LLLH	○
HH	○	LLLL	○
HHHH	○	No_Alleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

110
100
90
80
70
60
50
40
30
20
10
0

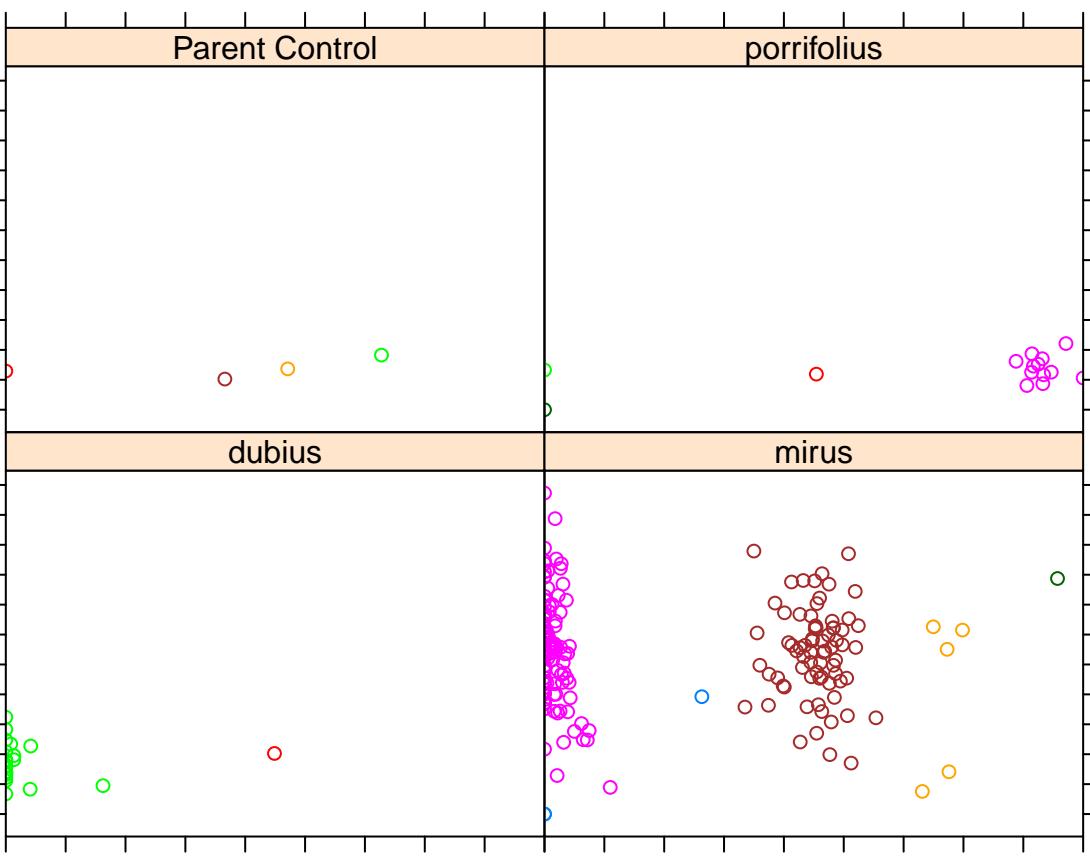
dubius

mirus

110
100
90
80
70
60
50
40
30
20
10
0

radius (arb)

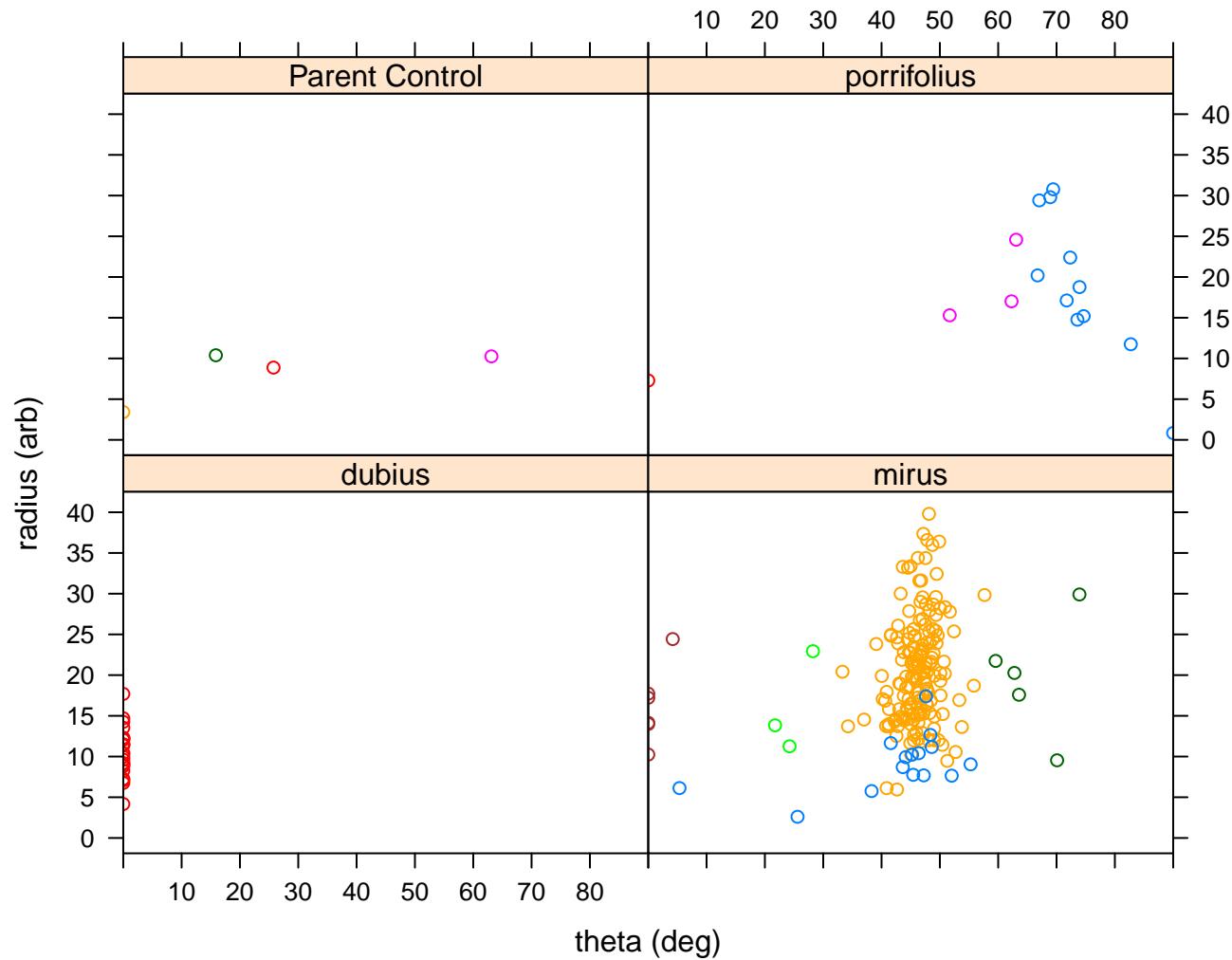
theta (deg)



V_2_5_isotig15281_297 gDNA

Call

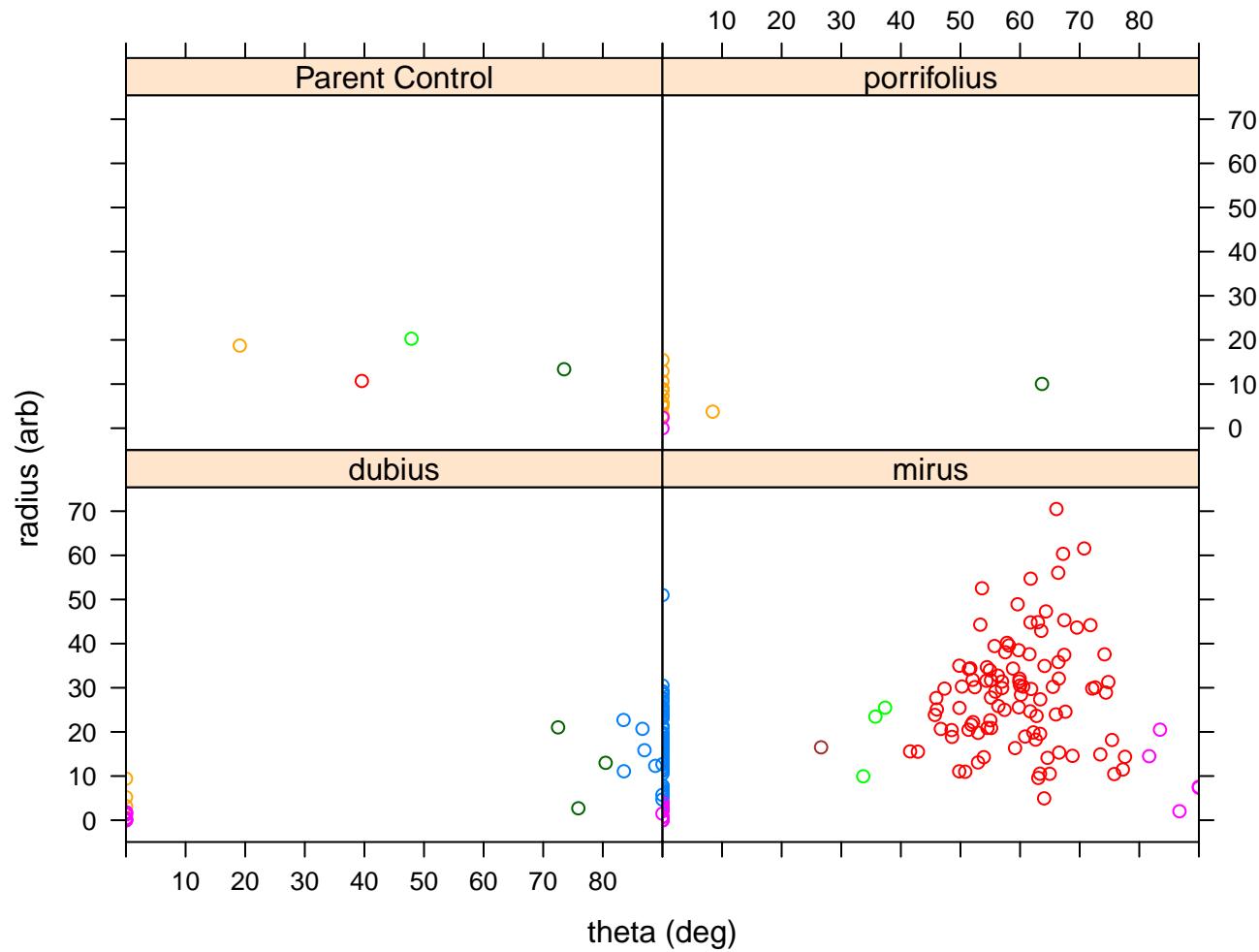
HH	○	LLLL	○
LH	○	No_Aleles	○
LHHH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○



V_2_5_isotig15293_327 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		○



V_2_5_isotig15293_432 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

200
180
160
140
120
100
80
60
40
20

radius (arb)

dubius

mirus

200
180
160
140
120
100
80
60
40
20

10 20 30 40 50 60 70 80

theta (deg)

200
180
160
140
120
100
80
60
40
20

V_2_5_isotig15293_432 cDNA

Call

HH	○	LLLL	○
HHHH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

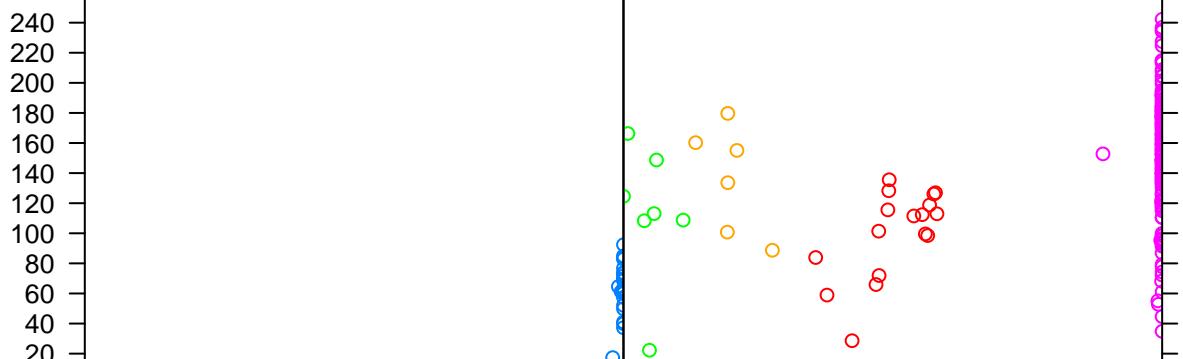
Parent Control

porrifolius

240
220
200
180
160
140
120
100
80
60
40
20

dubius

mirus



V_2_5_isotig15318_283 gDNA

Call

Bad_Spectrum
HH
LH
LHHH
LL
LLHH
LLLH

PM3_1_1
PM3_1_2
PM3_2_1
PM4
PM5
PM6

10 20 30 40 50 60 70 80

Parent Control

pratensis

110
100
90
80
70
60
50
40
30
20
10
0

dubius

miscellus

110
100
90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)

radius (arb)

V_2_5_isotig15318_283 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

110
100
90
80
70
60
50
40
30
20
10
0

dubius

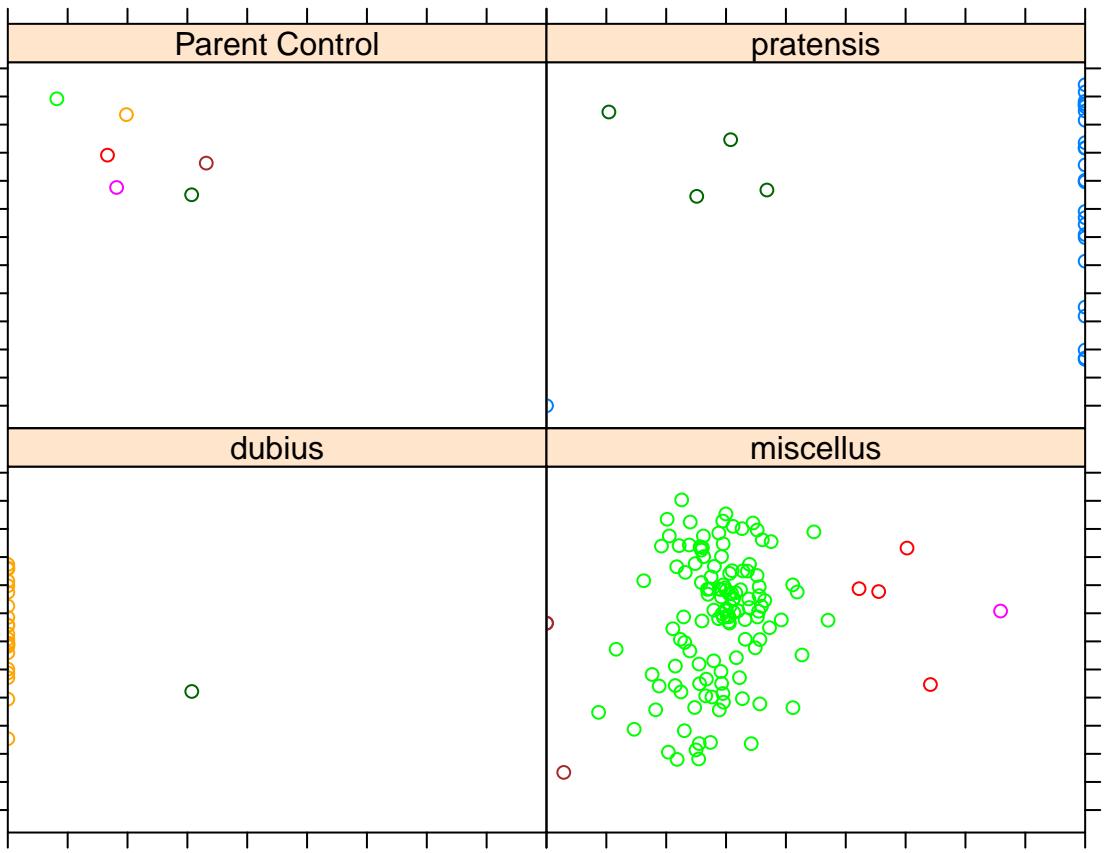
miscellus

110
100
90
80
70
60
50
40
30
20
10
0

radius (arb)

10 20 30 40 50 60 70 80

theta (deg)

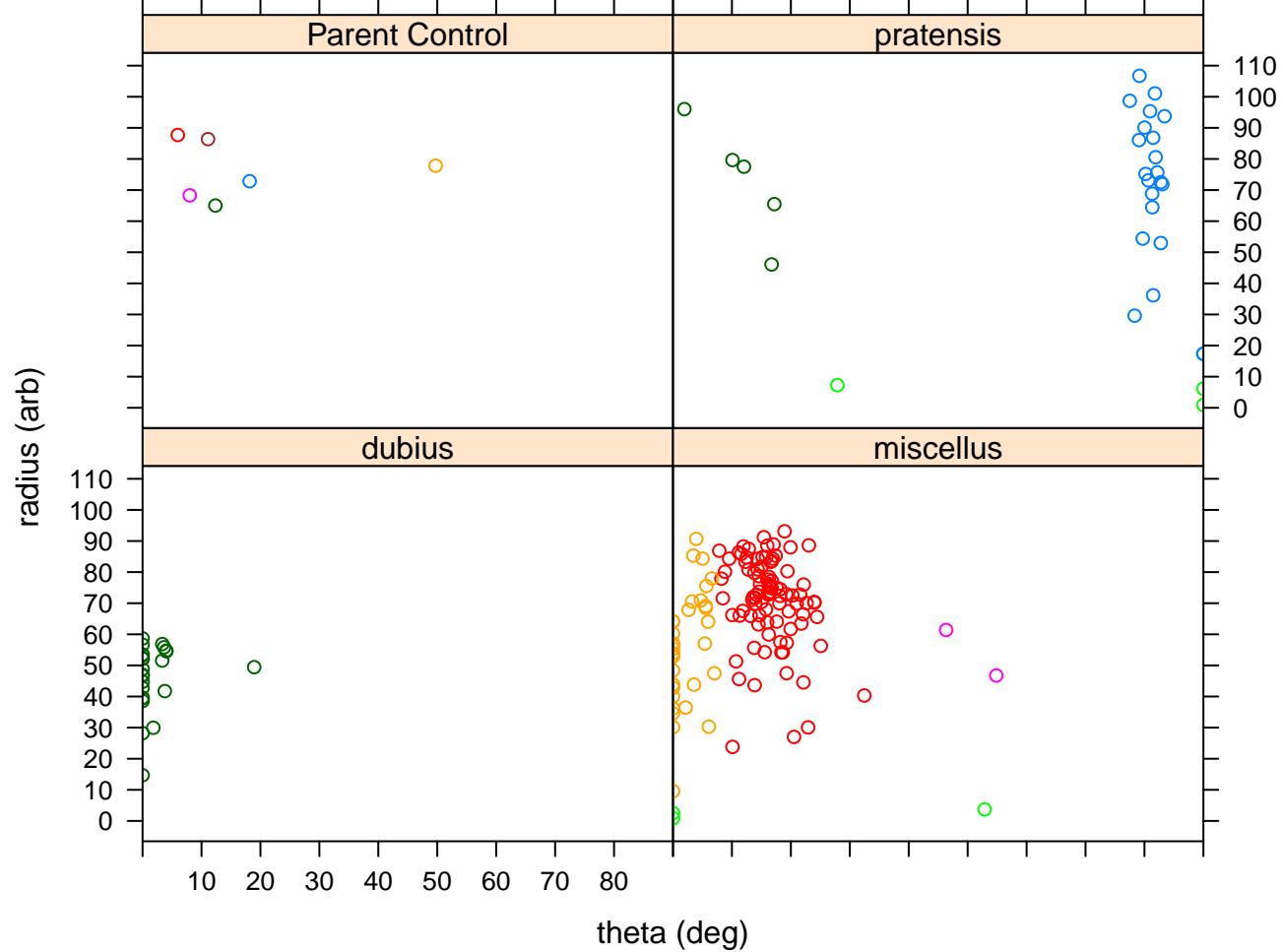


V_2_5_isotig15344_255 cDNA

Call

HH	○	PM3_1_1	○
LHHH	○	PM3_1_2	○
LL	○	PM3_2_1	○
LLHH	○	PM4	○
LLLL	○	PM5	○
No_Aleles	○	PM6	○

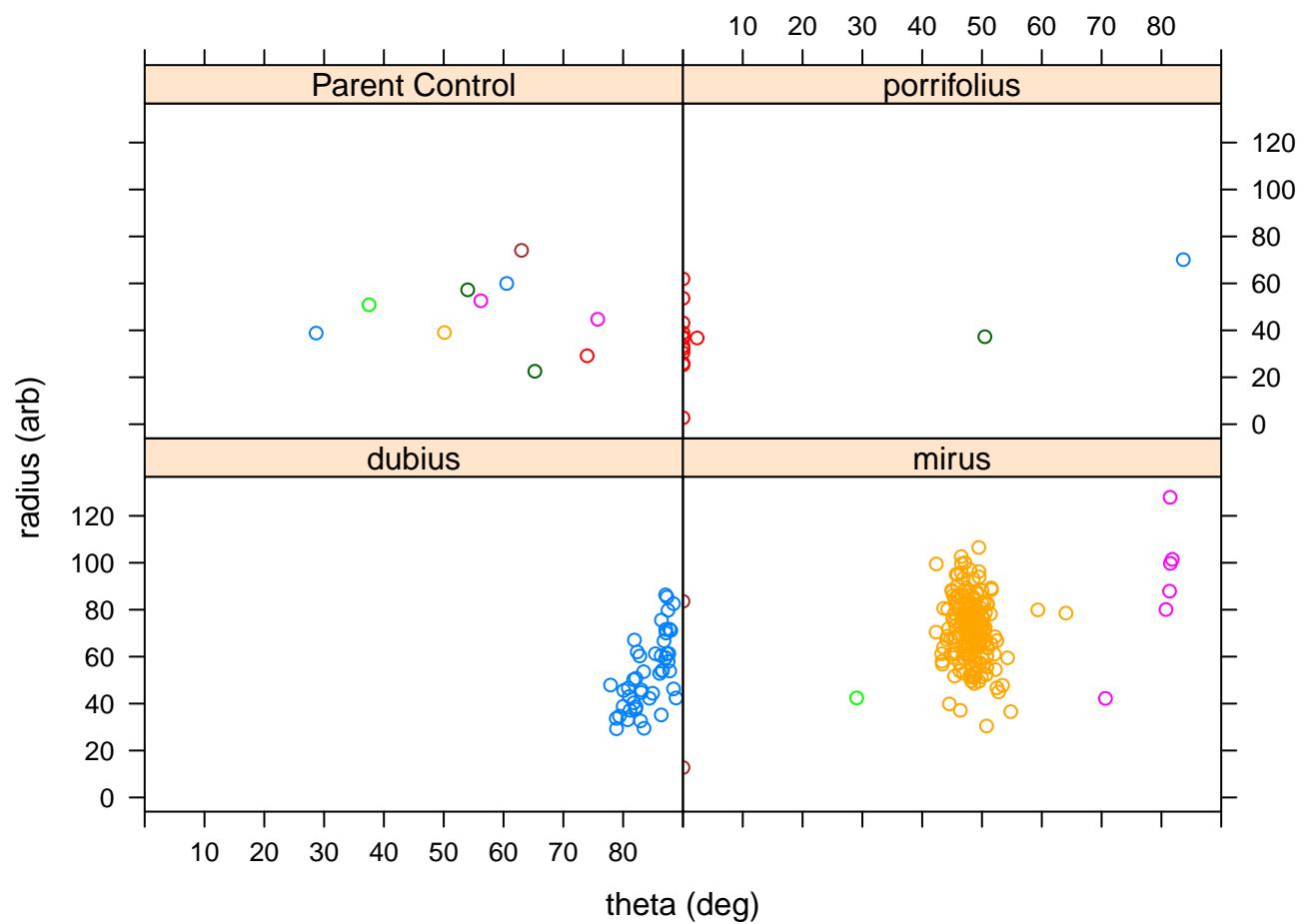
10 20 30 40 50 60 70 80



V_2_5_isotig15344_304 gDNA

Call

HH	○	PM2_1_2	○
HHHH	○	PM2_2_1	○
LH	○	PM3_1_1	○
LL	○	PM3_1_2	○
LLHH	○	PM3_2_1	○
LLLH	○	PM4	○
LLLL	○	PM5	○
PM1	○	PM6	○
PM2_1_1	○		



V_2_5_isotig15344_304 gDNA

Call

HH	○	PM2_1_2	○
HHHH	○	PM2_2_1	○
LH	○	PM3_1_1	○
LL	○	PM3_1_2	○
LLHH	○	PM3_2_1	○
LLLH	○	PM4	○
PM1	○	PM5	○
PM2_1_1	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

120
110
100
90
80
70
60
50
40
30
20

dubius

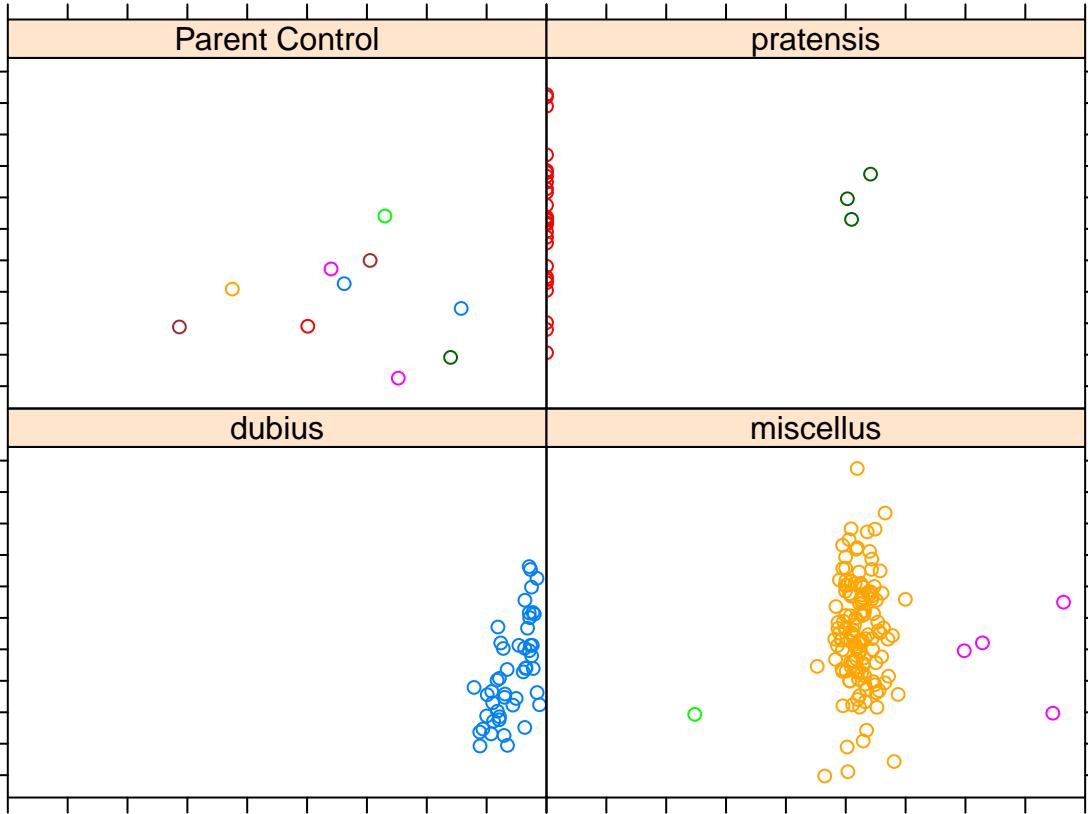
miscellus

radius (arb)

120
110
100
90
80
70
60
50
40
30
20

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig15344_304 cDNA

Call

HH	○	PM2_1_1	○
HHHH	○	PM2_1_2	○
LH	○	PM2_2_1	○
LL	○	PM3_1_1	○
LLHH	○	PM3_1_2	○
LLLH	○	PM3_2_1	○
LLLL	○	PM4	○
No_Aleles	○	PM5	○
PM1	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

radius (arb)

140
120
100
80
60
40
20
0

dubius

mirus

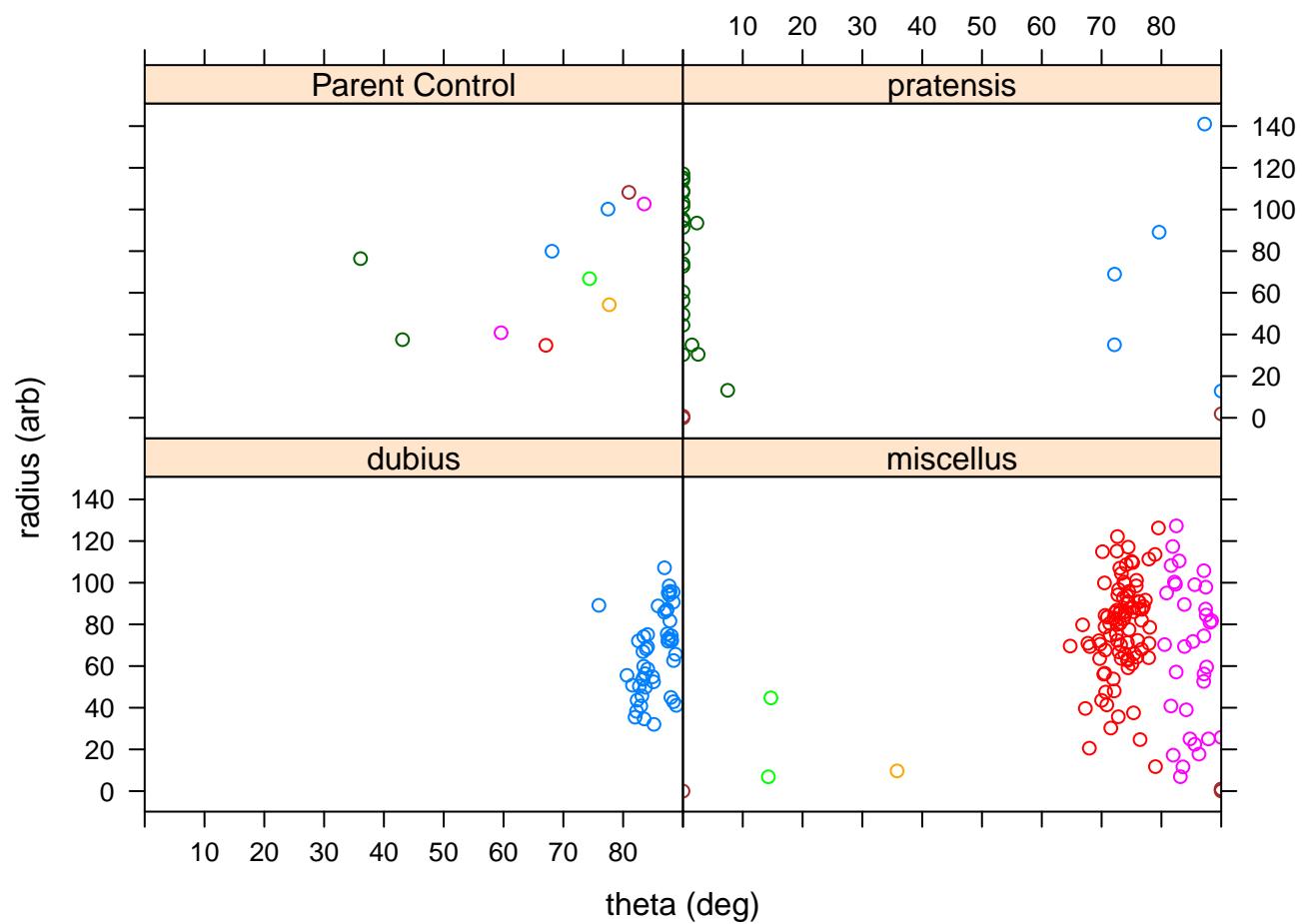
10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig15344_304 cDNA

Call

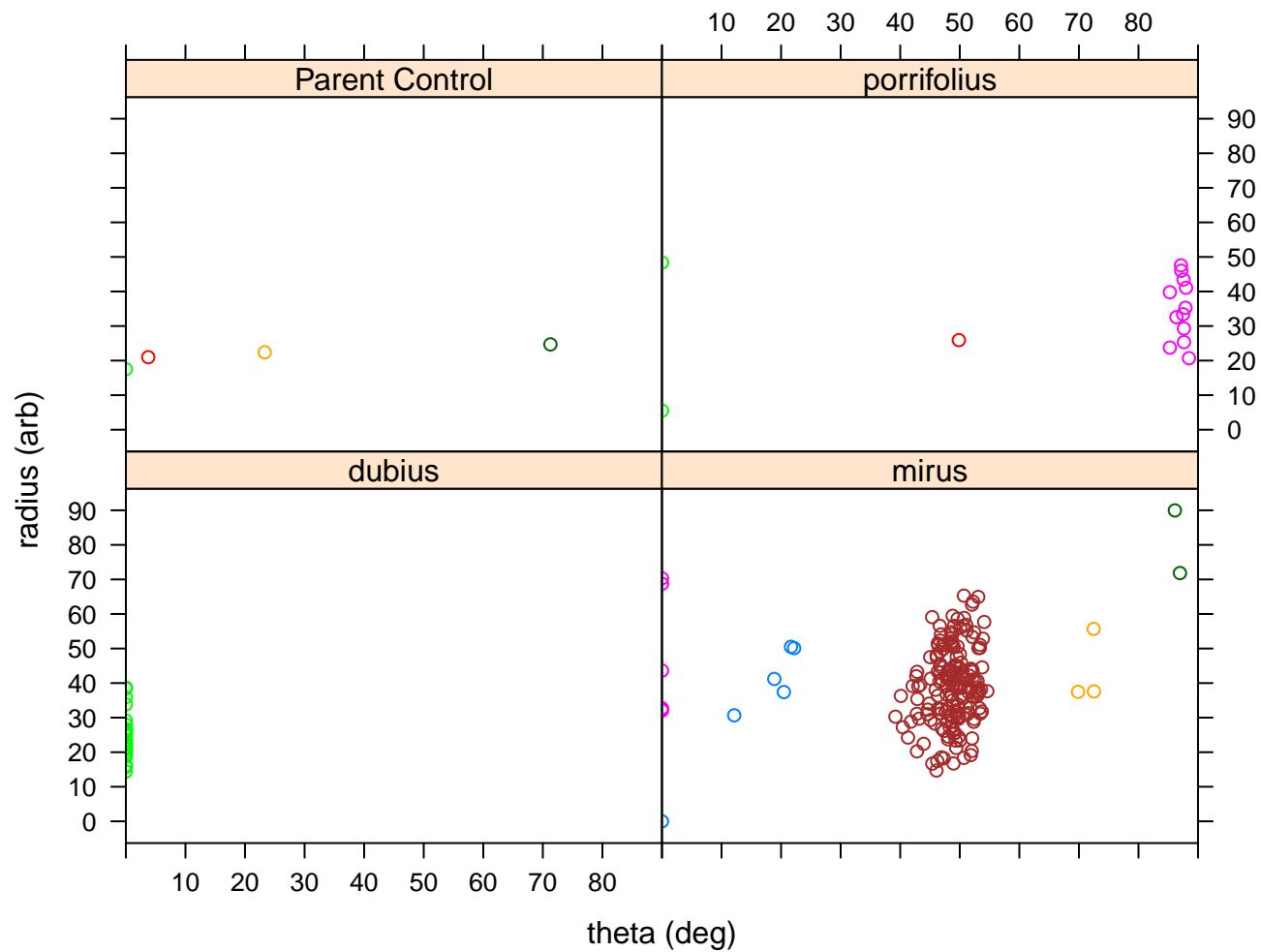
HH	○	PM2_1_2	○
HHHH	○	PM2_2_1	○
LL	○	PM3_1_1	○
LLHH	○	PM3_1_2	○
LLLH	○	PM3_2_1	○
LLLL	○	PM4	○
No_Alleles	○	PM5	○
PM1	○	PM6	○
PM2_1_1	○		



V_2_5_isotig15478_154 gDNA

Call

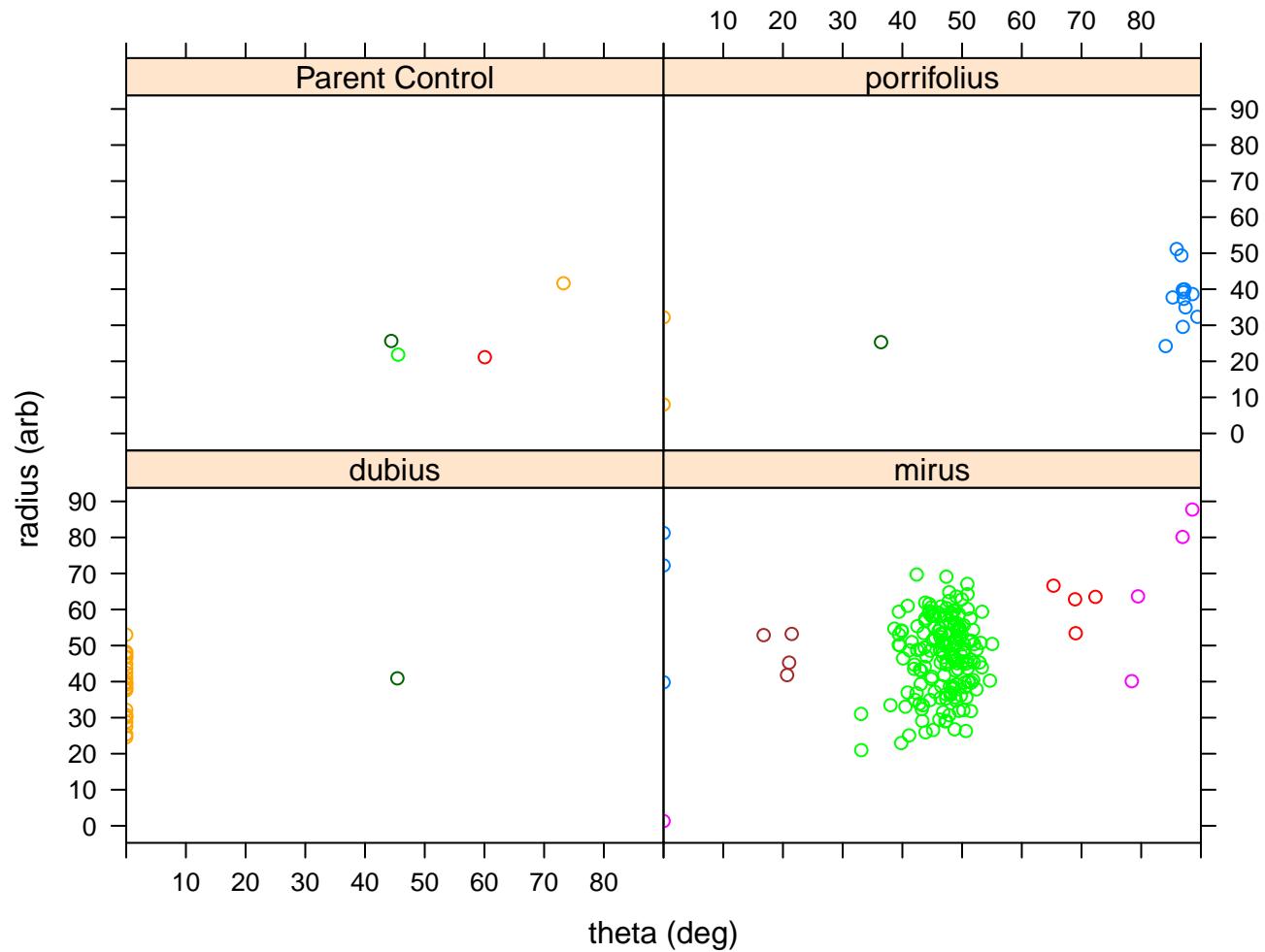
Bad_Spectrum	LLLH	Bad_Spectrum	LLLH
HH	LLLL	HH	LLLL
HHHH	PM1	HHHH	PM1
LH	PM2_1_1	LH	PM2_1_1
LHHH	PM2_1_2	LHHH	PM2_1_2
LL	PM2_2_1	LL	PM2_2_1
LLHH		LLHH	



V_2_5_isotig15478_154 cDNA

Call

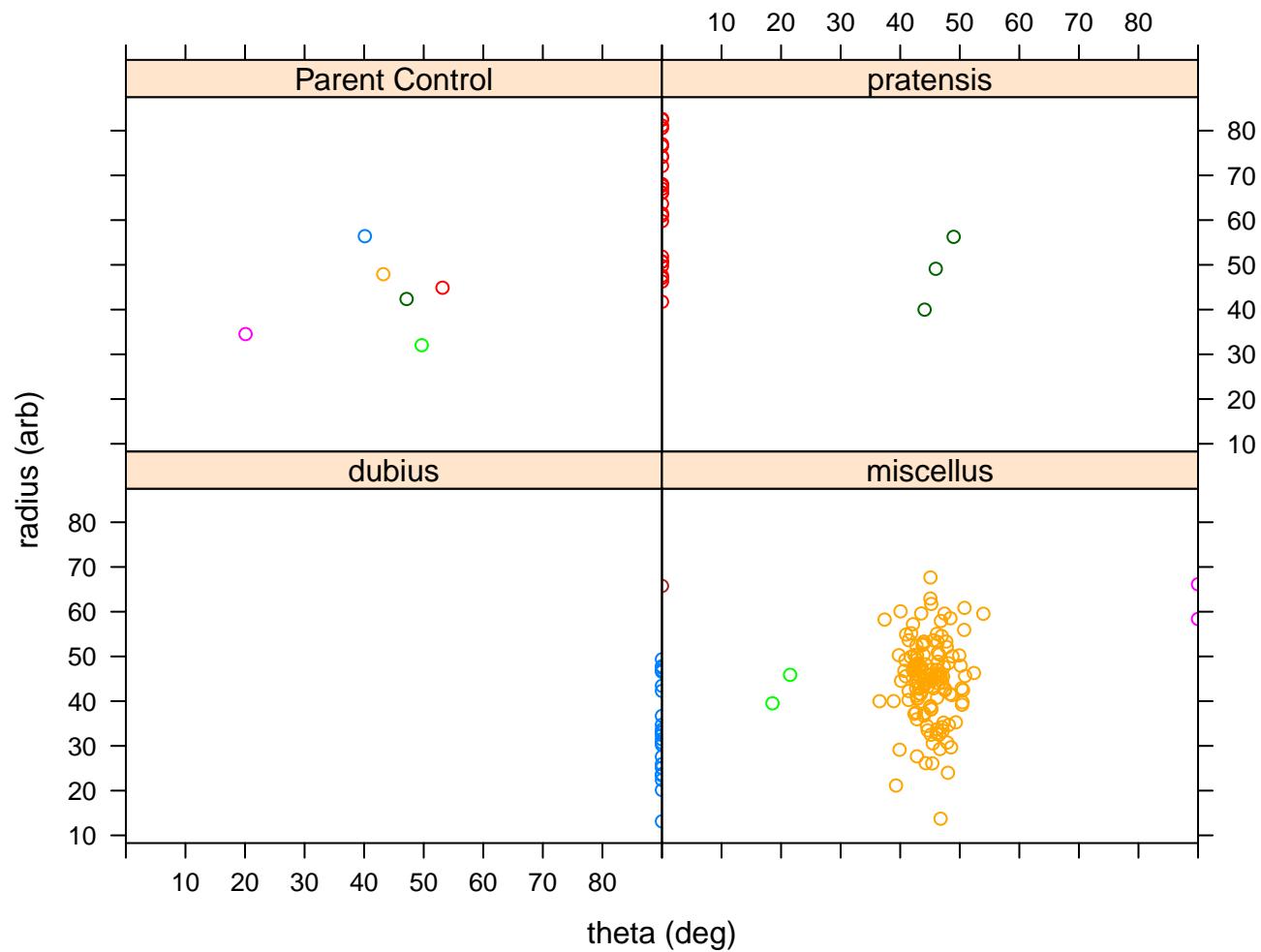
HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig15493_211 gDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		



V_2_5_isotig15493_211 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

90
80
70
60
50
40
30
20
10
0

dubius

miscellus

radius (arb)

90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig15499_135 gDNA

Call

HH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
PM3_1_1	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

radius (arb)

120
100
80
60
40
20
0

dubius

miscellus

120
100
80
60
40
20
0

10 20 30 40 50 60 70 80

theta (deg)

0 20 40 60 80 100 120

V_2_5_isotig15499_135 cDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

radius (arb)

140
120
100
80
60
40
20

dubius

miscellus

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig15499_336 gDNA

Call

HH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
PM3_1_1	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

100
90
80
70
60
50
40
30
20

dubius

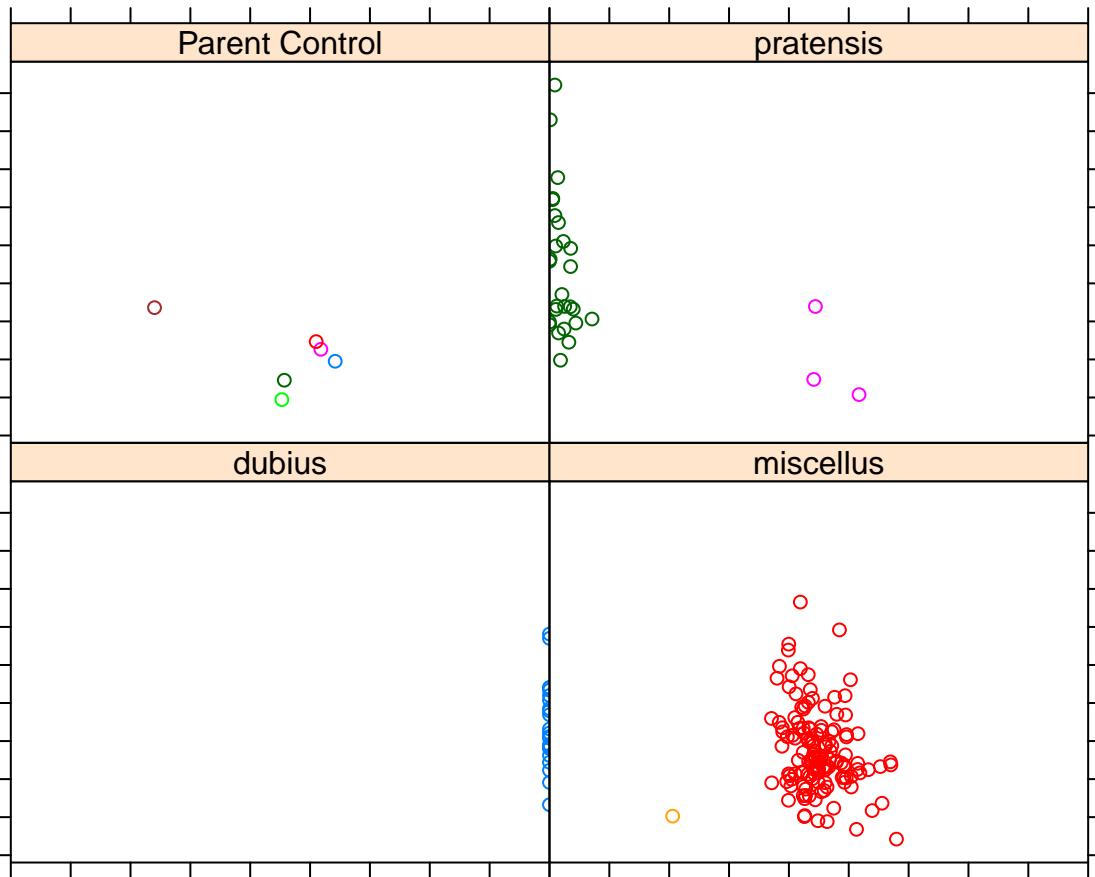
miscellus

100
90
80
70
60
50
40
30
20

10 20 30 40 50 60 70 80

theta (deg)

radius (arb)



V_2_5_isotig15499_336 cDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

100
90
80
70
60
50
40
30
20
10

radius (arb)

dubius

miscellus

100
90
80
70
60
50
40
30
20
10

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig15502_358 cDNA

Call

Bad_Spectrum	LLLL
HH	No_Alleles
HHHH	PM3_1_1
LH	PM3_1_2
LHHH	PM3_2_1
LL	PM4
LLHH	PM5
LLLH	PM6

10 20 30 40 50 60 70 80

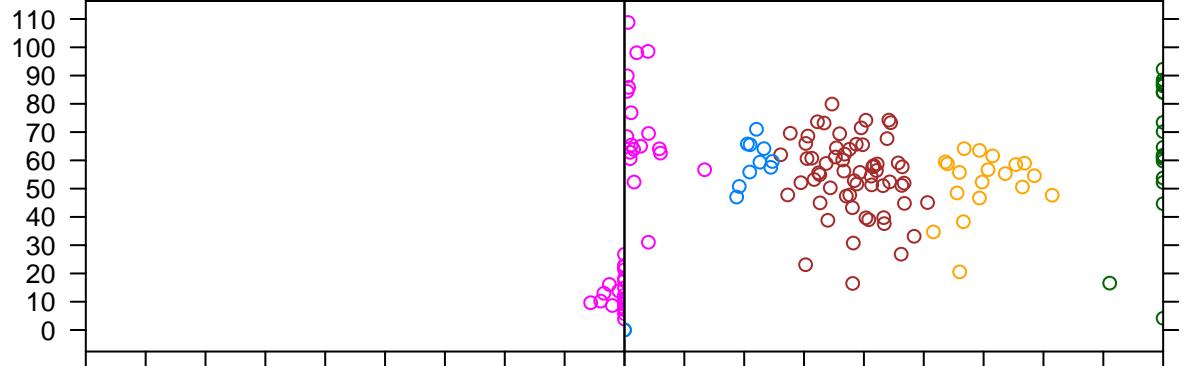
Parent Control

pratensis

110
100
90
80
70
60
50
40
30
20
10
0

dubius

miscellus



theta (deg)

V_2_5_isotig15573_334 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		

10 20 30 40 50 60 70 80

Parent Control

porrifolius

90
80
70
60
50
40
30
20
10
0

dubius

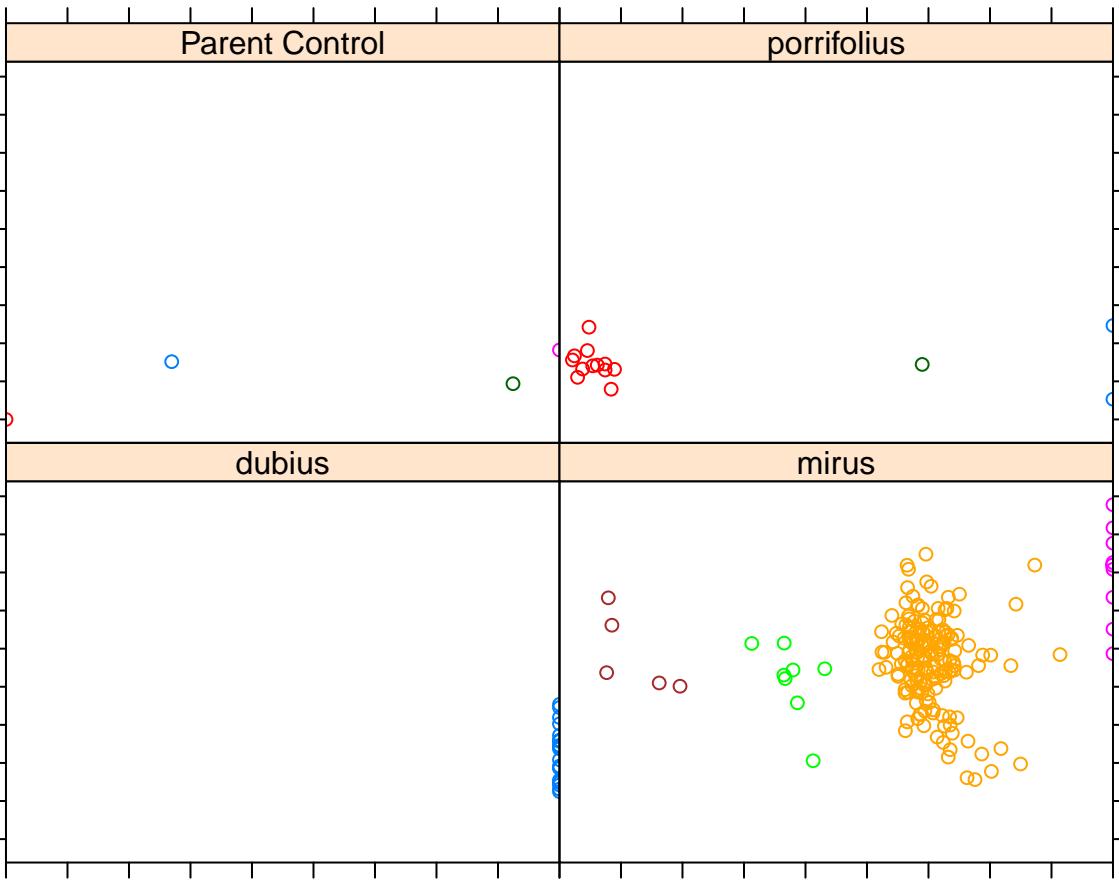
mirus

90
80
70
60
50
40
30
20
10
0

radius (arb)

10 20 30 40 50 60 70 80

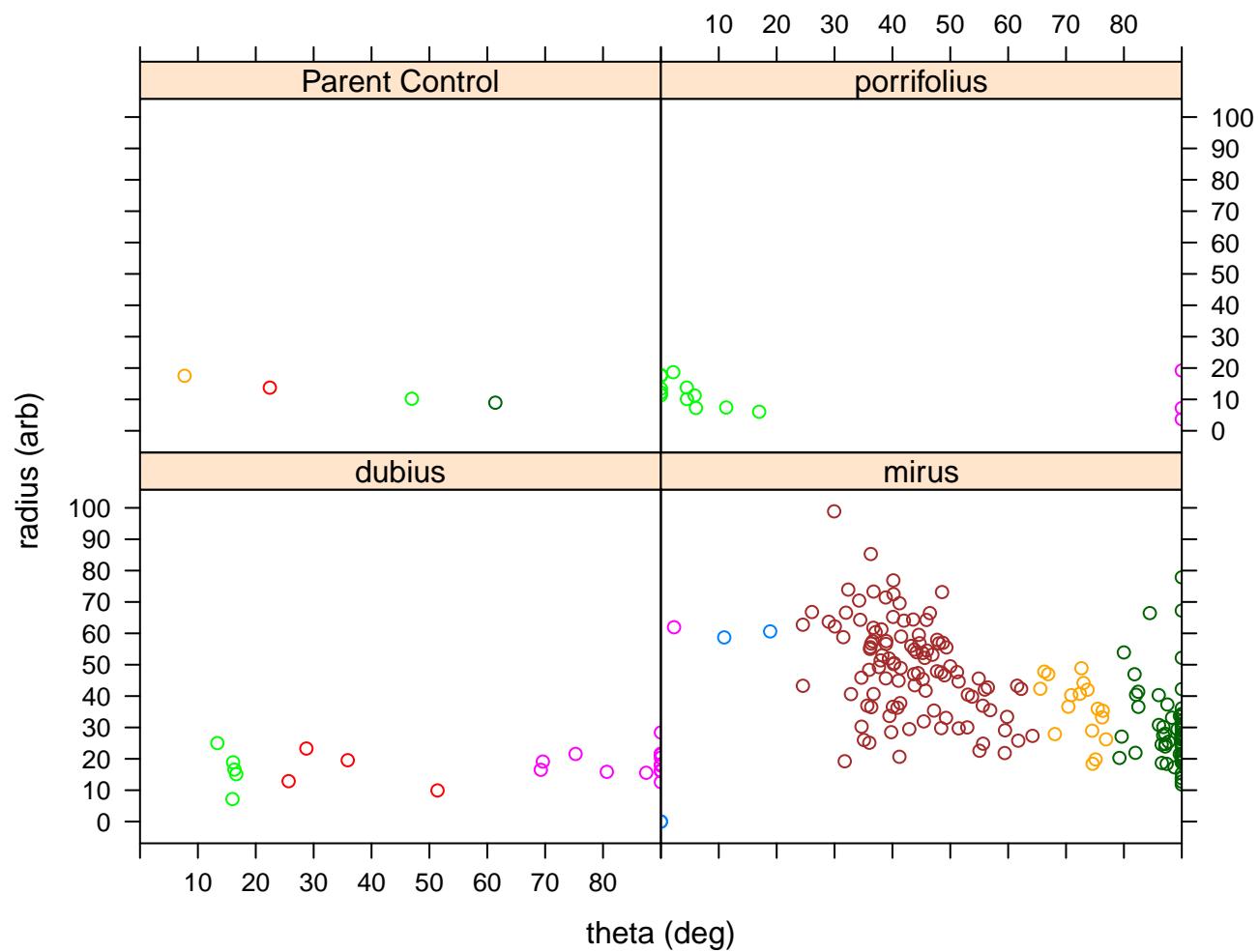
theta (deg)



V_2_5_isotig15573_334 cDNA

Call

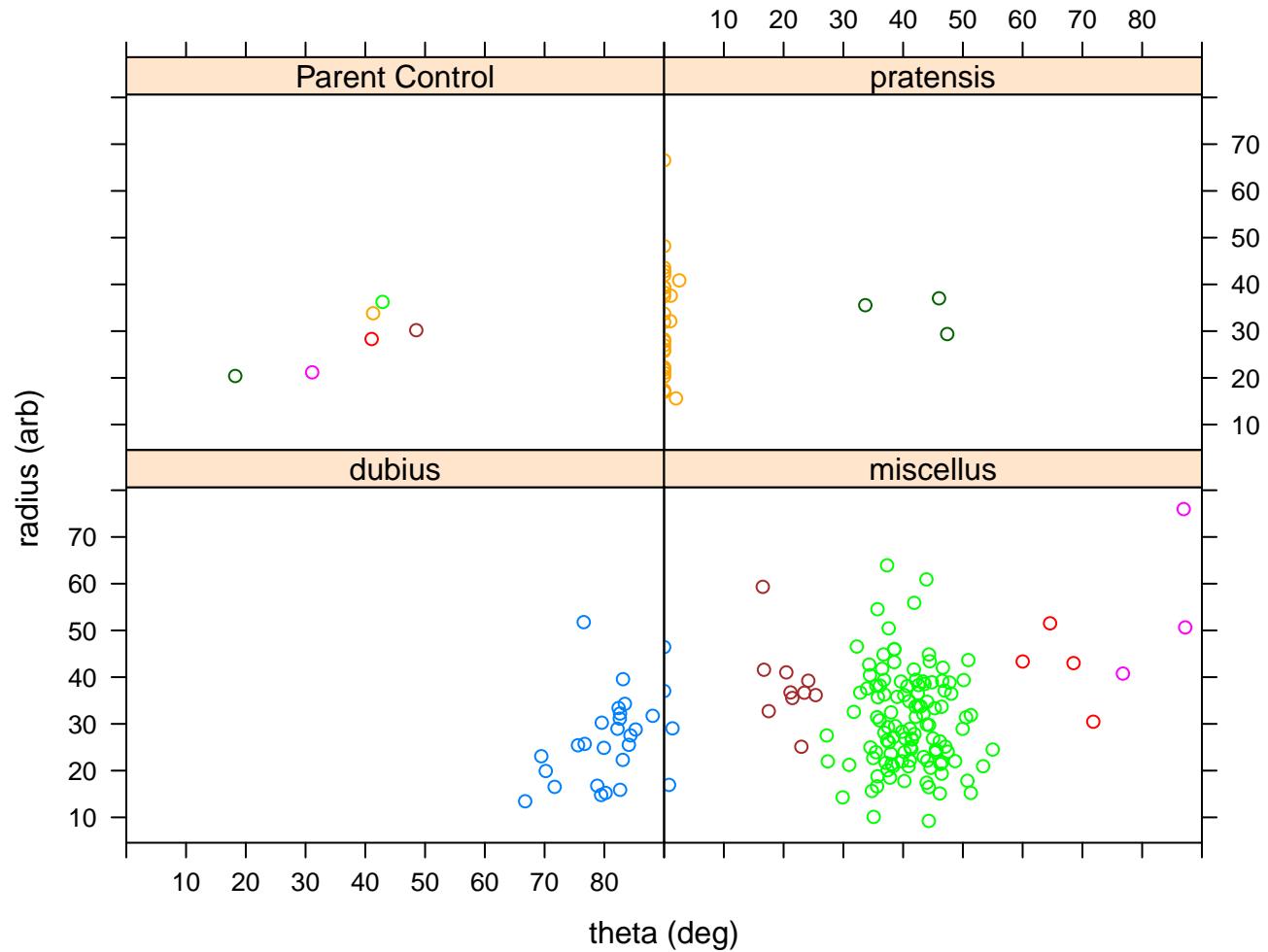
Bad_Spectrum	LLLH	LLLH
HH	LLLL	LLLL
HHHH	PM1	PM1
LH	PM2_1_1	PM2_1_1
LHHH	PM2_1_2	PM2_1_2
LL	PM2_2_1	PM2_2_1
LLHH		



V_2_5_isotig15599_103 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

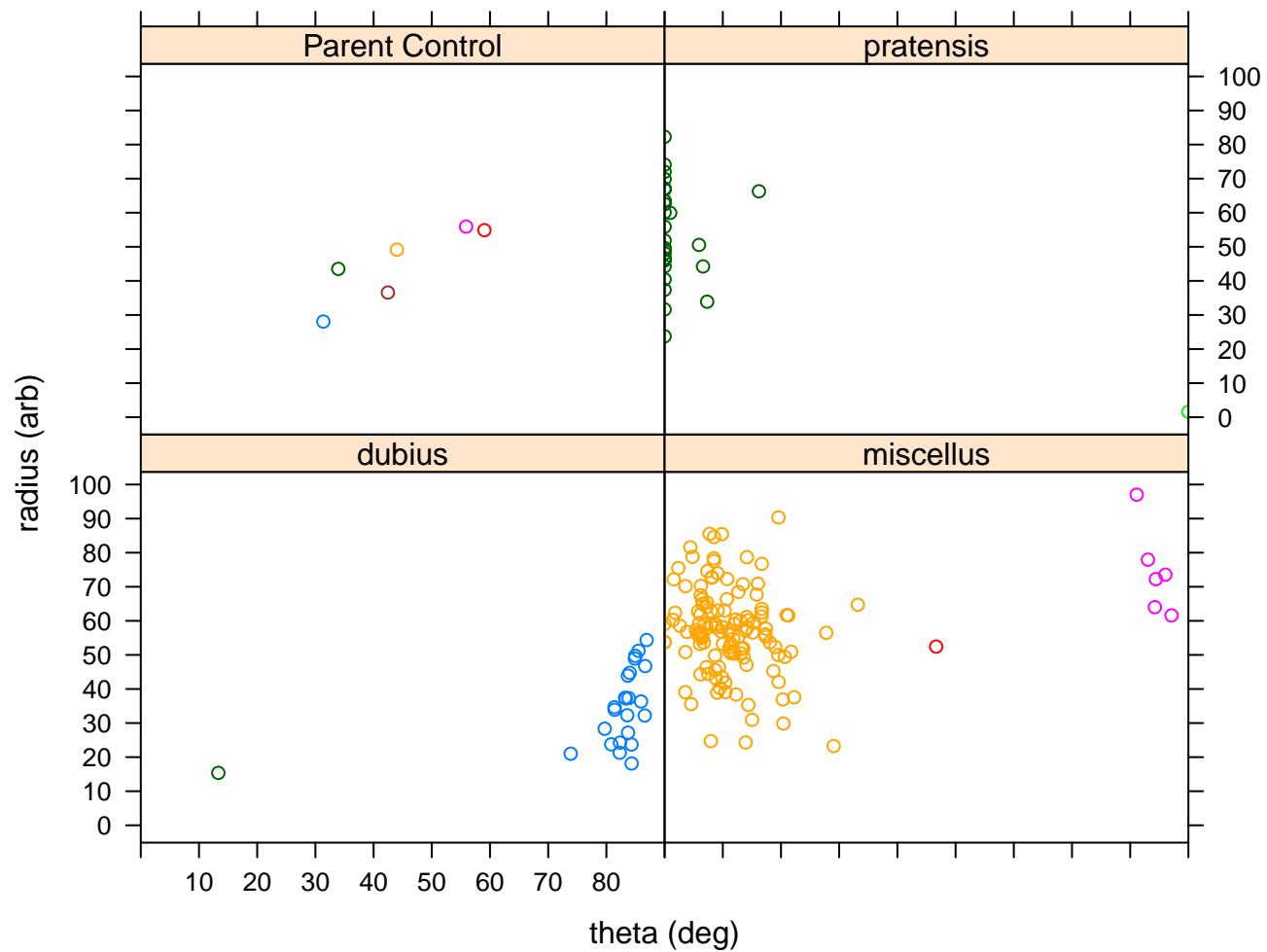


V_2_5_isotig15599_103 cDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LL	○	PM3_2_1	○
LLHH	○	PM4	○
LLLL	○	PM5	○
No_Alleles	○	PM6	○

10 20 30 40 50 60 70 80



V_2_5_isotig15626_394 gDNA

Call

HH	○	LLLH	○
HHHH	○	LLLL	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

radius (arb)

110
100
90
80
70
60
50
40
30
20
10

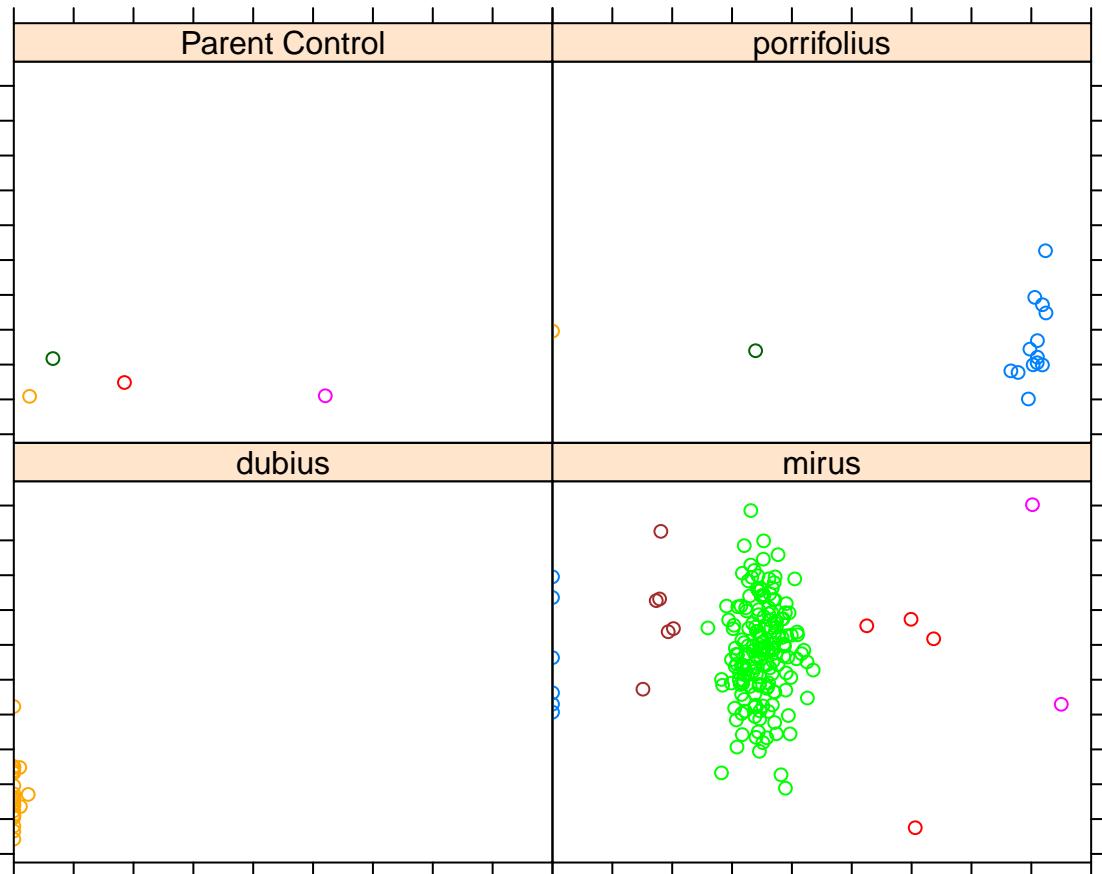
dubius

mirus

110
100
90
80
70
60
50
40
30
20
10

10 20 30 40 50 60 70 80

theta (deg)

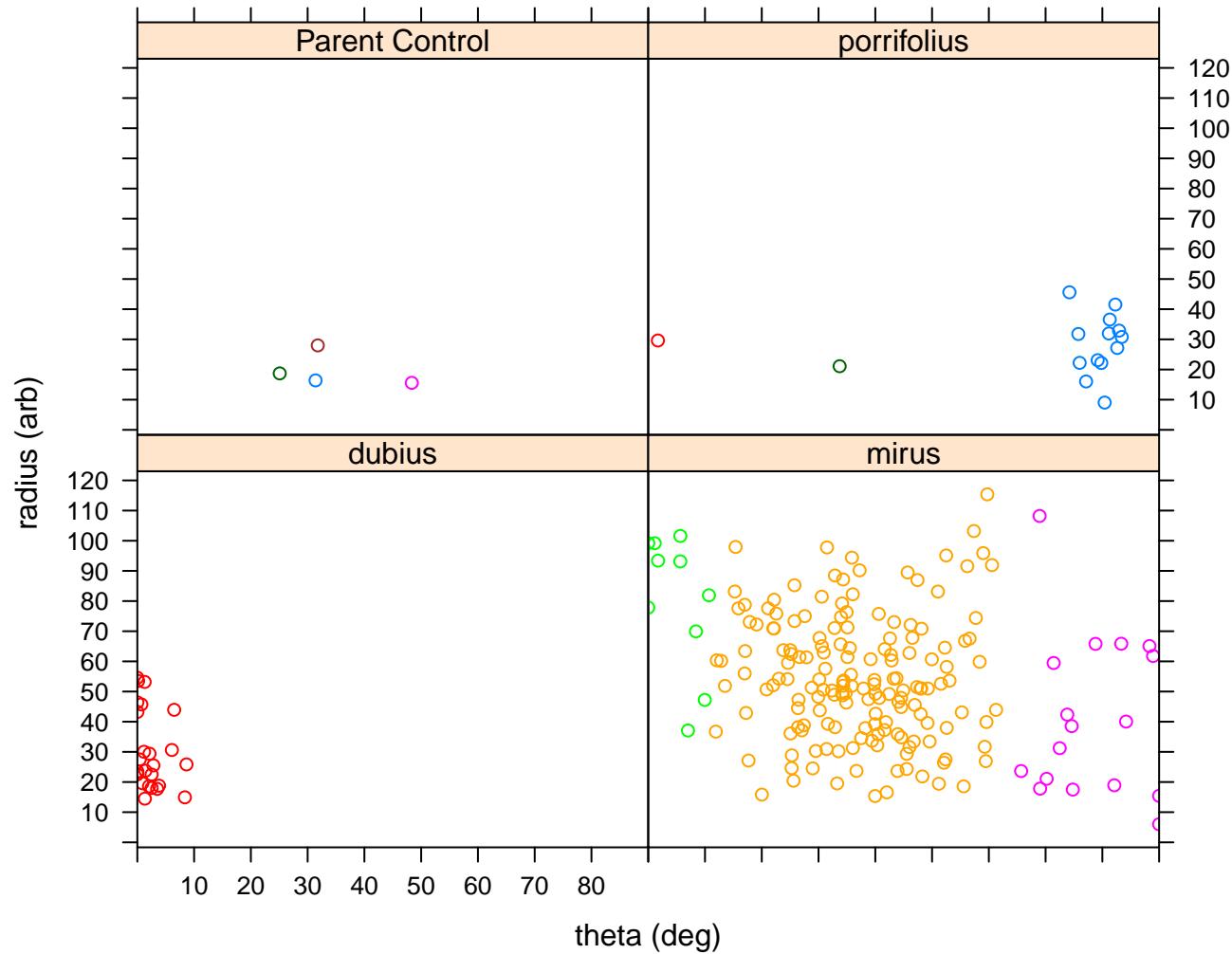


V_2_5_isotig15626_394 cDNA

Call

HH	○	LLLL	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

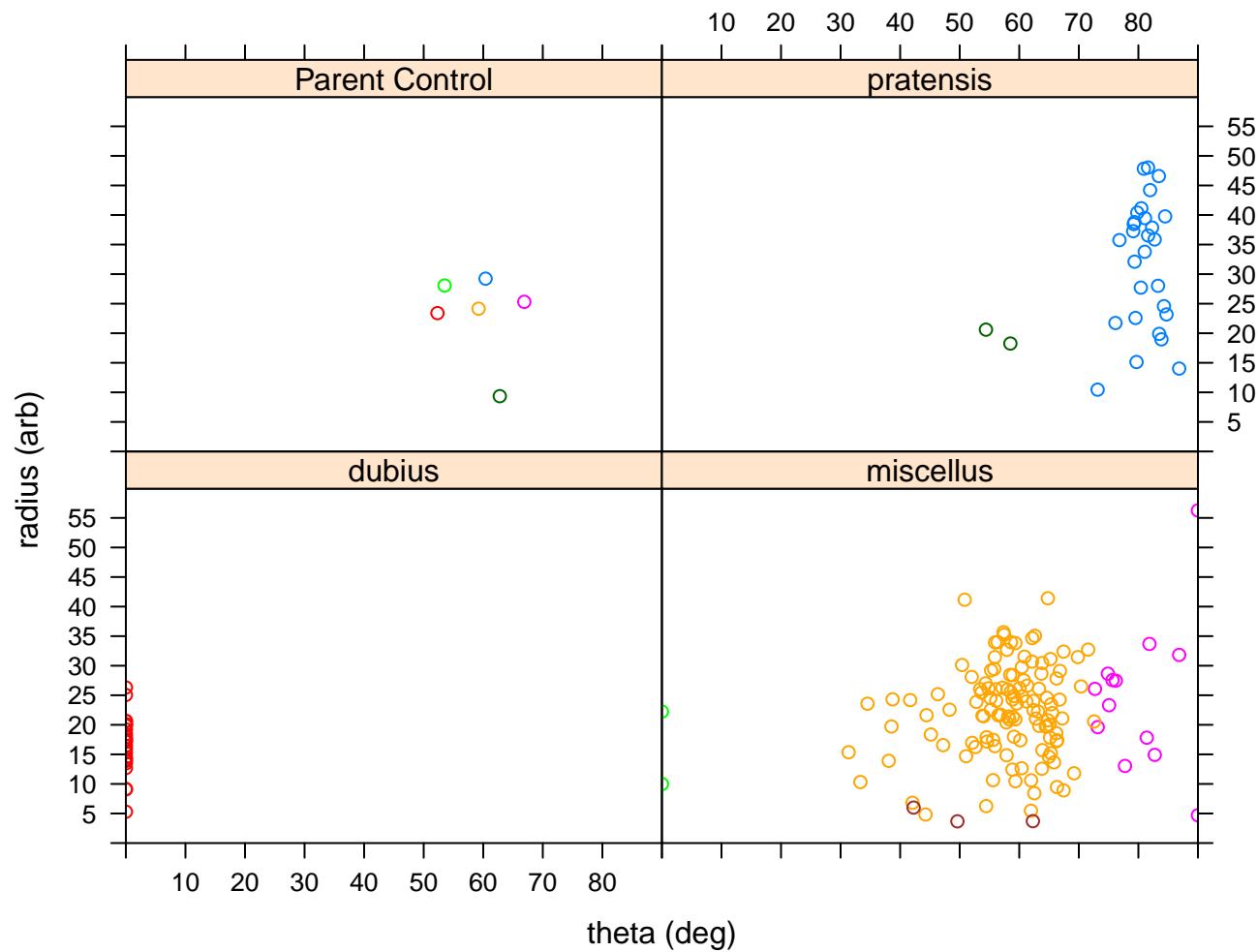
10 20 30 40 50 60 70 80



V_2_5_isotig15640_240 gDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○
No_Alleles	○		



V_2_5_isotig15640_240 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

radius (arb)

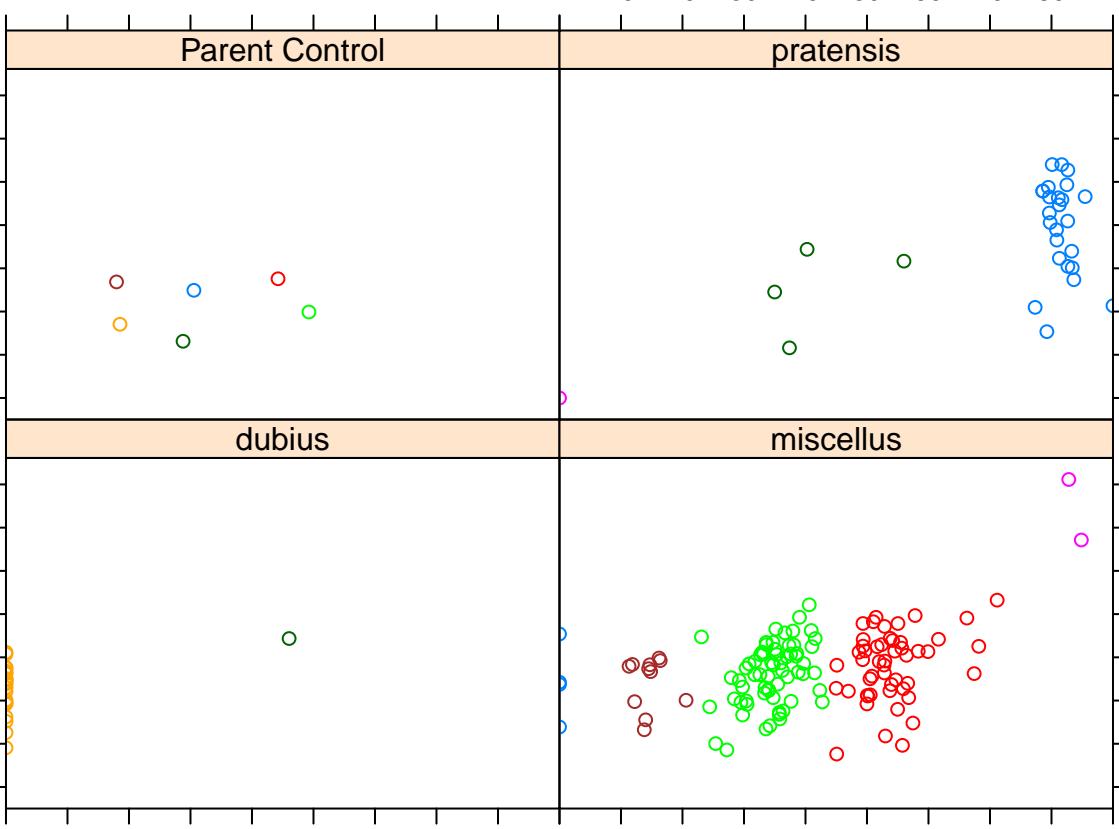
70
60
50
40
30
20
10
0

dubius

miscellus

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig15640_321 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LL	○	PM3_2_1	○
LLHH	○	PM4	○
LLLH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

radius (arb)

200
180
160
140
120
100
80
60
40
20
0

dubius

miscellus

200
180
160
140
120
100
80
60
40
20
0

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig15640_526 gDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LL	○	PM3_2_1	○
LLHH	○	PM4	○
LLLH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

radius (arb)

dubius

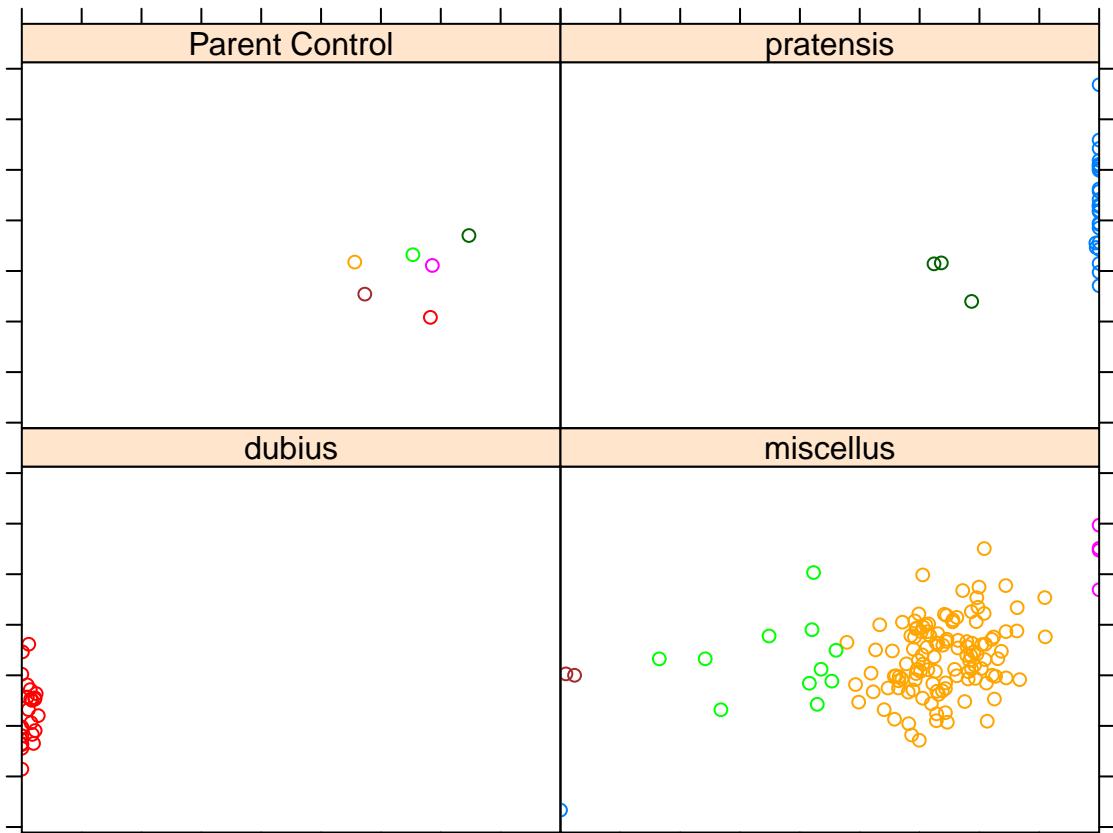
miscellus

120
100
80
60
40
20

120
100
80
60
40
20

10 20 30 40 50 60 70 80

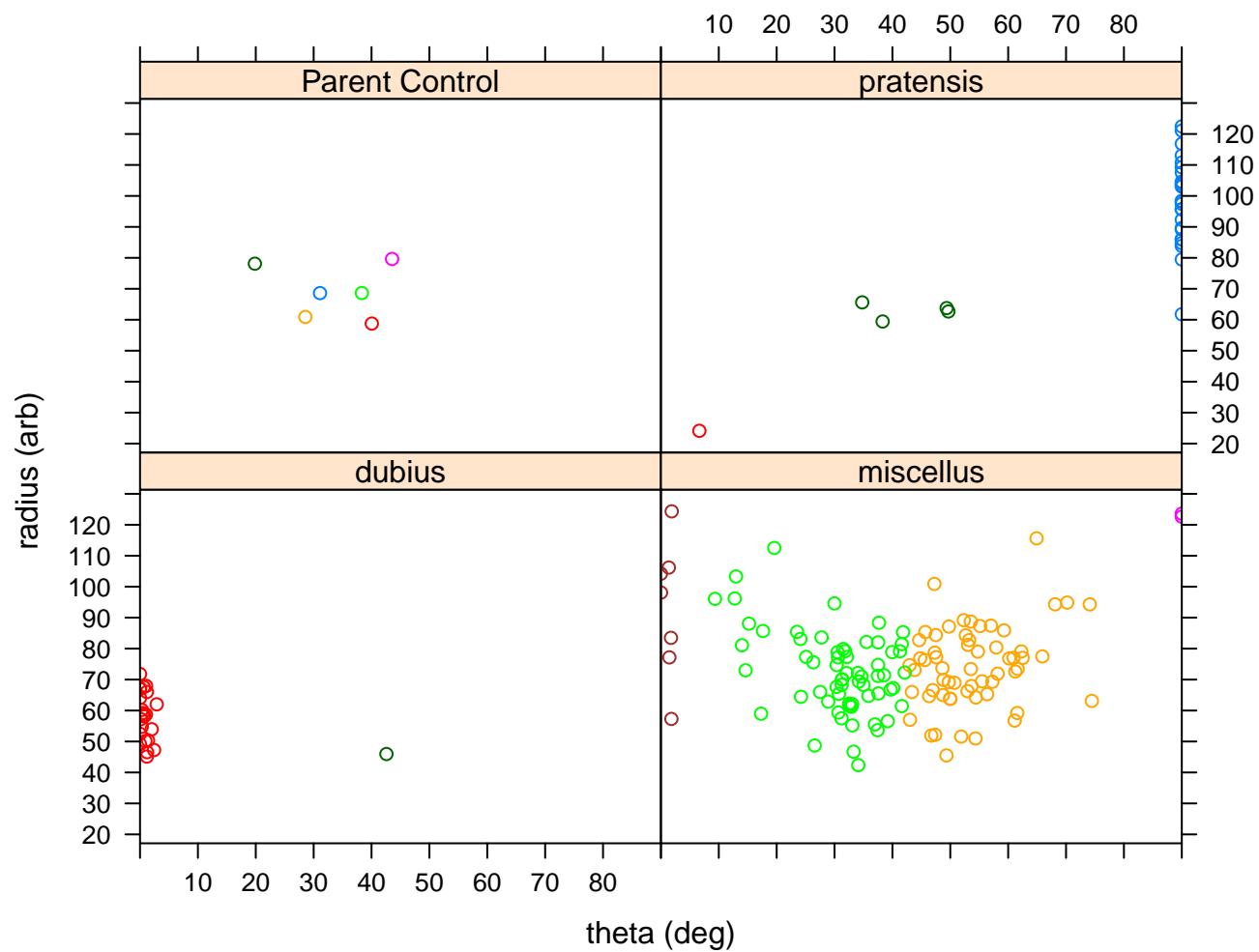
theta (deg)



V_2_5_isotig15640_526 cDNA

Call

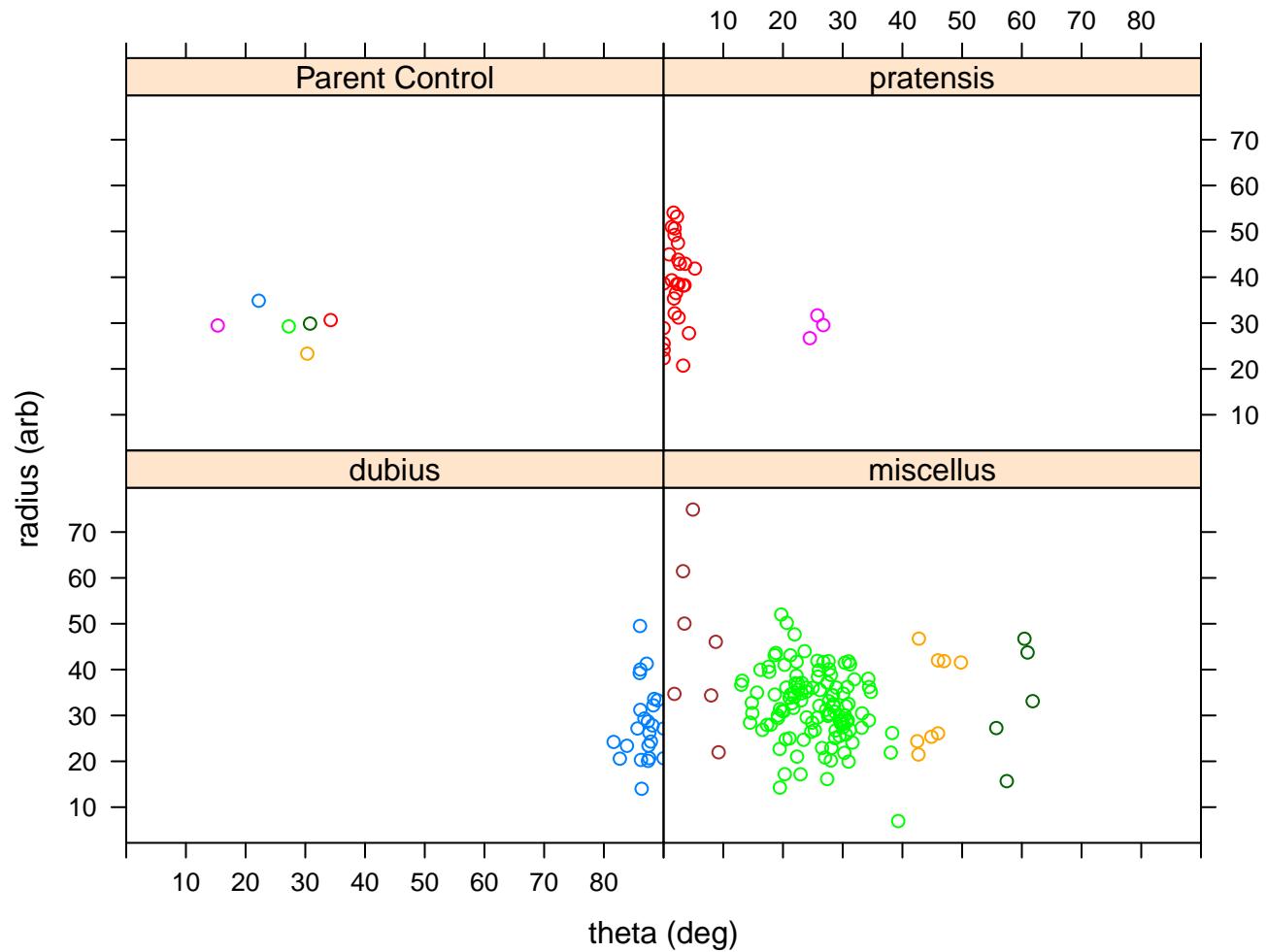
HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		



V_2_5_isotig15640_62 gDNA

Call

HH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		



V_2_5_isotig15640_62 cDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

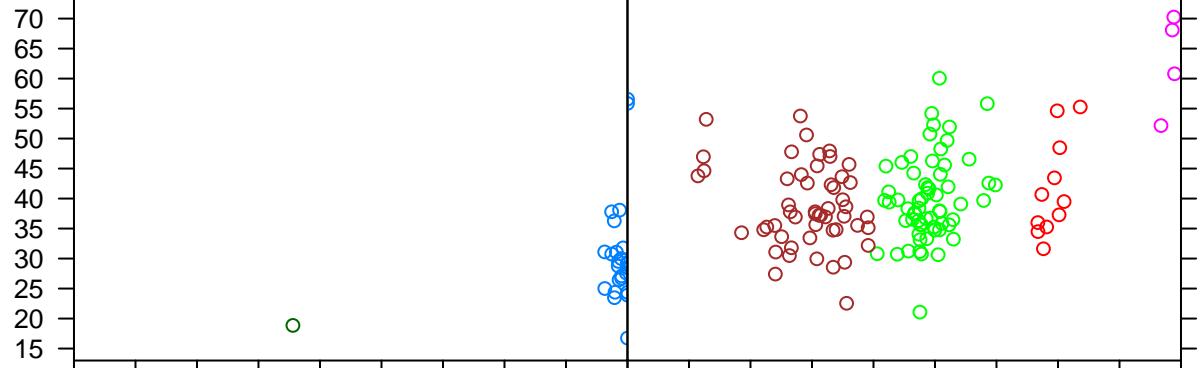
pratensis

70
65
60
55
50
45
40
35
30
25
20
15

radius (arb)

dubius

miscellus



theta (deg)

V_2_5_isotig15642_239 gDNA

Call

Bad_Spectrum	○	LLLH	○
HH	○	LLLL	○
HHHH	○	No_Alleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

90
80
70
60
50
40
30
20
10
0

dubius

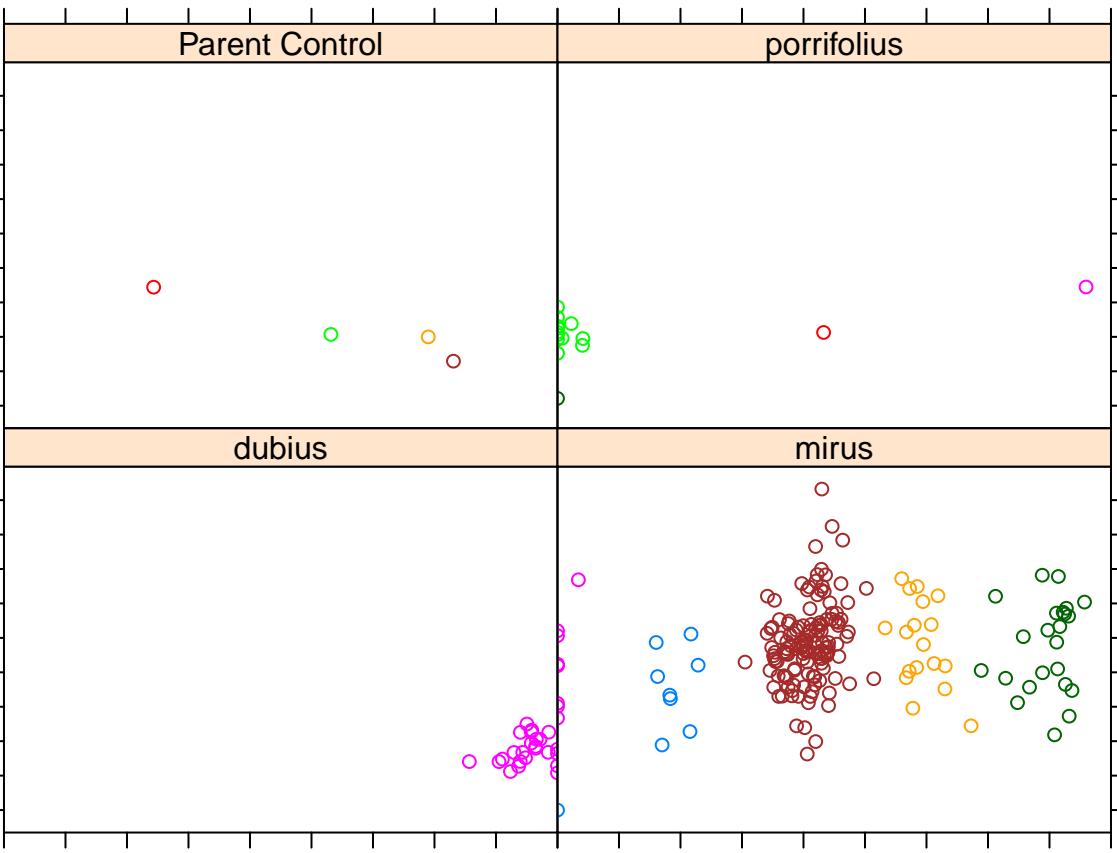
mirus

radius (arb)

90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

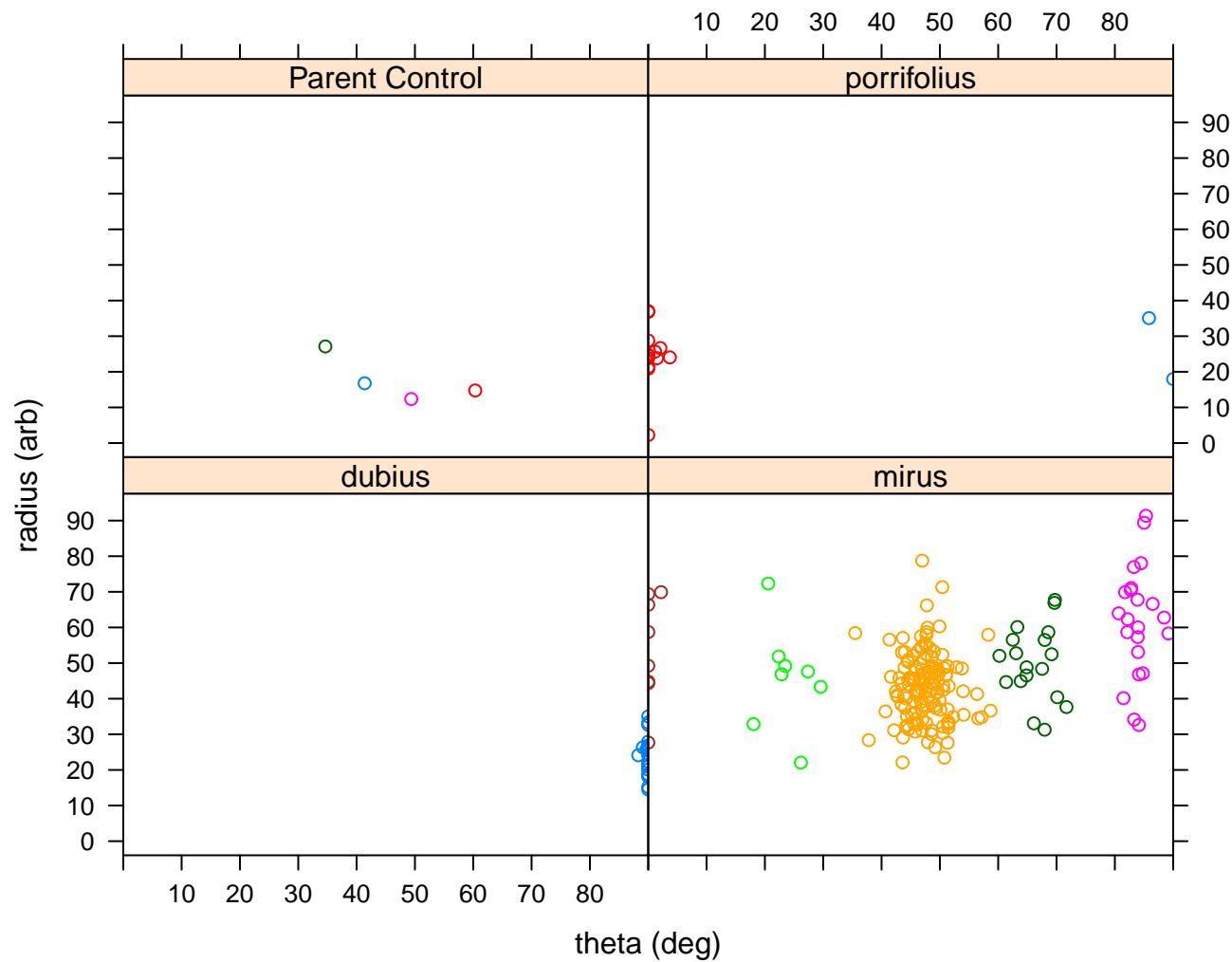
theta (deg)



V_2_5_isotig15642_239 cDNA

Call

HH	○	LLLL	○
HHHH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig15658_143 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

45
40
35
30
25
20
15
10
5

dubius

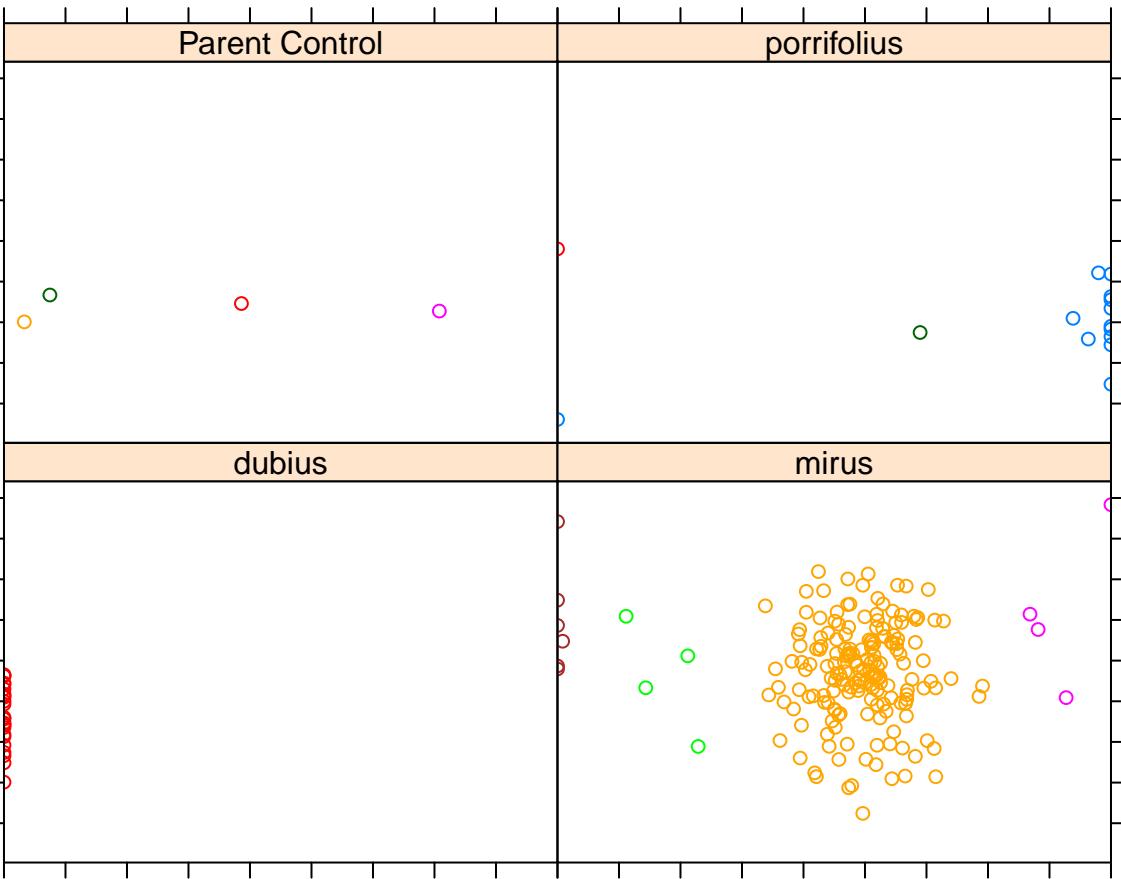
mirus

45
40
35
30
25
20
15
10
5

radius (arb)

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig15658_143 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

porrifolius

60
55
50
45
40
35
30
25
20
15
10
5
0

dubius

mirus

60
55
50
45
40
35
30
25
20
15
10
5
0

10 20 30 40 50 60 70 80

theta (deg)

radius (arb)

V_2_5_isotig15762_329 gDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

55
50
45
40
35
30
25
20
15
10
5

dubius

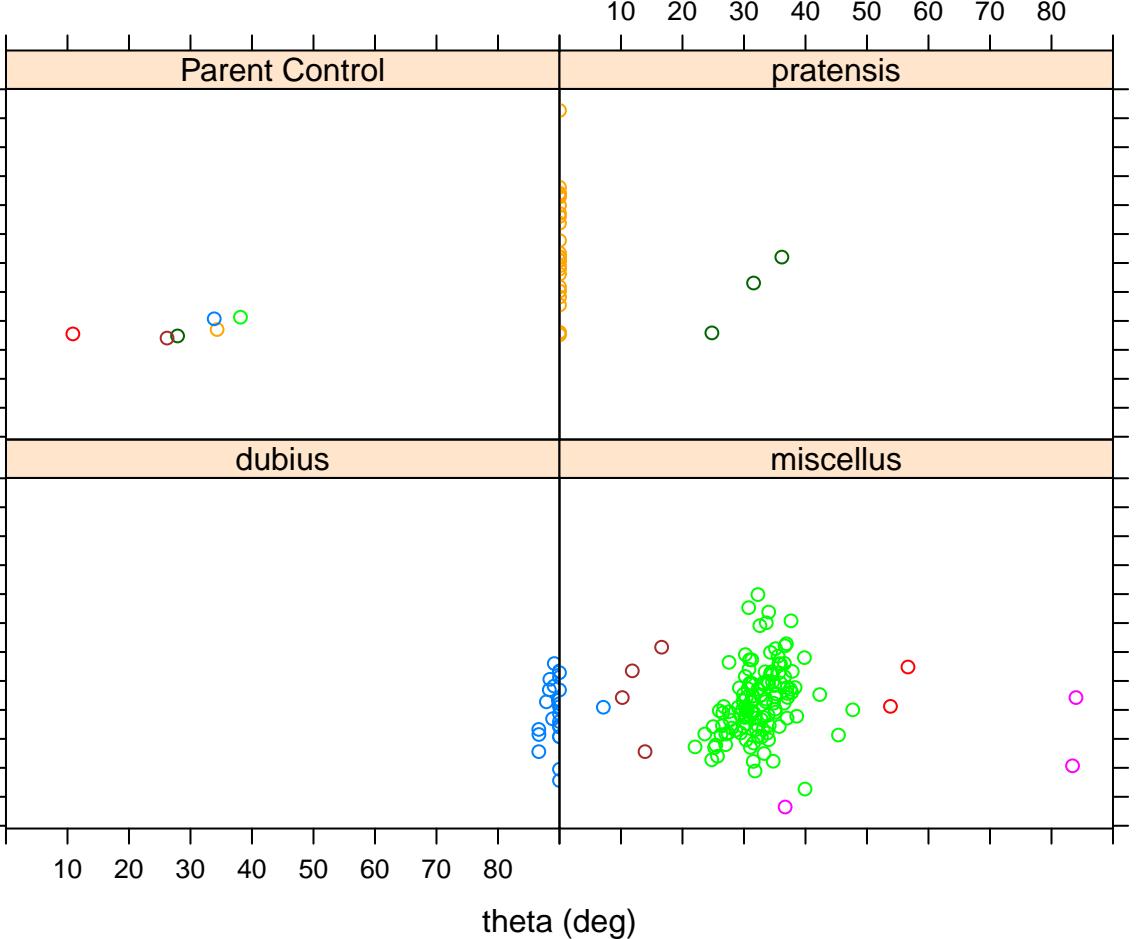
miscellus

radius (arb)

55
50
45
40
35
30
25
20
15
10
5

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig15762_329 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

55
50
45
40
35
30
25
20
15
10
5
0

dubius

miscellus

radius (arb)

55

50

45

40

35

30

25

20

15

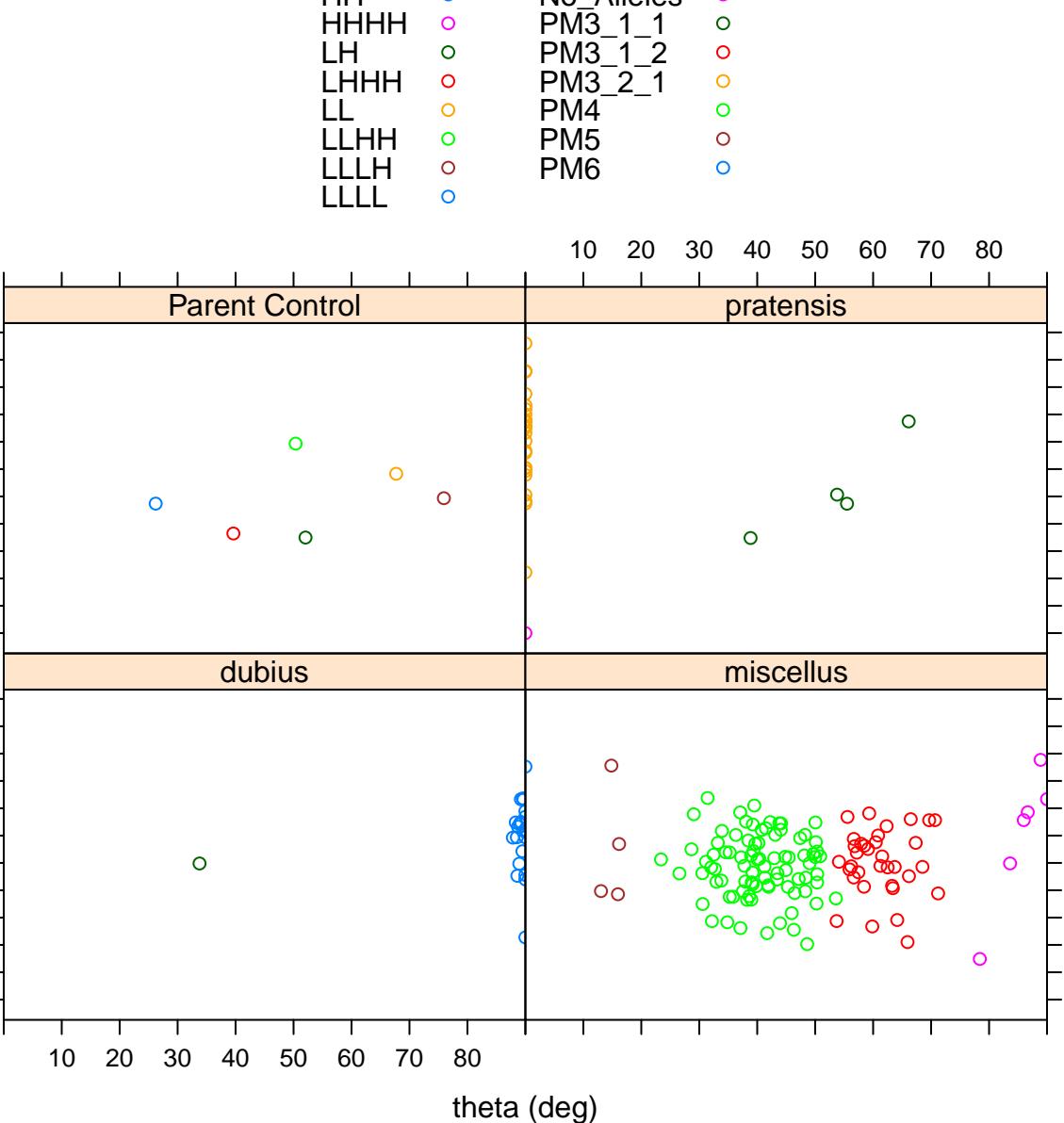
10

5

0

10 20 30 40 50 60 70 80

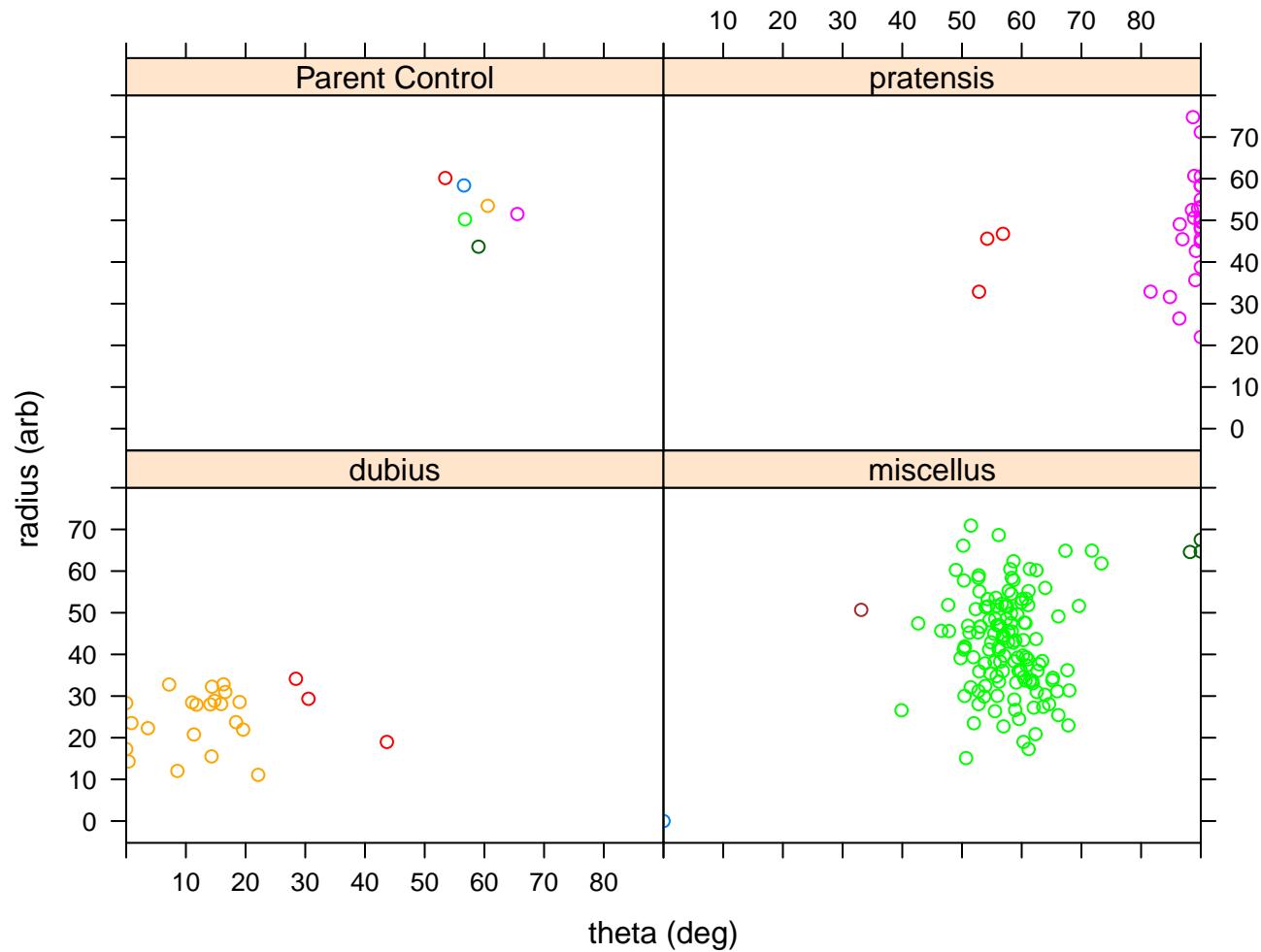
theta (deg)



V_2_5_isotig15762_368 gDNA

Call

Bad_Spectrum	○	PM3_1_1	○
HH	○	PM3_1_2	○
HHHH	○	PM3_2_1	○
LH	○	PM4	○
LL	○	PM5	○
LLHH	○	PM6	○
LLLH	○		



V_2_5_isotig15762_368 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

50
45
40
35
30
25
20
15
10
5
0

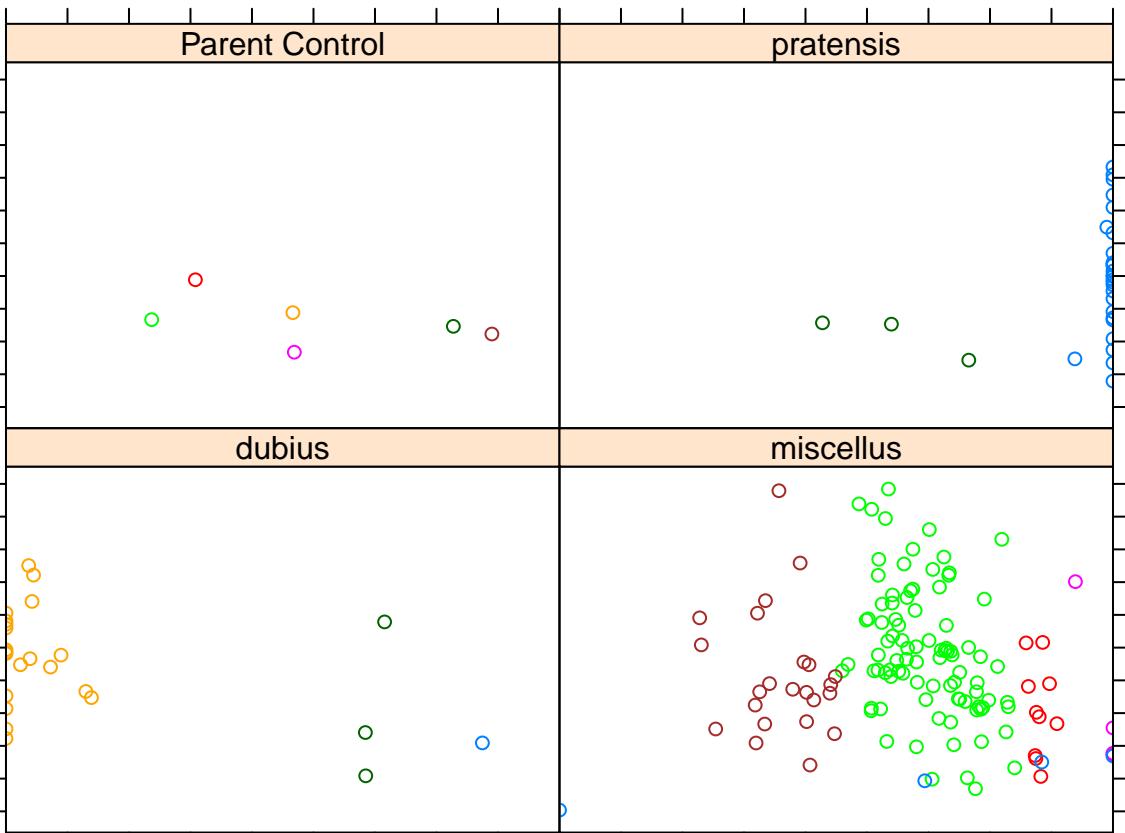
dubius

missellus

radius (arb)

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig15762_392 gDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

160
140
120
100
80
60
40
20
0

dubius

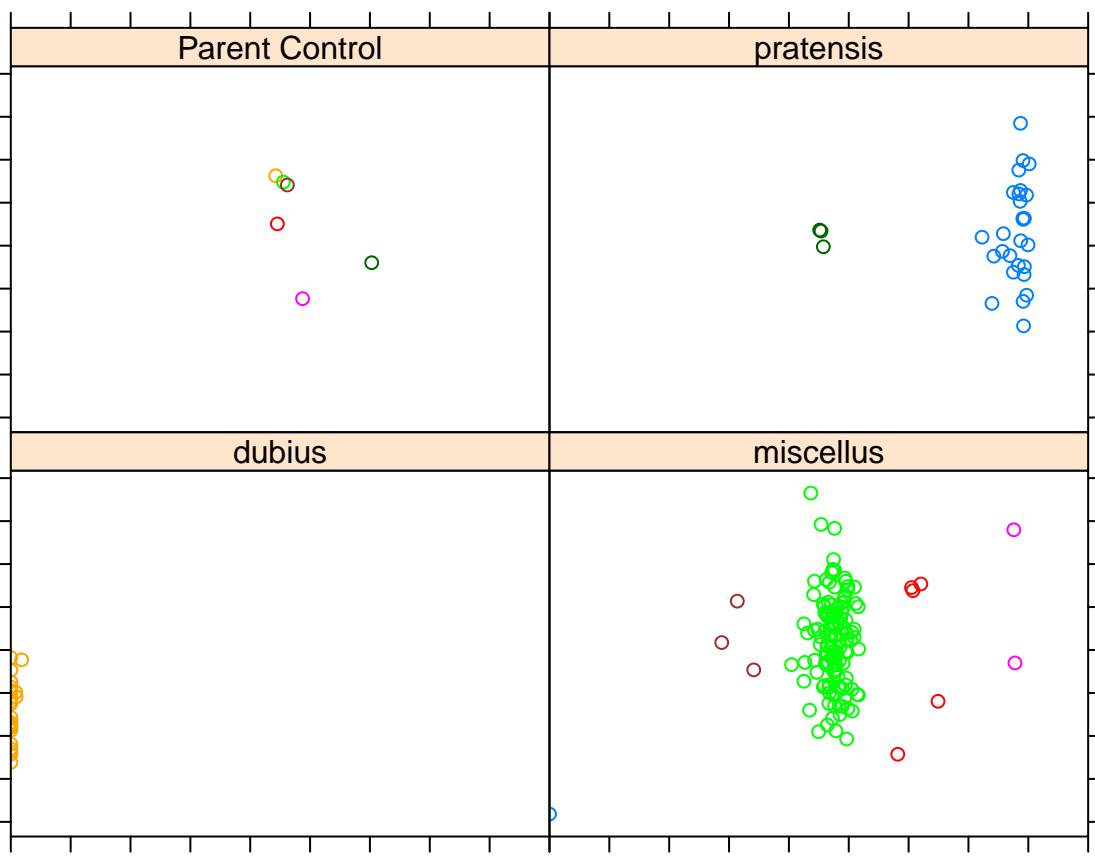
miscellus

radius (arb)

160
140
120
100
80
60
40
20
0

10 20 30 40 50 60 70 80

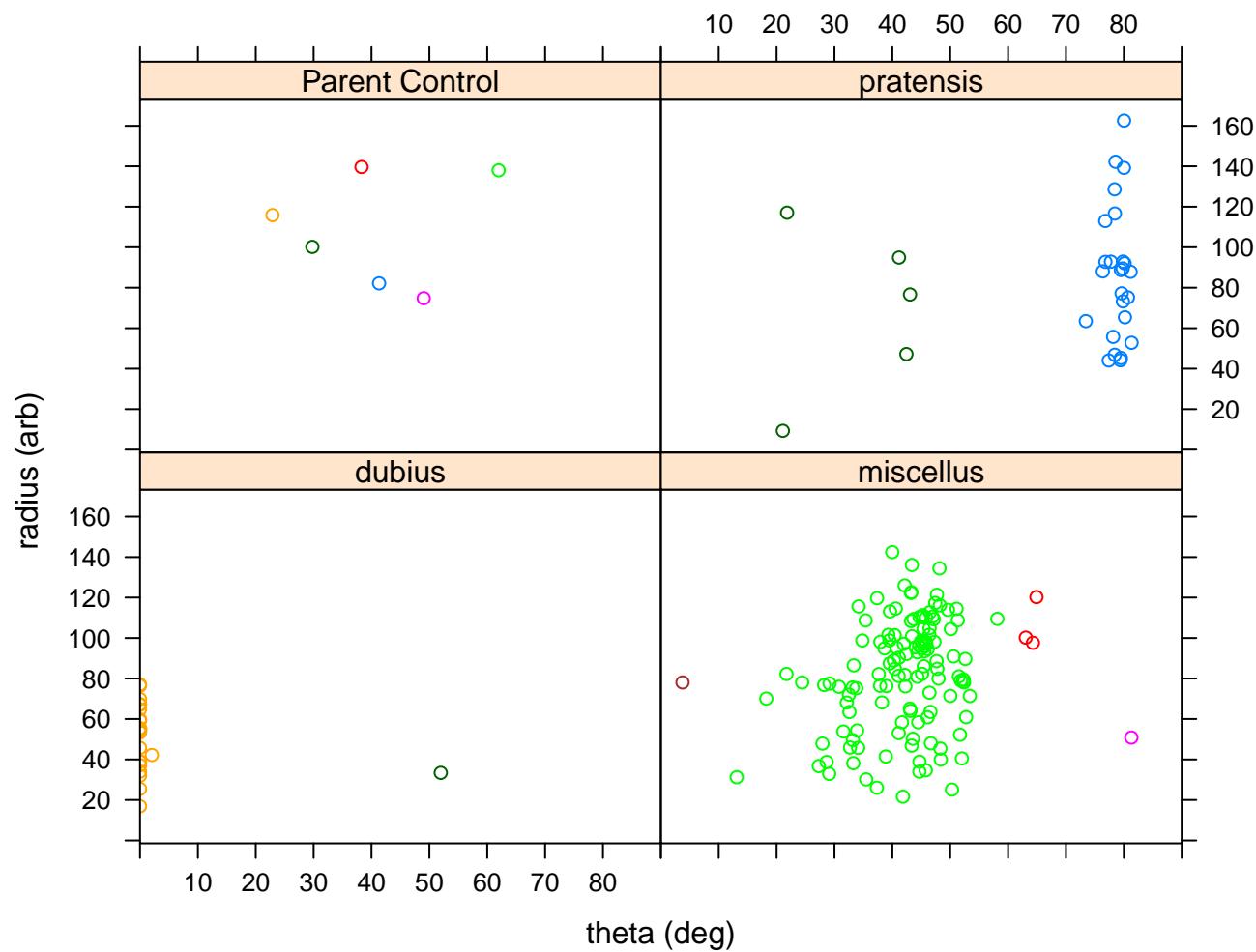
theta (deg)



V_2_5_isotig15762_392 cDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LHHH	○	PM4	○
LL	○	PM5	○
LLHH	○	PM6	○
LLLL	○		



V_2_5_isotig15793_141 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

70
60
50
40
30
20
10

radius (arb)

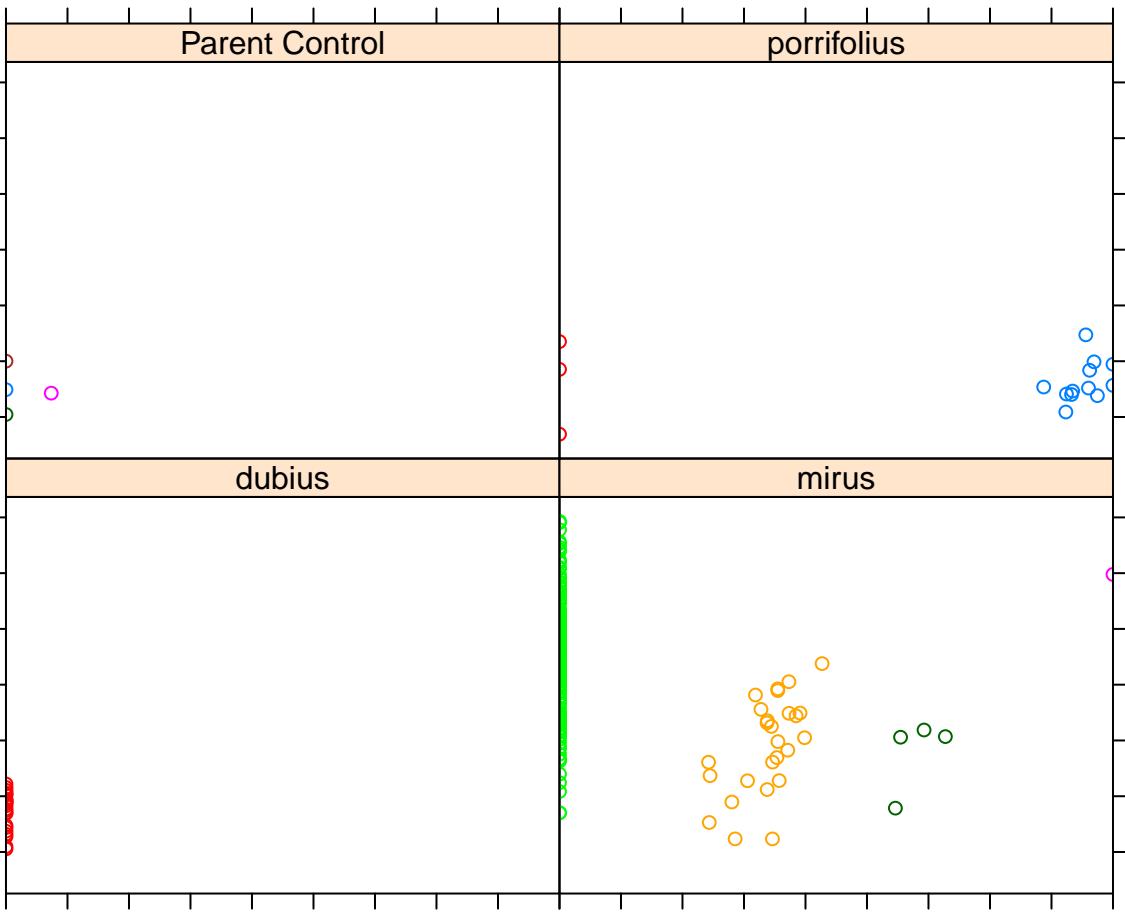
dubius

mirus

70
60
50
40
30
20
10

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig15793_141 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLL	○		○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

90
80
70
60
50
40
30
20
10

dubius

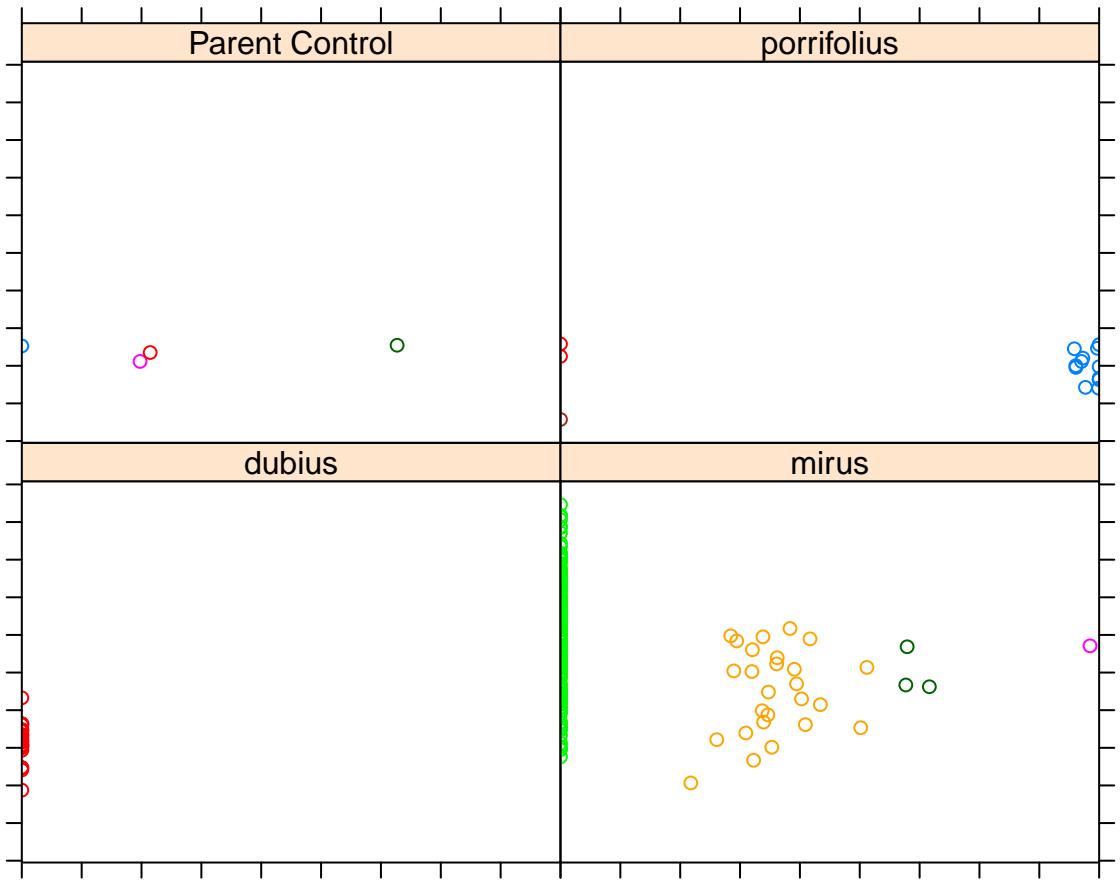
mirus

90
80
70
60
50
40
30
20
10

radius (arb)

10 20 30 40 50 60 70 80

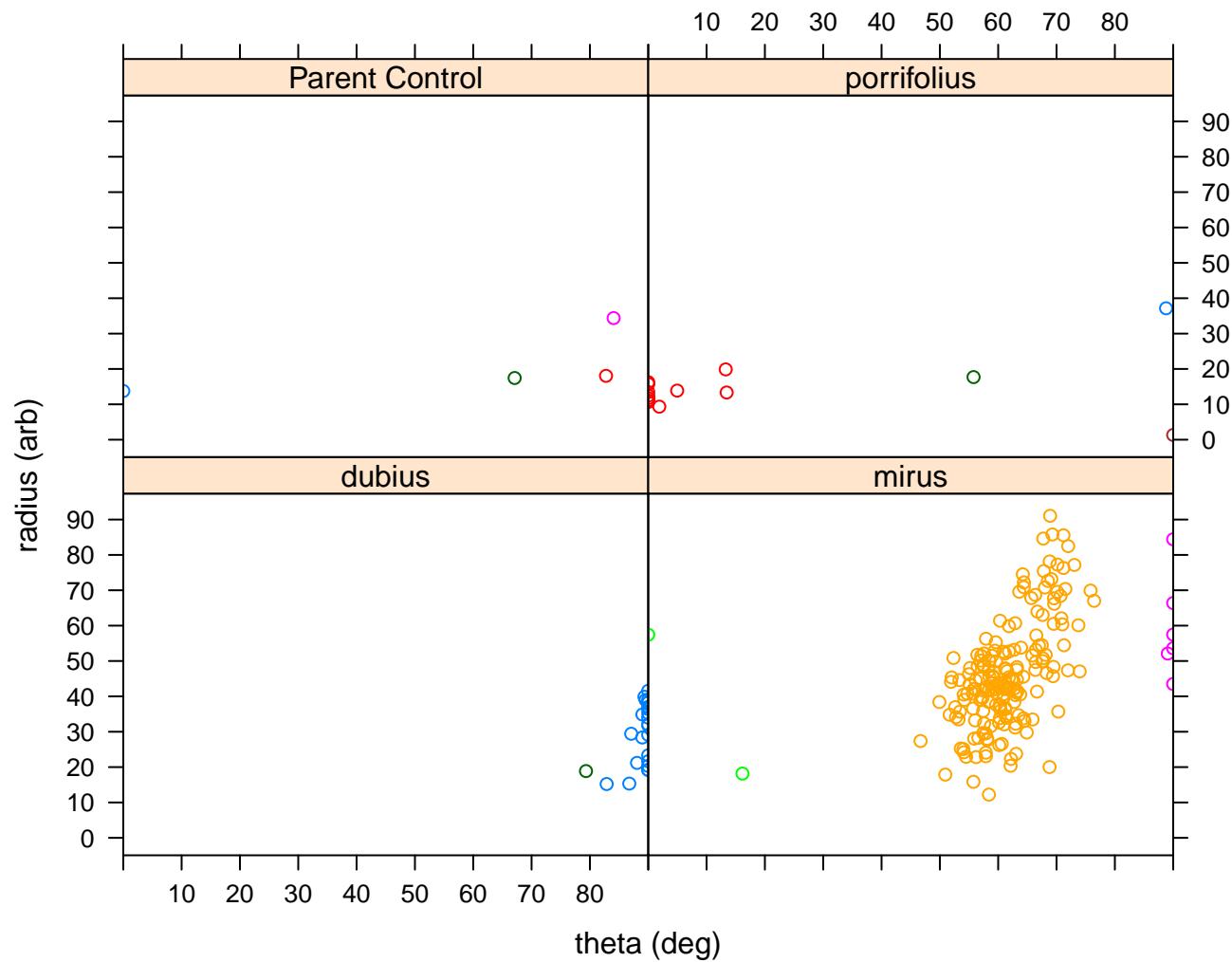
theta (deg)



V_2_5_isotig15802_122 gDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLL	○		



V_2_5_isotig15802_122 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLL	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

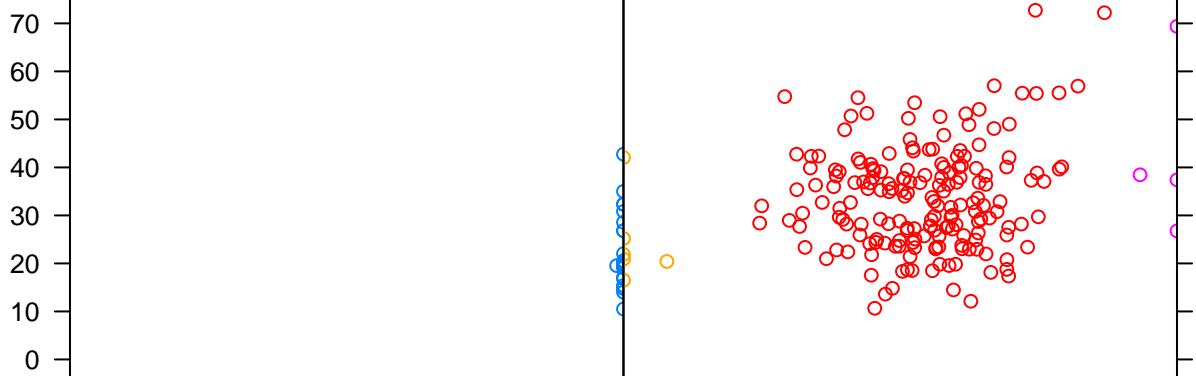
porrifolius

70
60
50
40
30
20
10
0

radius (arb)

dubius

mirus



theta (deg)

V_2_5_isotig15871_319 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

55
50
45
40
35
30
25
20
15
10
5

dubius

mirus

55
50
45
40
35
30
25
20
15
10
5

radius (arb)

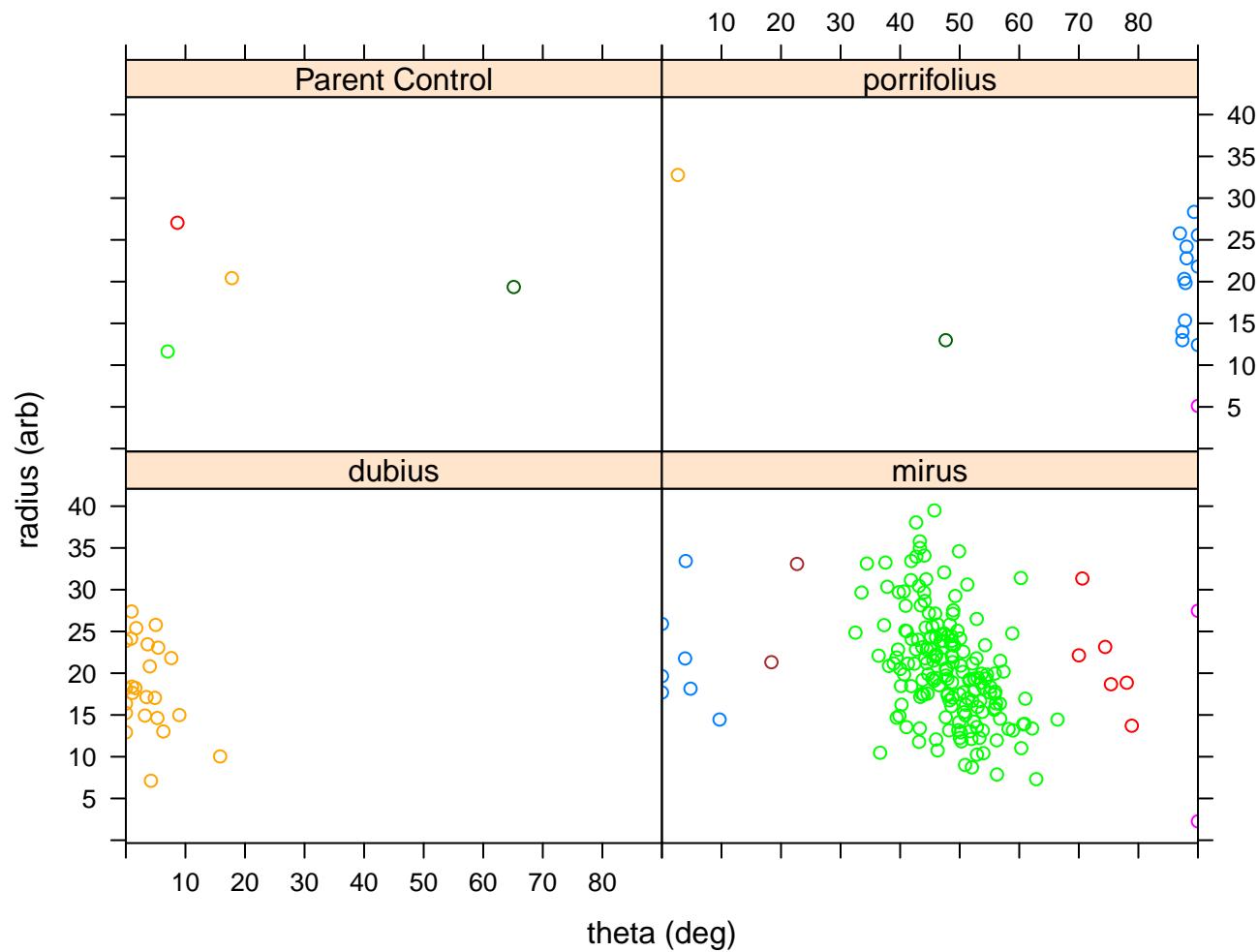
10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig15882_417 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig15882_458 gDNA

Call

HH	○	LLLH	○
HHHH	○	LLLL	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

100
90
80
70
60
50
40
30
20
10
0

radius (arb)

dubius

mirus

100
90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

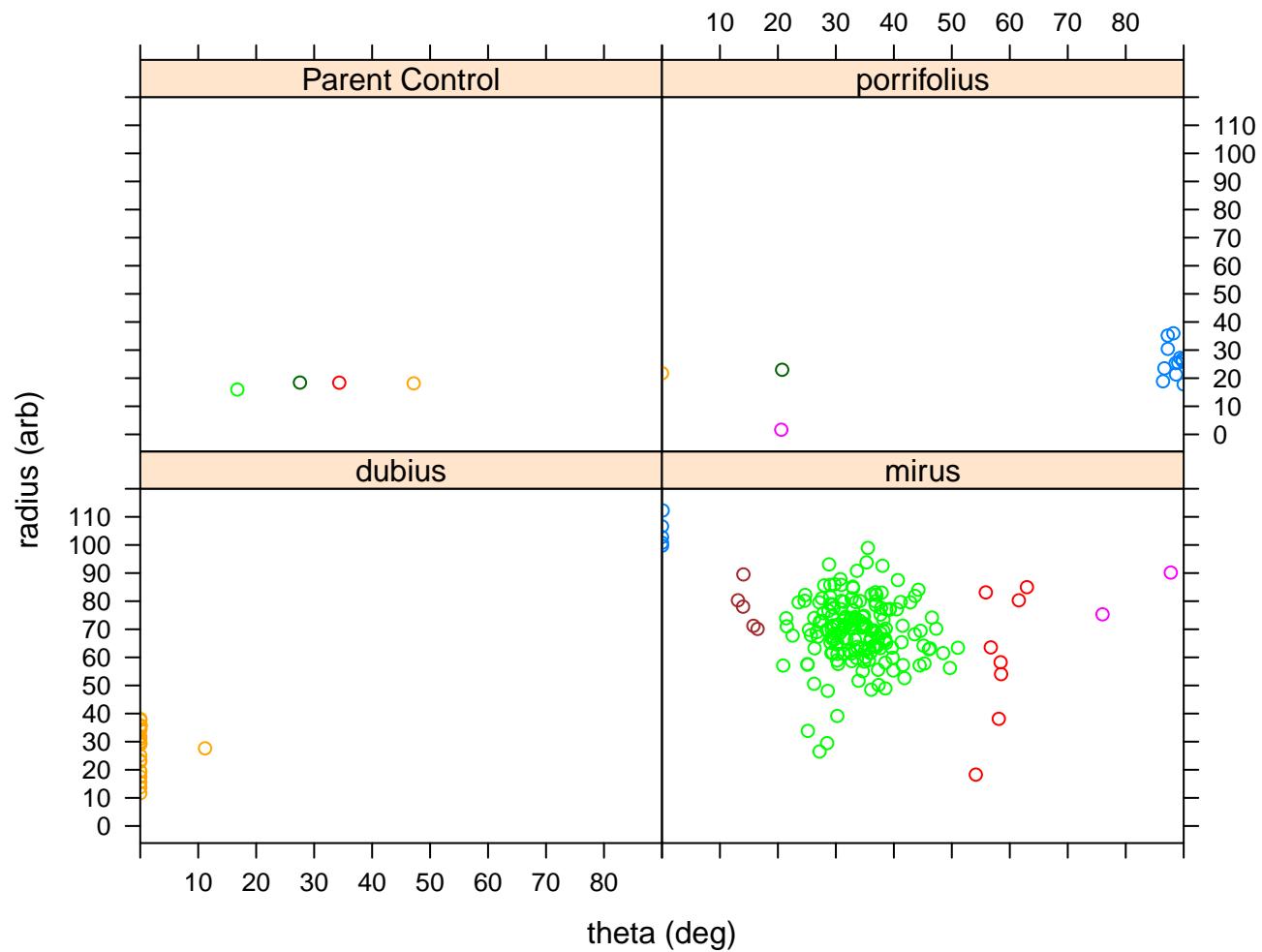
theta (deg)

100
90
80
70
60
50
40
30
20
10
0

V_2_5_isotig15882_458 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig15890_337 gDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLL	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

90
80
70
60
50
40
30
20
10
0

radius (arb)

dubius

mirus

90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)

50
40
30
20
10
0

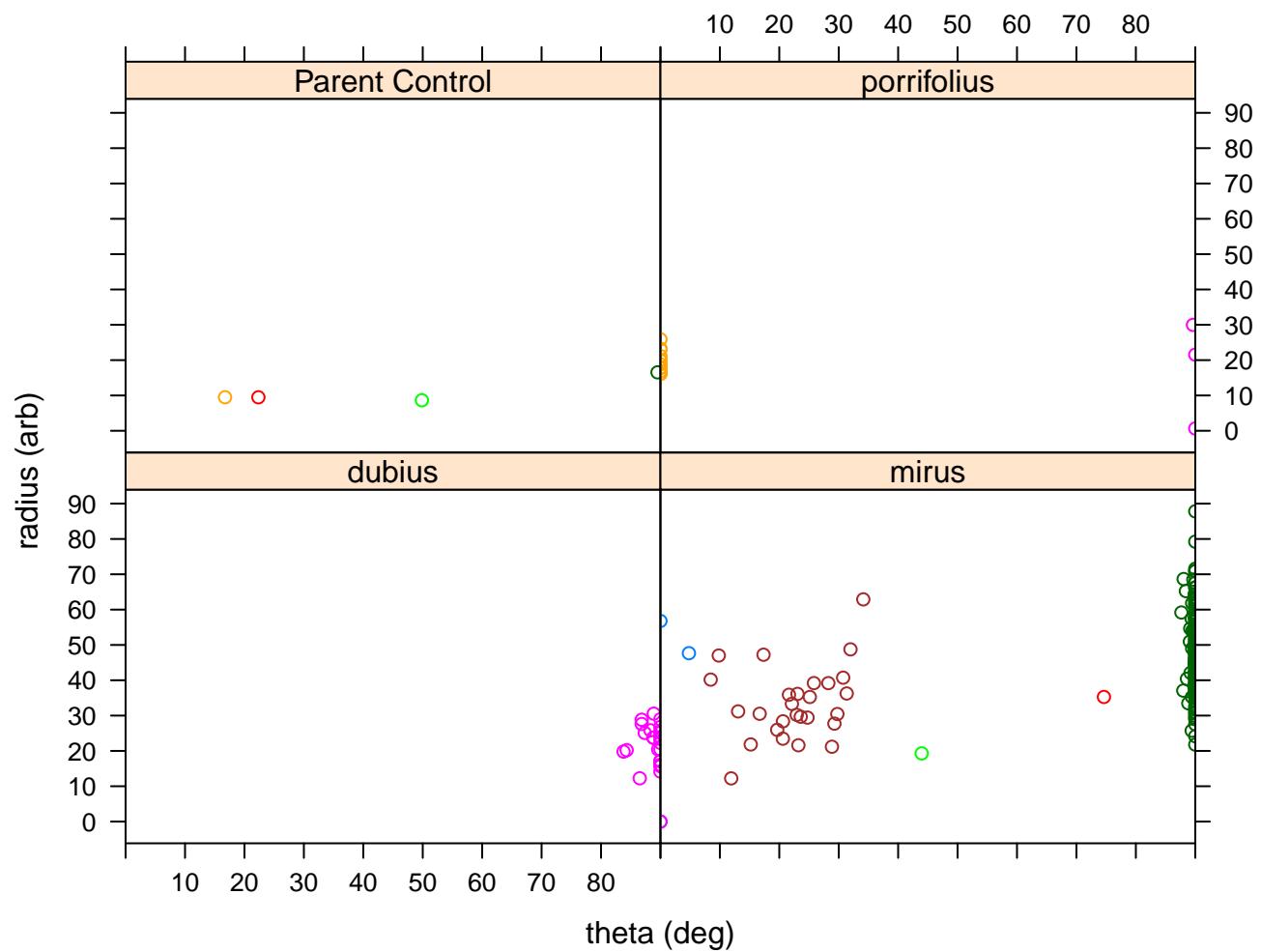
50
40
30
20
10
0

0

V_2_5_isotig15890_337 cDNA

Call

Bad_Spectrum	○	LLLL	○
HH	○	No_Alleles	○
HHHH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig15914_61 gDNA

Call

Bad_Spectrum	LLLH	○	○
HH	LLLL	○	○
HHHH	PM1	○	○
LH	PM2_1_1	○	○
LL	PM2_1_2	○	○
LLHH	PM2_2_1	○	○

10 20 30 40 50 60 70 80

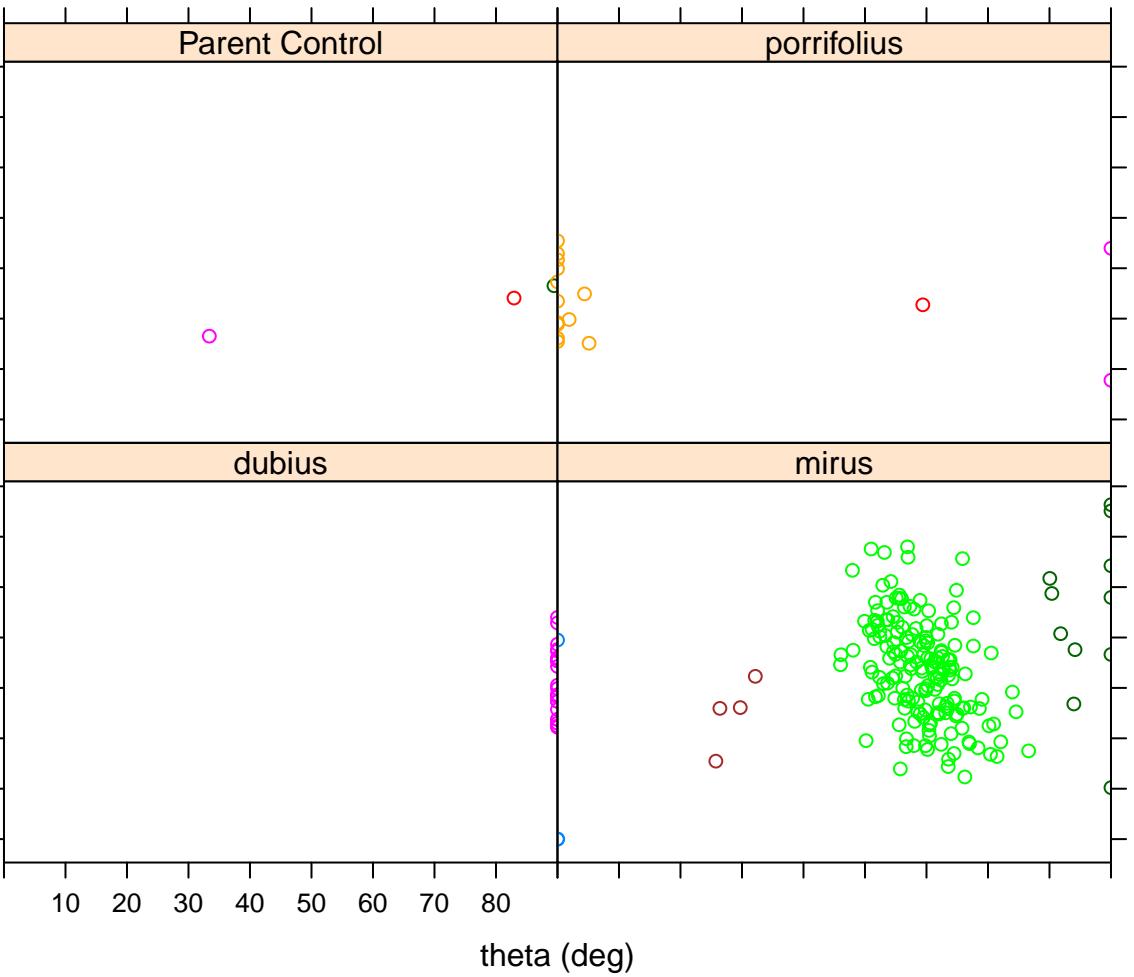
Parent Control

porrifolius

radius (arb)

dubius

mirus



theta (deg)

V_2_5_isotig15914_61 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LHHH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

45
40
35
30
25
20
15
10
0

dubius

mirus

45
40
35
30
25
20
15
10
5
0

10 20 30 40 50 60 70 80

theta (deg)

radius (arb)

V_2_5_isotig15926_238 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		

10 20 30 40 50 60 70 80

Parent Control

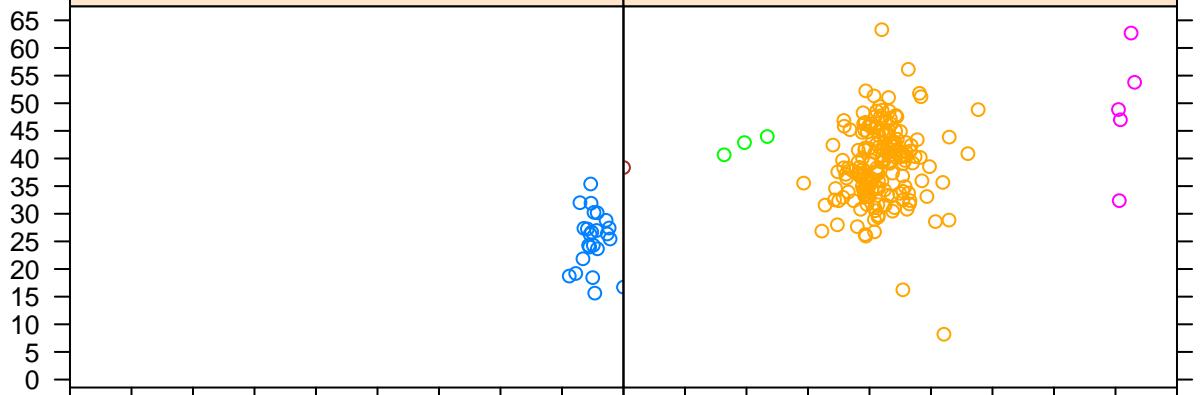
porrifolius

65
60
55
50
45
40
35
30
25
20
15
10
5
0

dubius

mirus

radius (arb)

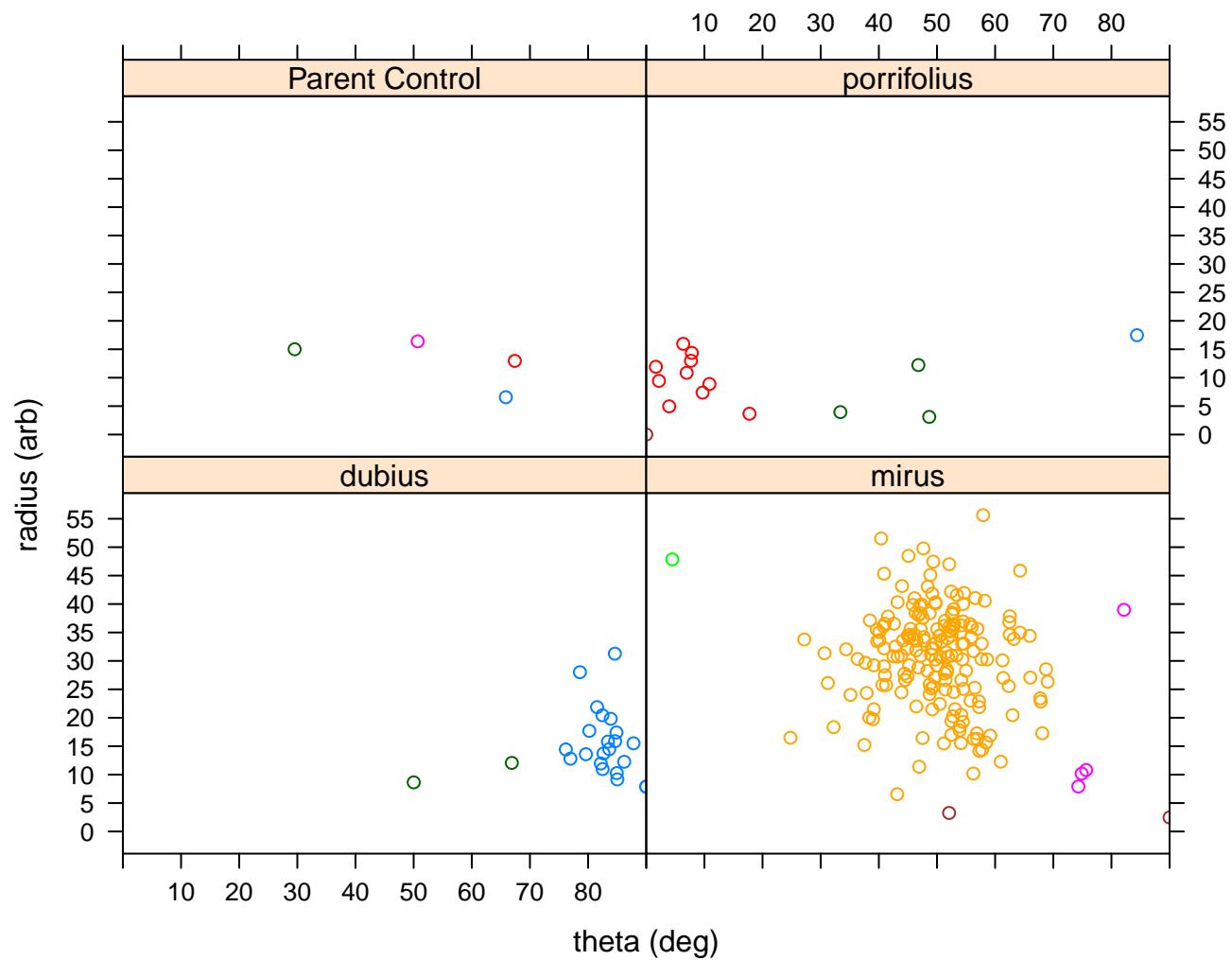


theta (deg)

V_2_5_isotig15926_238 cDNA

Call

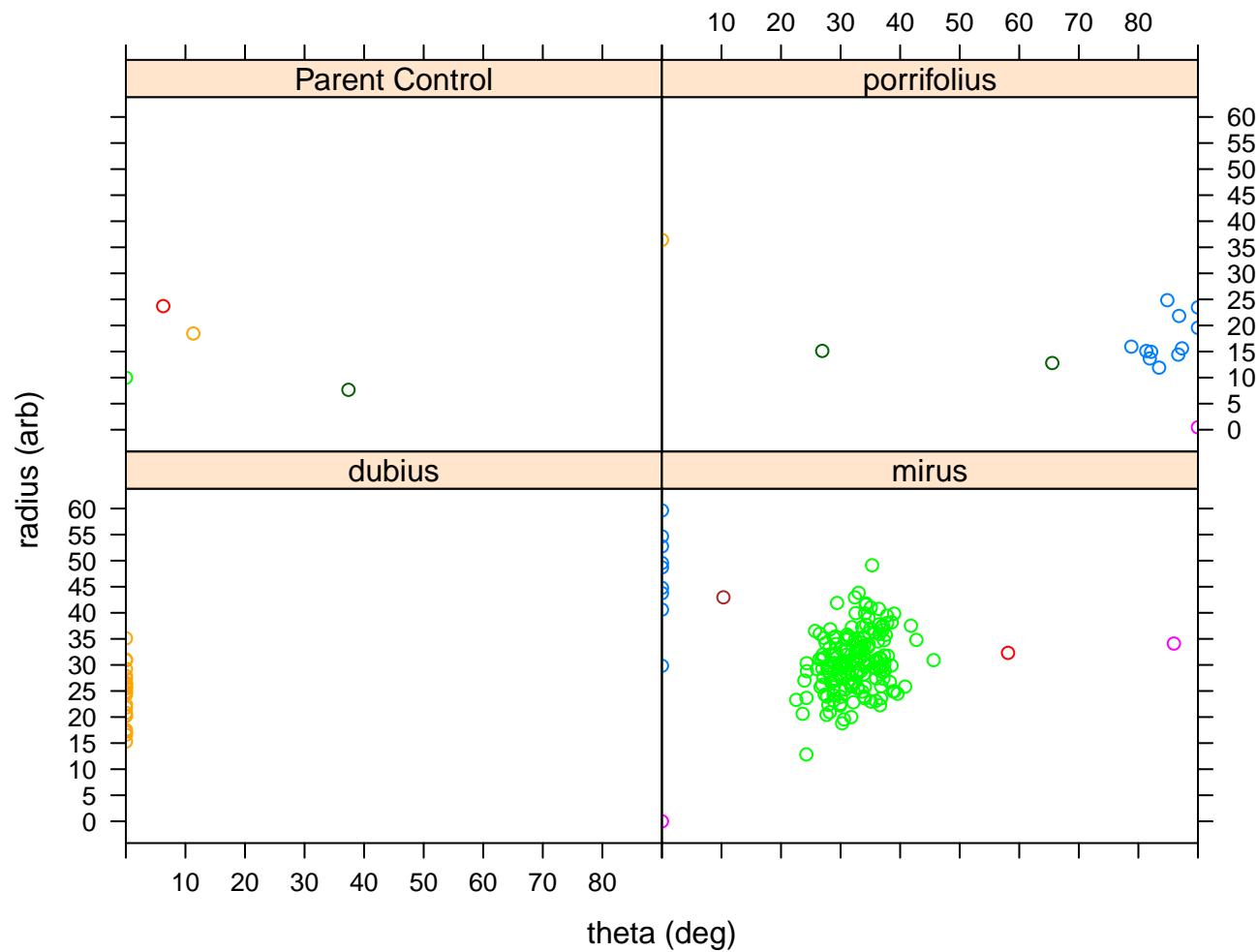
HH	○	No_Aleles	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLL	○		



V_2_5_isotig15950_94 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig15950_94 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LHHH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

60
55
50
45
40
35
30
25
20
15
10
5
0

dubius

mirus

60
55
50
45
40
35
30
25
20
15
10
5
0

10 20 30 40 50 60 70 80

theta (deg)

radius (arb)

V_2_5_isotig16024_119 gDNA

Call

Bad_Spectrum	○	LLLH	○
HH	○	LLLL	○
HHHH	○	No_Alleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

70
60
50
40
30
20
10
0

dubius

mirus

radius (arb)

70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)

70
60
50
40
30
20
10
0

V_2_5_isotig16024_119 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLL	○		○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

100
90
80
70
60
50
40
30
20
10
0

dubius

mirus

radius (arb)

100
90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLL	○		○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

100
90
80
70
60
50
40
30
20
10
0

dubius

mirus

radius (arb)

100
90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

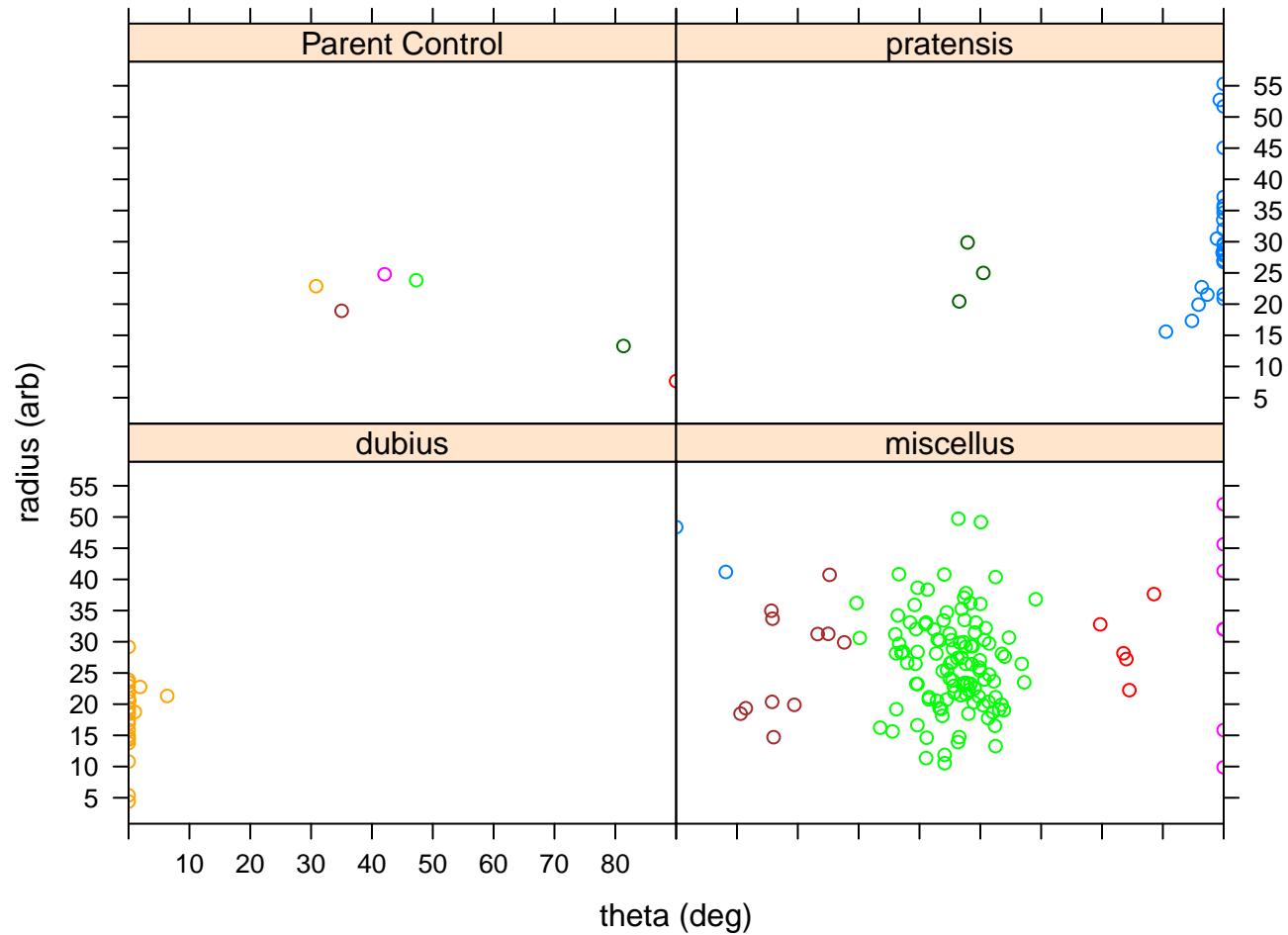
theta (deg)

V_2_5_isotig16062_80 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

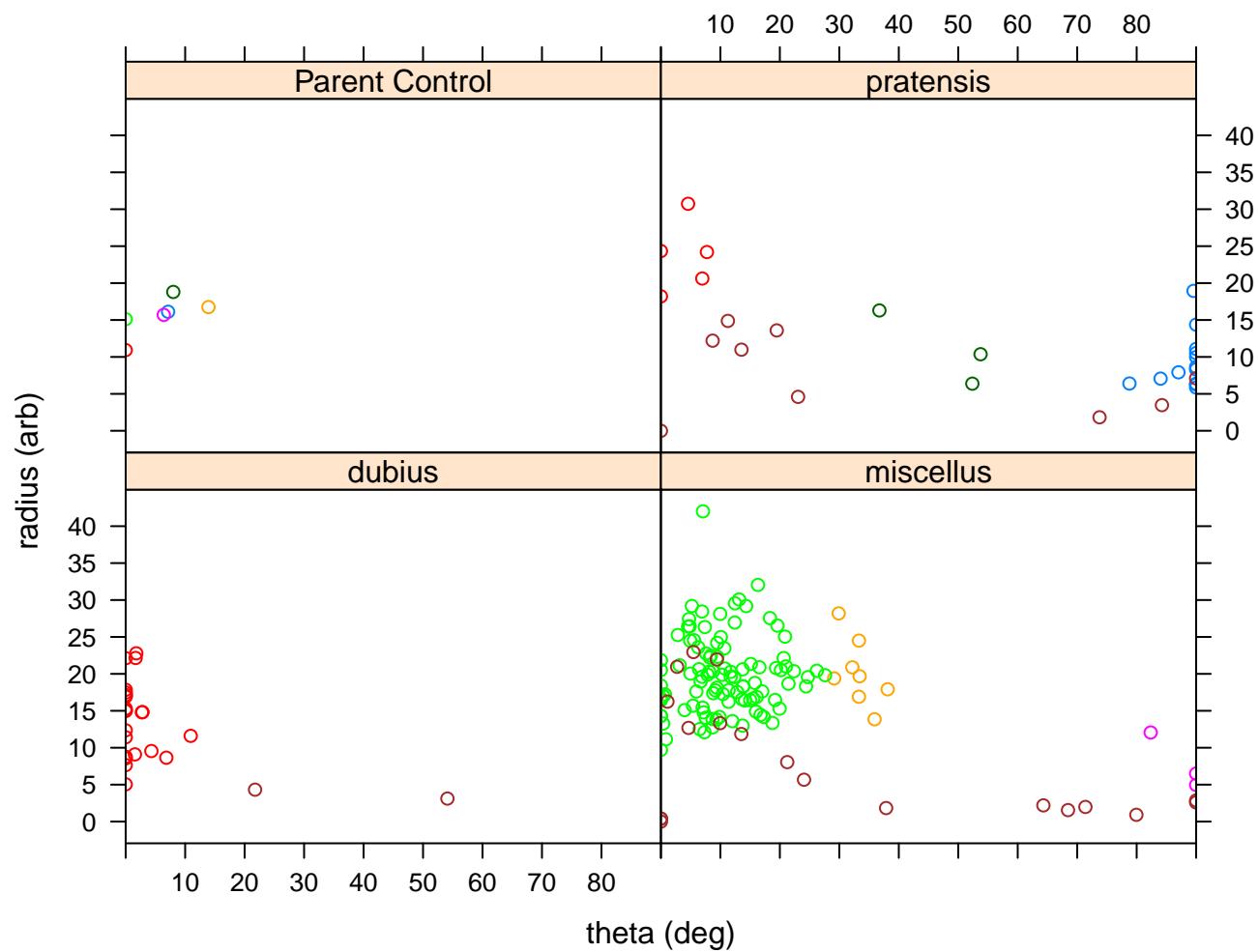
10 20 30 40 50 60 70 80



V_2_5_isotig16062_80 cDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLLH	○	PM5	○
LLLL	○	PM6	○
No_Alleles	○		



V_2_5_isotig16074_404 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

140
120
100
80
60
40
20
0

dubius

mirus

140
120
100
80
60
40
20
0

10 20 30 40 50 60 70 80

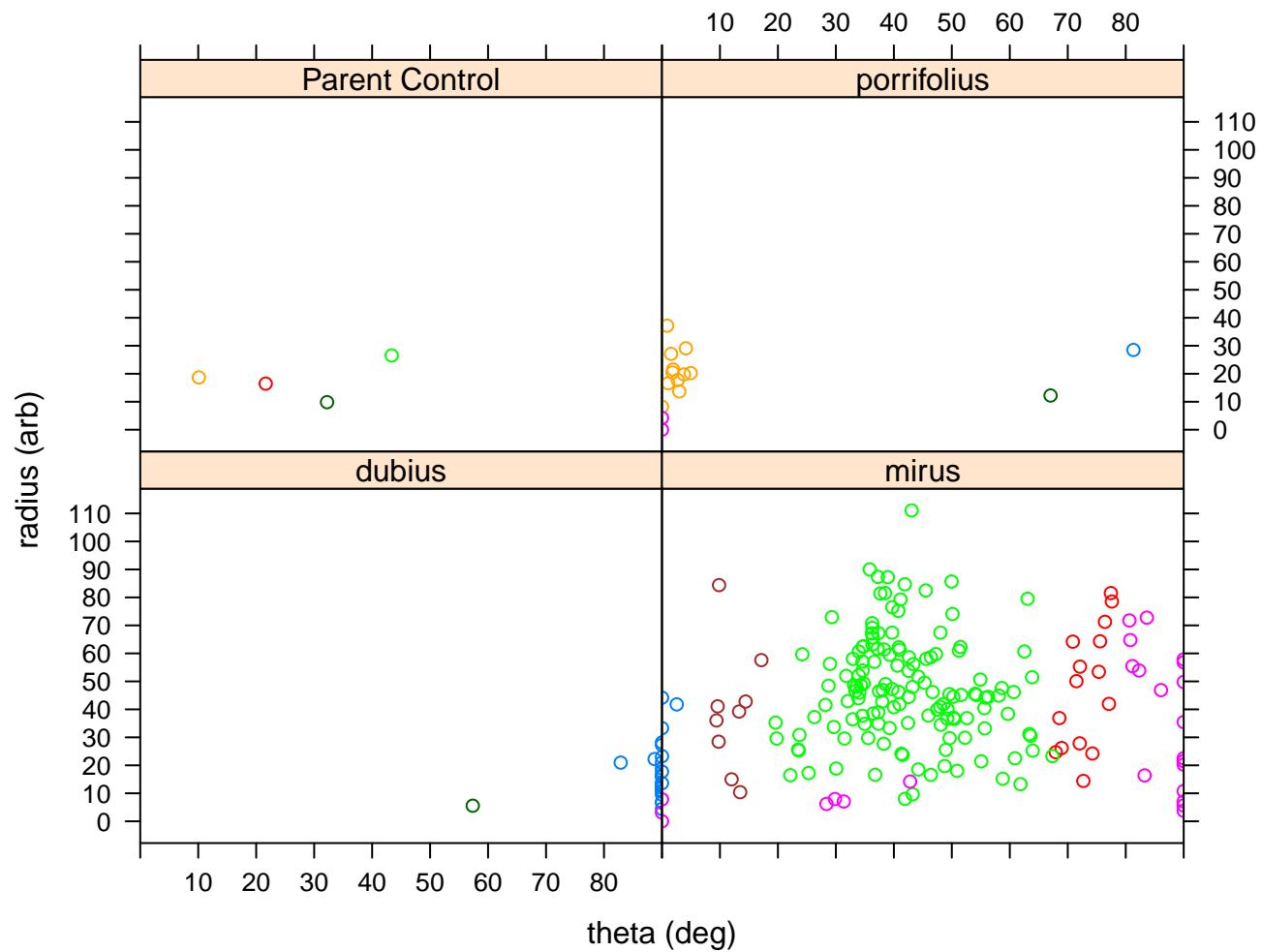
theta (deg)

radius (arb)

V_2_5_isotig16074_404 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig16134_409 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

radius (arb)

Parent Control

pratensis

100
90
80
70
60
50
40
30
20

dubius

miscellus

100
90
80
70
60
50
40
30
20

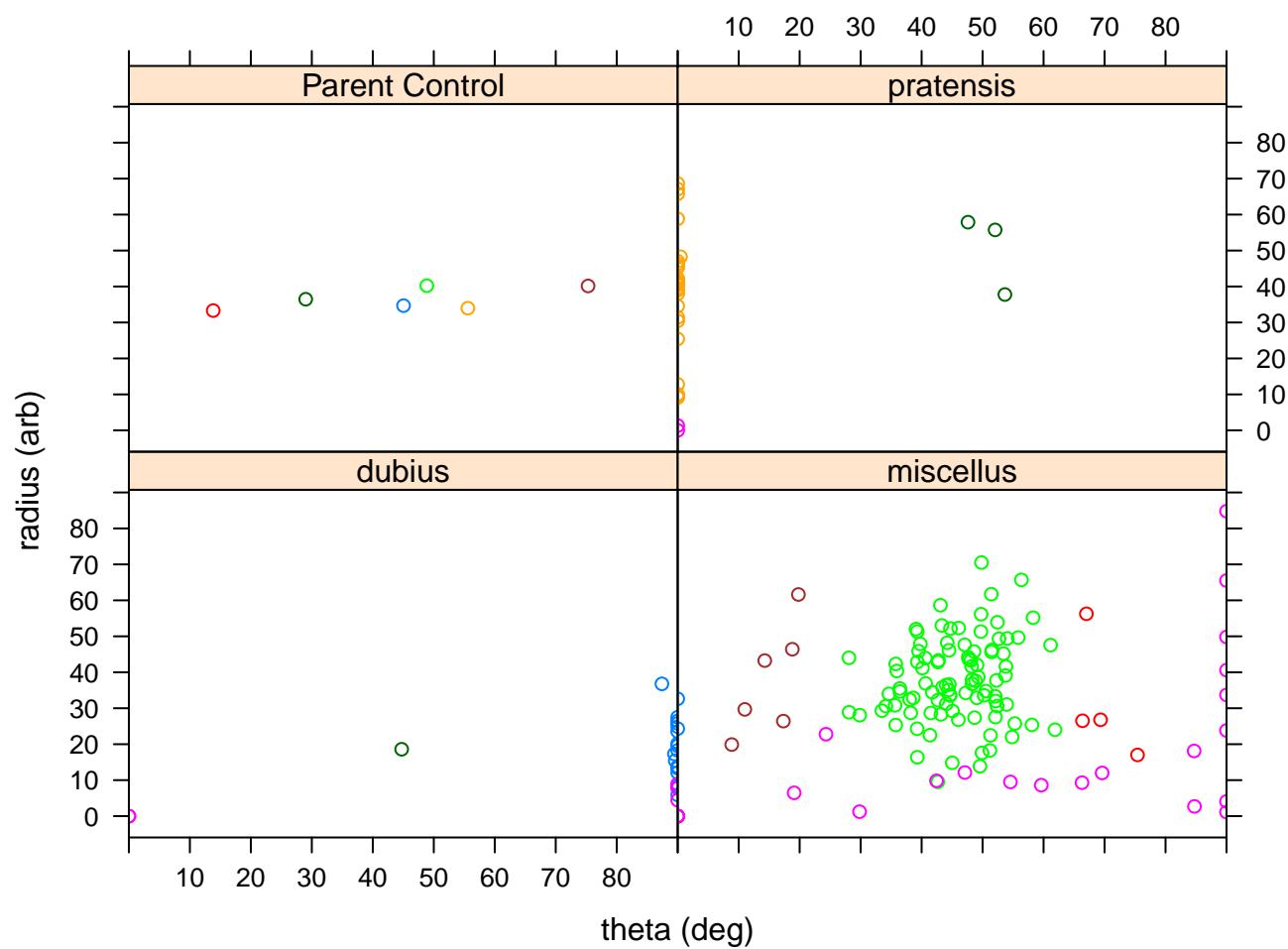
10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig16236_278 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		



V_2_5_isotig16238_139 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

120
110
100
90
80
70
60
50
40
30
20
10
0

dubius

mirus

120
110
100
90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

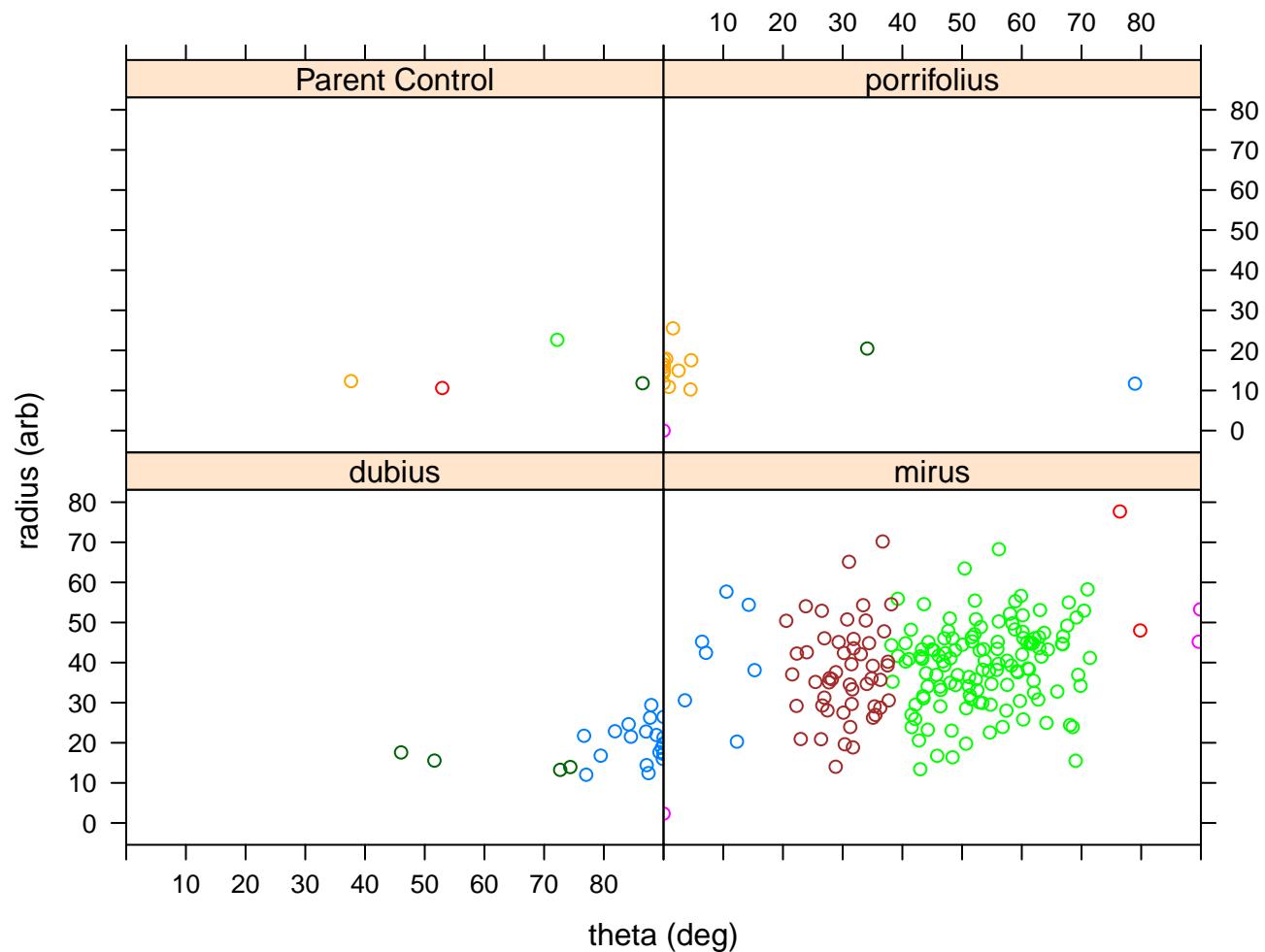
theta (deg)

radius (arb)

V_2_5_isotig16238_139 cDNA

Call

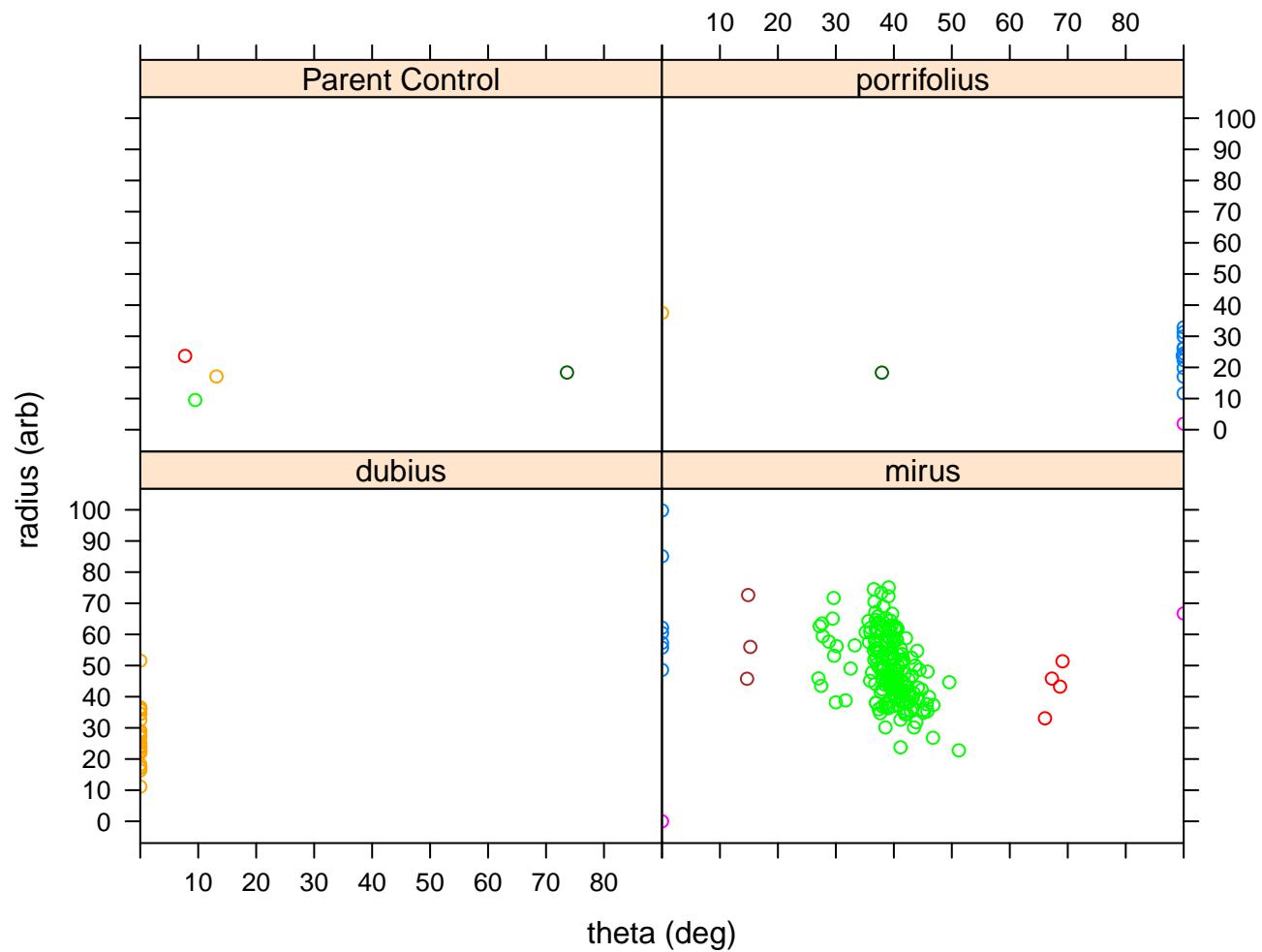
HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig16319_193 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig16319_193 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

100
90
80
70
60
50
40
30
20
10
0

dubius

mirus

radius (arb)

100
90
80
70
60
50
40
30
20
10
0

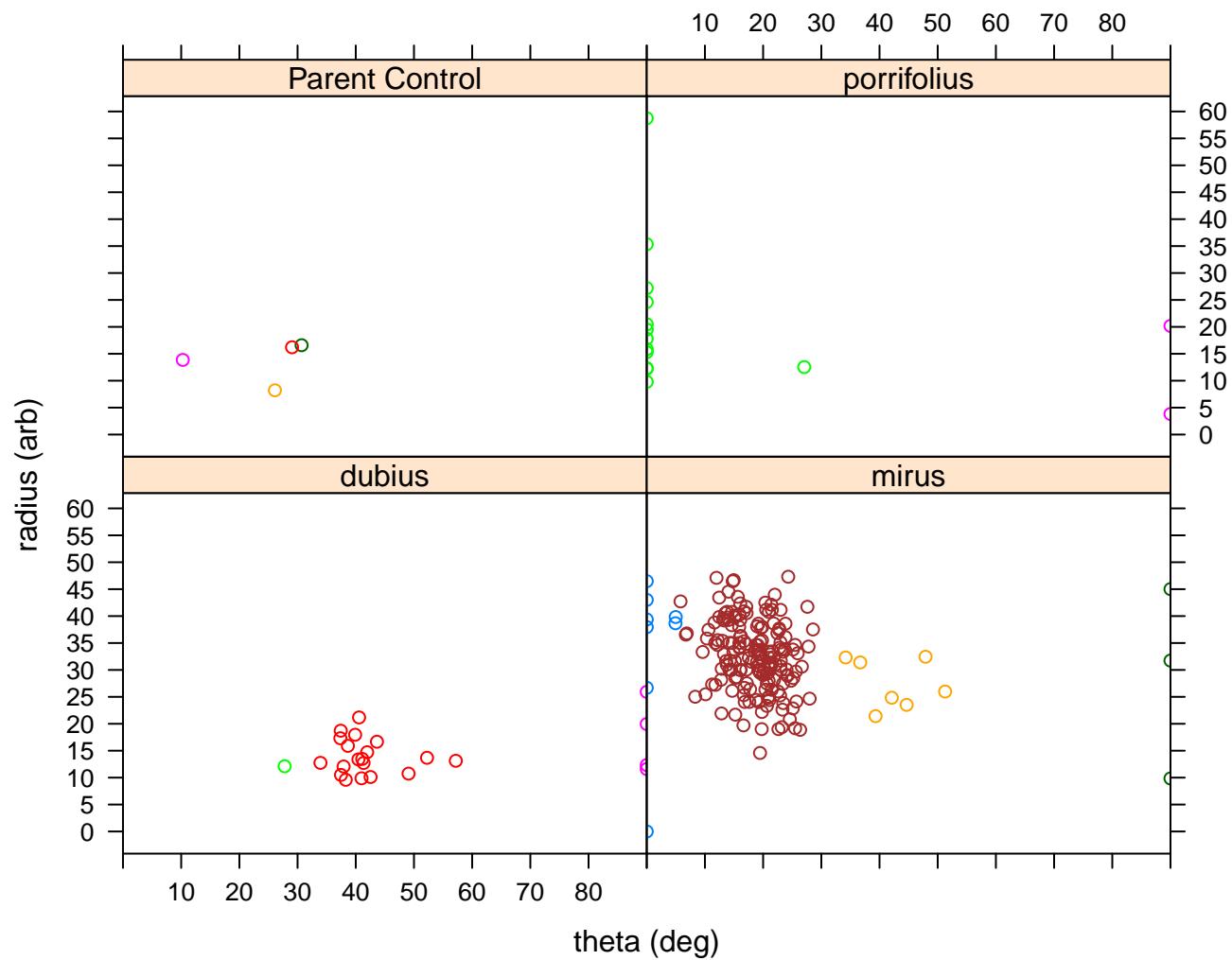
10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig16322_434 gDNA

Call

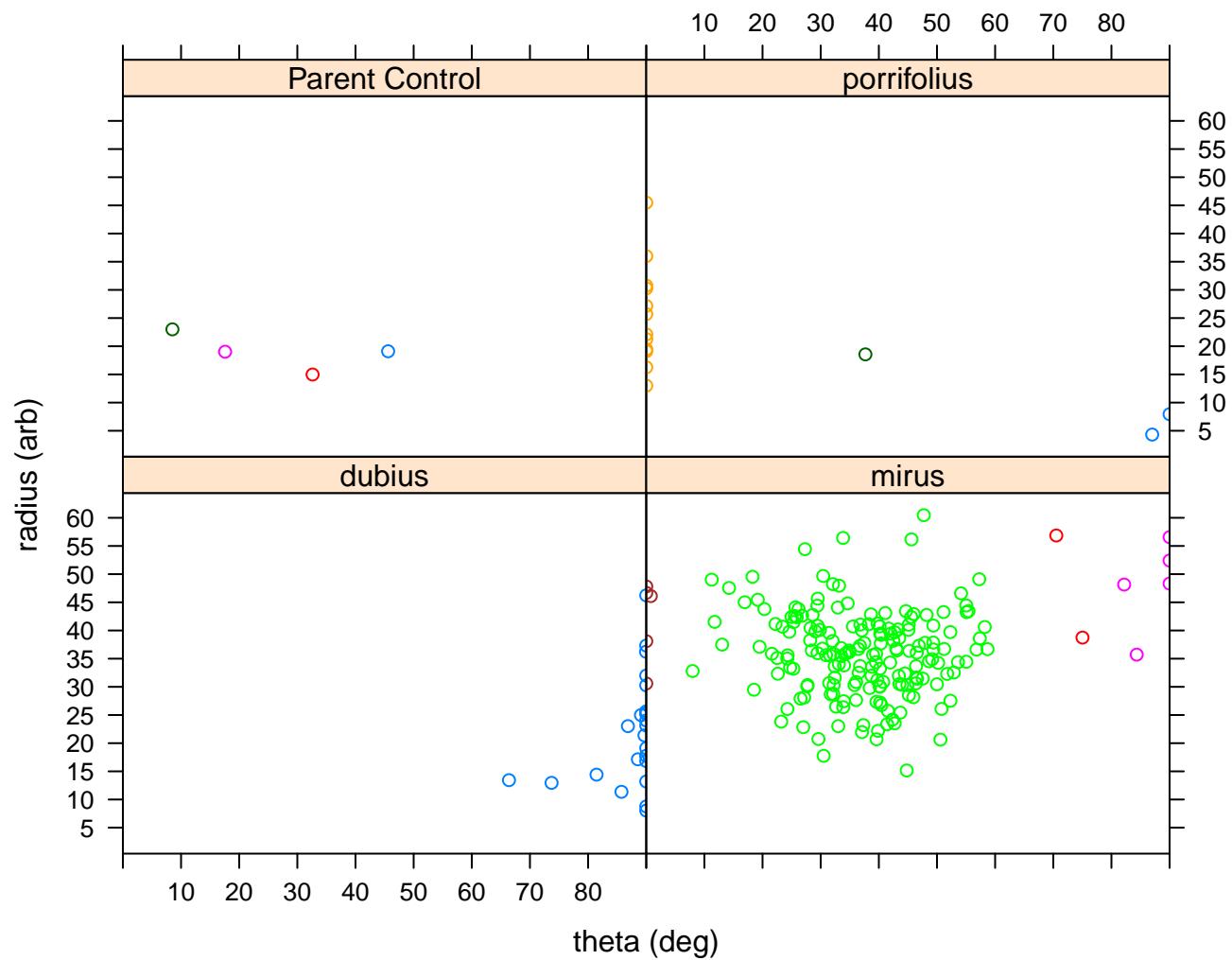
Bad_Spectrum	○	LLHH	○
HH	○	LLLL	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LHHH	○	PM2_1_2	○
LL	○	PM2_2_1	○



V_2_5_isotig16322_434 cDNA

Call

HH	○	LLLL	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LHHH	○	PM2_1_2	○
LL	○	PM2_2_1	○
LLHH	○		



V_2_5_isotig16335_235 gDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

radius (arb)

80
70
60
50
40
30
20
10
0

dubius

miscellus

80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)

○

V_2_5_isotig16335_235 cDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

120
110
100
90
80
70
60
50
40
30
20
10

dubius

miscellus

120
110
100
90
80
70
60
50
40
30
20
10

10 20 30 40 50 60 70 80

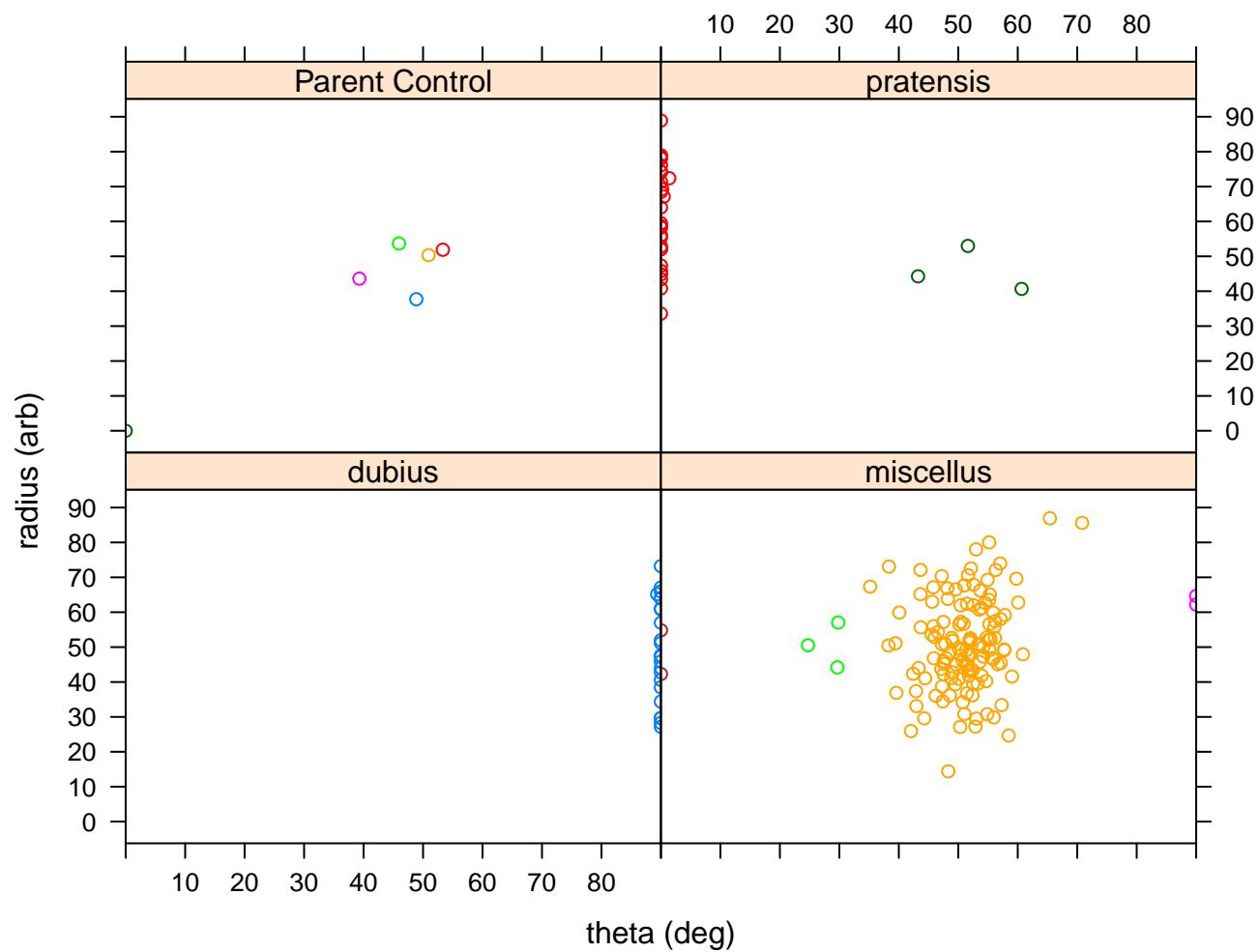
theta (deg)

radius (arb)

V_2_5_isotig16335_255 gDNA

Call

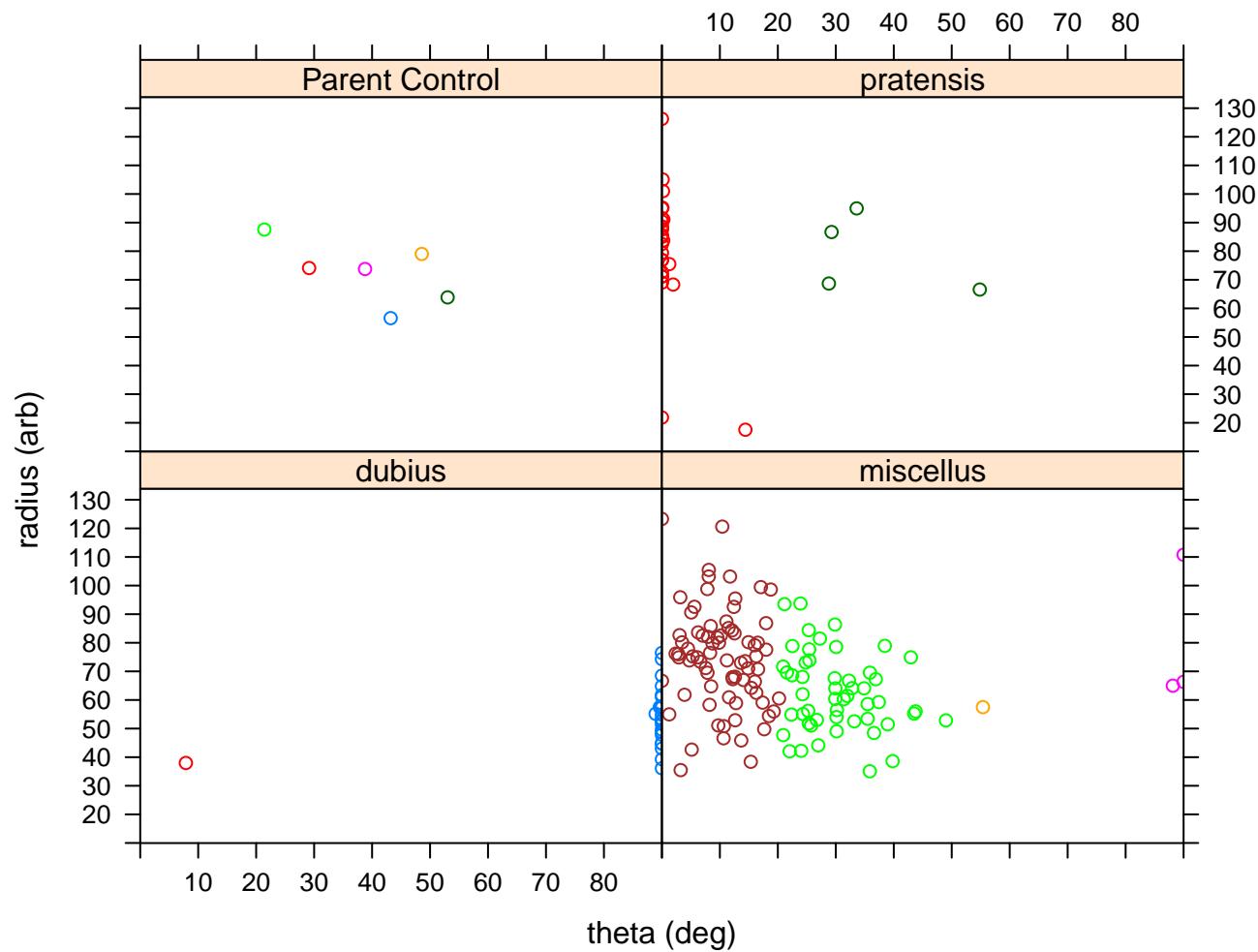
HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		



V_2_5_isotig16335_255 cDNA

Call

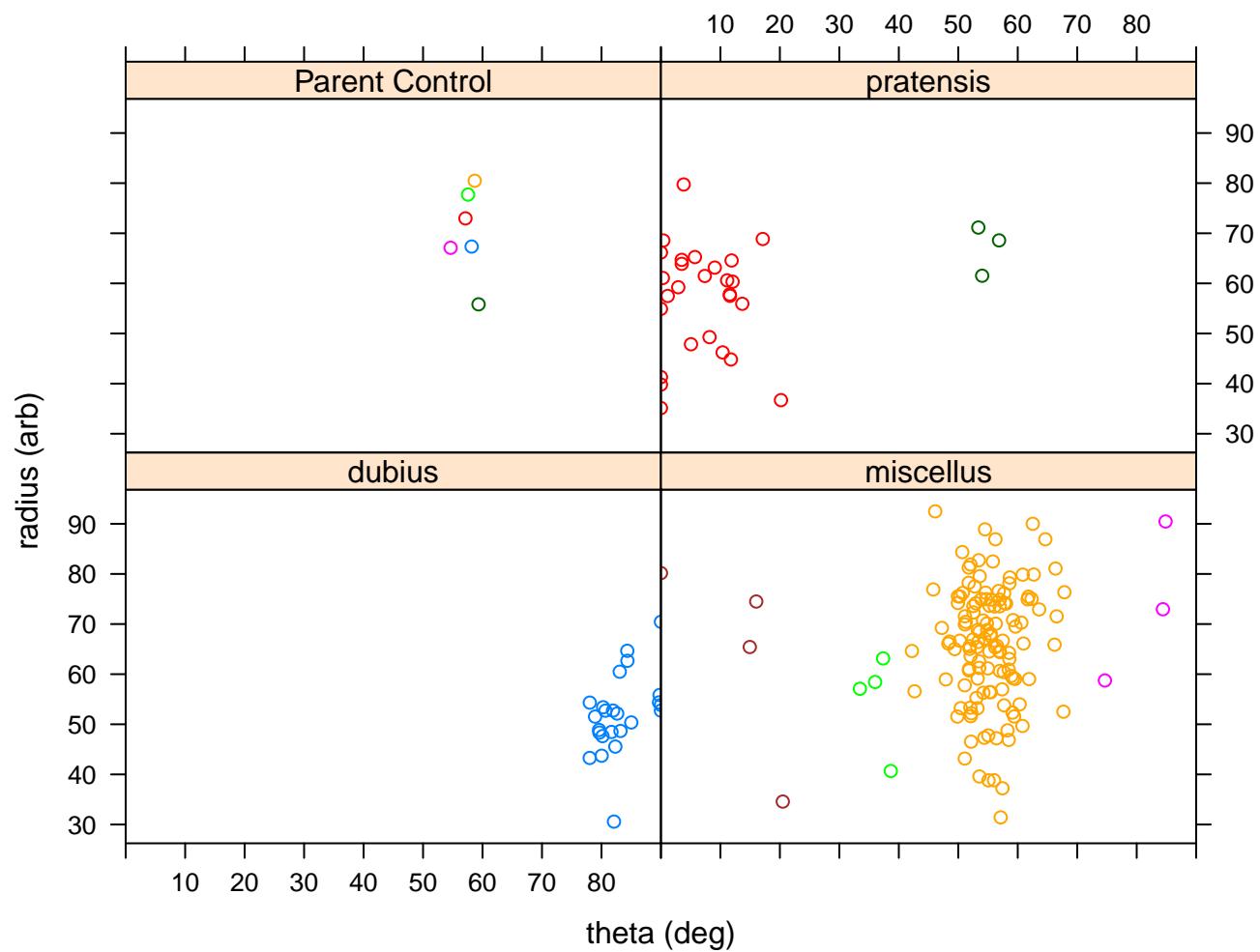
HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		



V_2_5_isotig16457_332 gDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		

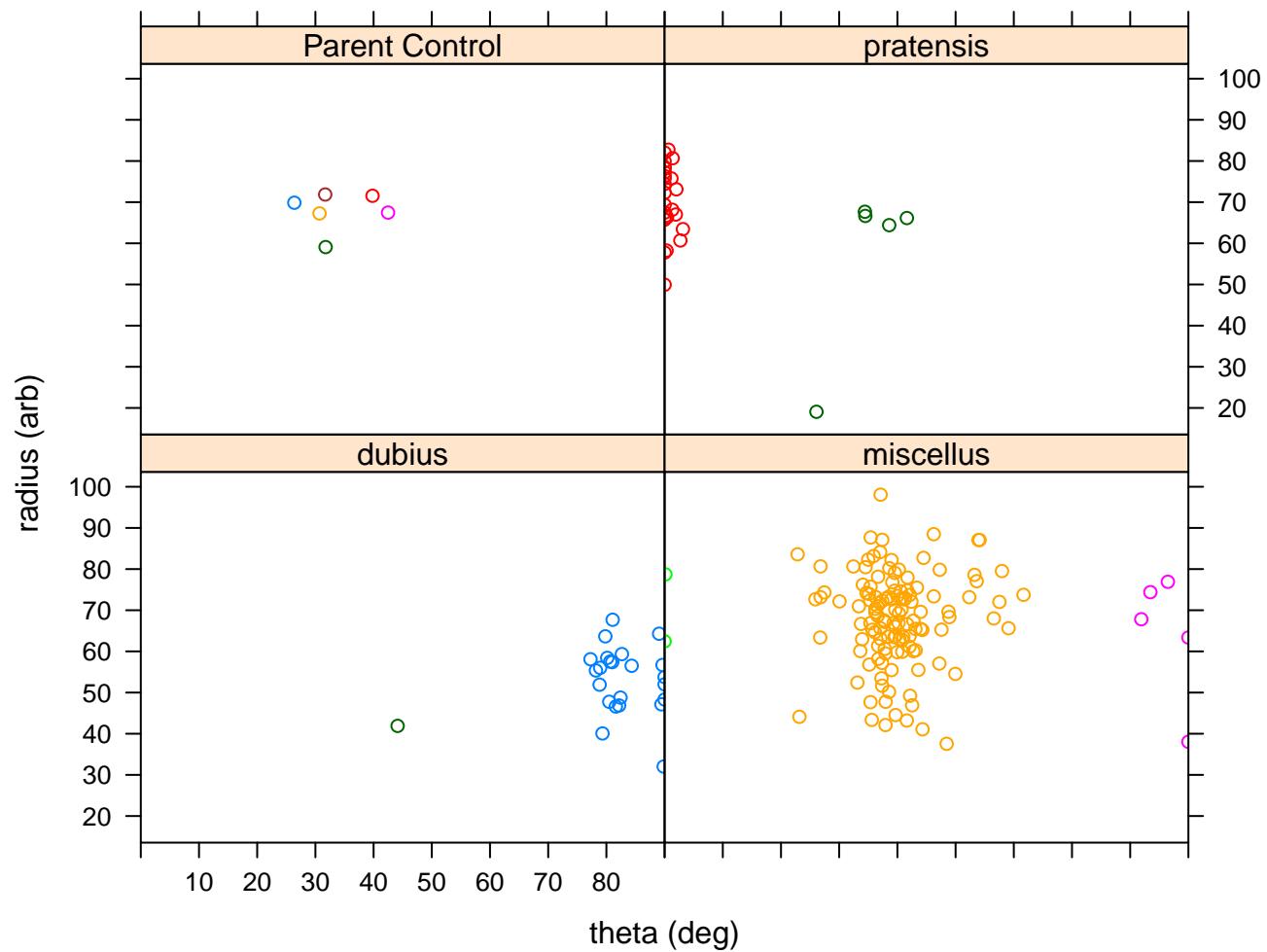


V_2_5_isotig16457_332 cDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○

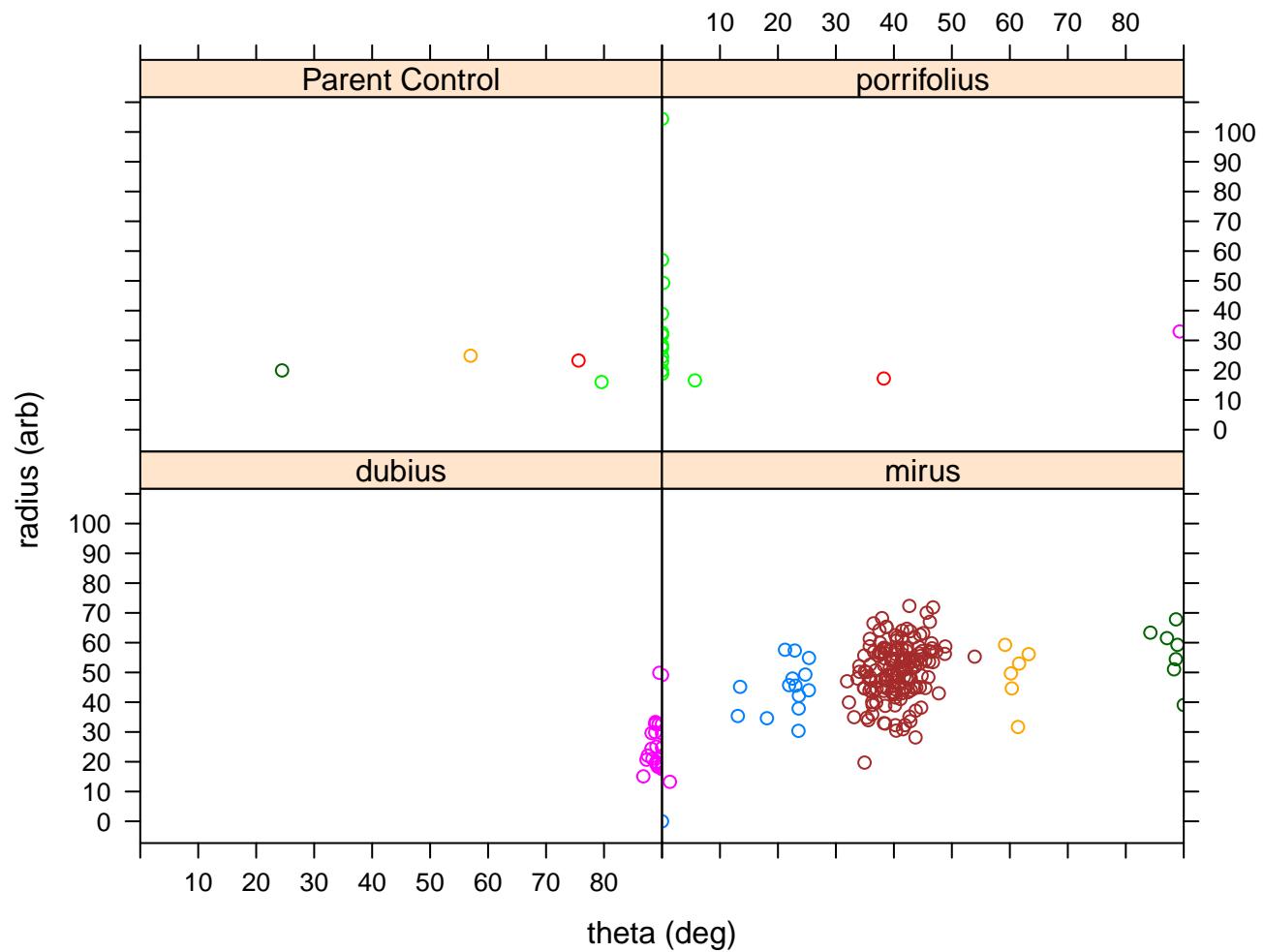
10 20 30 40 50 60 70 80



V_2_5_isotig16510_240 gDNA

Call

Bad_Spectrum	○	LLLH	○
HH	○	LLLL	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LHHH	○	PM2_1_2	○
LL	○	PM2_2_1	○
LLHH	○		



V_2_5_isotig16510_240 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

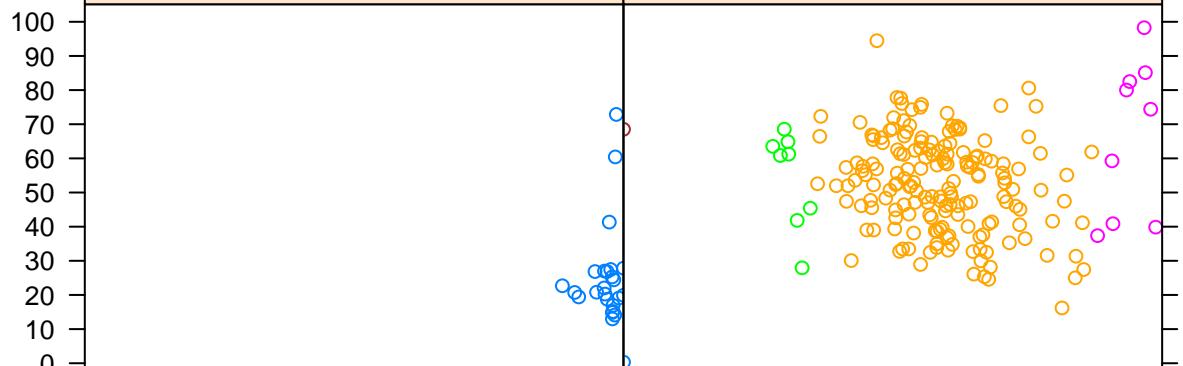
Parent Control

porrifolius

100
90
80
70
60
50
40
30
20
10
0

dubius

mirus



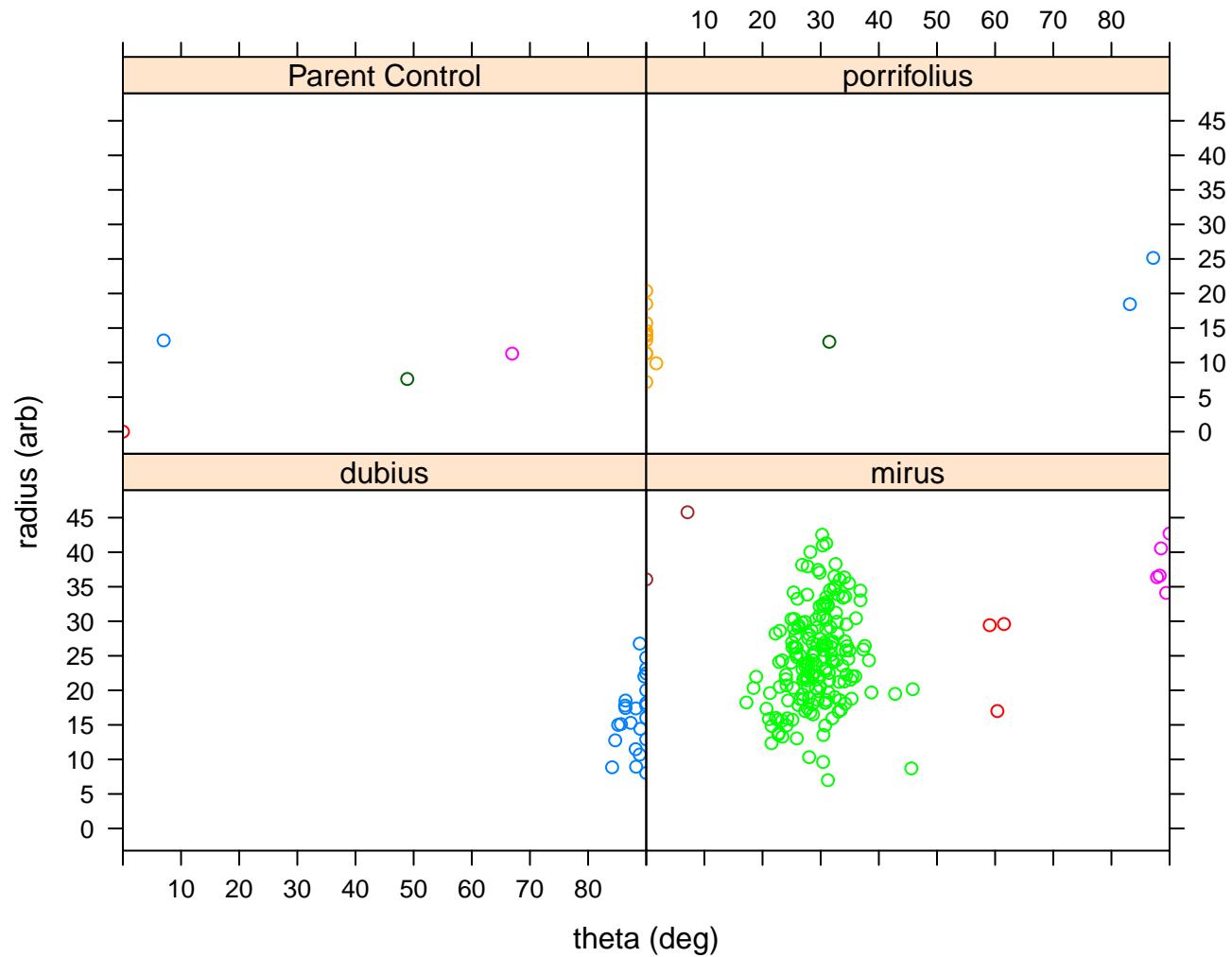
10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig16518_101 gDNA

Call

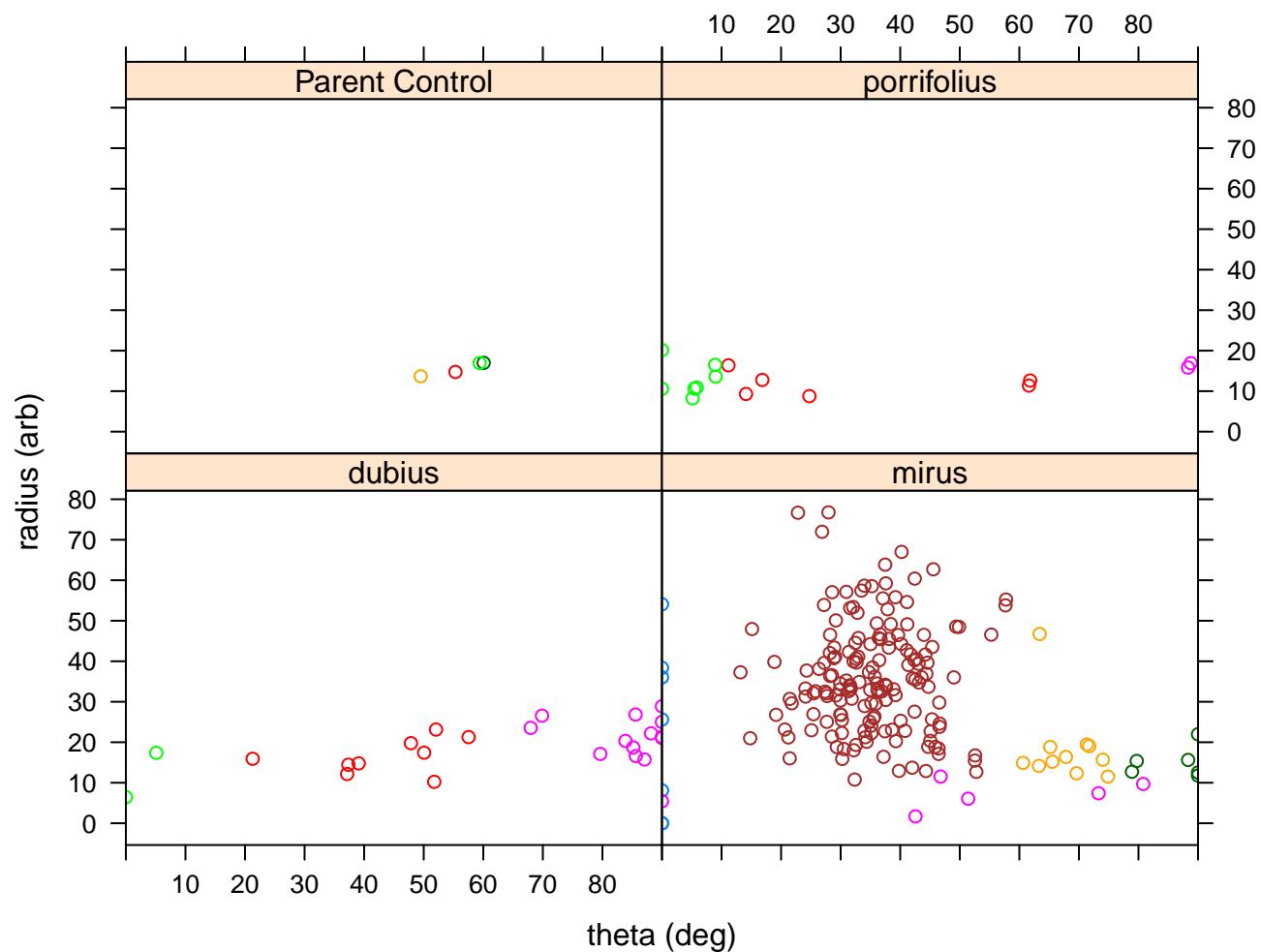
HH	○	LLLL	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LHHH	○	PM2_1_2	○
LL	○	PM2_2_1	○
LLHH	○		



V_2_5_isotig16518_101 cDNA

Call

Bad_Spectrum	○	LLLL	○
HH	○	No_Alleles	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LHHH	○	PM2_1_2	○
LL	○	PM2_2_1	○
LLHH	○		



V_2_5_isotig16526_397 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

120
110
100
90
80
70
60
50
40
30
20
10

dubius

miscellus

120
110
100
90
80
70
60
50
40
30
20
10

10 20 30 40 50 60 70 80

theta (deg)

radius (arb)

V_2_5_isotig16526_397 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

160
140
120
100
80
60
40
20
0

dubius

miscellus

radius (arb)

160
140
120
100
80
60
40
20
0

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig16537_135 gDNA

Call

HH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

65
60
55
50
45
40
35
30
25
20
15

dubius

miscellus

65
60
55
50
45
40
35
30
25
20
15

radius (arb)

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig16537_135 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

90
80
70
60
50
40
30
20
10
0

dubius

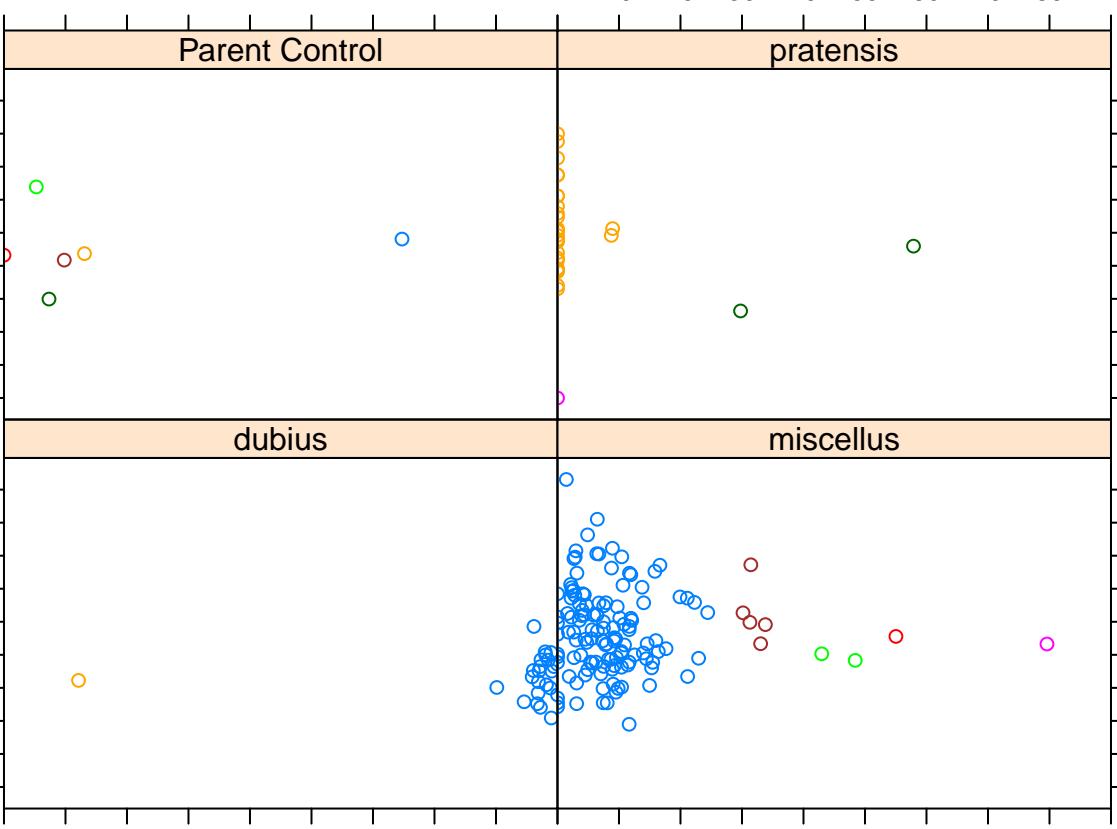
miscellus

radius (arb)

90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig16537_159 cDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
No_Alleles	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

radius (arb)

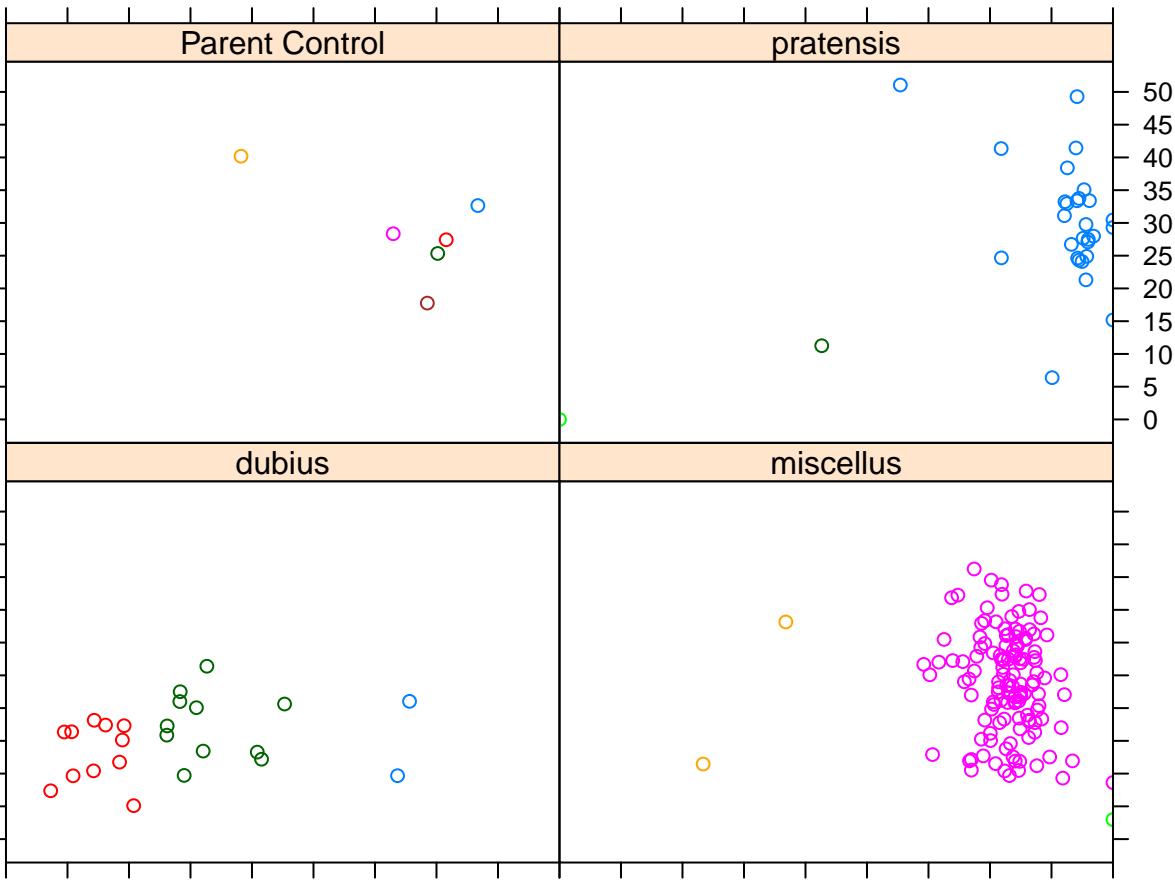
50
45
40
35
30
25
20
15
10
5
0

dubius

miscellus

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig16537_274 gDNA

Call

Bad_Spectrum	○	PM1	○
HH	○	PM2_1_1	○
HHHH	○	PM2_1_2	○
LH	○	PM2_2_1	○
LHHH	○	PM3_1_1	○
LL	○	PM3_1_2	○
LLHH	○	PM3_2_1	○
LLLH	○	PM4	○
LLLL	○	PM5	○
No_Alleles	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

110
100
90
80
70
60
50
40
30
20
10
0

radius (arb)

dubius

mirus

110
100
90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)

110
100
90
80
70
60
50
40
30
20
10
0

V_2_5_isotig16537_274 gDNA

Call

HH	○	PM2_1_2	○
LH	○	PM2_2_1	○
LHHH	○	PM3_1_1	○
LL	○	PM3_1_2	○
LLHH	○	PM3_2_1	○
LLLH	○	PM4	○
PM1	○	PM5	○
PM2_1_1	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

radius (arb)

120
100
80
60
40
20
0

dubius

miscellus

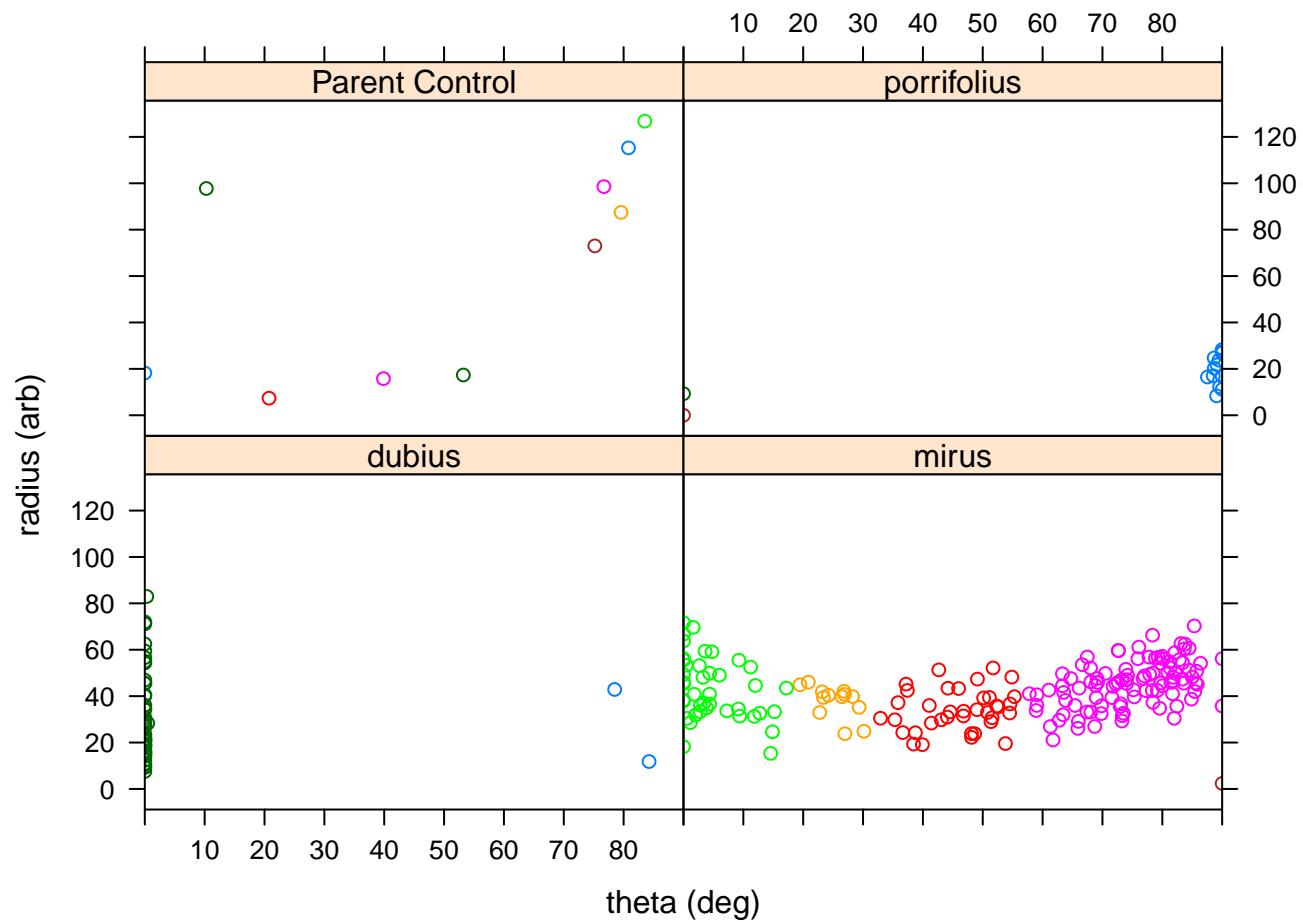
10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig16537_274 cDNA

Call

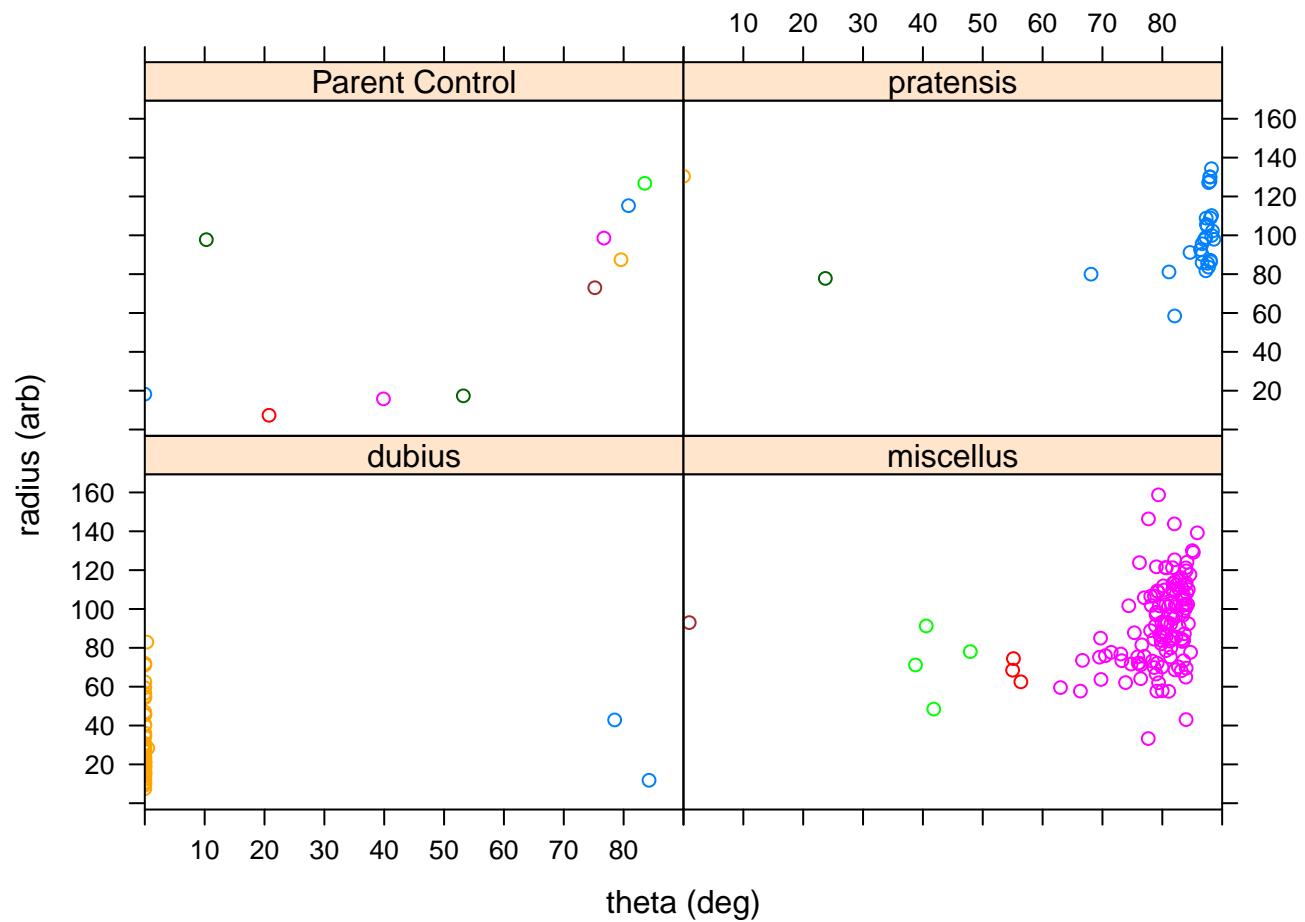
HH	○	PM2_1_2	○
HHHH	○	PM2_2_1	○
LL	○	PM3_1_1	○
LLHH	○	PM3_1_2	○
LLLH	○	PM3_2_1	○
LLLL	○	PM4	○
No_Alleles	○	PM5	○
PM1	○	PM6	○
PM2_1_1	○		



V_2_5_isotig16537_274 cDNA

Call

HH	○	PM2_1_2	○
HHHH	○	PM2_2_1	○
LH	○	PM3_1_1	○
LHHH	○	PM3_1_2	○
LL	○	PM3_2_1	○
LLHH	○	PM4	○
LLLL	○	PM5	○
PM1	○	PM6	○
PM2_1_1	○		



V_2_5_isotig16537_339 gDNA

Call

HH	○	PM2_1_2	○
LH	○	PM2_2_1	○
LHHH	○	PM3_1_1	○
LL	○	PM3_1_2	○
LLHH	○	PM3_2_1	○
LLLH	○	PM4	○
PM1	○	PM5	○
PM2_1_1	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

60
55
50
45
40
35
30
25
20
15
10

dubius

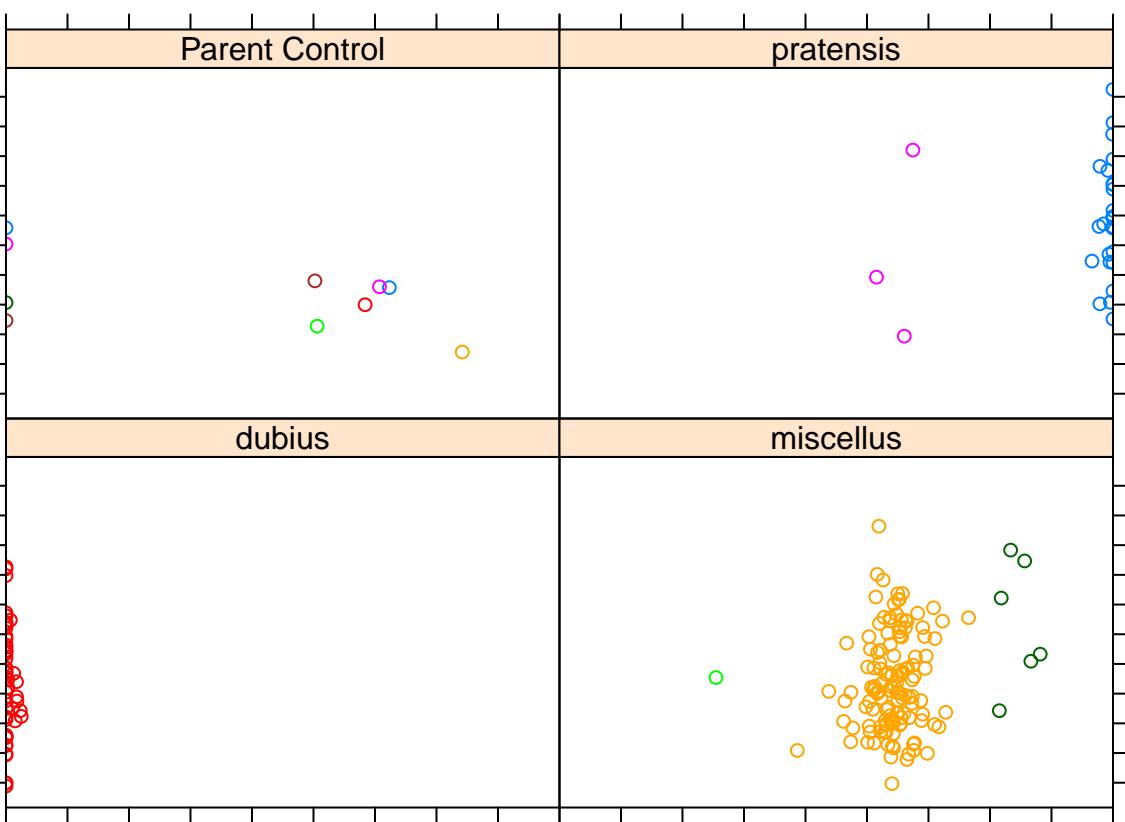
miscellus

radius (arb)

60
55
50
45
40
35
30
25
20
15
10

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig16537_339 cDNA

Call

HH	○	PM2_1_2	○
HHHH	○	PM2_2_1	○
LH	○	PM3_1_1	○
LL	○	PM3_1_2	○
LLLL	○	PM3_2_1	○
No_Alleles	○	PM4	○
PM1	○	PM5	○
PM2_1_1	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

radius (arb)

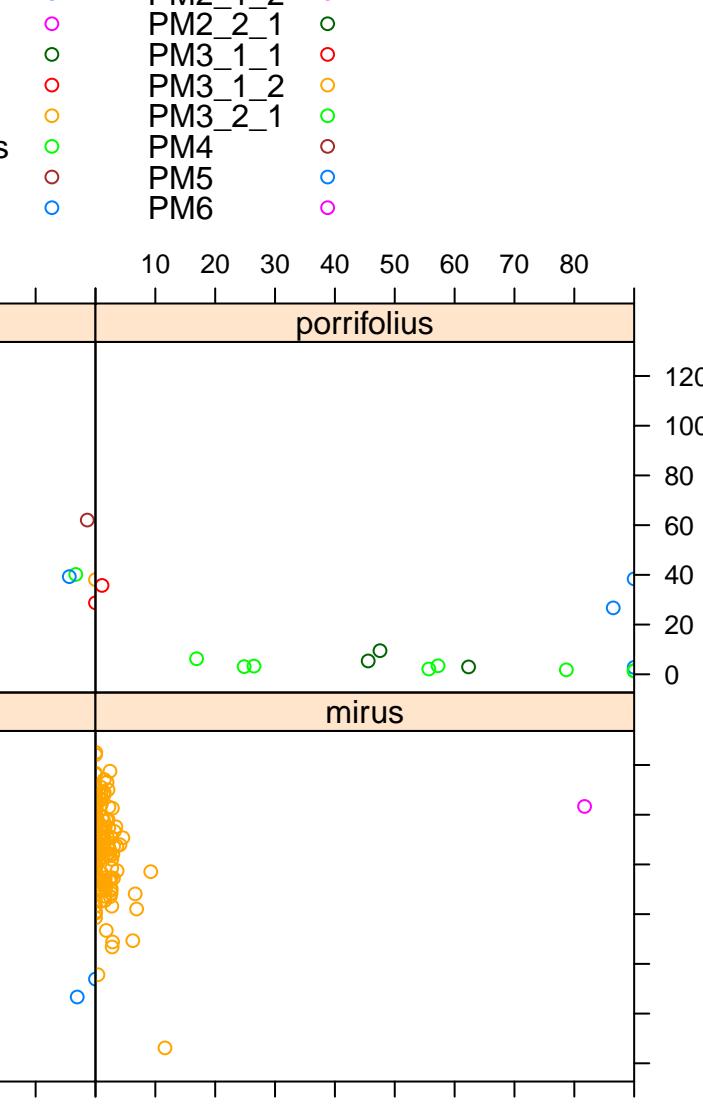
120
100
80
60
40
20
0

dubius

mirus

10 20 30 40 50 60 70 80

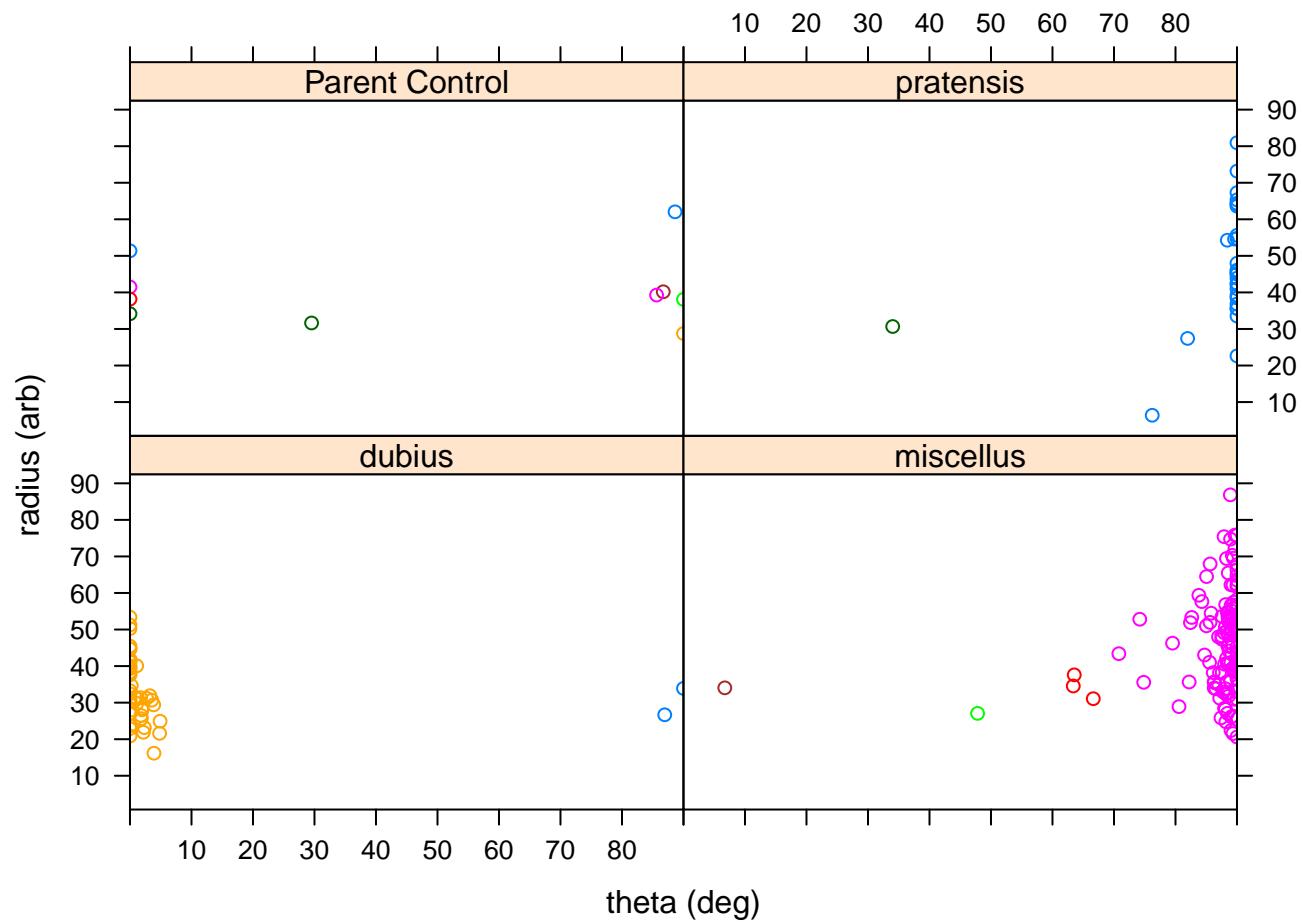
theta (deg)



V_2_5_isotig16537_339 cDNA

Call

HH	○	PM2_1_2	○
HHHH	○	PM2_2_1	○
LH	○	PM3_1_1	○
LHHH	○	PM3_1_2	○
LL	○	PM3_2_1	○
LLHH	○	PM4	○
LLLL	○	PM5	○
PM1	○	PM6	○
PM2_1_1	○		



V_2_5_isotig16537_375 gDNA

Call

HH	○	PM2_1_1	○
HHHH	○	PM2_1_2	○
LH	○	PM2_2_1	○
LL	○	PM3_1_1	○
LLHH	○	PM3_1_2	○
LLLH	○	PM3_2_1	○
LLLL	○	PM4	○
No_Alleles	○	PM5	○
PM1	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

110
100
90
80
70
60
50
40
30
20
10
0

dubius

mirus

radius (arb)

110
100
90
80
70
60
50
40
30
20
10
0

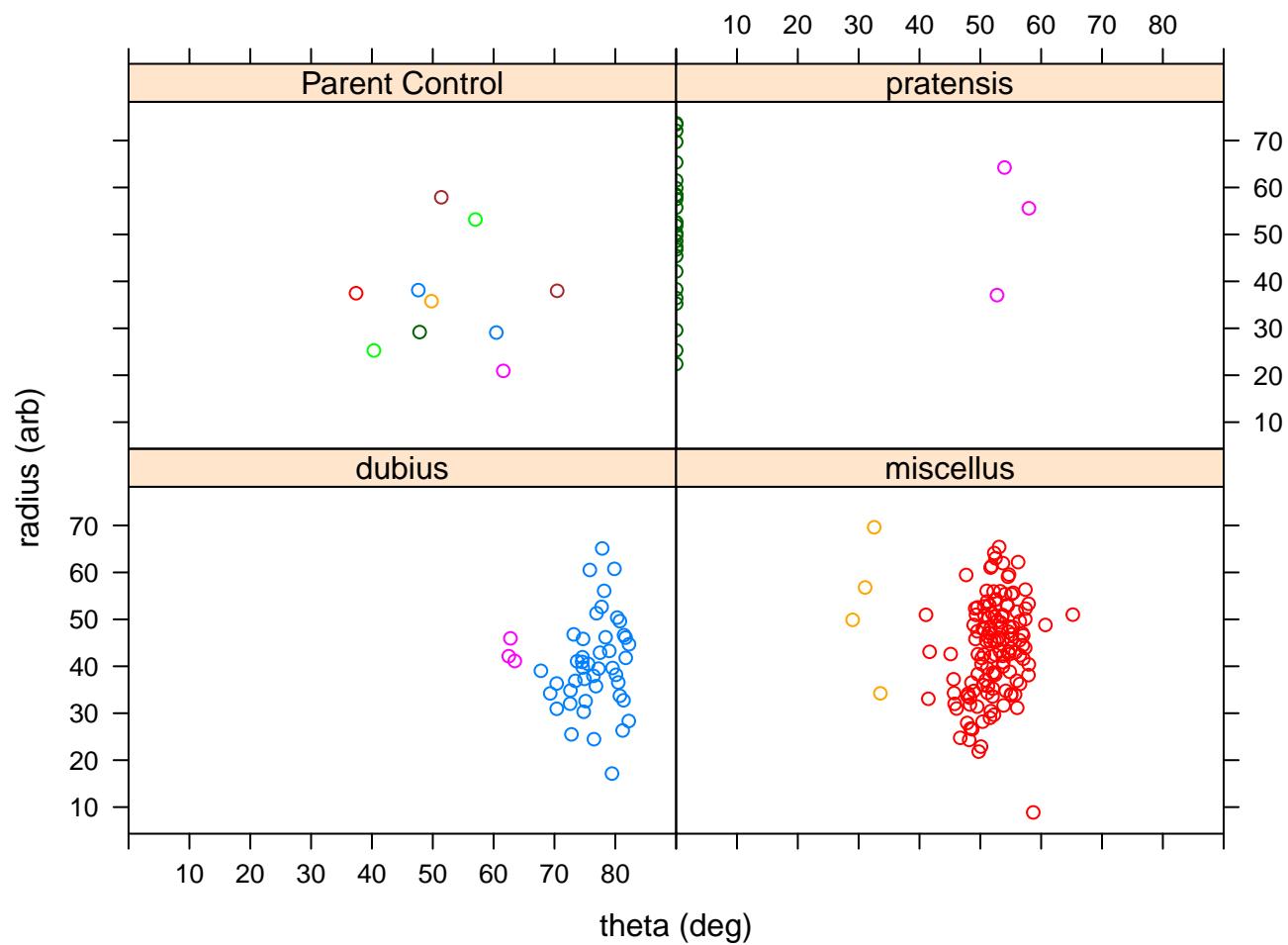
10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig16537_375 gDNA

Call

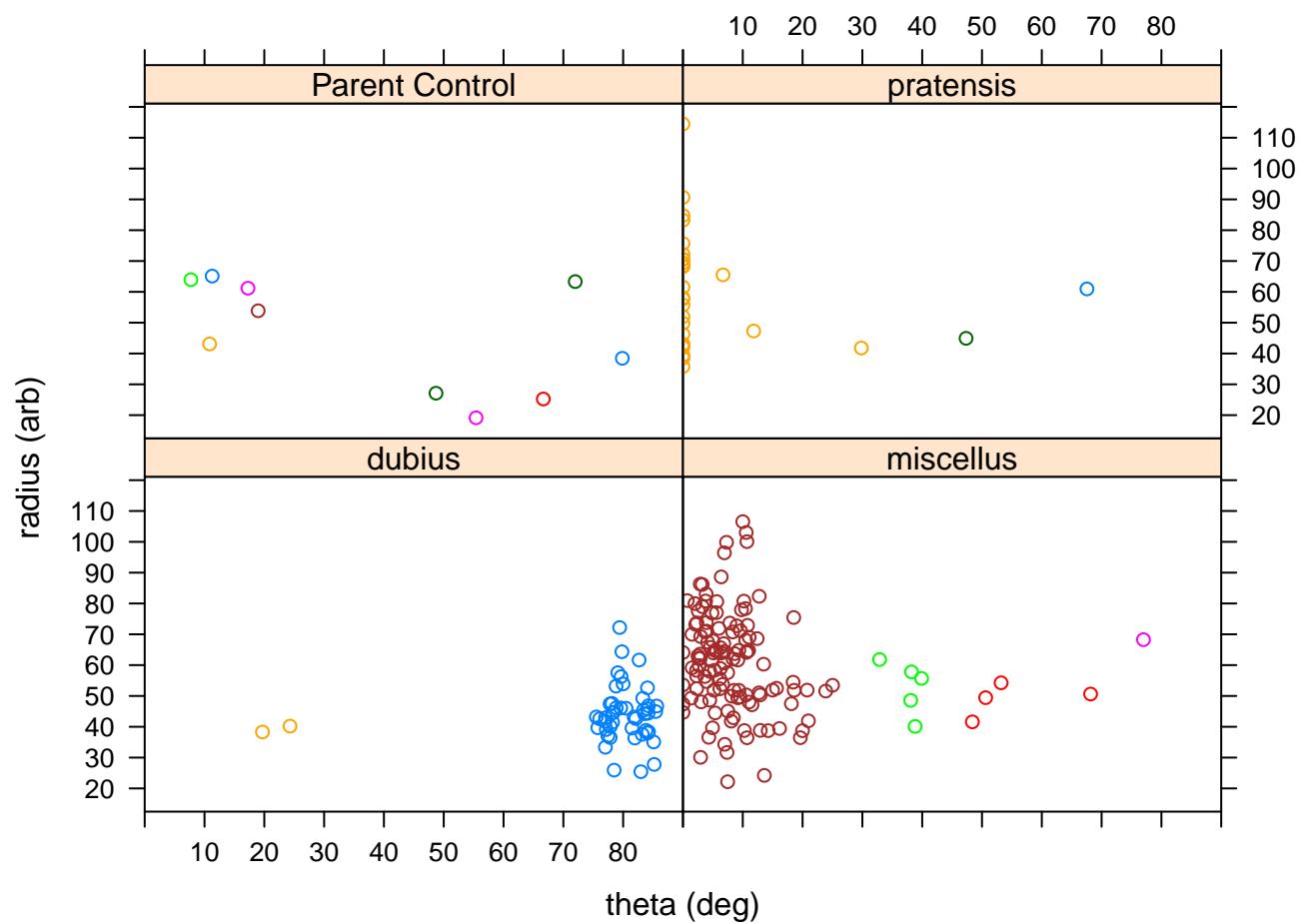
HH	○	PM2_2_1	○
LH	○	PM3_1_1	○
LL	○	PM3_1_2	○
LLHH	○	PM3_2_1	○
LLLH	○	PM4	○
PM1	○	PM5	○
PM2_1_1	○	PM6	○
PM2_1_2	○		



V_2_5_isotig16537_375 cDNA

Call

HH	○	PM2_1_2	○
HHHH	○	PM2_2_1	○
LH	○	PM3_1_1	○
LHHH	○	PM3_1_2	○
LL	○	PM3_2_1	○
LLHH	○	PM4	○
LLLL	○	PM5	○
PM1	○	PM6	○
PM2_1_1	○		



V_2_5_isotig16537_39 gDNA

Call

HH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LL	○	PM3_2_1	○
LLHH	○	PM4	○
LLLH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

dubius

miscellus

radius (arb)

70

60

50

40

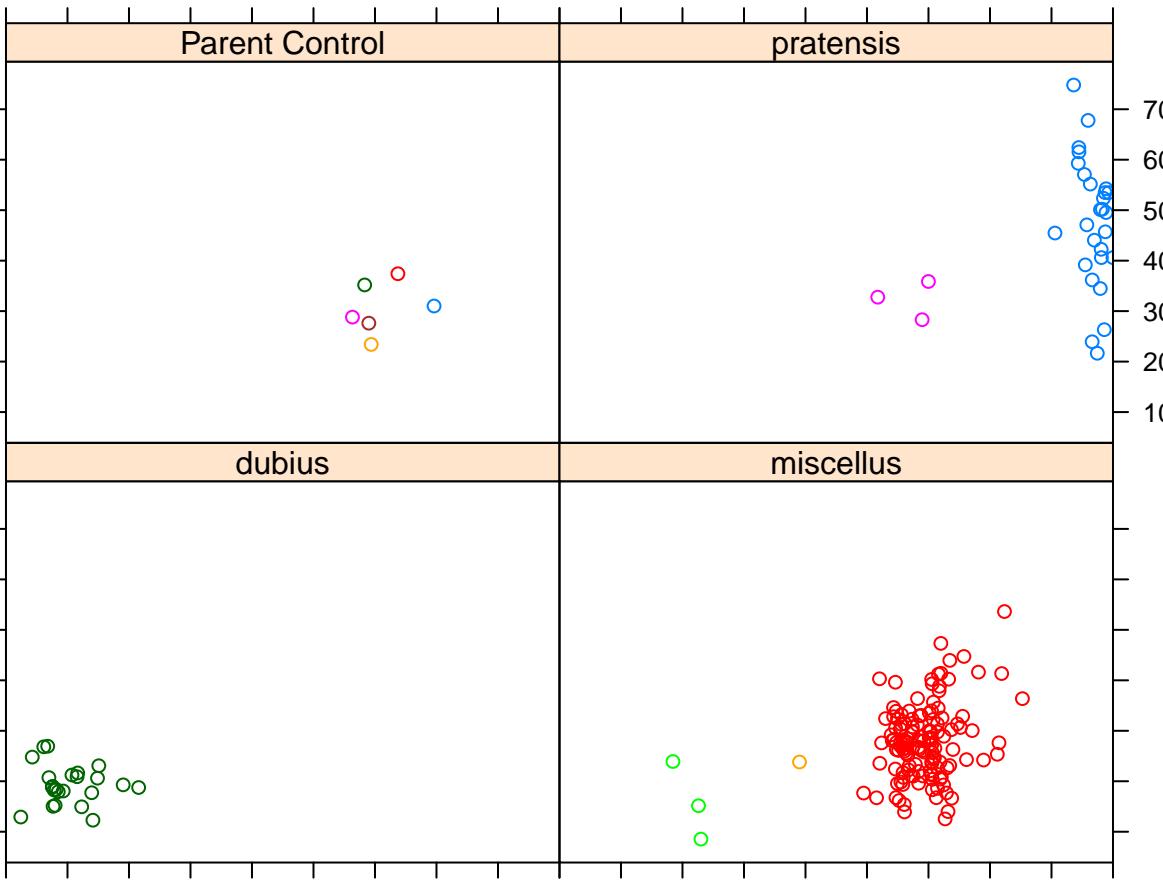
30

20

10

10 20 30 40 50 60 70 80

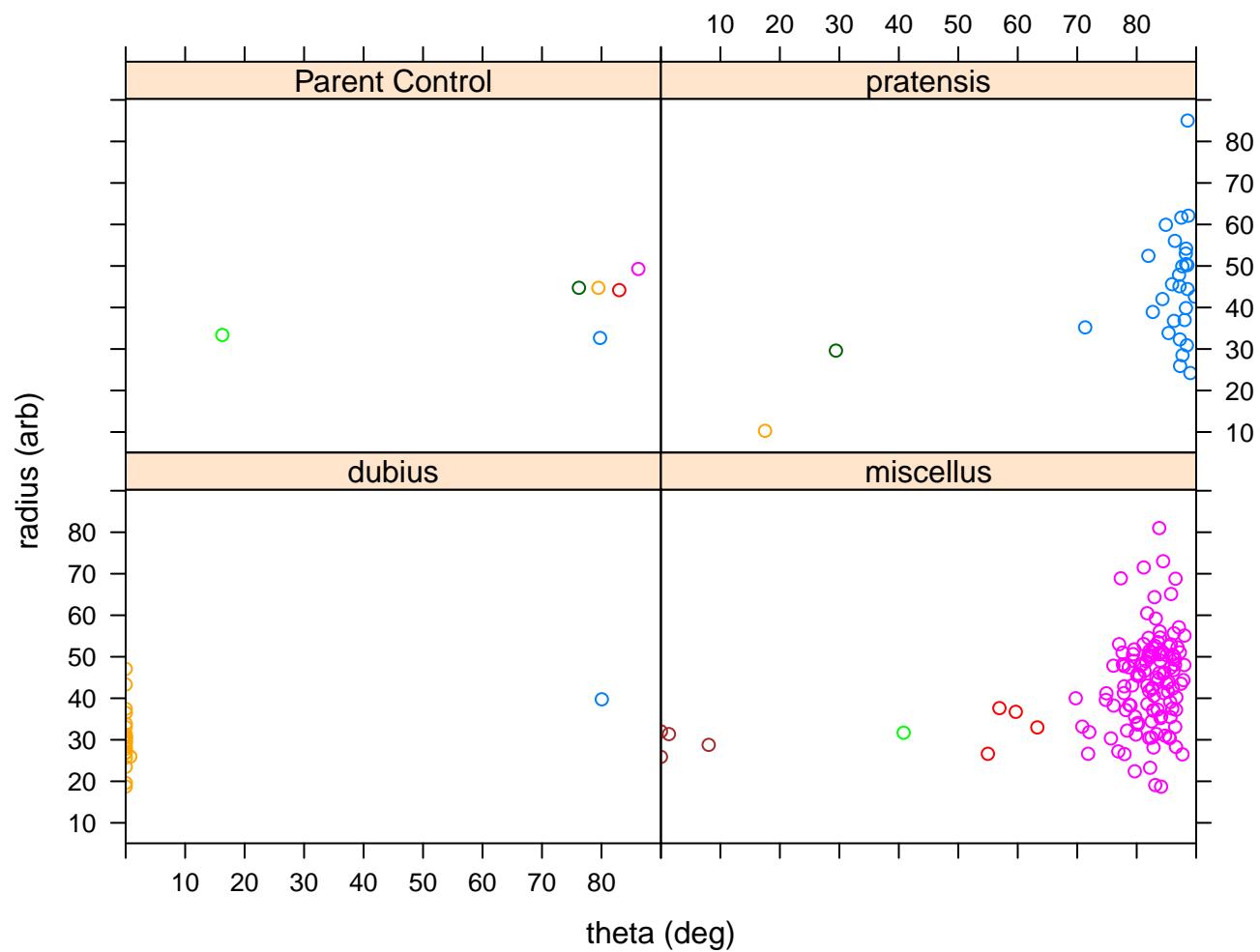
theta (deg)



V_2_5_isotig16537_39 cDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LHHH	○	PM4	○
LL	○	PM5	○
LLHH	○	PM6	○
LLLL	○		



V_2_5_isotig16537_407 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

160
140
120
100
80
60
40
20
0

dubius

mirus

160
140
120
100
80
60
40
20
0

10 20 30 40 50 60 70 80

theta (deg)

radius (arb)

V_2_5_isotig16546_295 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LHHH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

160
140
120
100
80
60
40
20
0

dubius

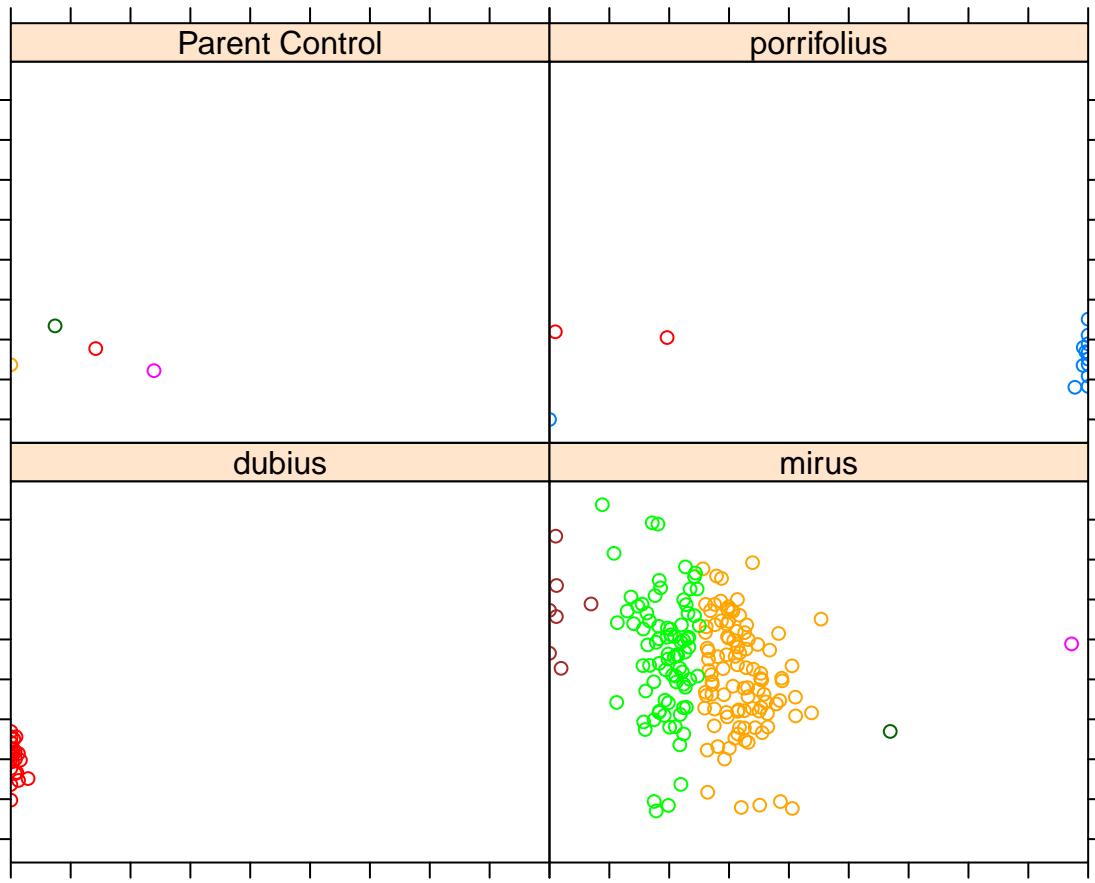
mirus

160
140
120
100
80
60
40
20
0

10 20 30 40 50 60 70 80

theta (deg)

radius (arb)



V_2_5_isotig16546_295 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLL	○		

10 20 30 40 50 60 70 80

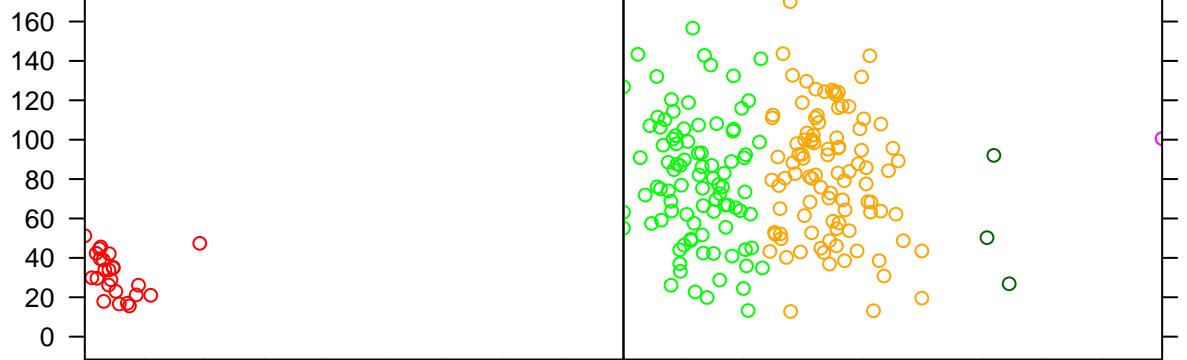
Parent Control

porrifolius

160
140
120
100
80
60
40
20
0

dubius

mirus

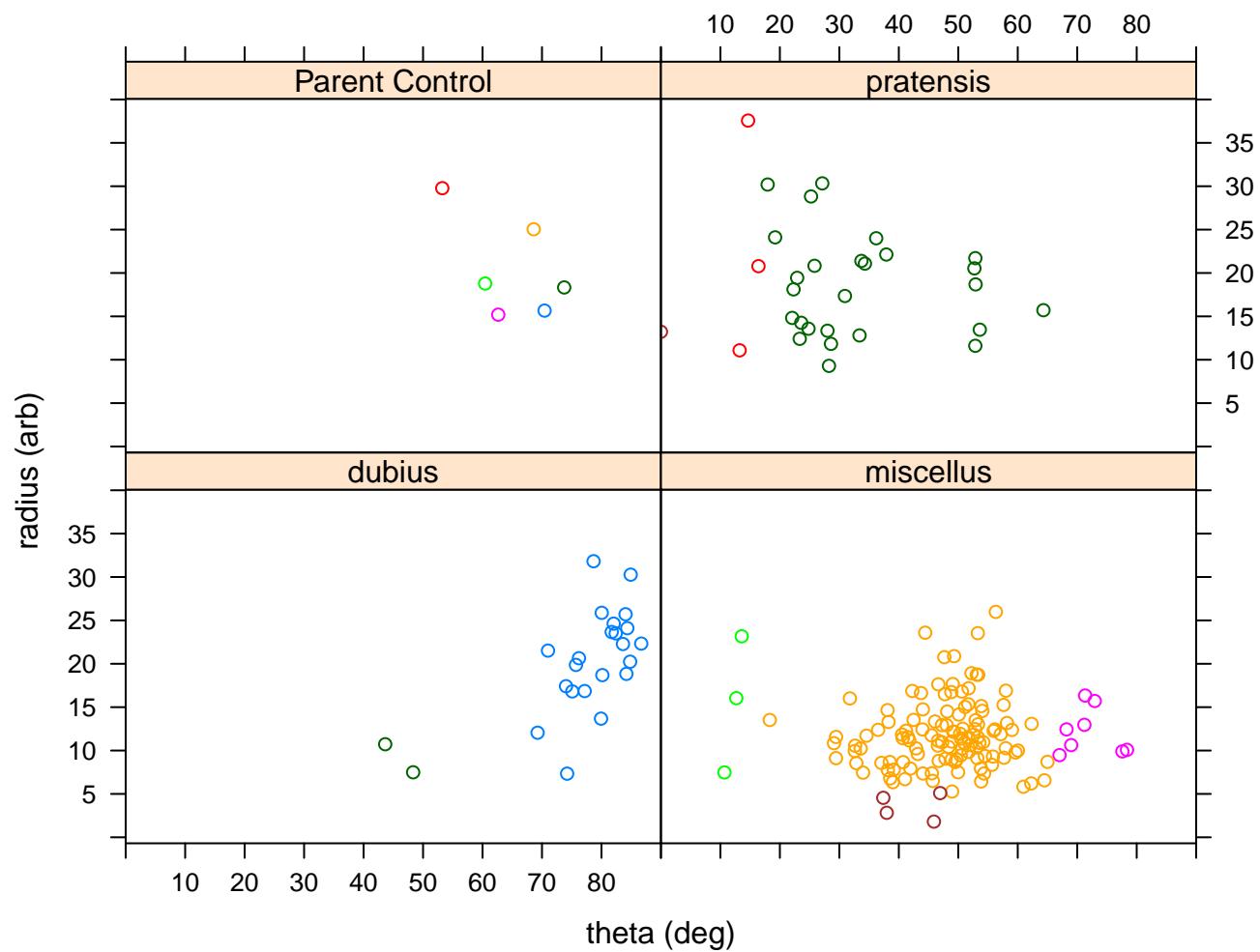


theta (deg)

V_2_5_isotig16554_332 cDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○
No_Alleles	○		



V_2_5_isotig16676_487 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

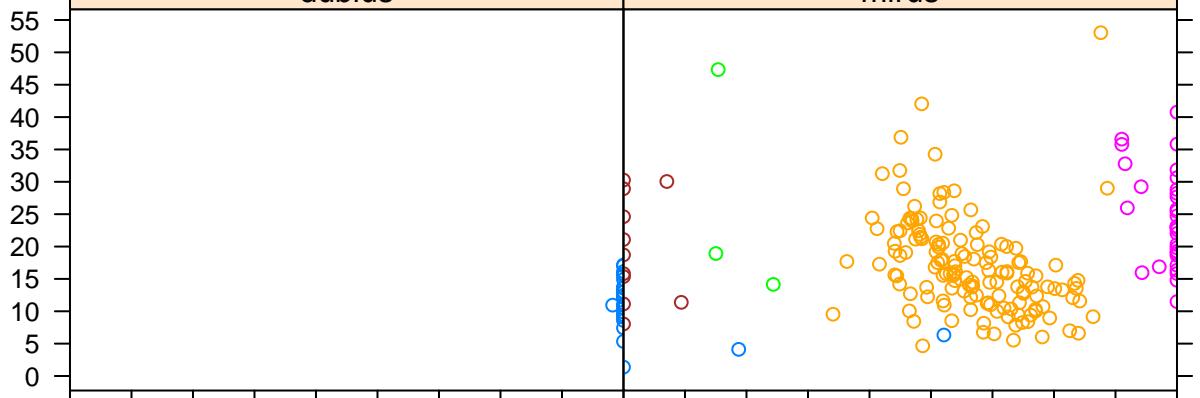
porrifolius

55
50
45
40
35
30
25
20
15
10
5
0

dubius

mirus

radius (arb)



10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig16676_487 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLL	○		

10 20 30 40 50 60 70 80

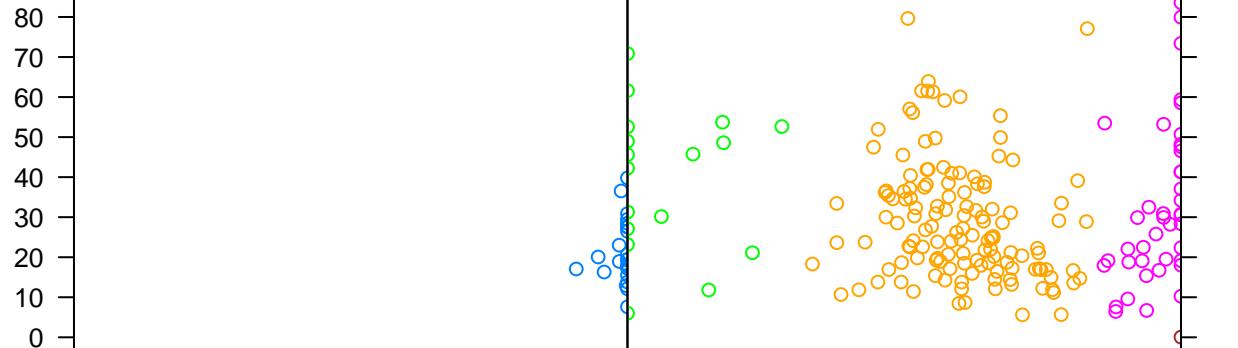
Parent Control

porrifolius

80
70
60
50
40
30
20
10
0

dubius

mirus



theta (deg)

V_2_5_isotig16704_256 gDNA

Call

HH	○	LLLH	○
HHHH	○	LLLL	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

100
90
80
70
60
50
40
30
20
10

dubius

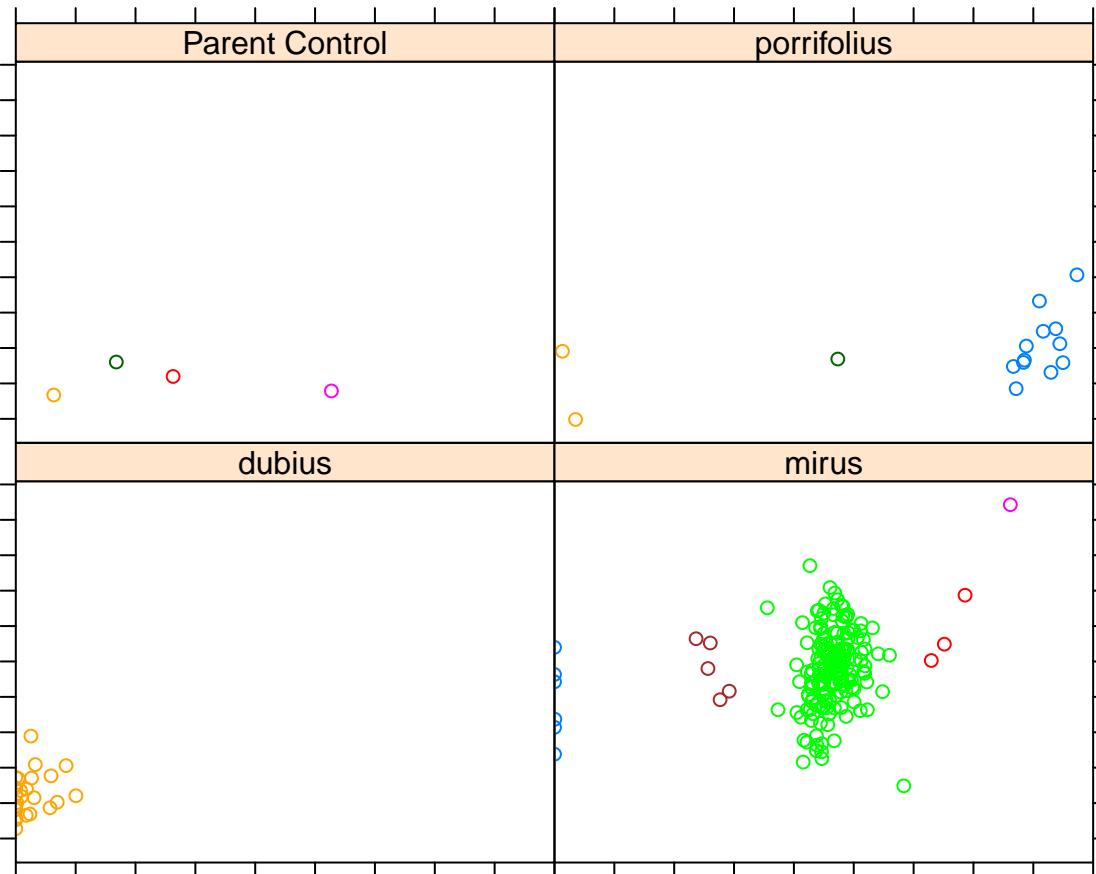
mirus

100
90
80
70
60
50
40
30
20
10

10 20 30 40 50 60 70 80

theta (deg)

radius (arb)



V_2_5_isotig16704_256 cDNA

Call

HH	○	LLLL	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		

10 20 30 40 50 60 70 80

Parent Control

porrifolius

100
90
80
70
60
50
40
30
20

dubius

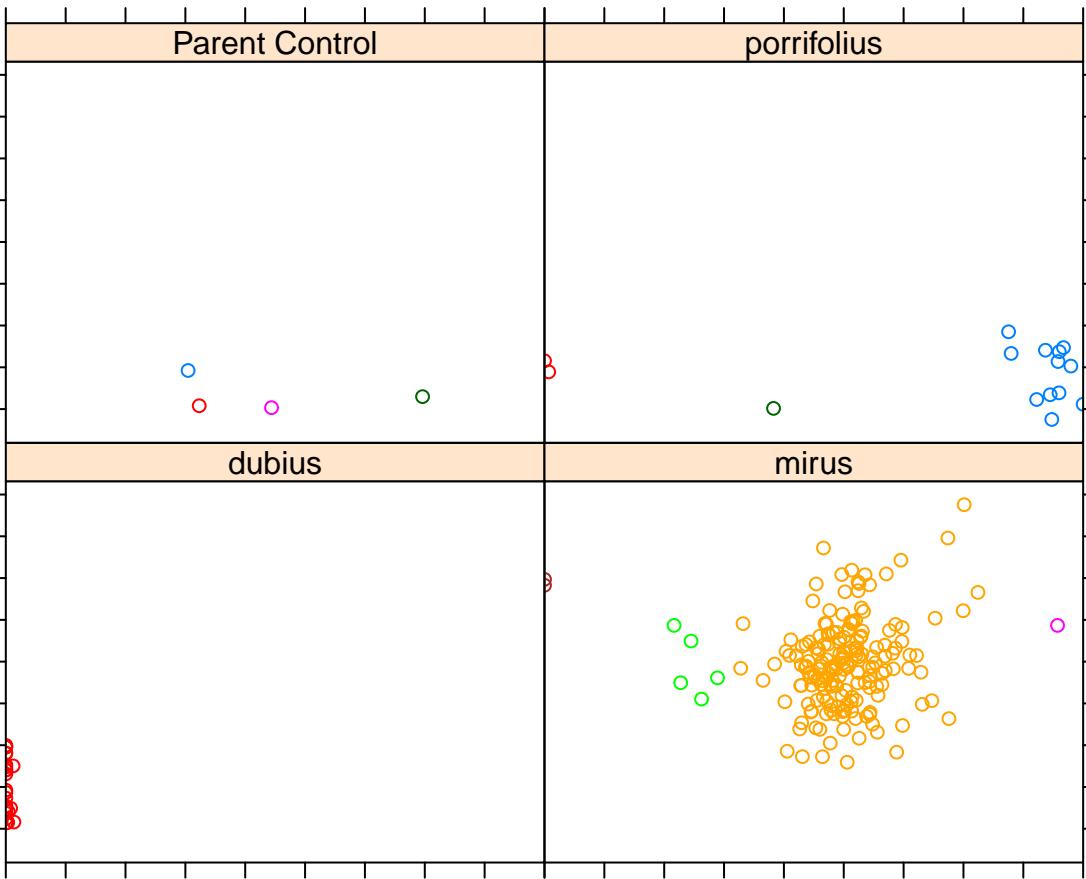
mirus

100
90
80
70
60
50
40
30
20

10 20 30 40 50 60 70 80

theta (deg)

radius (arb)



V_2_5_isotig16729_443 gDNA

Call

HH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
No_Aleles	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

80
70
60
50
40
30
20
10
0

dubius

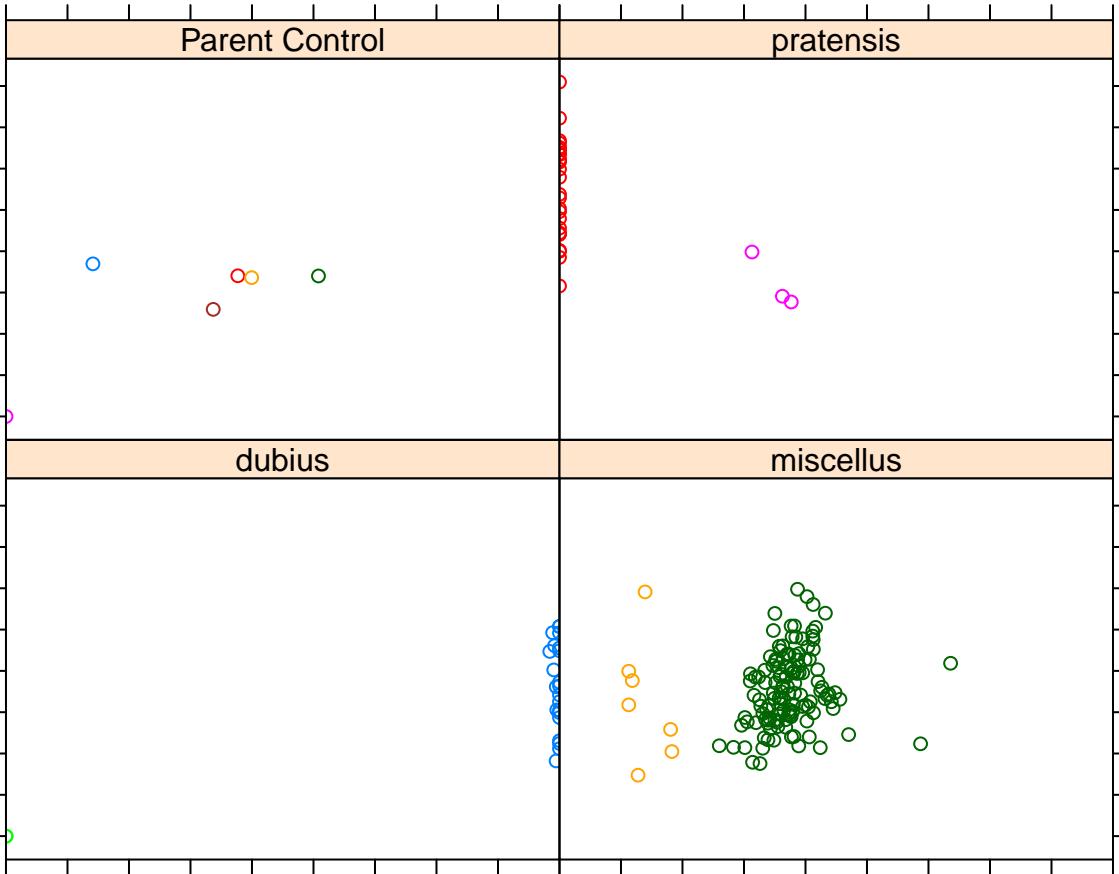
miscellus

radius (arb)

80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig16729_443 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

110
100
90
80
70
60
50
40
30
20
10
0

dubius

miscellus

radius (arb)

110
100
90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig16762_104 gDNA

Call

HH	○	LLLH	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

radius (arb)

45
40
35
30
25
20
15
10
5
0

dubius

mirus

45
40
35
30
25
20
15
10
5
0

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig16769_88 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

140
120
100
80
60
40
20

dubius

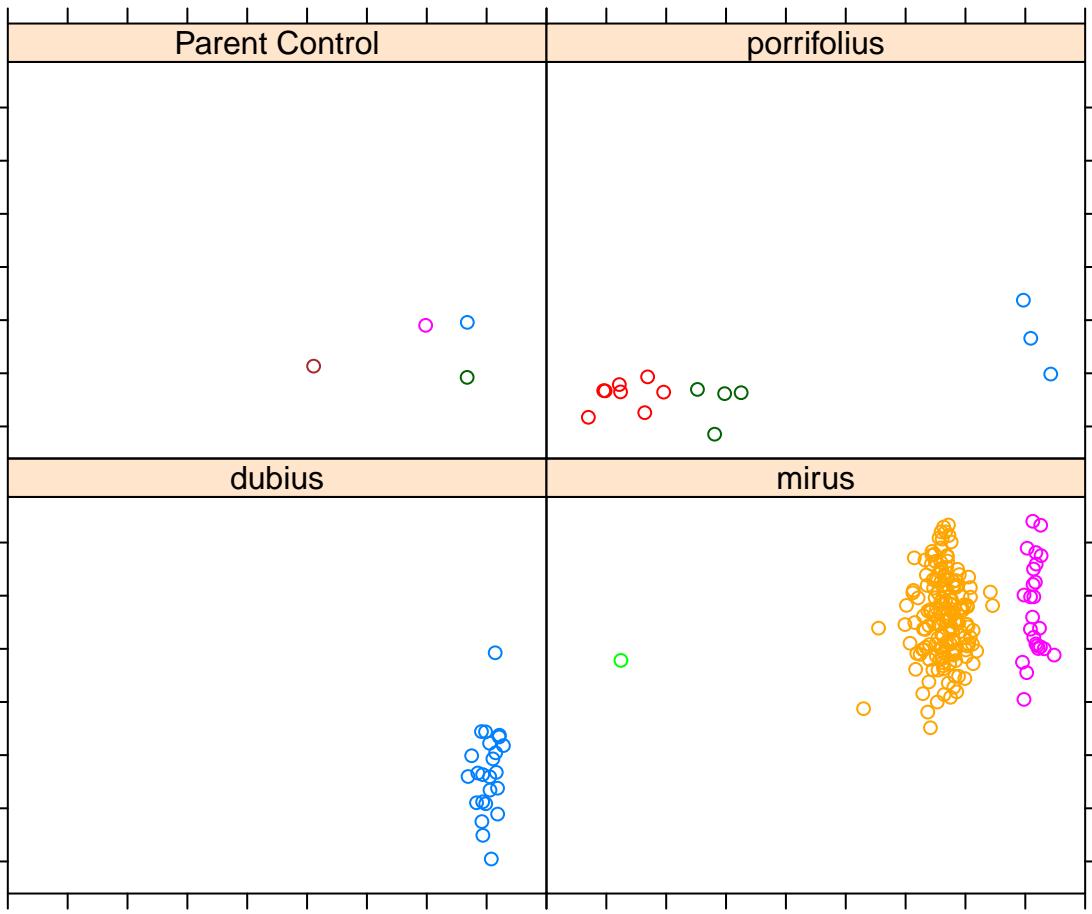
mirus

radius (arb)

140
120
100
80
60
40
20

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig16769_88 cDNA

Call

HH	○	LLLL	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

radius (arb)

dubius

mirus

10 20 30 40 50 60 70 80

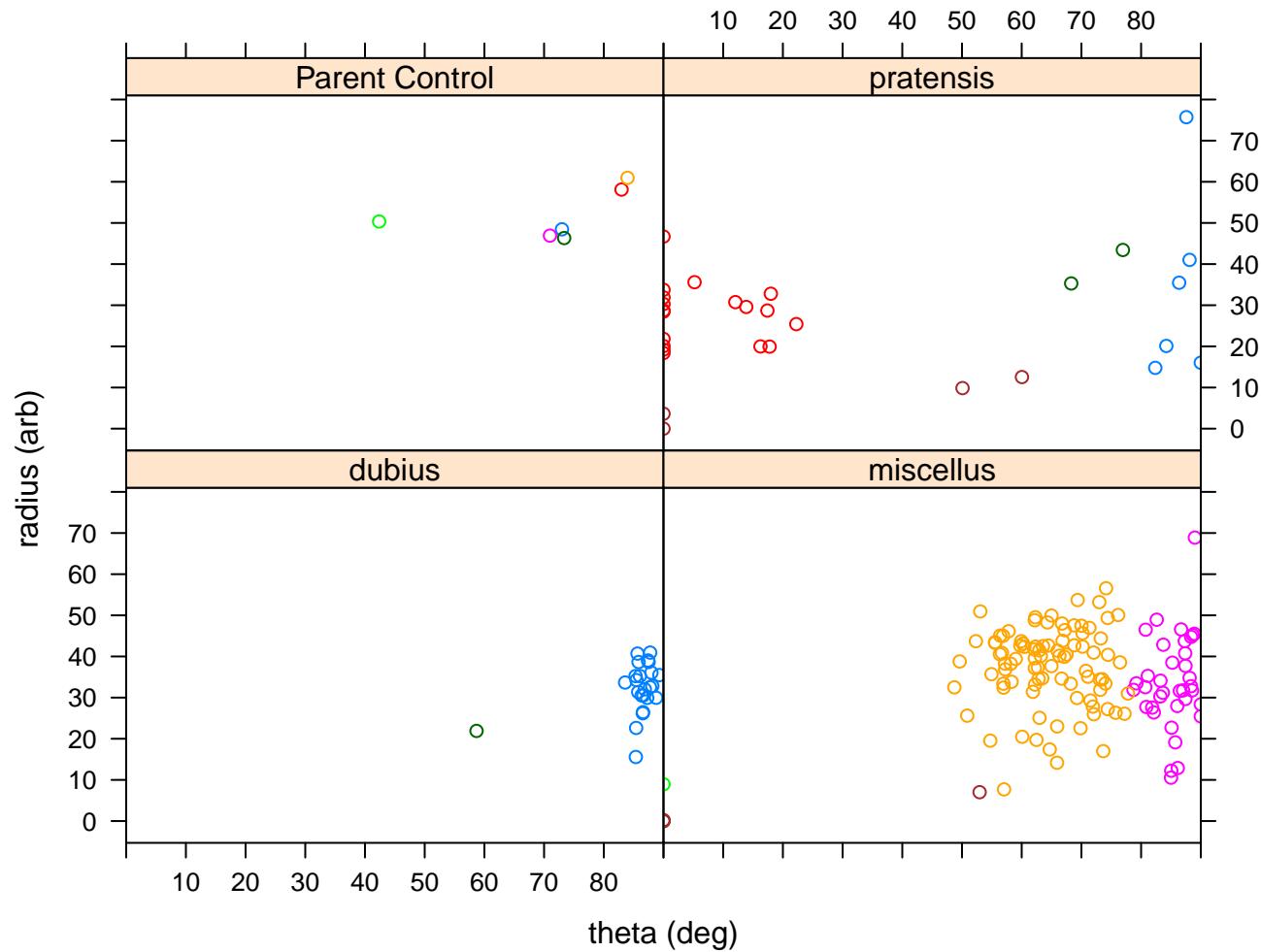
theta (deg)

160
140
120
100
80
60
40
20

V_2_5_isotig16788_164 cDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○
No_Alleles	○		



V_2_5_isotig16788_192 gDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

200
180
160
140
120
100
80
60
40

radius (arb)

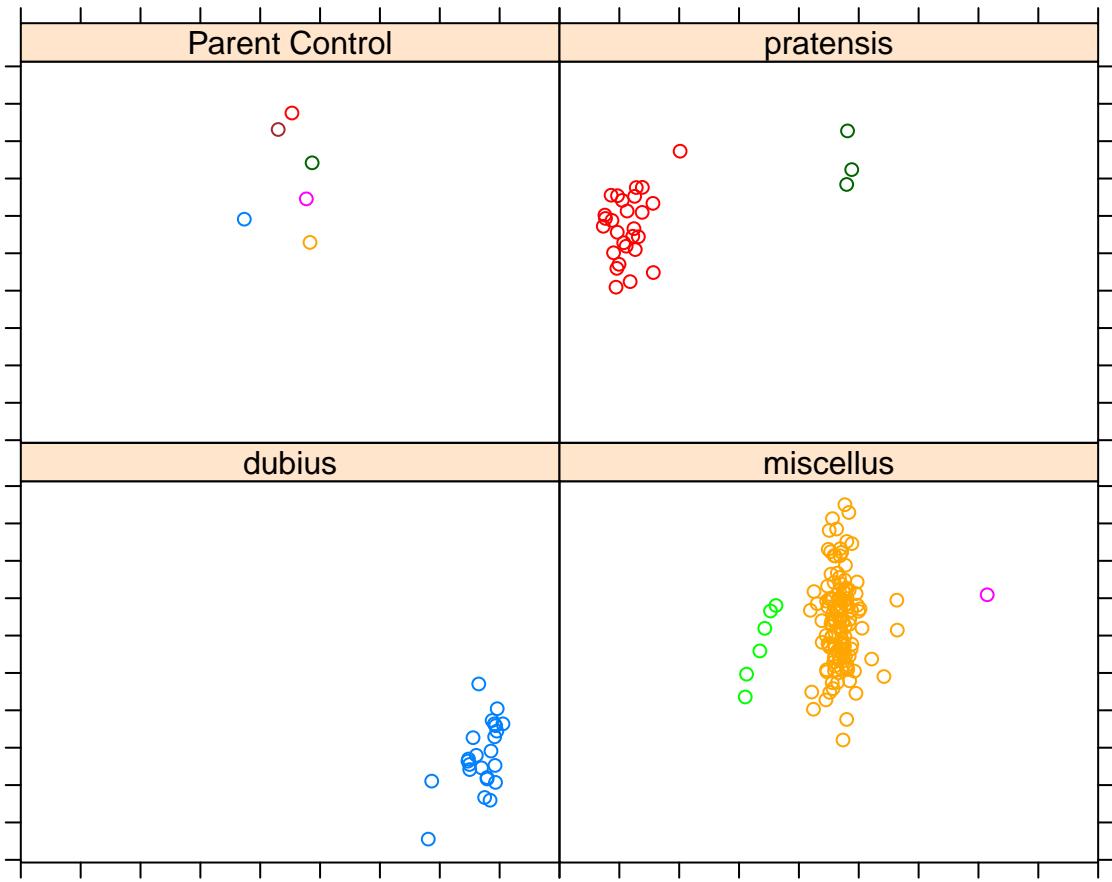
dubius

miscellus

200
180
160
140
120
100
80
60
40

10 20 30 40 50 60 70 80

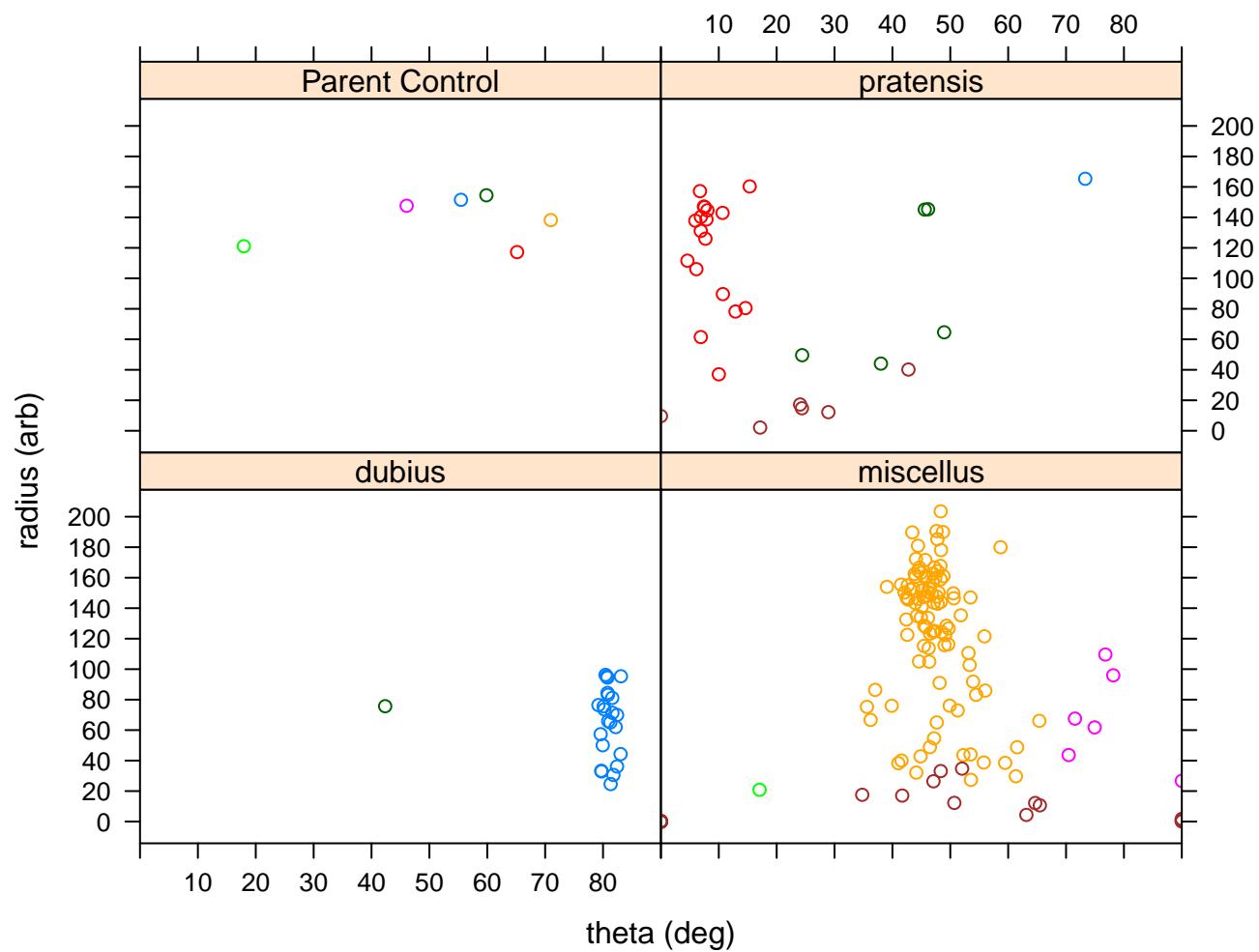
theta (deg)



V_2_5_isotig16788_192 cDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○
No_Alleles	○		



V_2_5_isotig16788_263 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

120
110
100
90
80
70
60
50
40
30
20
10
0

dubius

mirus

120
110
100
90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)

radius (arb)

V_2_5_isotig16788_293 gDNA

Call

HH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

porrifolius

60
55
50
45
40
35
30
25
20
15
10
5

dubius

mirus

60
55
50
45
40
35
30
25
20
15
10
5

radius (arb)

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig16788_293 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		

10 20 30 40 50 60 70 80

Parent Control

porrifolius

100
90
80
70
60
50
40
30
20
10
0

dubius

mirus

radius (arb)

100
90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig16804_391 gDNA

Call

HH	○	LLLH	○
HHHH	○	LLLL	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

90
80
70
60
50
40
30
20
10
0

dubius

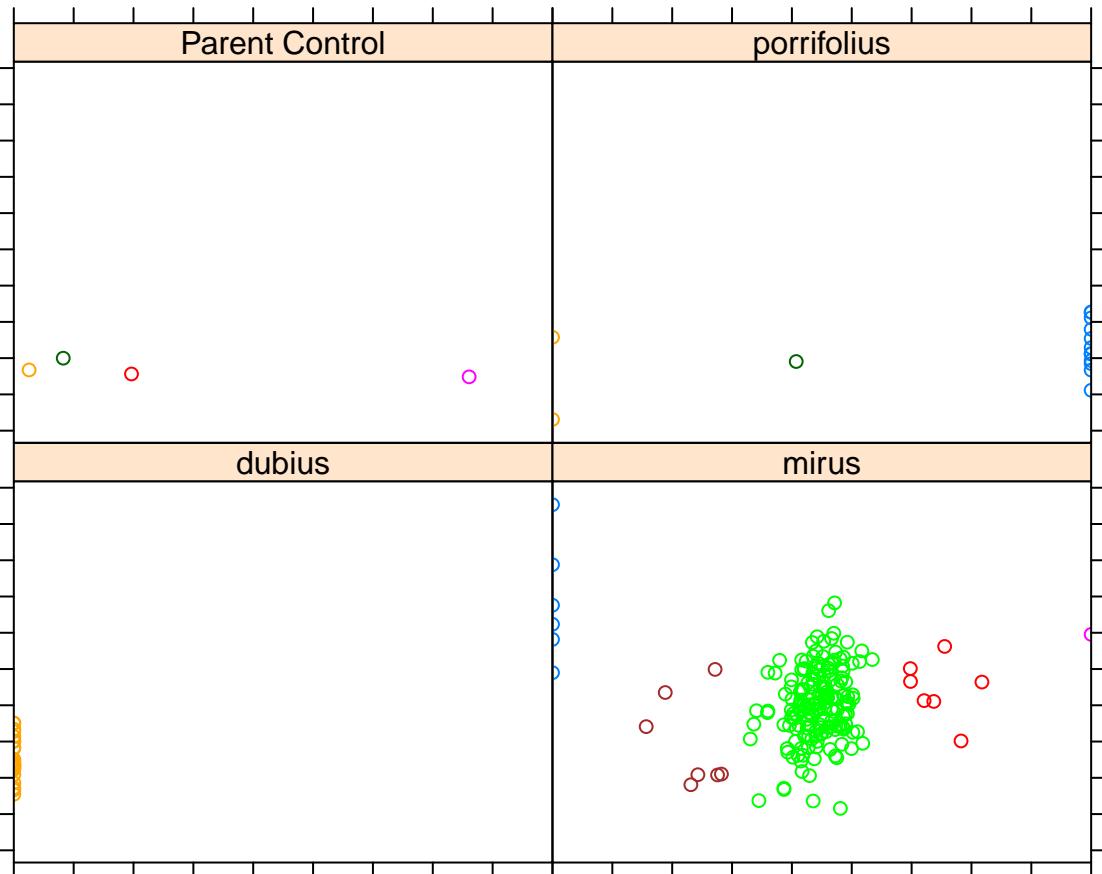
mirus

90
80
70
60
50
40
30
20
10
0

radius (arb)

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig16804_391 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLL	○		○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

90
80
70
60
50
40
30
20
10
0

dubius

mirus

90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)

radius (arb)

V_2_5_isotig16810_104 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

130
120
110
100
90
80
70
60
50
40
30
20

dubius

miscellus

130
120
110
100
90
80
70
60
50
40
30
20

radius (arb)

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig16810_104 cDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

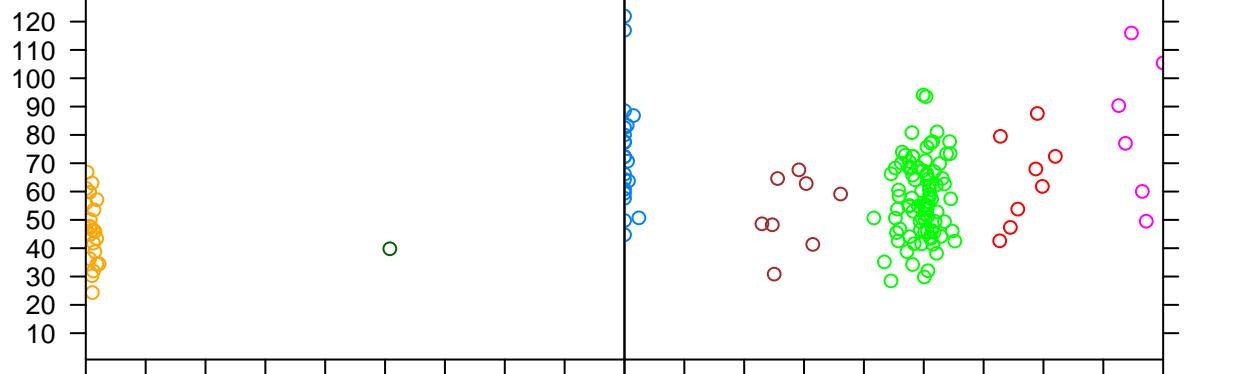
radius (arb)

Parent Control

pratensis

dubius

miscellus

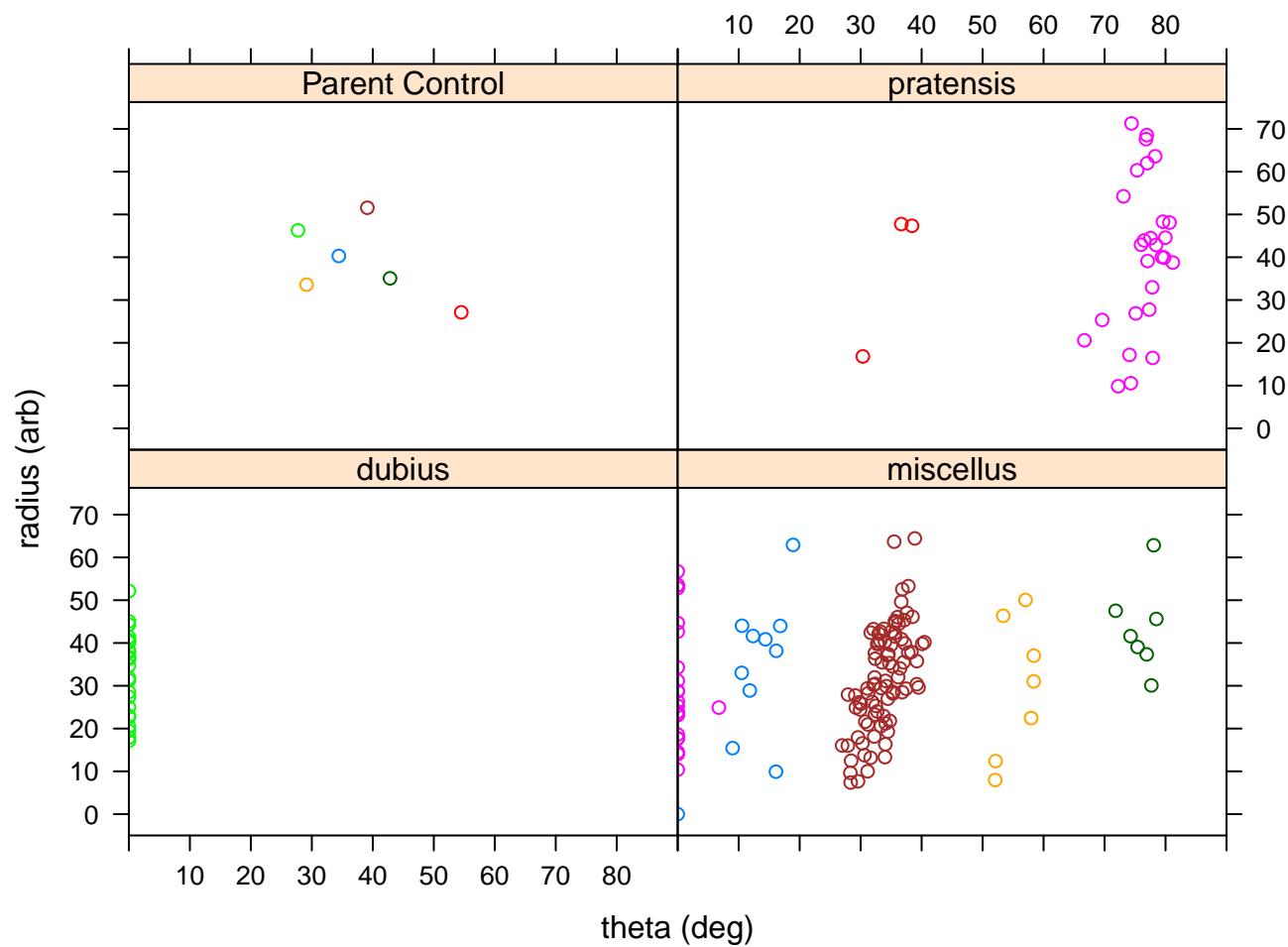


theta (deg)

V_2_5_isotig16810_323 gDNA

Call

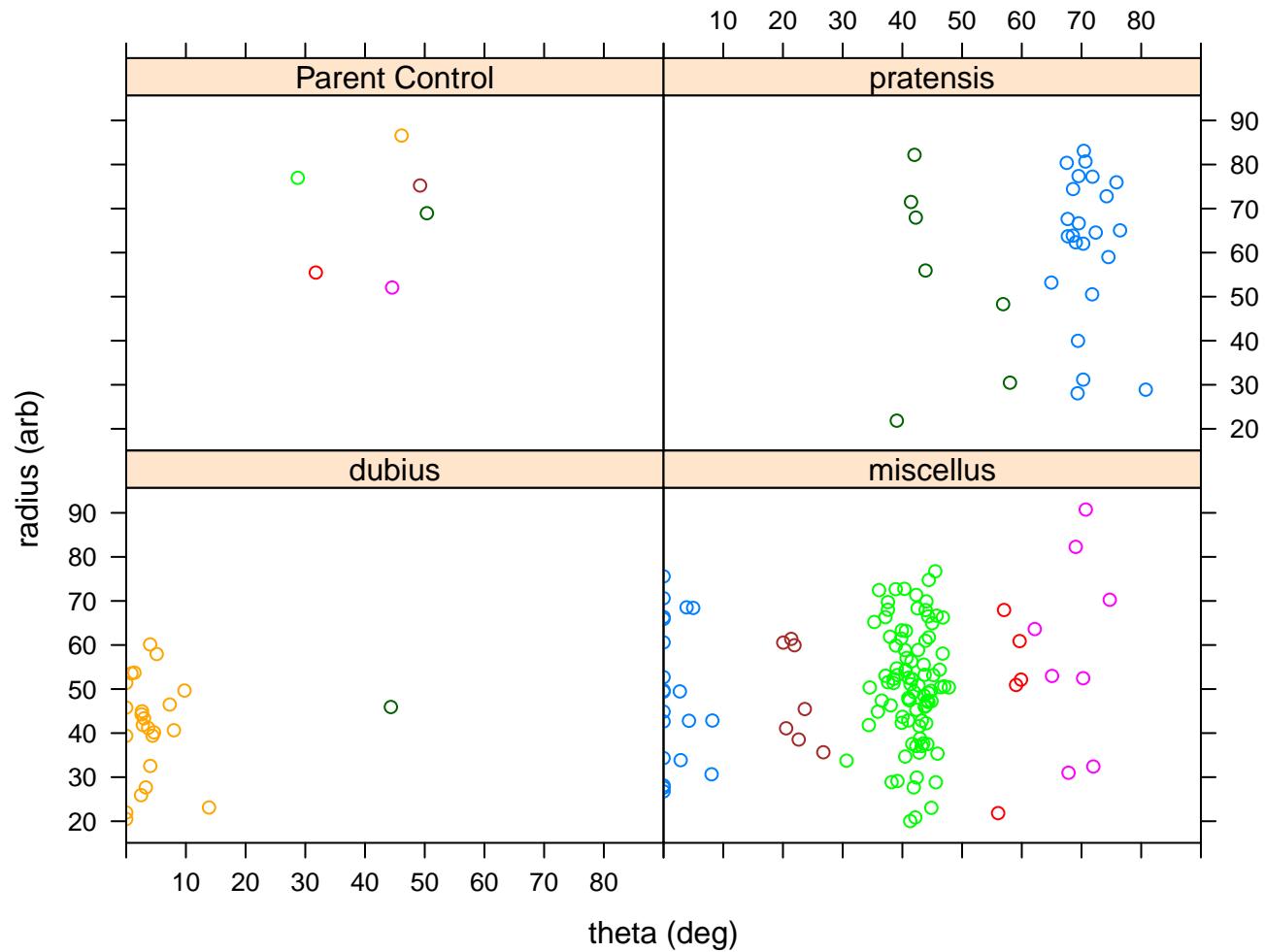
Bad_Spectrum	LLLL	Bad_Spectrum
HH	PM3_1_1	HH
HHHH	PM3_1_2	HHHH
LH	PM3_2_1	LH
LHHH	PM4	LHHH
LL	PM5	LL
LLHH	PM6	LLHH
LLLH		LLLH



V_2_5_isotig16810_323 cDNA

Call

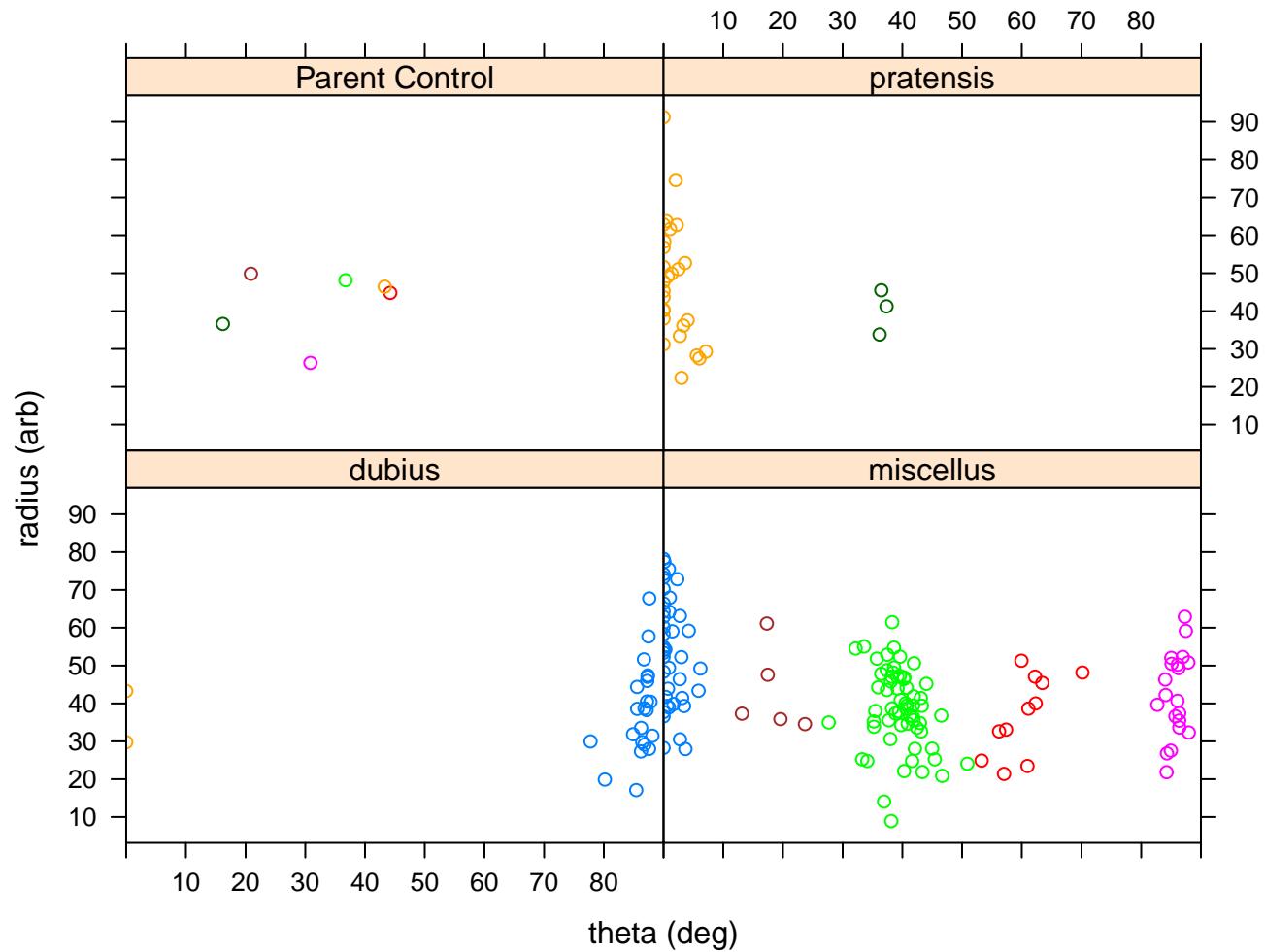
HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○



V_2_5_isotig16810_438 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○



V_2_5_isotig16810_438 cDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

radius (arb)

Parent Control

pratensis

120
110
100
90
80
70
60
50
40
30
20

dubius

miscellus

120
110
100
90
80
70
60
50
40
30
20

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig16815_243 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

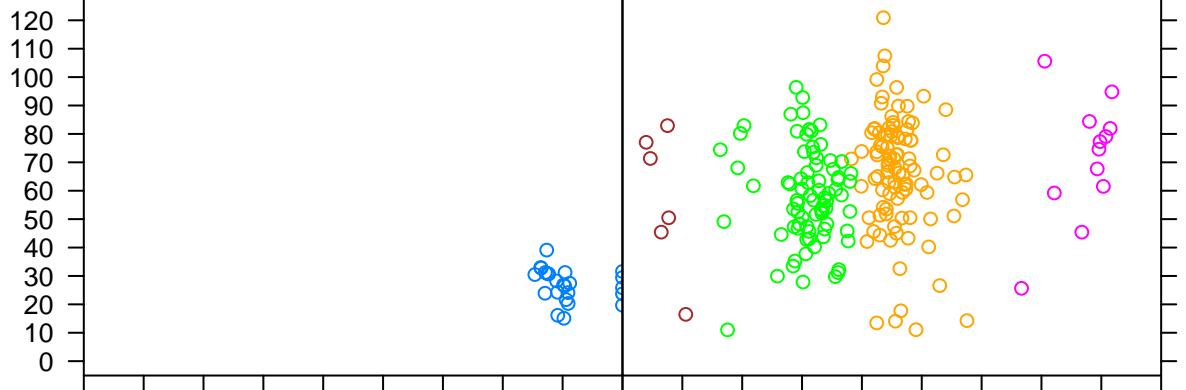
Parent Control

porrifolius

120
110
100
90
80
70
60
50
40
30
20
10
0

dubius

mirus



10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig16815_243 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

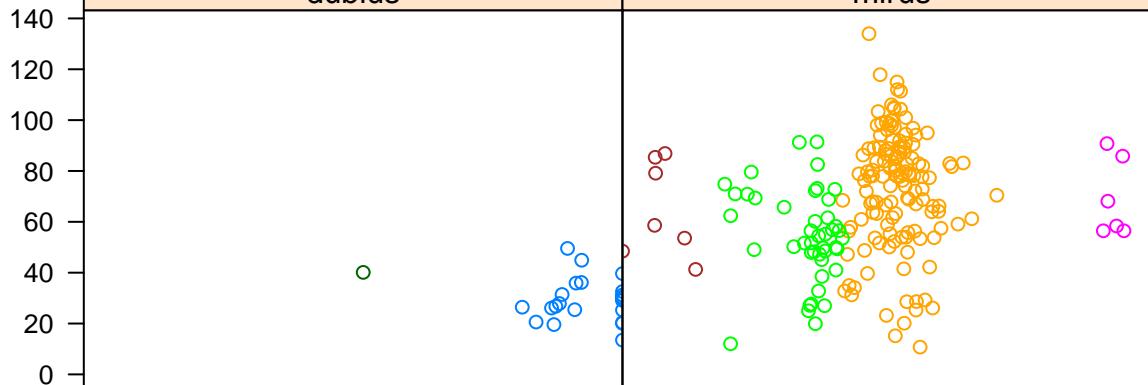
porrifolius

140
120
100
80
60
40
20
0

dubius

mirus

radius (arb)

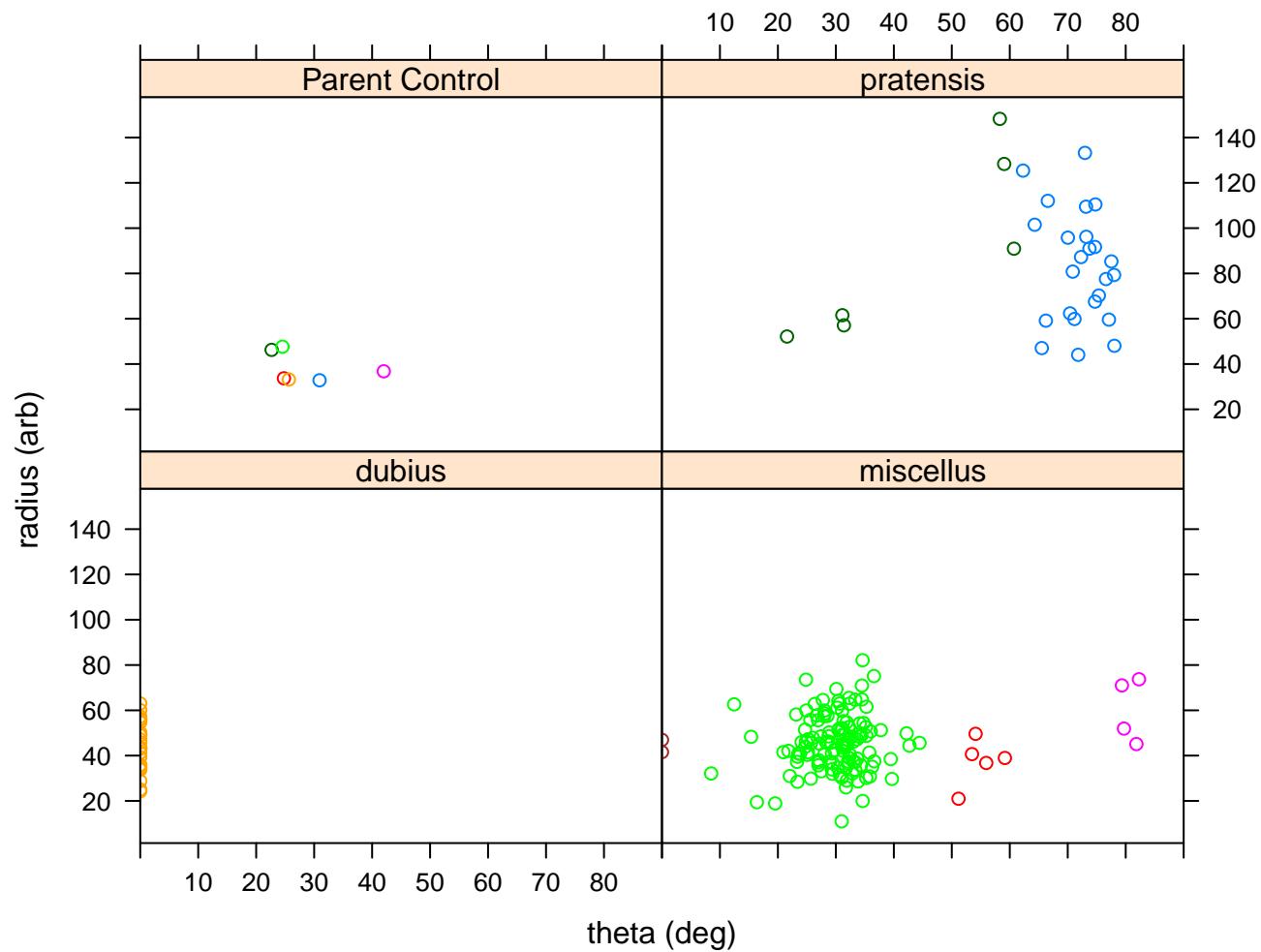


theta (deg)

V_2_5_isotig16875_345 gDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LHHH	○	PM4	○
LL	○	PM5	○
LLHH	○	PM6	○
LLLL	○		

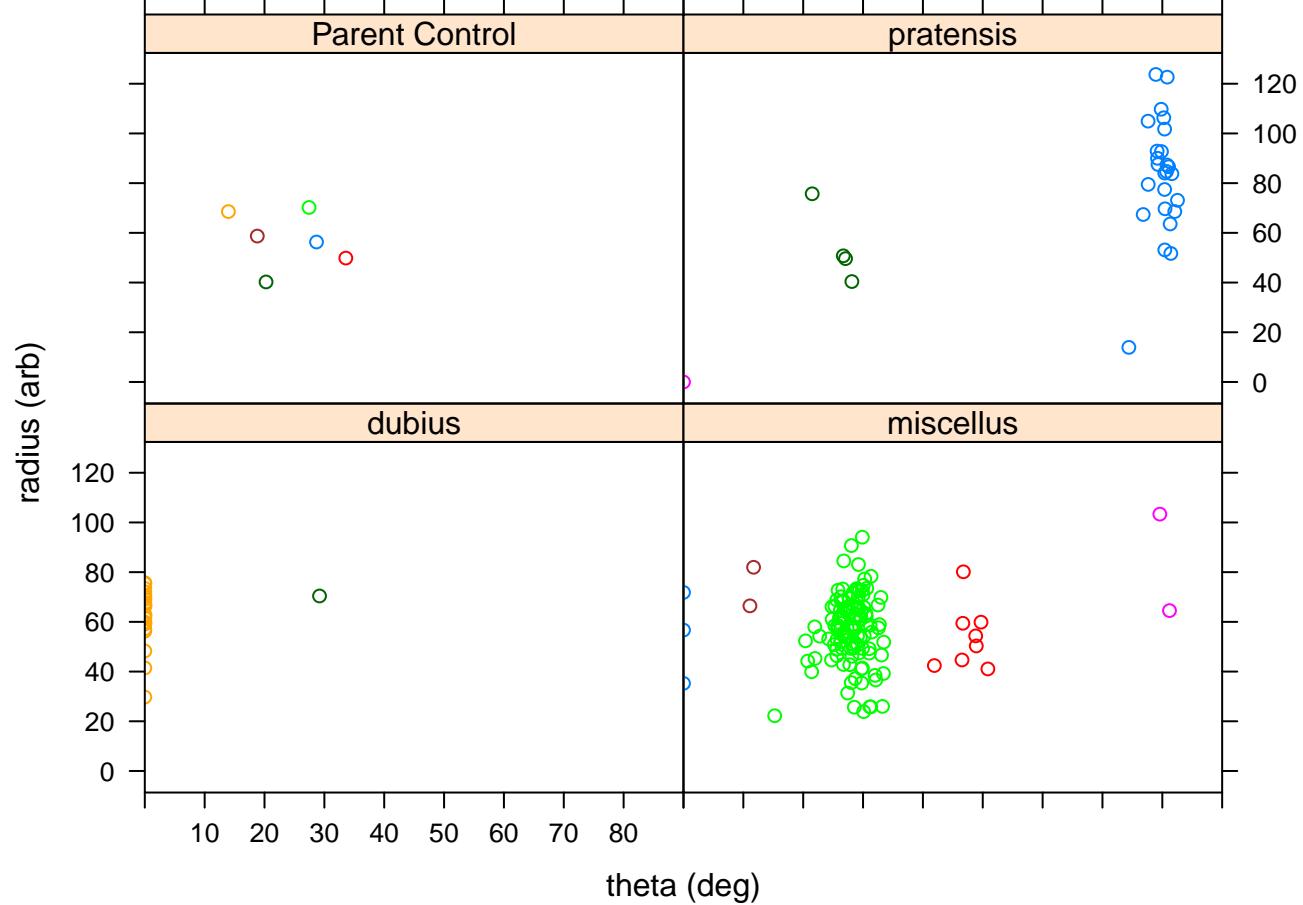


V_2_5_isotig16875_345 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		

10 20 30 40 50 60 70 80



V_2_5_isotig16875_433 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

110
100
90
80
70
60
50
40
30
20
10

dubius

miscellus

110
100
90
80
70
60
50
40
30
20
10

radius (arb)

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig16875_433 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

radius (arb)

Parent Control

pratensis

100
90
80
70
60
50
40
30
20
10
0

dubius

miscellus

100
90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig16911_211 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

110
100
90
80
70
60
50
40
30
20
10

dubius

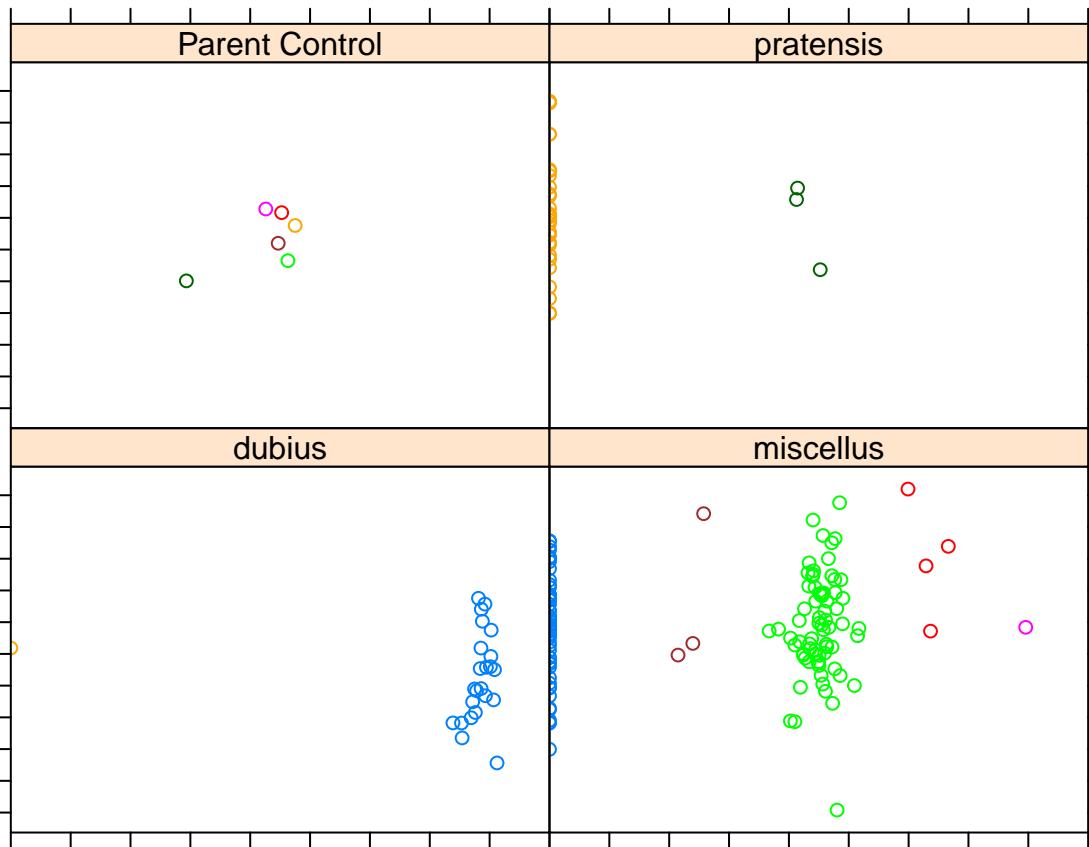
miscellus

110
100
90
80
70
60
50
40
30
20
10

radius (arb)

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig16911_211 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

130
120
110
100
90
80
70
60
50
40
30
20
10

radius (arb)

dubius

miscellus

130
120
110
100
90
80
70
60
50
40
30
20
10

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig16911_274 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

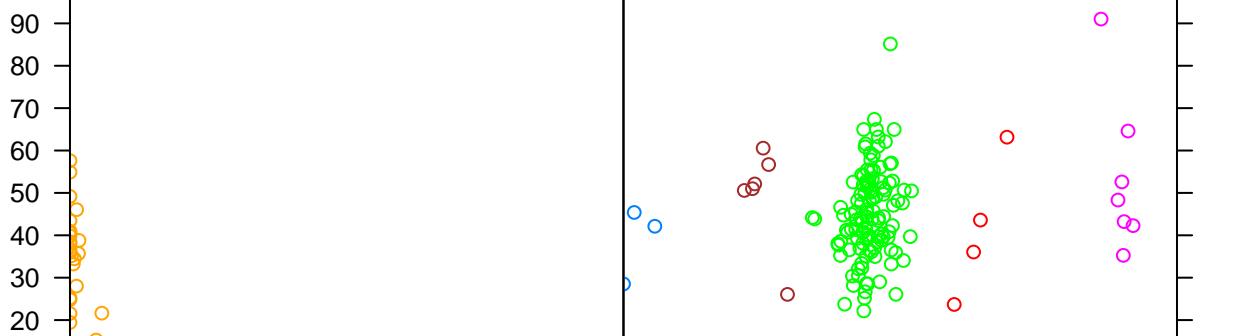
Parent Control

pratensis

90
80
70
60
50
40
30
20

dubius

miscellus



theta (deg)

radius (arb)

V_2_5_isotig16911_274 cDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

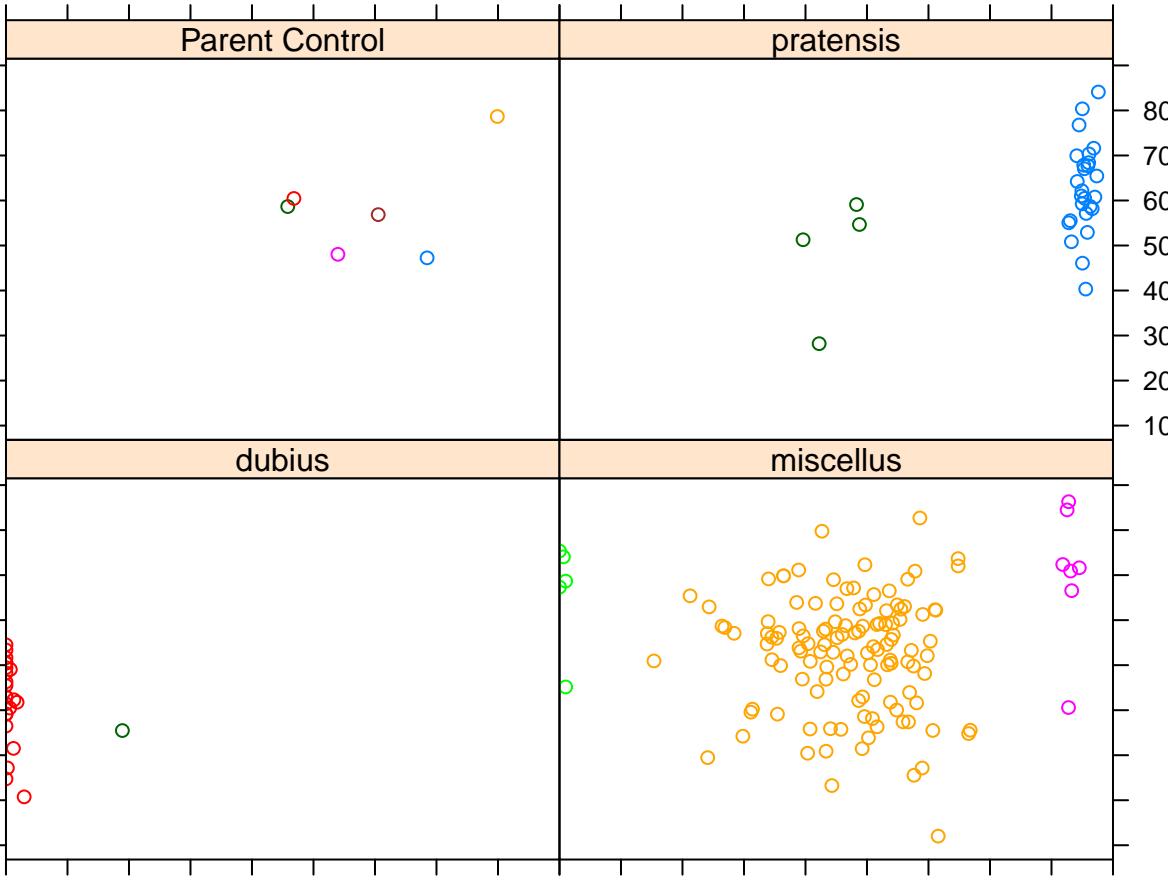
radius (arb)

dubius

miscellus

10 20 30 40 50 60 70 80

theta (deg)

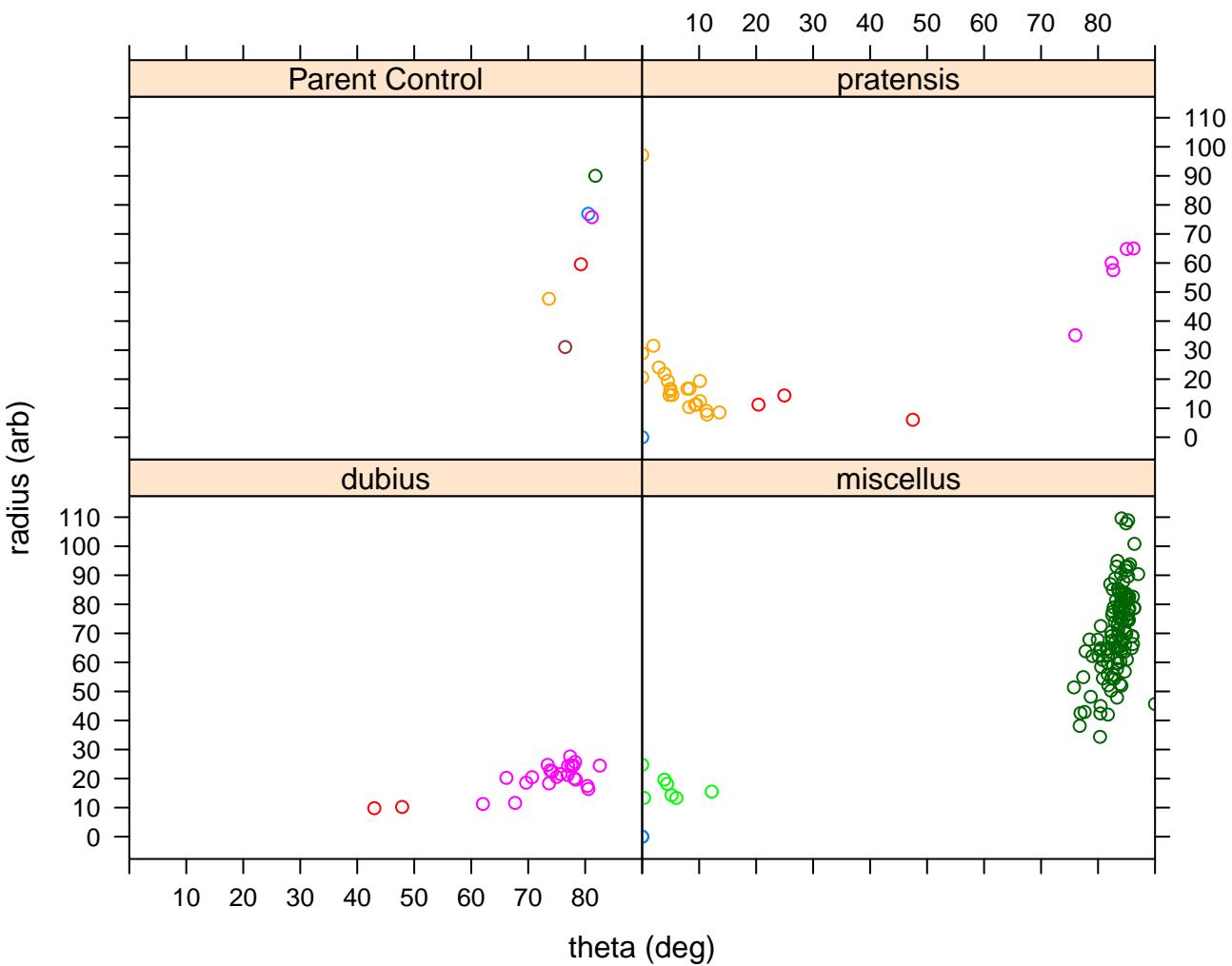


V_2_5_isotig16911_334 cDNA

Call

Bad_Spectrum
HH
HHHH
LH
LL
LLLL

PM3_1_1
PM3_1_2
PM3_2_1
PM4
PM5
PM6



V_2_5_isotig16930_155 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LHHH	○	PM2_1_2	○
LL	○	PM2_2_1	○
LLHH	○		

10 20 30 40 50 60 70 80

Parent Control

porrifolius

90
80
70
60
50
40
30
20
10
0

dubius

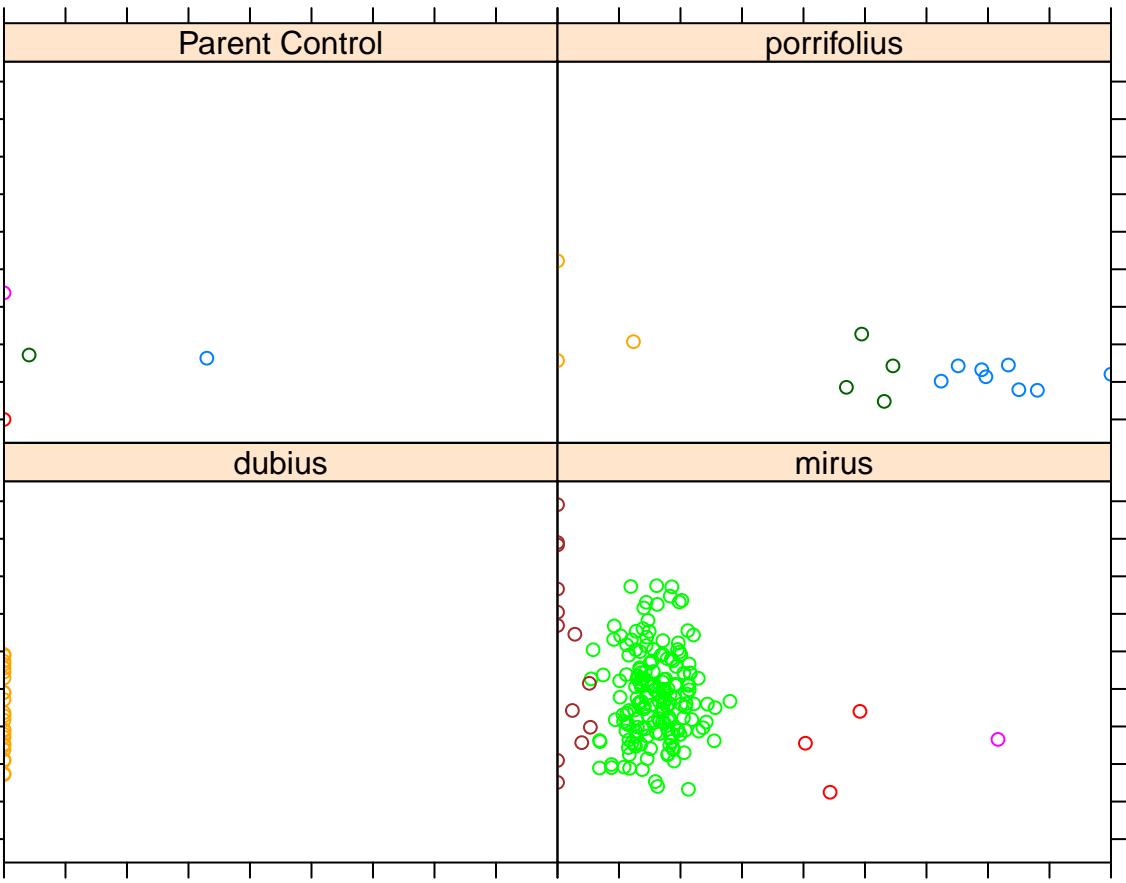
mirus

90
80
70
60
50
40
30
20
10
0

radius (arb)

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig16930_155 cDNA

Call

Bad_Spectrum	○	LLLL	○
HH	○	No_Alleles	○
HHHH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

90
80
70
60
50
40
30
20
10
0

dubius

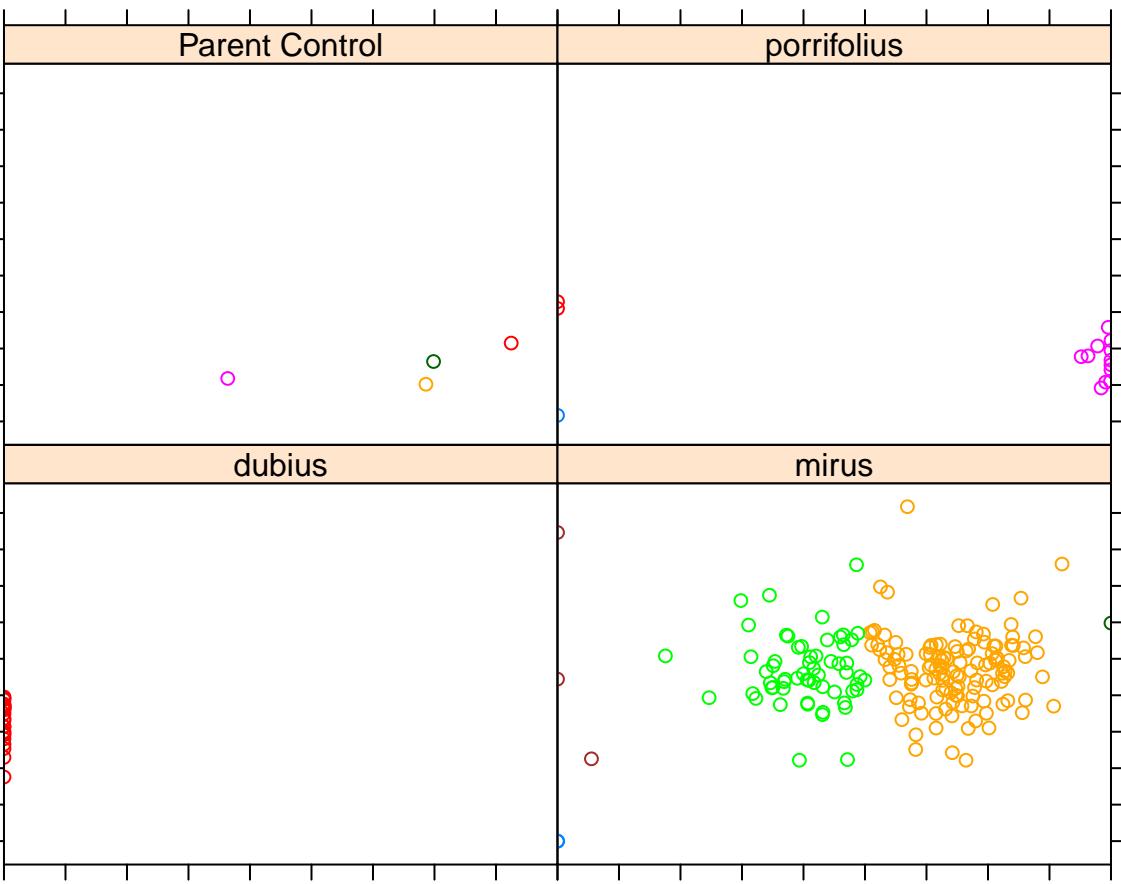
mirus

radius (arb)

90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig16971_416 gDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LL	○	PM3_2_1	○
LLHH	○	PM4	○
LLLH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

60
50
40
30
20
10

dubius

miscellus

60
55
50
45
40
35
30
25
20
15
10

radius (arb)

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig16971_416 cDNA

Call

Bad_Spectrum	○	No_Alleles	○
HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

70
60
50
40
30
20
10
0

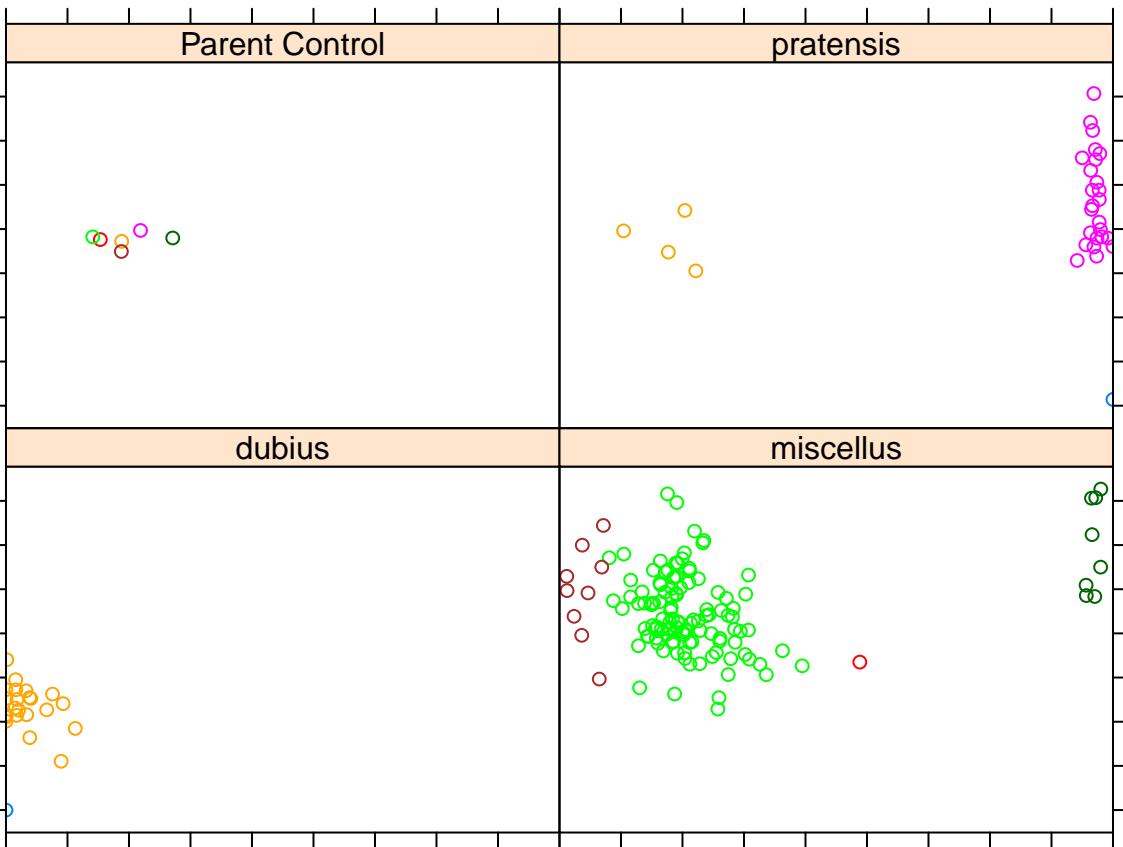
dubius

miscellus

radius (arb)

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig17019_153 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

radius (arb)

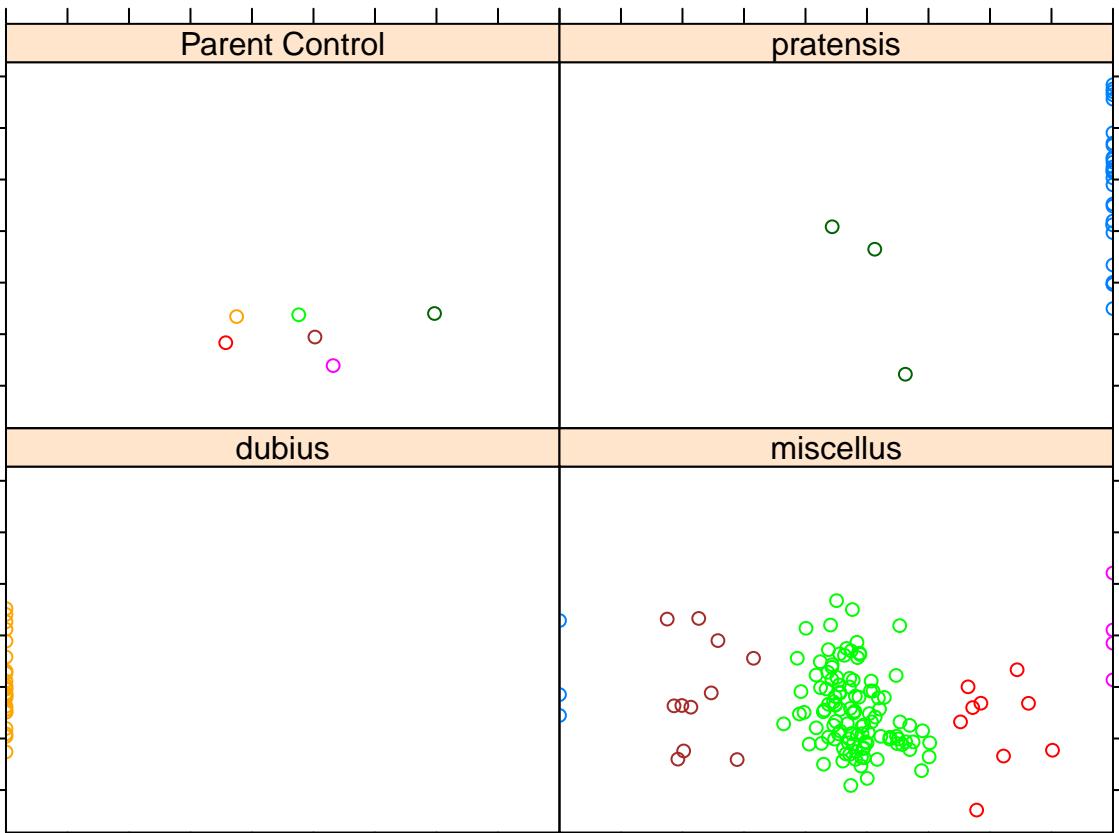
70
60
50
40
30
20
10

dubius

miscellus

10 20 30 40 50 60 70 80

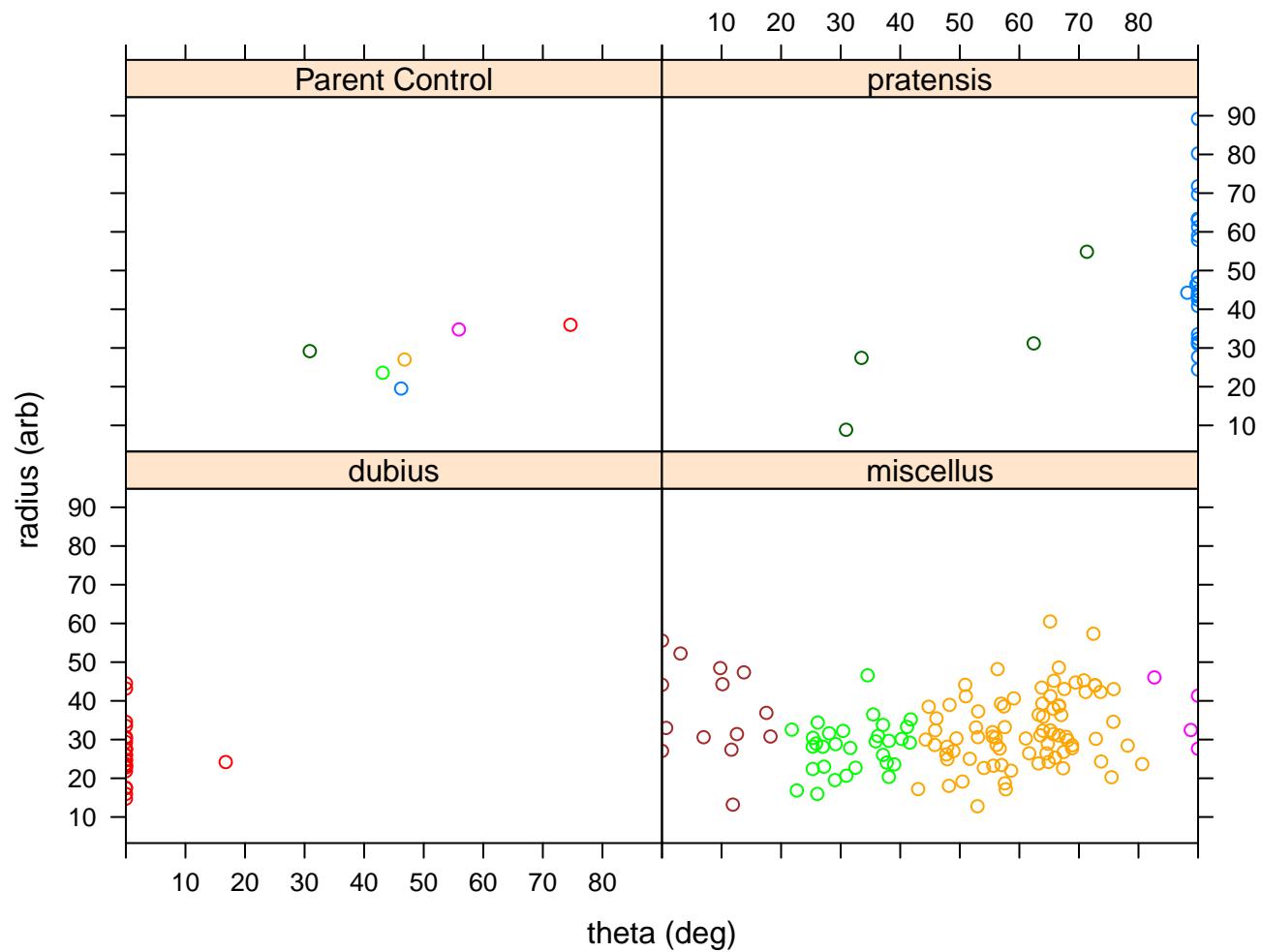
theta (deg)



V_2_5_isotig17019_153 cDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		



V_2_5_isotig17019_227 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

55
50
45
40
35
30
25
20
15
10
5

dubius

miscellus

radius (arb)

55
50
45
40
35
30
25
20
15
10
5

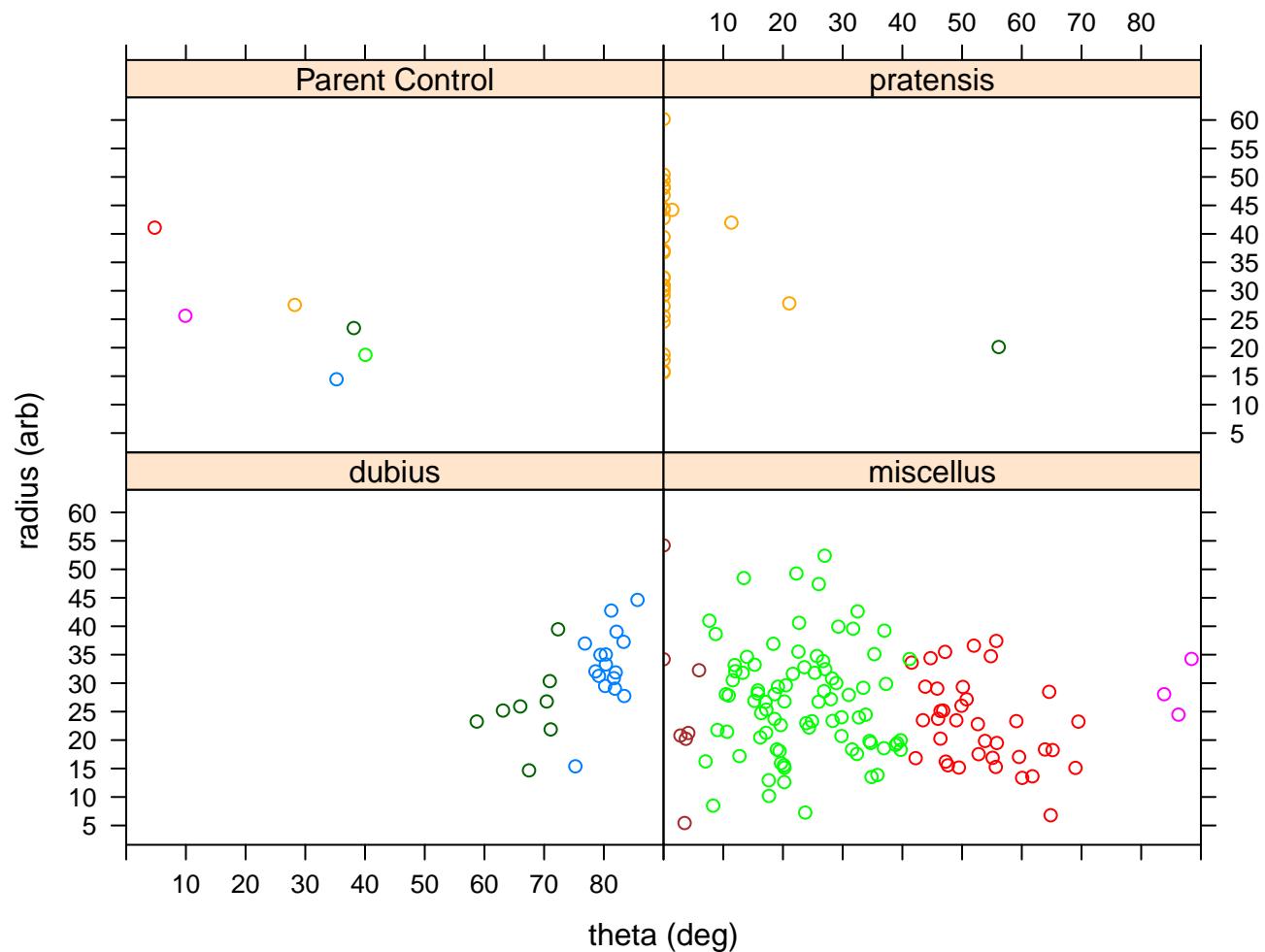
10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig17019_227 cDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LHHH	○	PM4	○
LL	○	PM5	○
LLHH	○	PM6	○
LLLL	○		



V_2_5_isotig17019_412 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

dubius

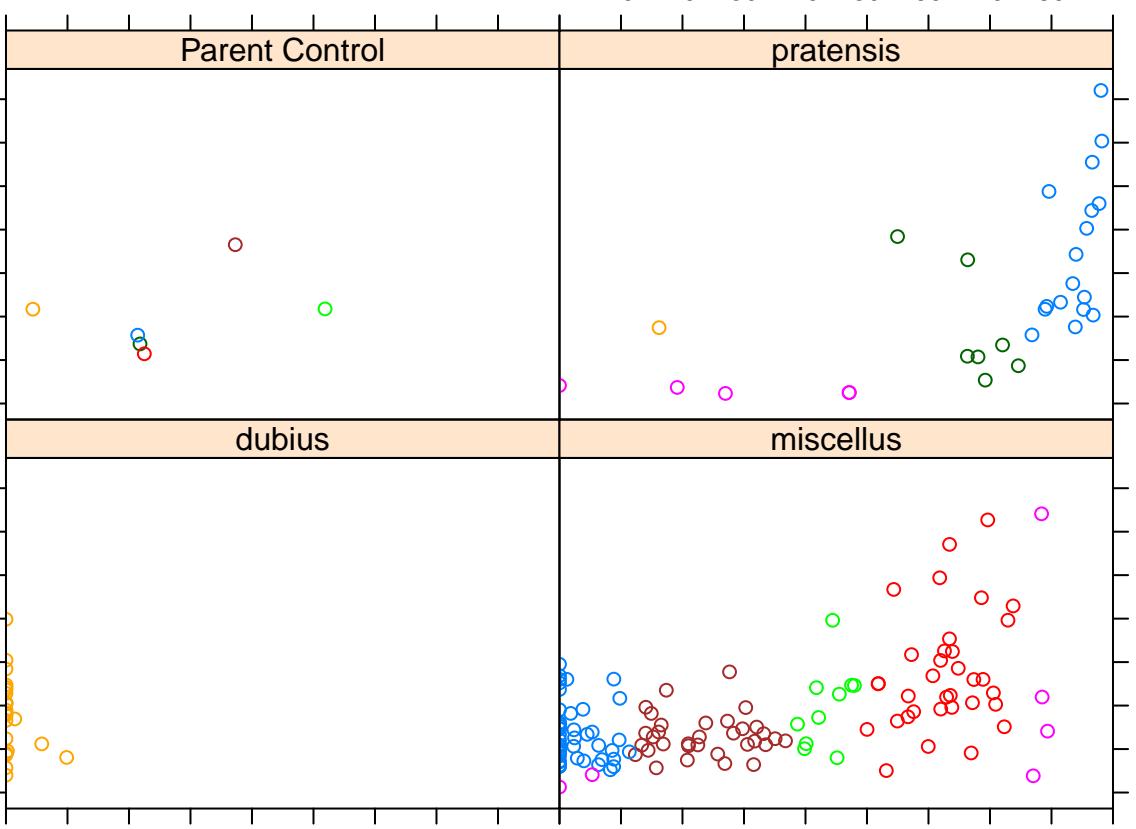
miscellus

radius (arb)

70
50
30
10
0

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig17029_343 cDNA

Call

HH	○	LLLH	○
HHHH	○	LLLL	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

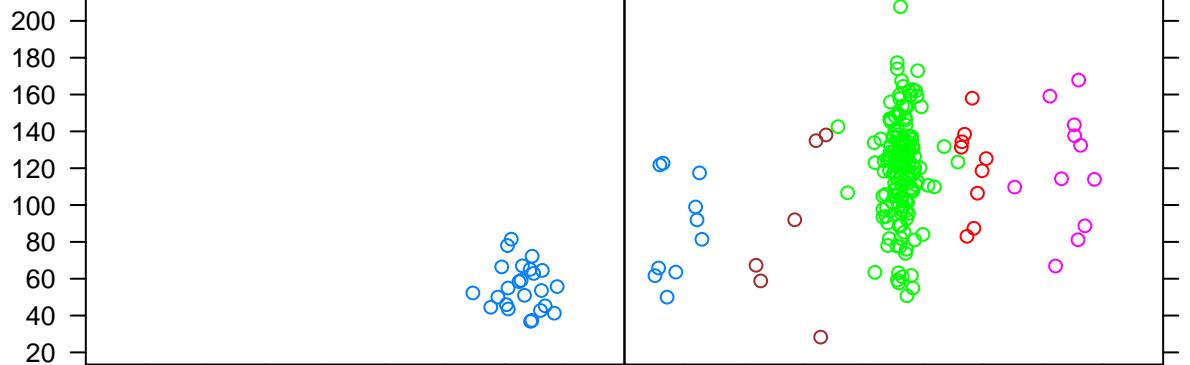
Parent Control

porrifolius

200
180
160
140
120
100
80
60
40
20

dubius

mirus

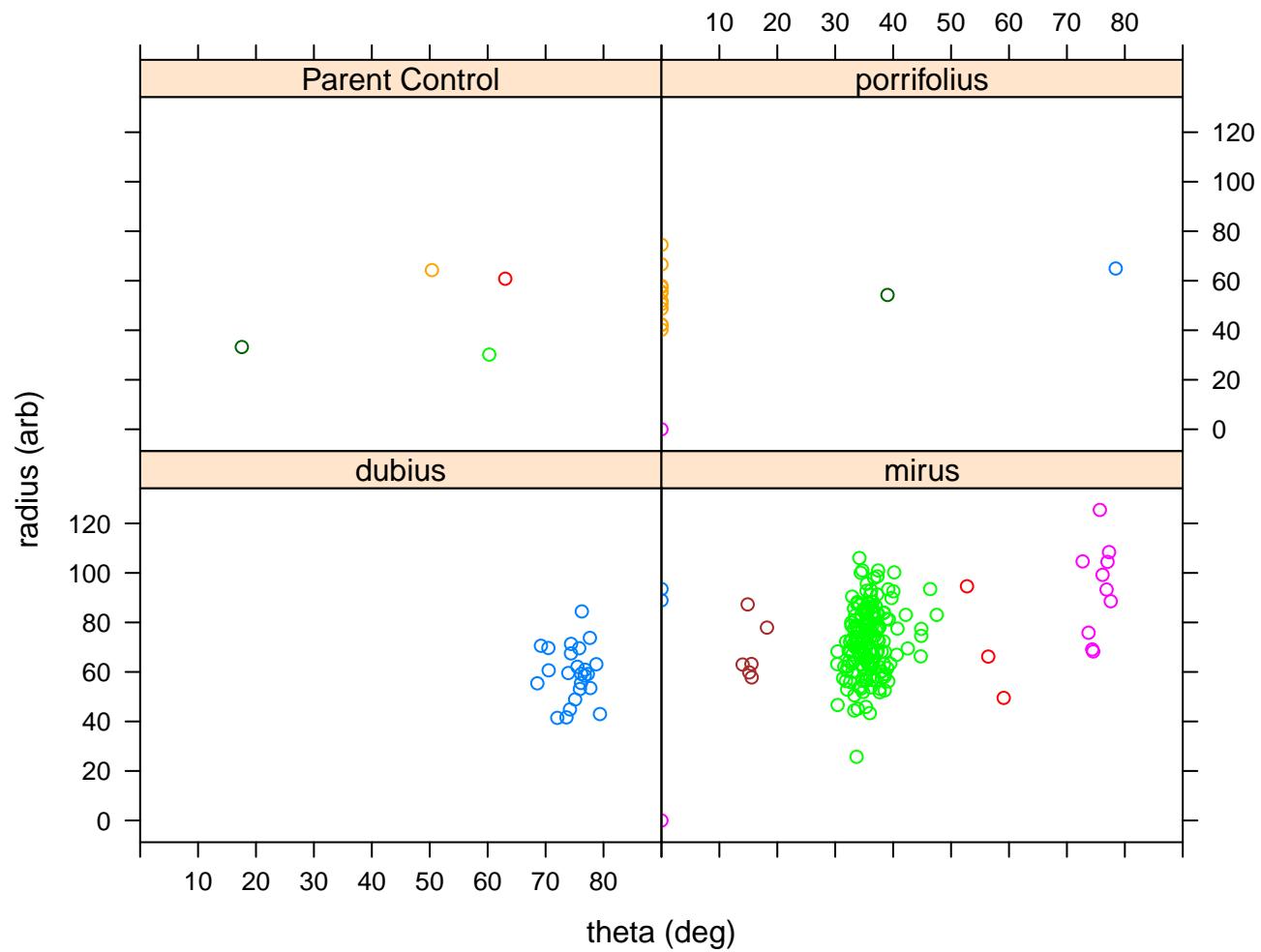


theta (deg)

V_2_5_isotig17053_403 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig17053_403 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

120
110
100
90
80
70
60
50
40
30
20
10
0

dubius

mirus

120
110
100
90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

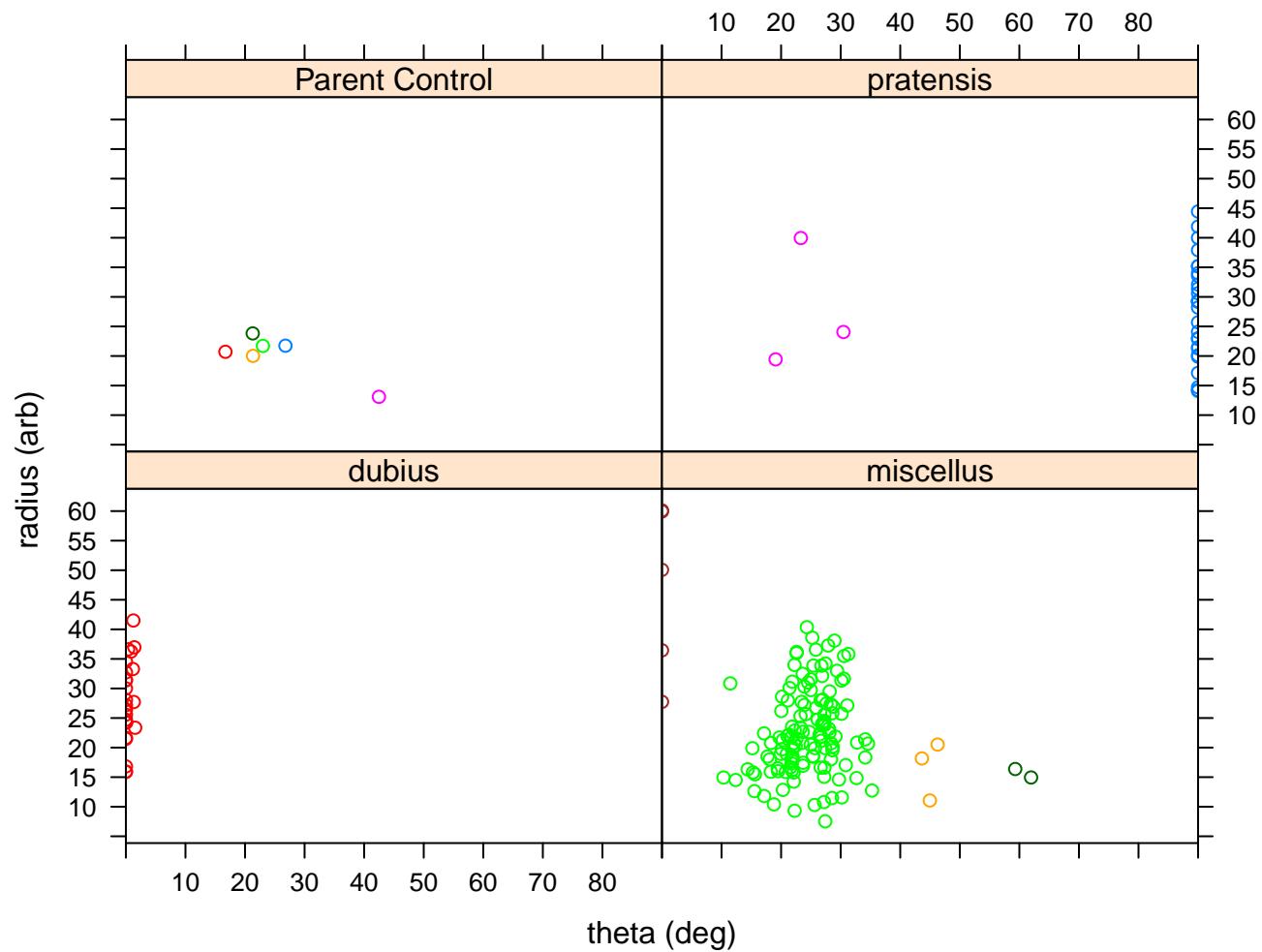
theta (deg)

radius (arb)

V_2_5_isotig17160_118 gDNA

Call

HH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		



V_2_5_isotig17160_118 cDNA

Call

HH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

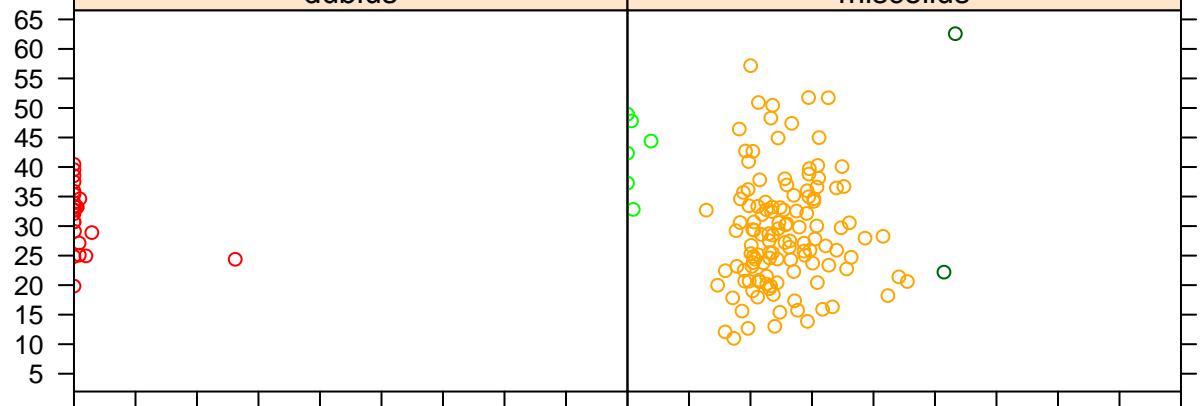
Parent Control

pratensis

65
60
55
50
45
40
35
30
25
20
15
10
5

dubius

miscellus



theta (deg)

V_2_5_isotig17196_317 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

30
25
20
15
10
5
0

dubius

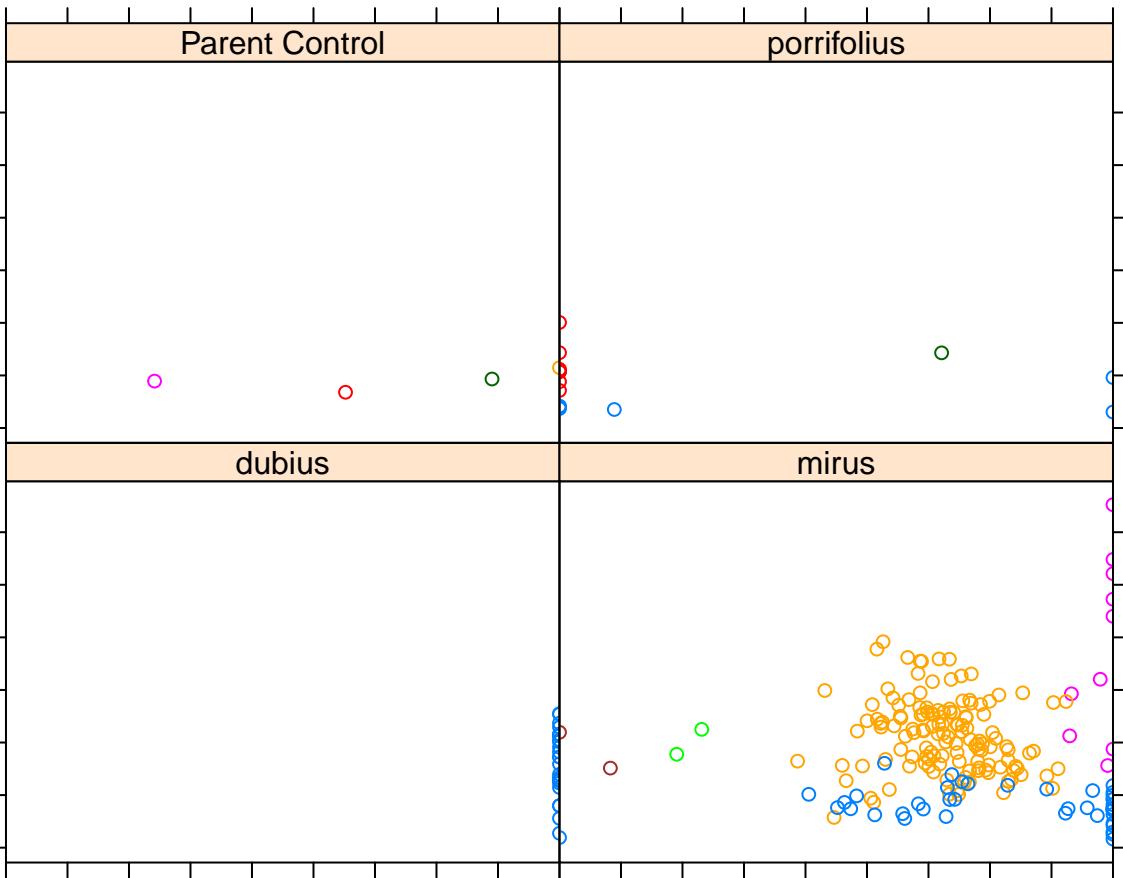
mirus

radius (arb)

30
25
20
15
10
5
0

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig17196_317 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

70
60
50
40
30
20
10
0

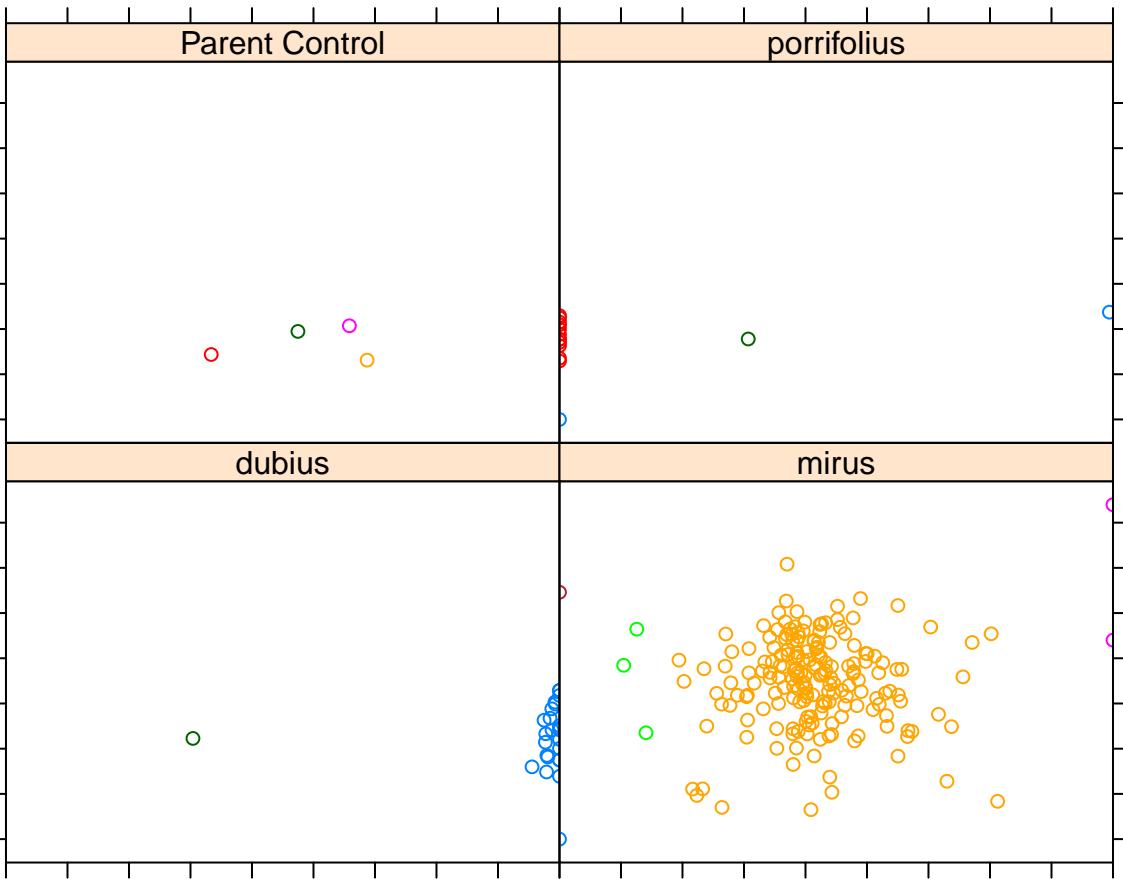
dubius

mirus

radius (arb)

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig17203_196 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LHHH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

60
55
50
45
40
35
30
25
20
15
10
5
0

dubius

mirus

60
55
50
45
40
35
30
25
20
15
10
5
0

10 20 30 40 50 60 70 80

theta (deg)

radius (arb)

V_2_5_isotig17219_438 gDNA

Call

Call	No_Aleles
HH	O
HHHH	P
LH	G
LL	R
LLHH	Y
LLLH	G
LLLL	R
PM3_1_1	P
PM3_1_2	G
PM3_2_1	R
PM4	Y
PM5	G
PM6	R

10 20 30 40 50 60 70 80

Parent Control

pratensis

50
45
40
35
30
25
20
15
10
5
0

radius (arb)

dubius

miscellus

50
45
40
35
30
25
20
15
10
5
0

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig17219_438 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

45
40
35
30
25
20
15
10
5
0

dubius

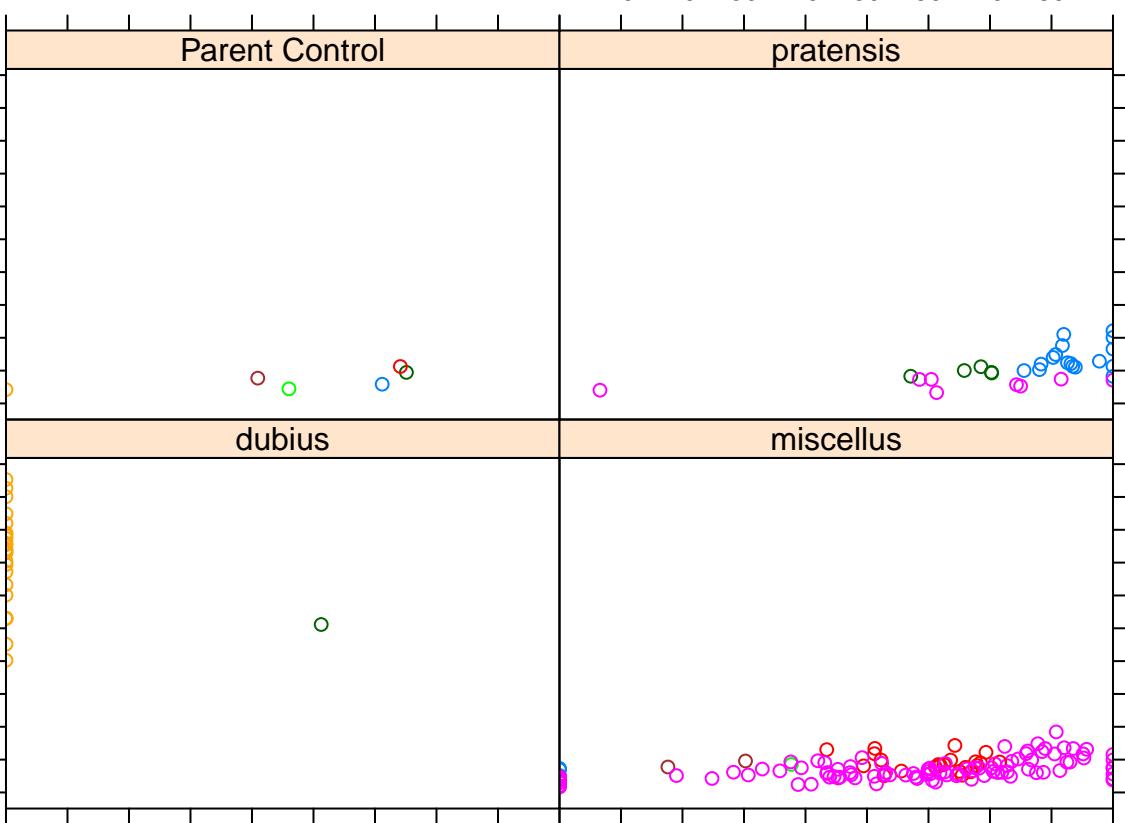
miscellus

radius (arb)

45
40
35
30
25
20
15
10
5
0

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig17241_296 gDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

140
130
120
110
100
90
80
70
60
50
40
30

dubius

miscellus

140
130
120
110
100
90
80
70
60
50
40
30

10 20 30 40 50 60 70 80

theta (deg)

radius (arb)

V_2_5_isotig17241_296 cDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
No_Alleles	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

120
110
100
90
80
70
60
50
40
30
20
10
0

dubius

miscellus

120
110
100
90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)

radius (arb)

V_2_5_isotig17242_207 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

30
25
20
15
10
5
0

dubius

mirus

30

25

20

15

10

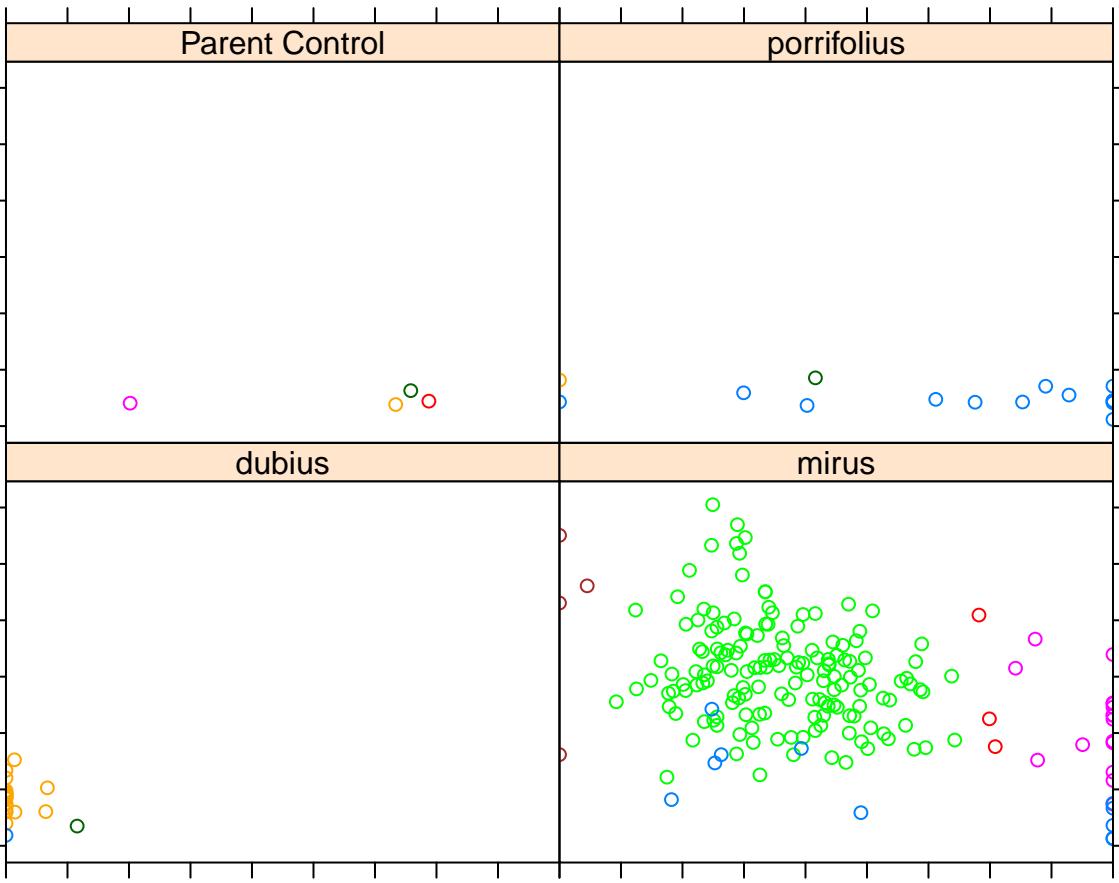
5

0

10 20 30 40 50 60 70 80

theta (deg)

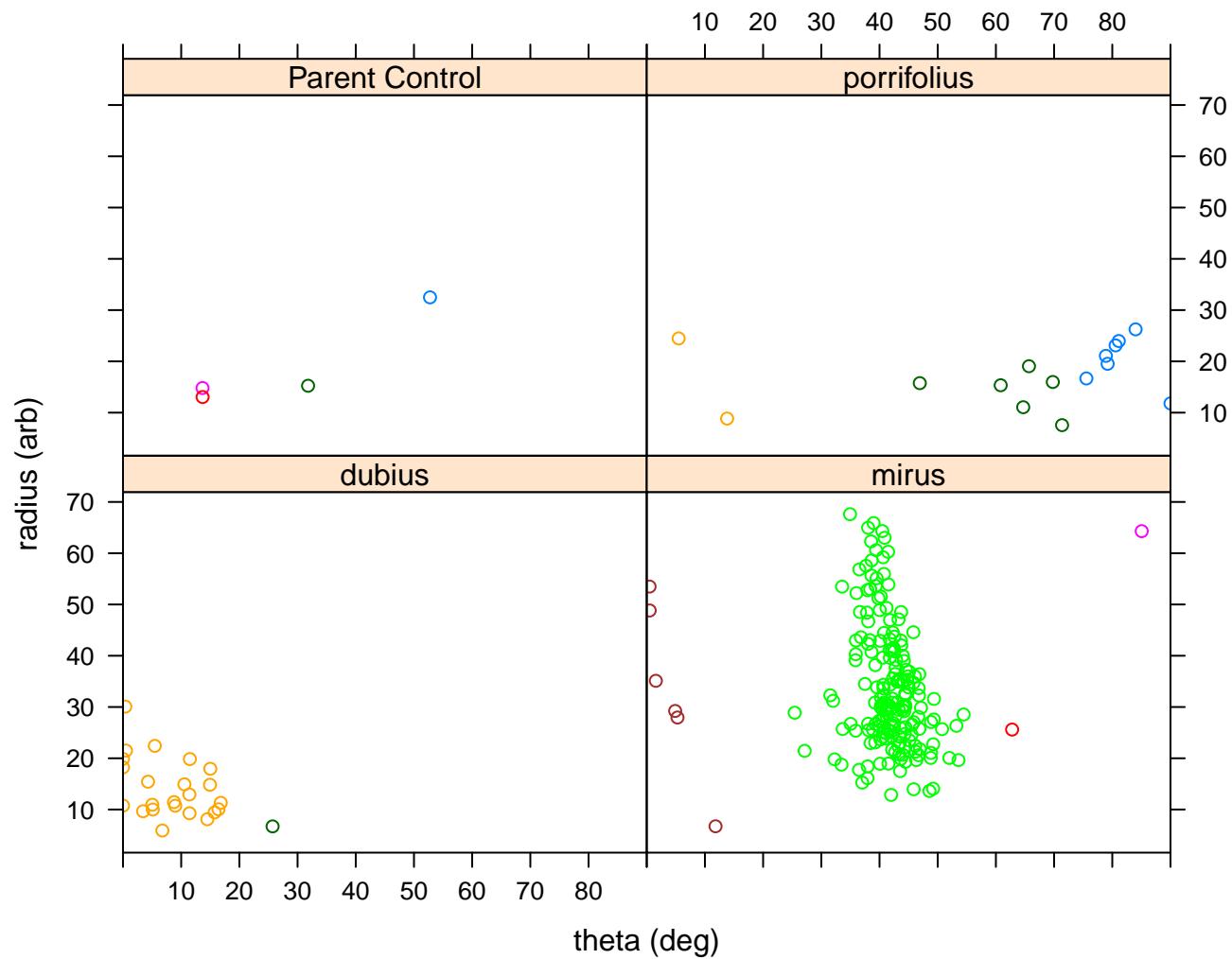
radius (arb)



V_2_5_isotig17363_358 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LHHH	○	PM2_1_2	○
LL	○	PM2_2_1	○
LLHH	○		



V_2_5_isotig17363_358 cDNA

Call

HH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

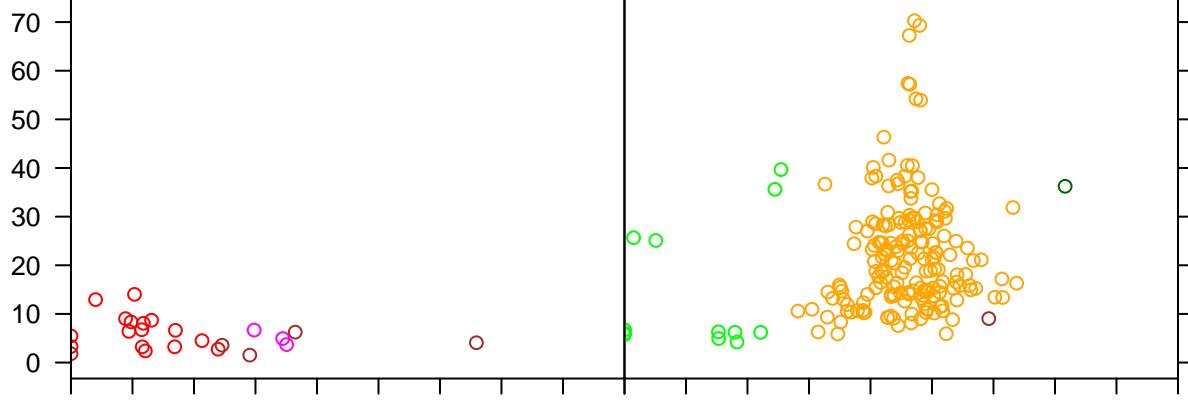
porrifolius

radius (arb)

70
60
50
40
30
20
10
0

dubius

mirus

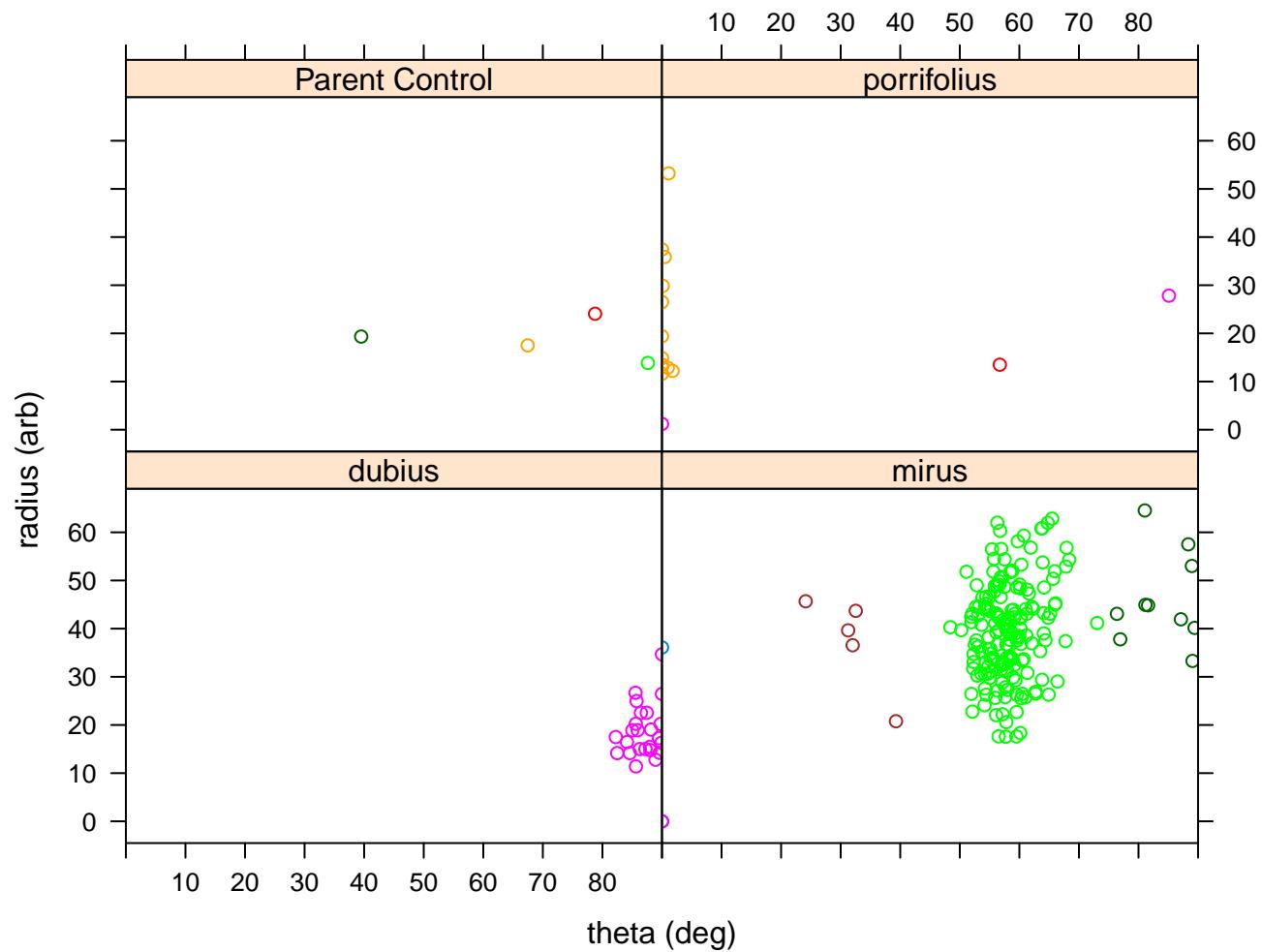


theta (deg)

V_2_5_isotig17371_329 gDNA

Call

Bad_Spectrum	○	LLLL	○
HH	○	No_Aleles	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig17371_329 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

60
55
50
45
40
35
30
25
20
15
10
5
0

dubius

mirus

radius (arb)

60
55
50
45
40
35
30
25
20
15
10
5
0

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig17433_340 gDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

40
35
30
25
20
15
10
5
0

dubius

miscellus

radius (arb)

40
35
30
25
20
15
10
5
0

10 20 30 40 50 60 70 80

theta (deg)

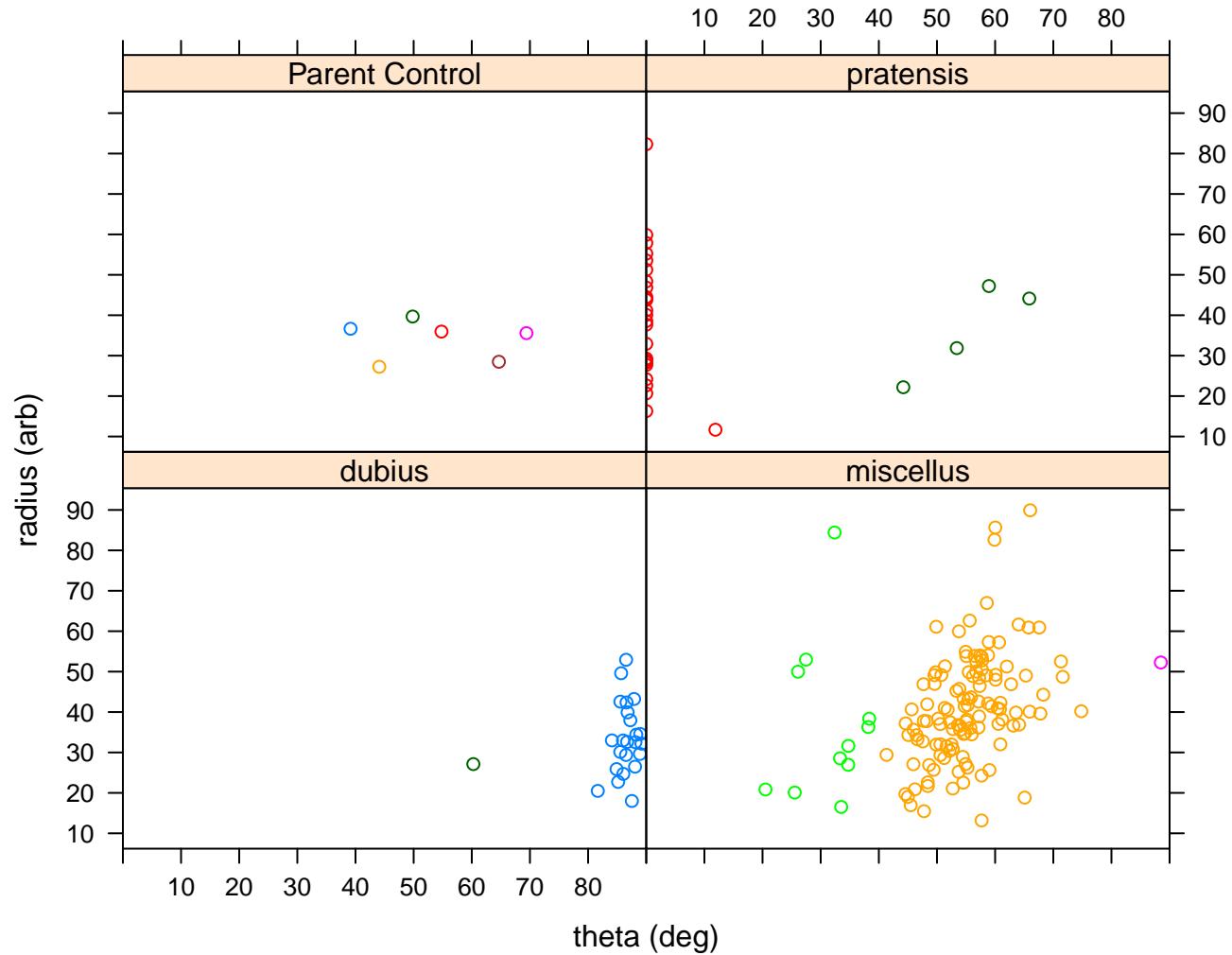
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		

V_2_5_isotig17433_340 cDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

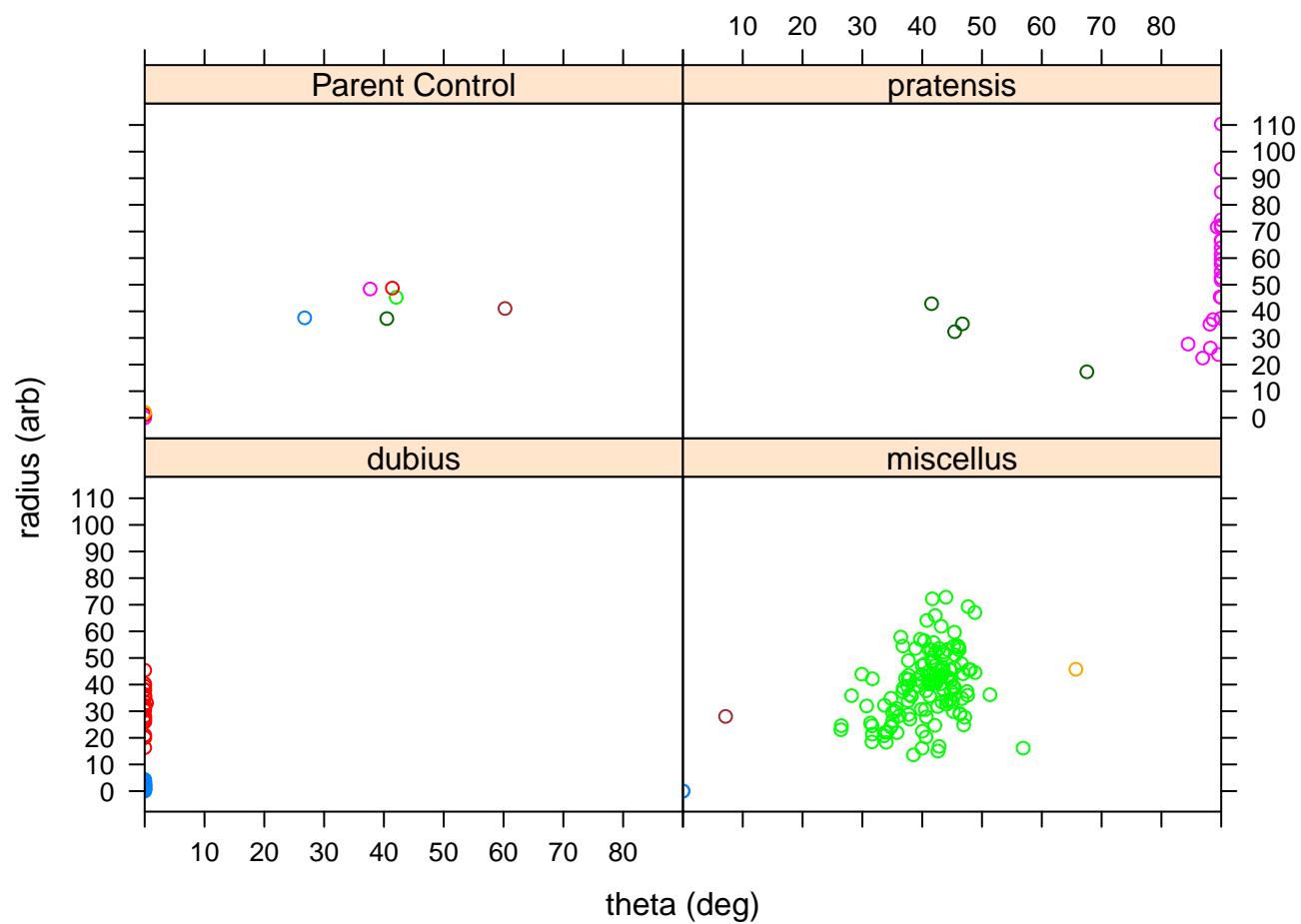


V_2_5_isotig17460_199 gDNA

Call

Bad_Spectrum
HH
LH
LL
LLHH
LLLH
LLLL
No_Alleles
PM1

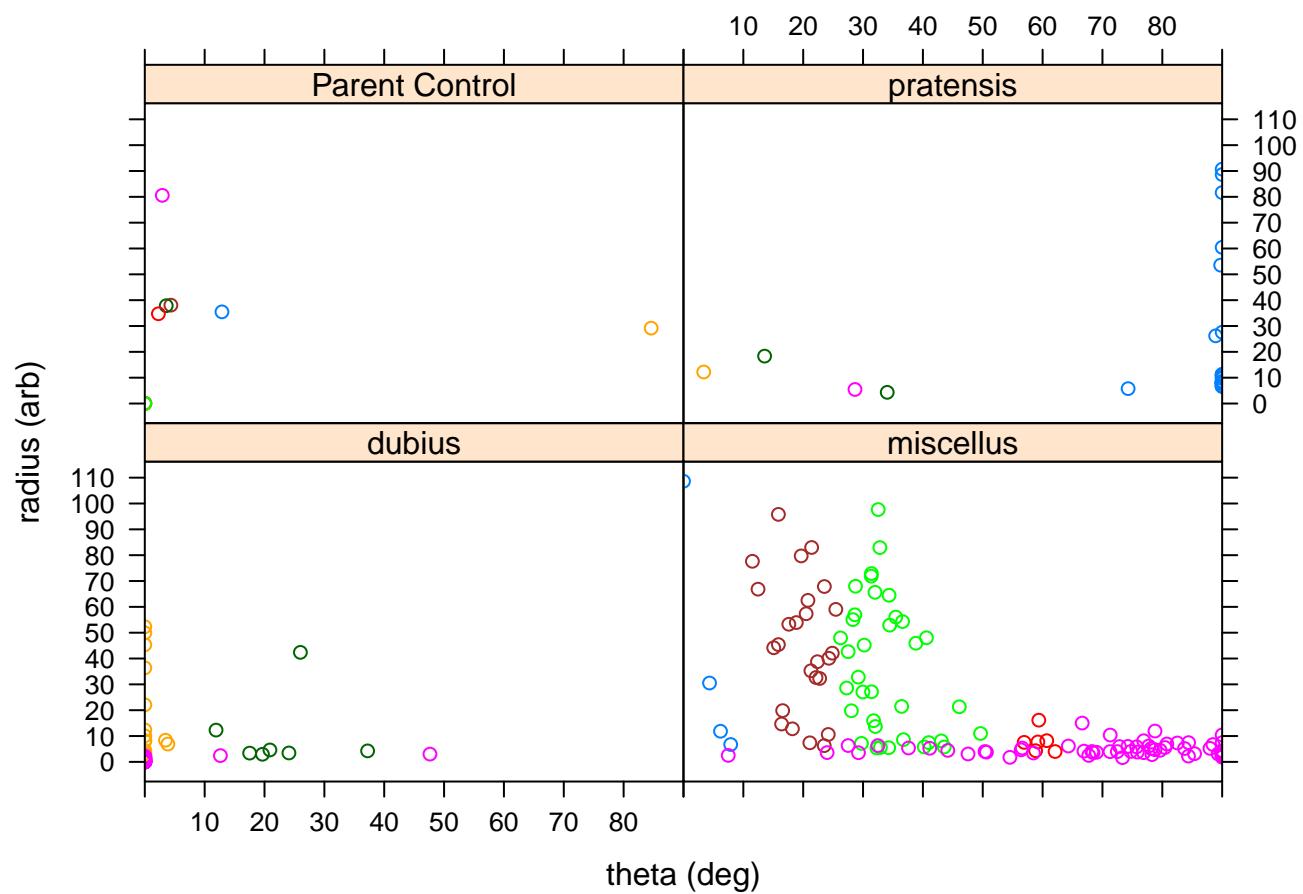
PM2_1_1
PM2_1_2
PM2_2_1
PM3_1_1
PM3_1_2
PM3_2_1
PM4
PM5
PM6



V_2_5_isotig17460_199 cDNA

Call

HH	○	PM2_1_1	○
HHHH	○	PM2_1_2	○
LH	○	PM2_2_1	○
LHHH	○	PM3_1_1	○
LL	○	PM3_1_2	○
LLHH	○	PM3_2_1	○
LLLH	○	PM4	○
LLLL	○	PM5	○
No_Aleles	○	PM6	○
PM1	○		



V_2_5_isotig17469_302 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

100
90
80
70
60
50
40
30
20
10
0

dubius

mirus

radius (arb)

100
90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)

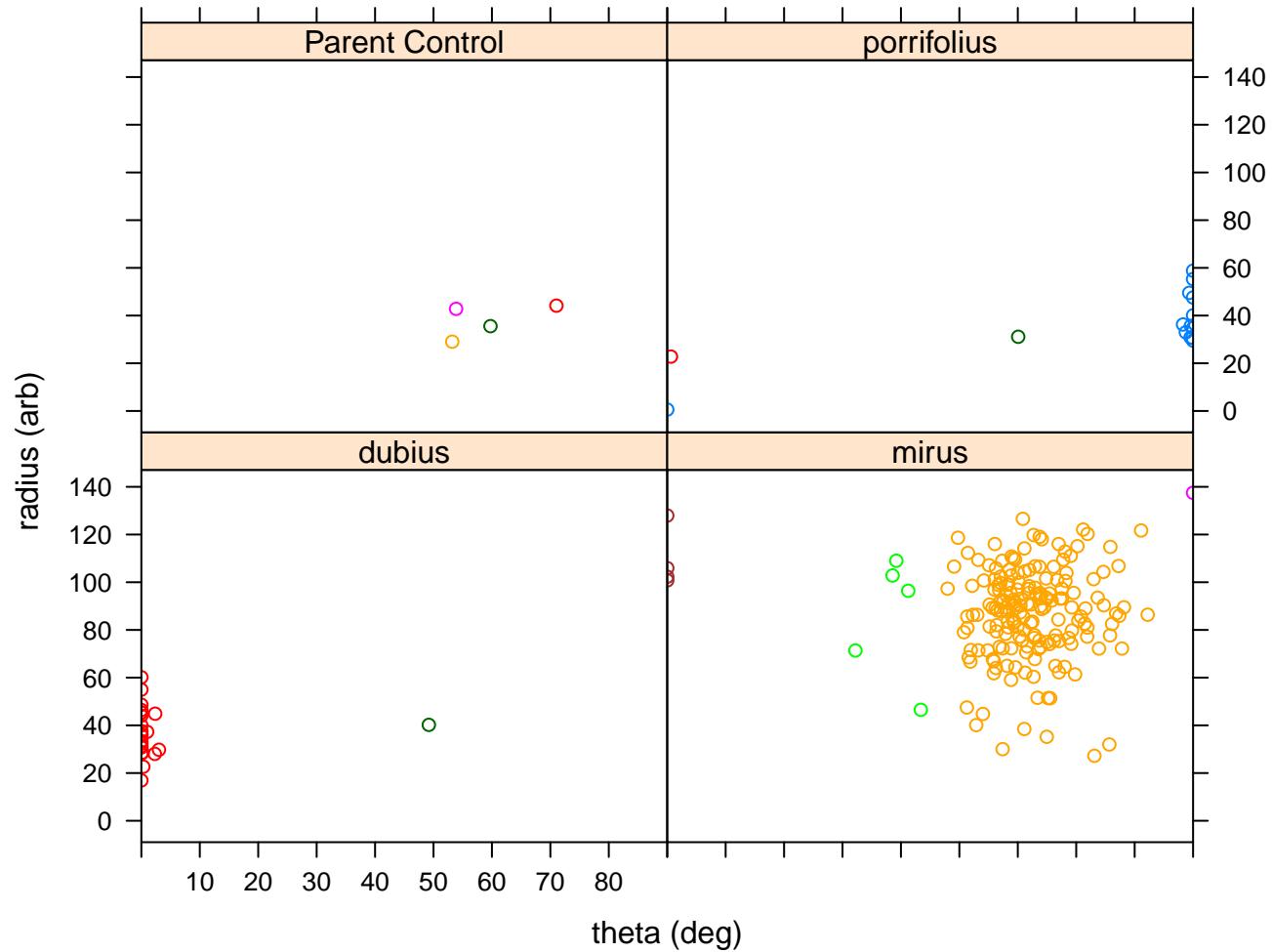
100
90
80
70
60
50
40
30
20
10
0

V_2_5_isotig17469_302 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

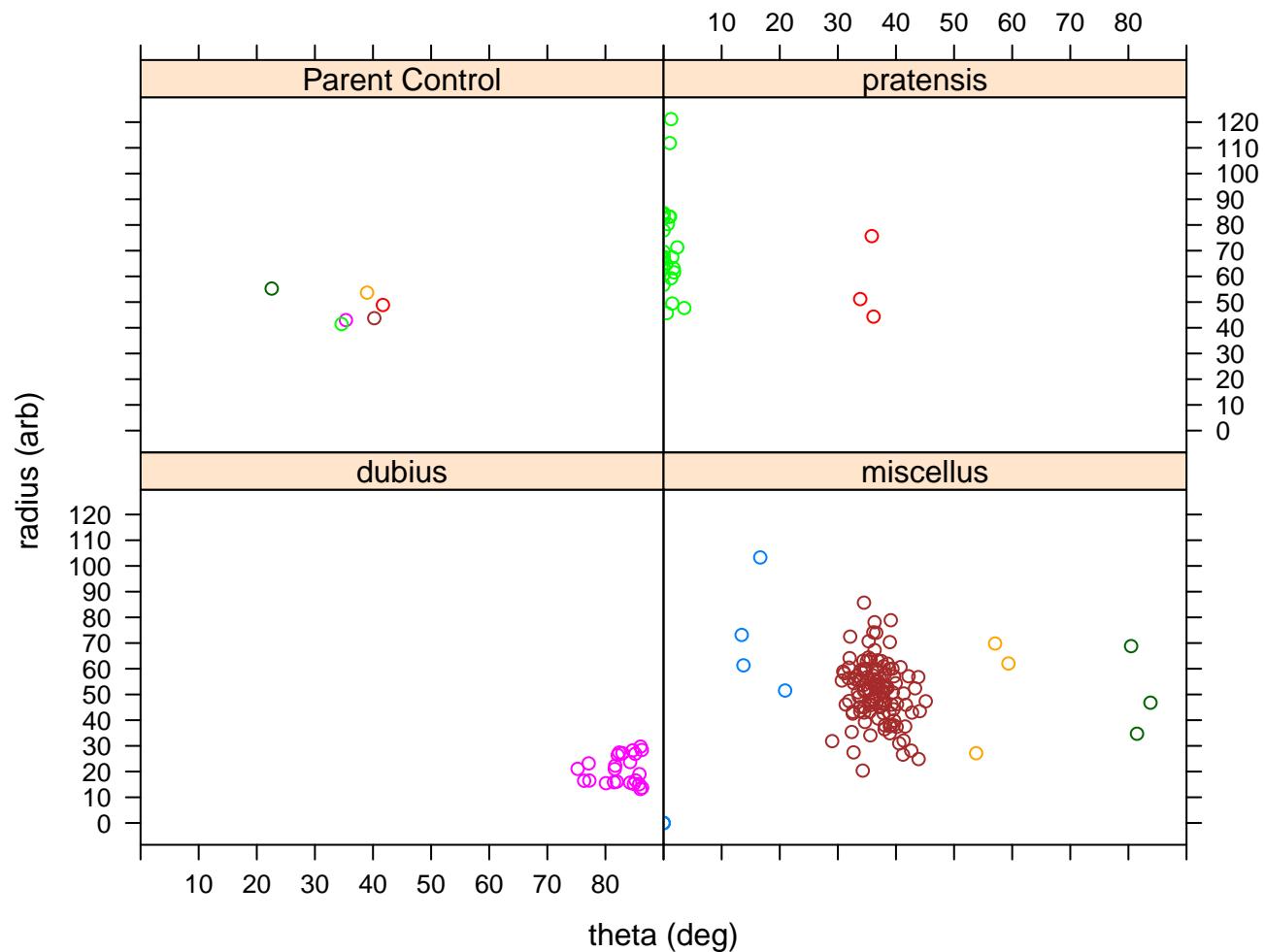
10 20 30 40 50 60 70 80



V_2_5_isotig17523_133 gDNA

Call

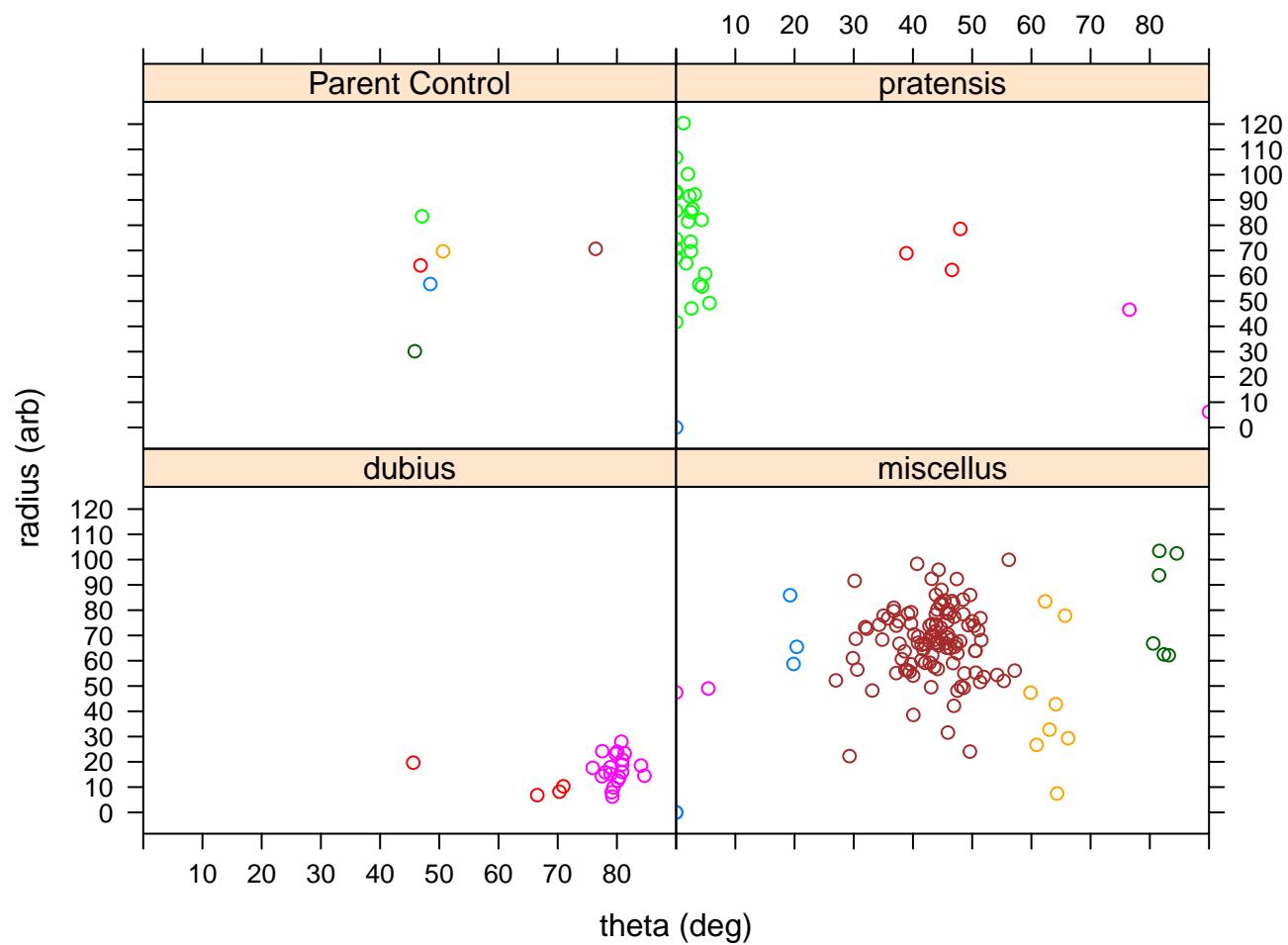
Bad_Spectrum	LLLH	Bad_Spectrum	LLLH
HH	PM3_1_1	HH	PM3_1_1
HHHH	PM3_1_2	HHHH	PM3_1_2
LH	PM3_2_1	LH	PM3_2_1
LHHH	PM4	LHHH	PM4
LL	PM5	LL	PM5
LLHH	PM6	LLHH	PM6



V_2_5_isotig17523_133 cDNA

Call

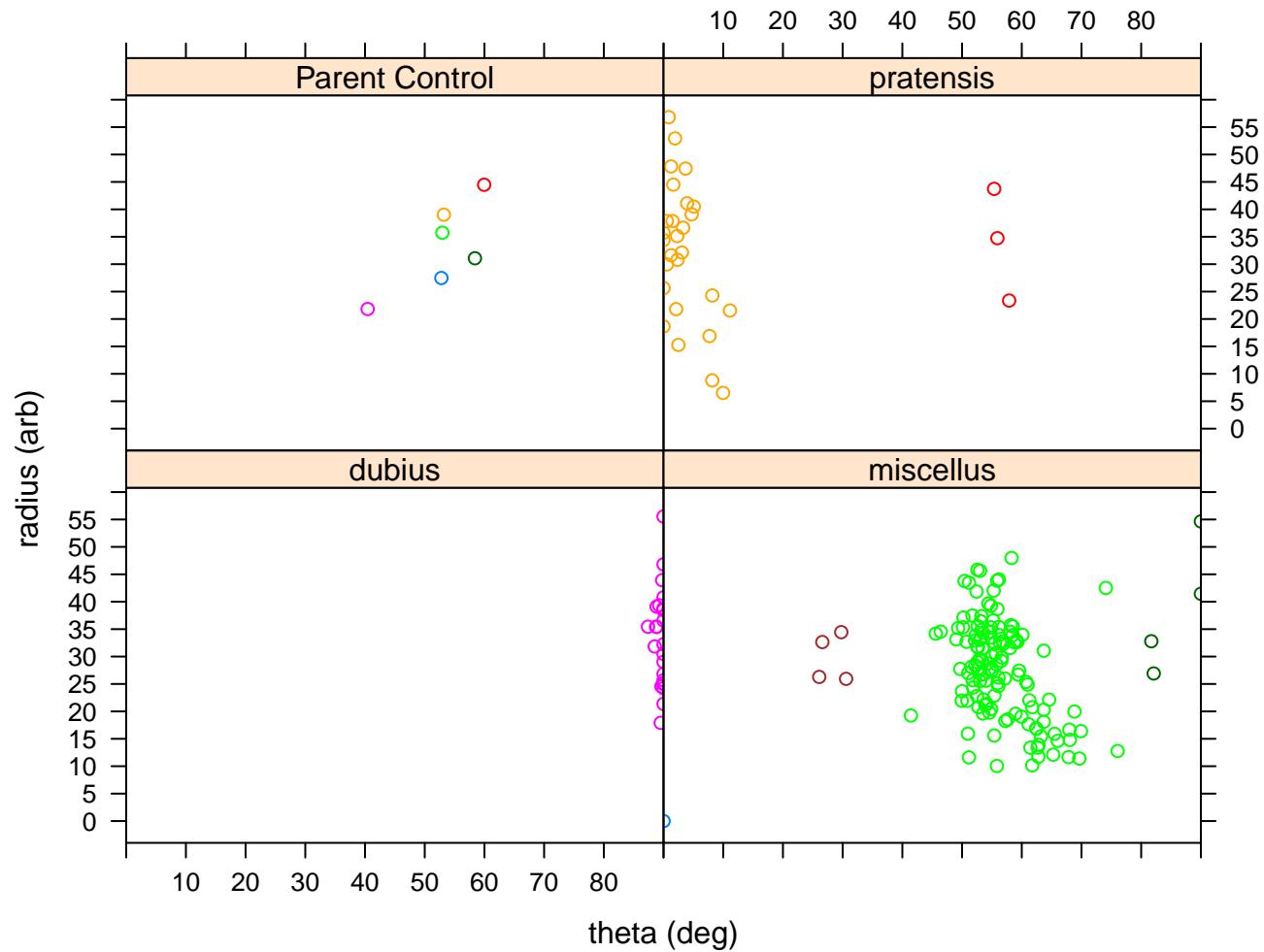
Bad_Spectrum	LLLL	Bad_Spectrum
HH	PM3_1_1	HH
HHHH	PM3_1_2	HHHH
LH	PM3_2_1	LH
LHHH	PM4	LHHH
LL	PM5	LL
LLHH	PM6	LLHH
LLLH		LLLH



V_2_5_isotig17537_74 gDNA

Call

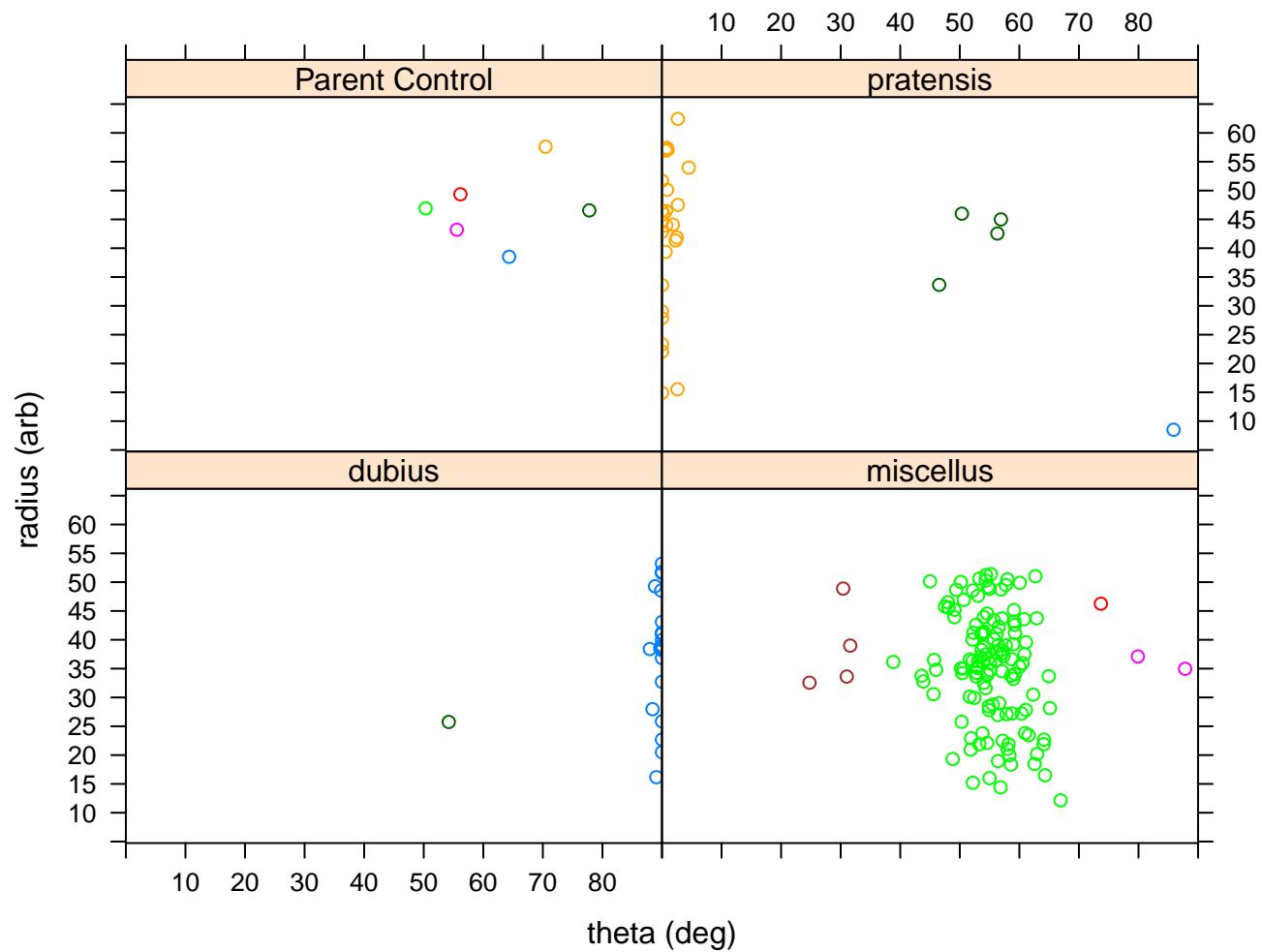
Bad_Spectrum	○	PM3_1_1	○
HH	○	PM3_1_2	○
HHHH	○	PM3_2_1	○
LH	○	PM4	○
LL	○	PM5	○
LLHH	○	PM6	○
LLLH	○		



V_2_5_isotig17537_74 cDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LHHH	○	PM4	○
LL	○	PM5	○
LLHH	○	PM6	○
LLLH	○		



V_2_5_isotig17541_279 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

130
120
110
100
90
80
70
60
50
40
30
20

radius (arb)

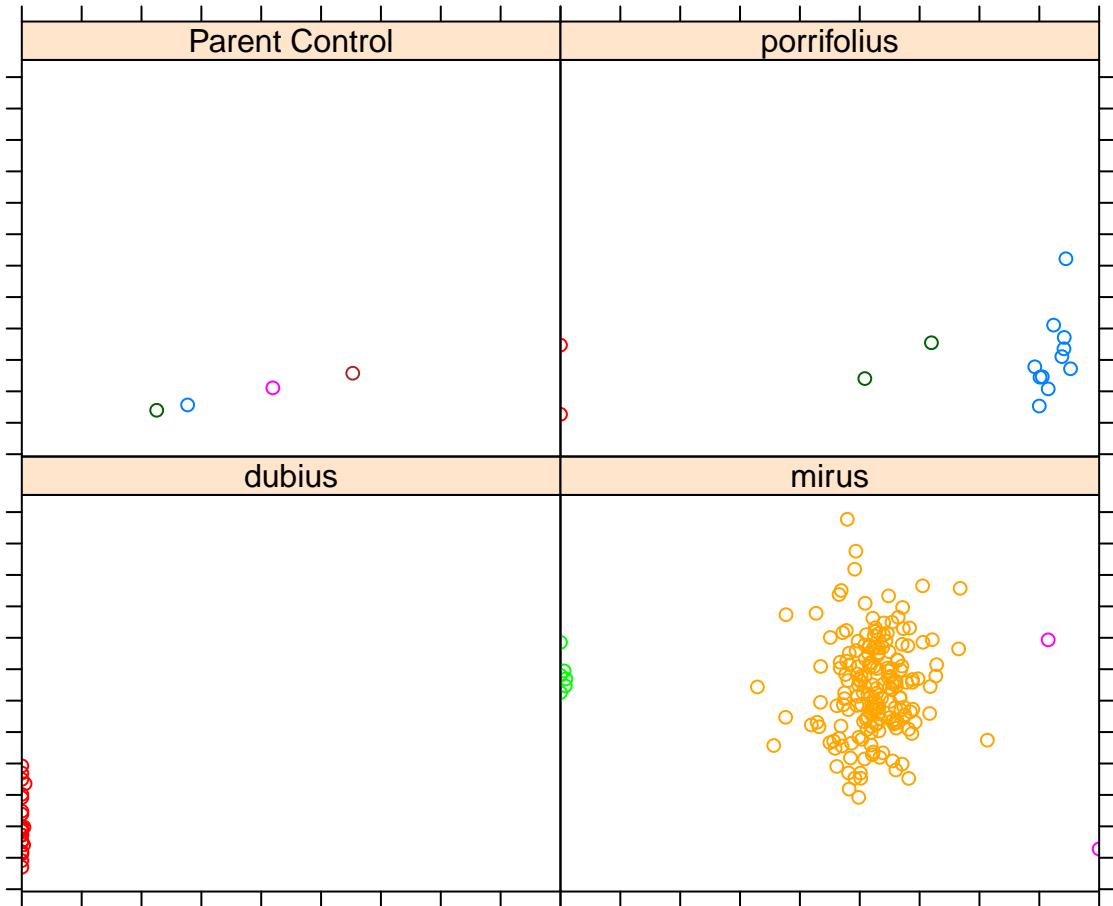
dubius

mirus

130
120
110
100
90
80
70
60
50
40
30
20

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig17541_279 cDNA

Call

Bad_Spectrum	LLLL	○
HH	PM1	○
HHHH	PM2_1_1	○
LH	PM2_1_2	○
LL	PM2_2_1	○
LLHH	○	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

radius (arb)

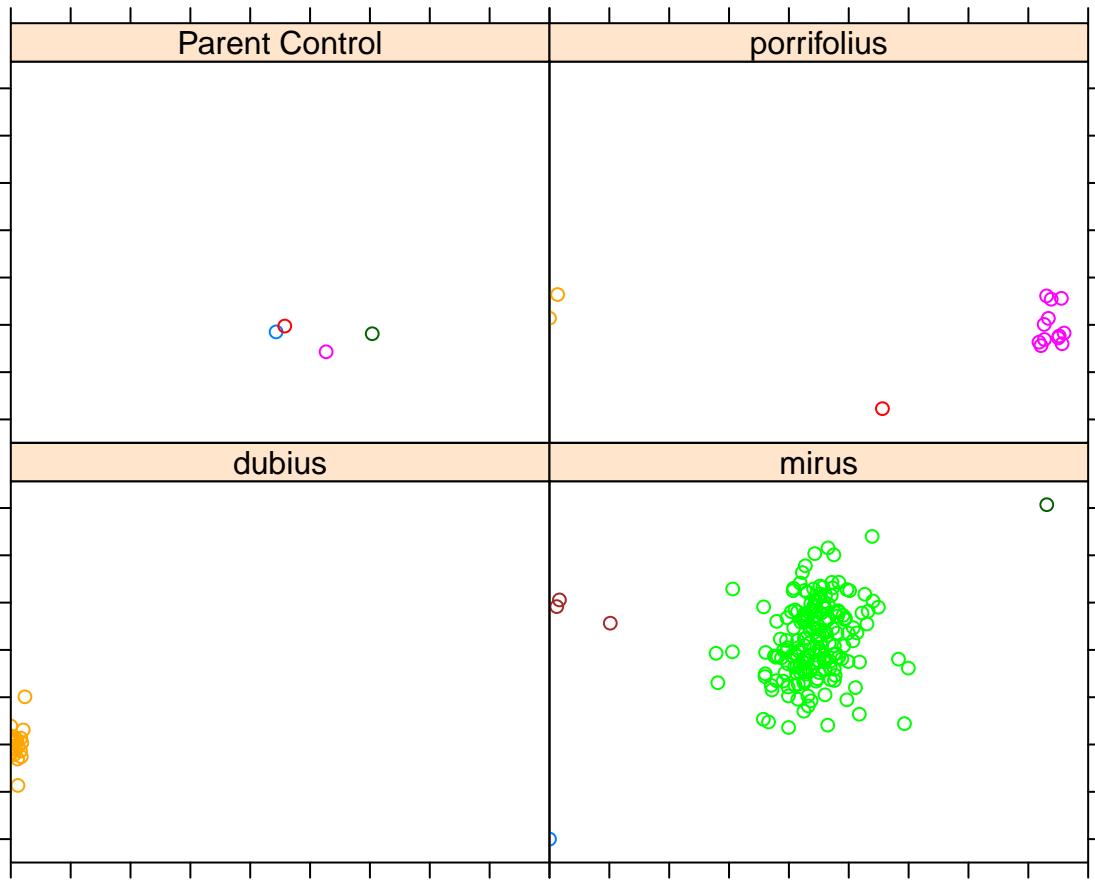
140
120
100
80
60
40
20
0

dubius

mirus

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig17603_225 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

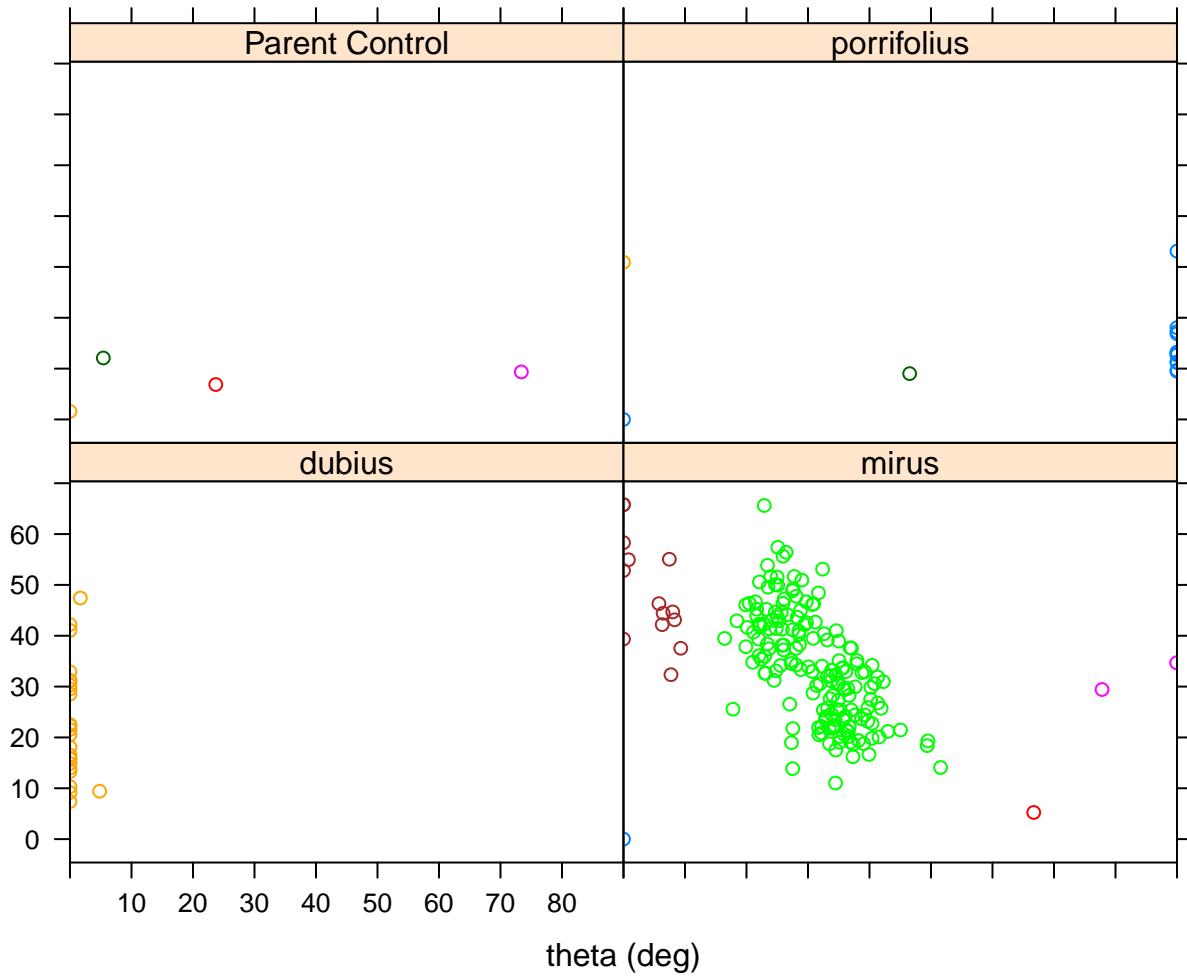
porrifolius

60
50
40
30
20
10
0

dubius

mirus

radius (arb)



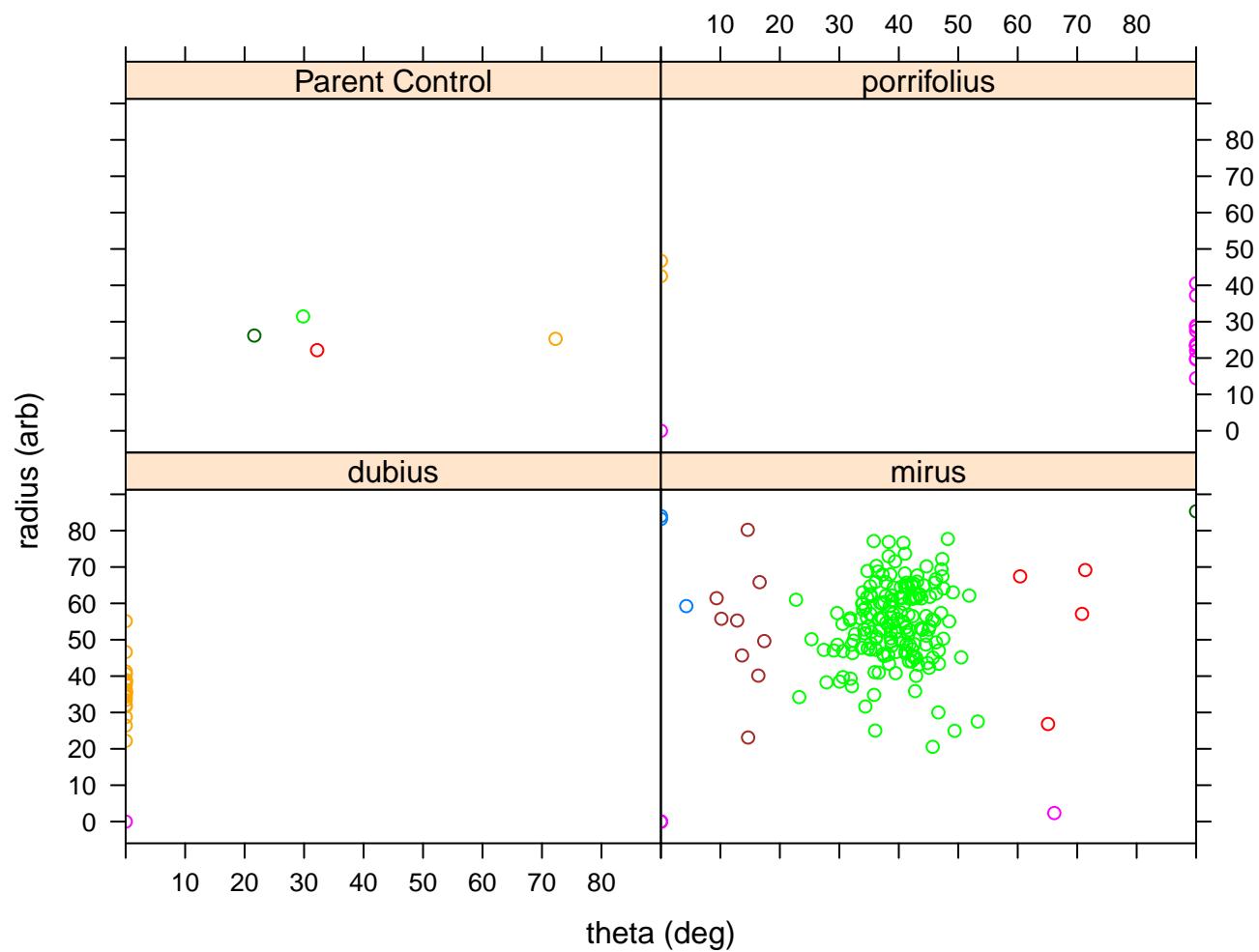
10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig17603_225 cDNA

Call

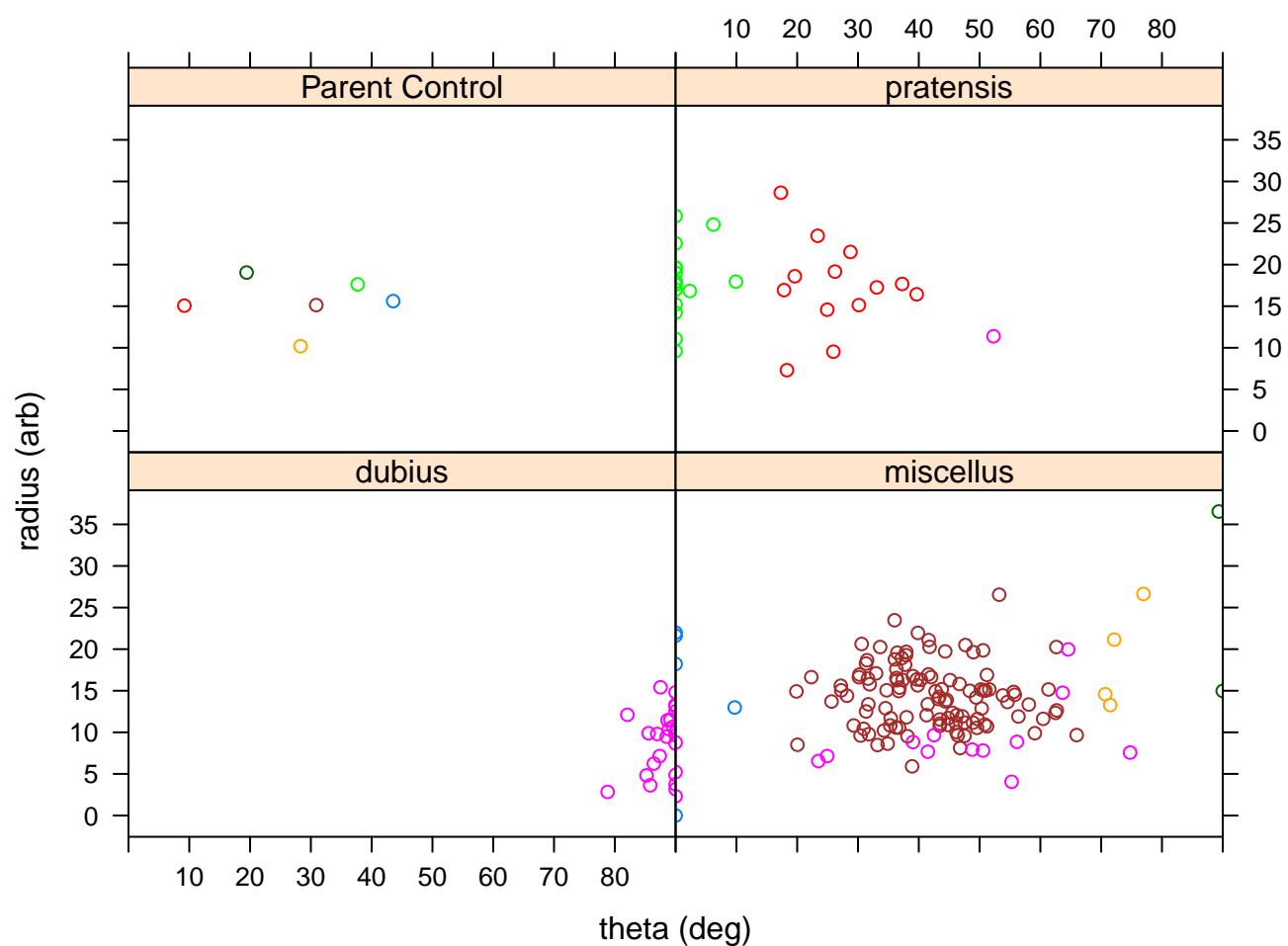
Bad_Spectrum	○	LLLL	○
HH	○	No_Alleles	○
HHHH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig17619_387 gDNA

Call

Bad_Spectrum	○	No_Aleles	○
HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LHHH	○	PM4	○
LL	○	PM5	○
LLHH	○	PM6	○
LLLL	○		



V_2_5_isotig17619_387 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

100
90
80
70
60
50
40
30
20
10

dubius

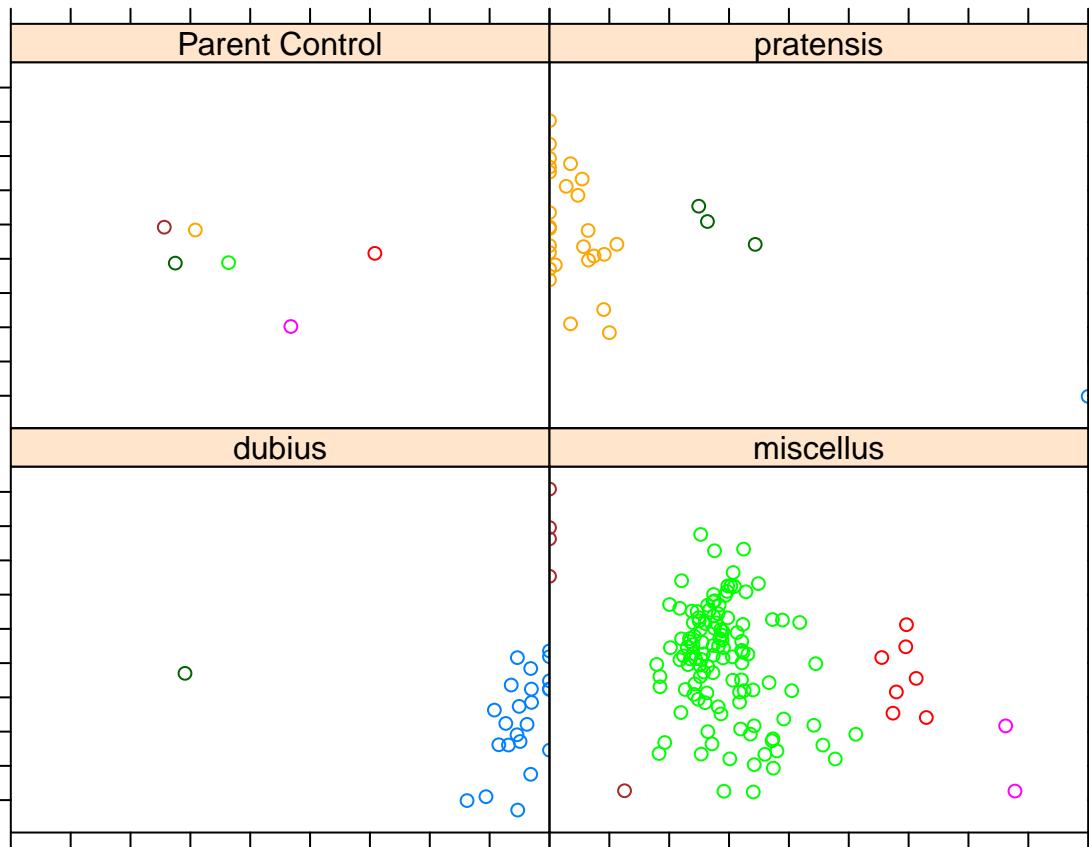
miscellus

100
90
80
70
60
50
40
30
20
10

radius (arb)

10 20 30 40 50 60 70 80

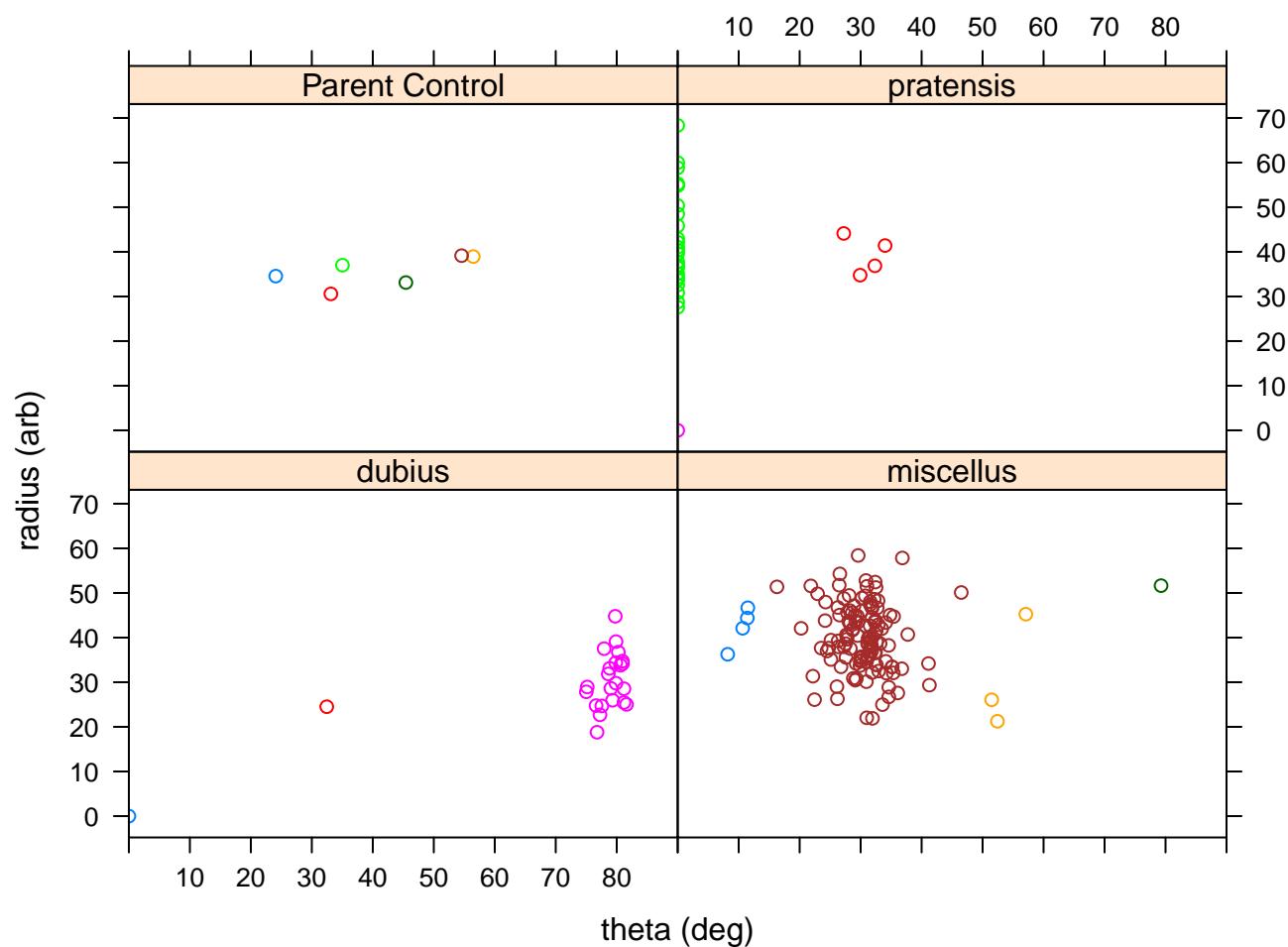
theta (deg)



V_2_5_isotig17761_185 cDNA

Call

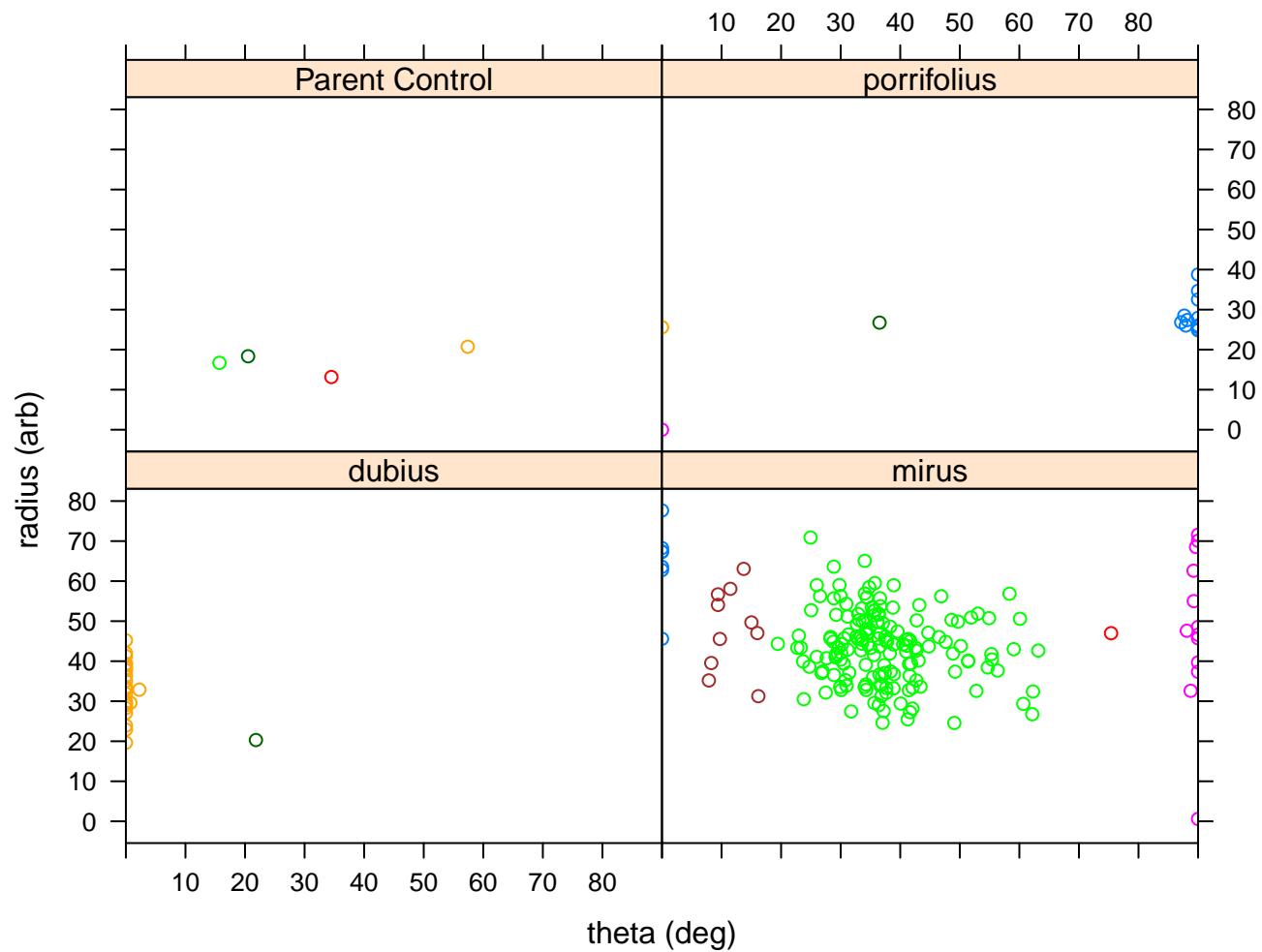
Bad_Spectrum	○	No_Alleles	○
HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LHHH	○	PM4	○
LL	○	PM5	○
LLHH	○	PM6	○
LLLH	○		



V_2_5_isotig17763_390 cDNA

Call

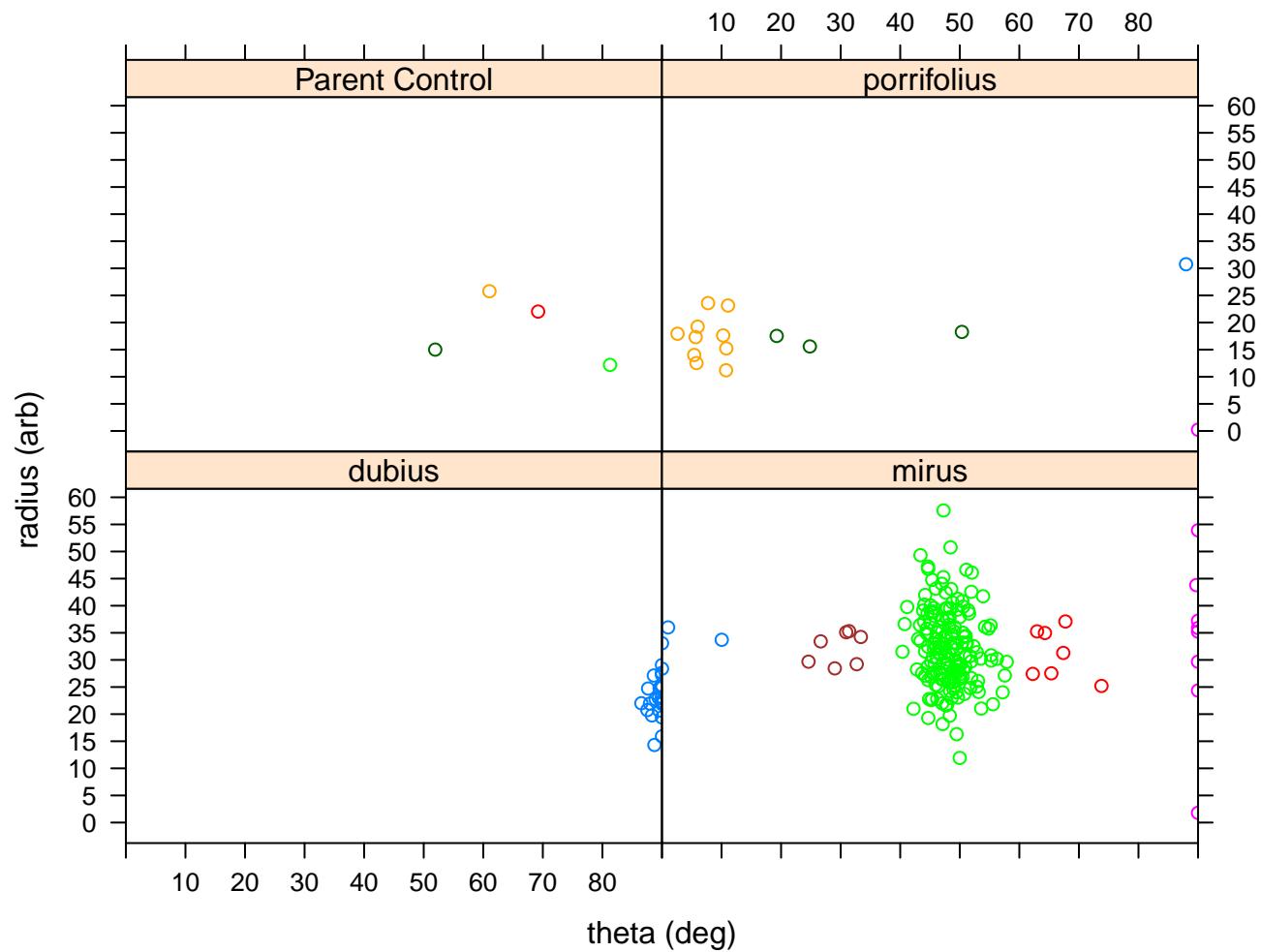
HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig17797_261 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig17797_261 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LHHH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

60
55
50
45
40
35
30
25
20
15
10
5
0

dubius

mirus

60
55
50
45
40
35
30
25
20
15
10
5
0

10 20 30 40 50 60 70 80

theta (deg)

radius (arb)

V_2_5_isotig17805_244 gDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

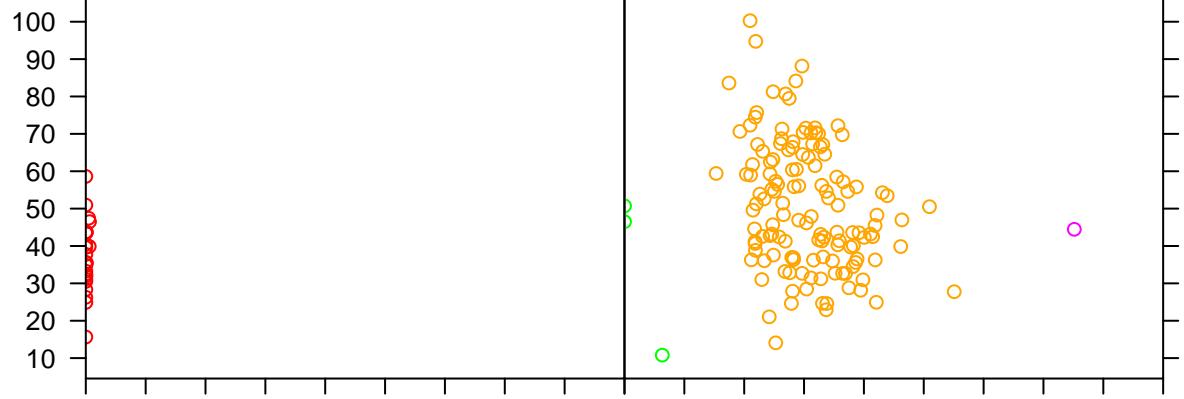
pratensis

radius (arb)

100
90
80
70
60
50
40
30
20
10

dubius

miscellus



theta (deg)

V_2_5_isotig17805_244 cDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

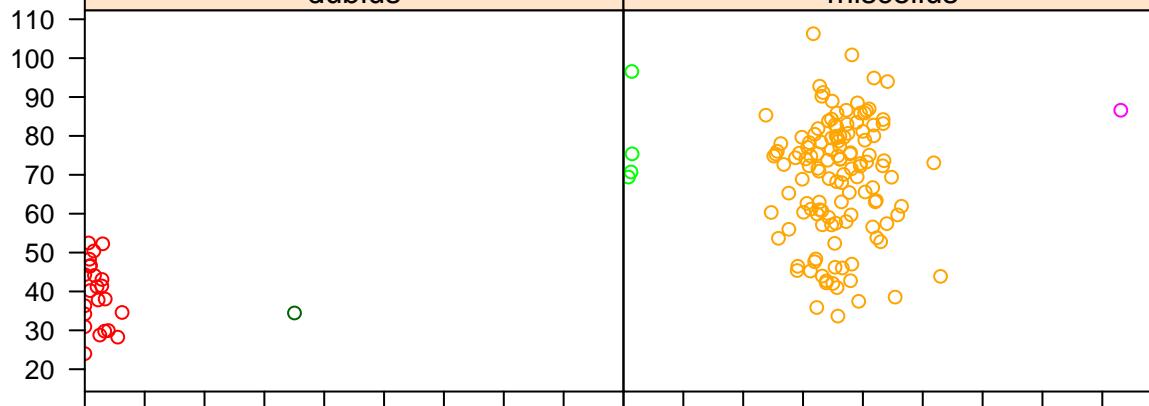
Parent Control

pratensis

110
100
90
80
70
60
50
40
30
20

dubius

miscellus



theta (deg)

V_2_5_isotig17818_90 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

70
60
50
40
30
20
10
0

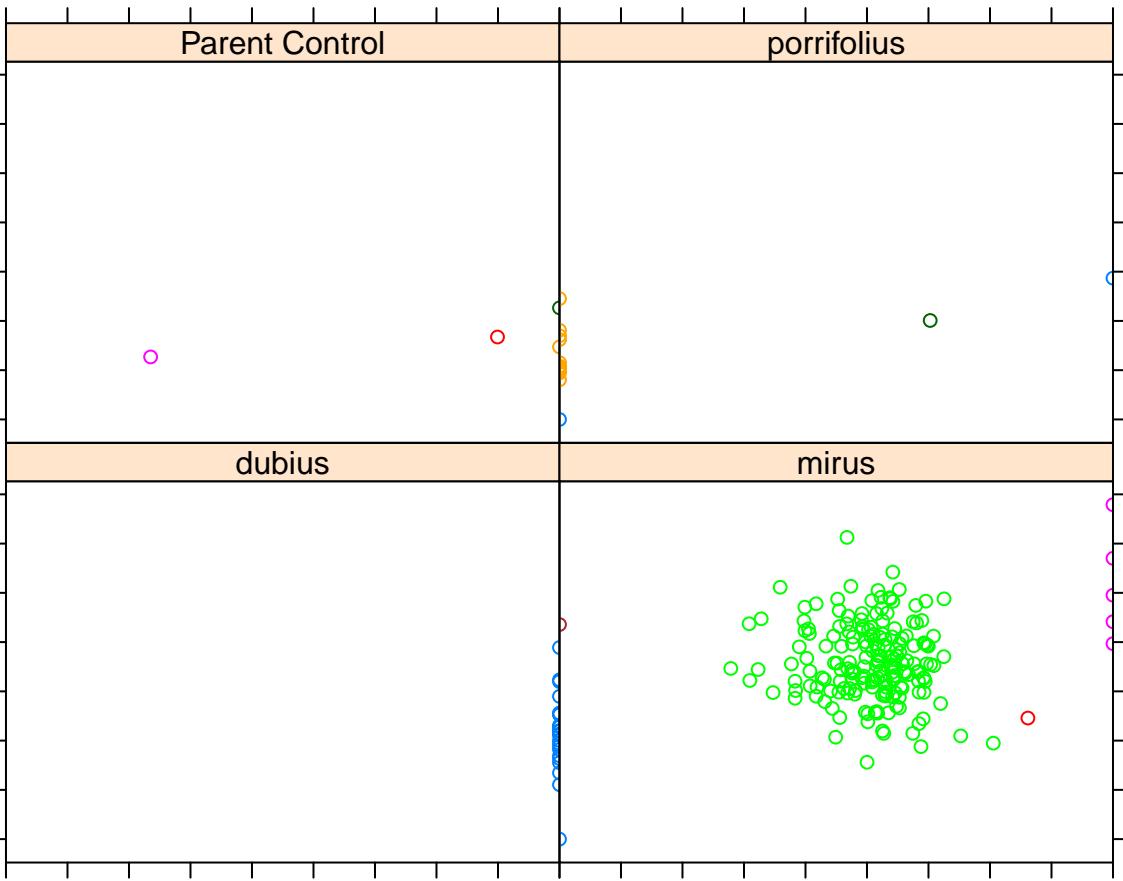
dubius

mirus

radius (arb)

10 20 30 40 50 60 70 80

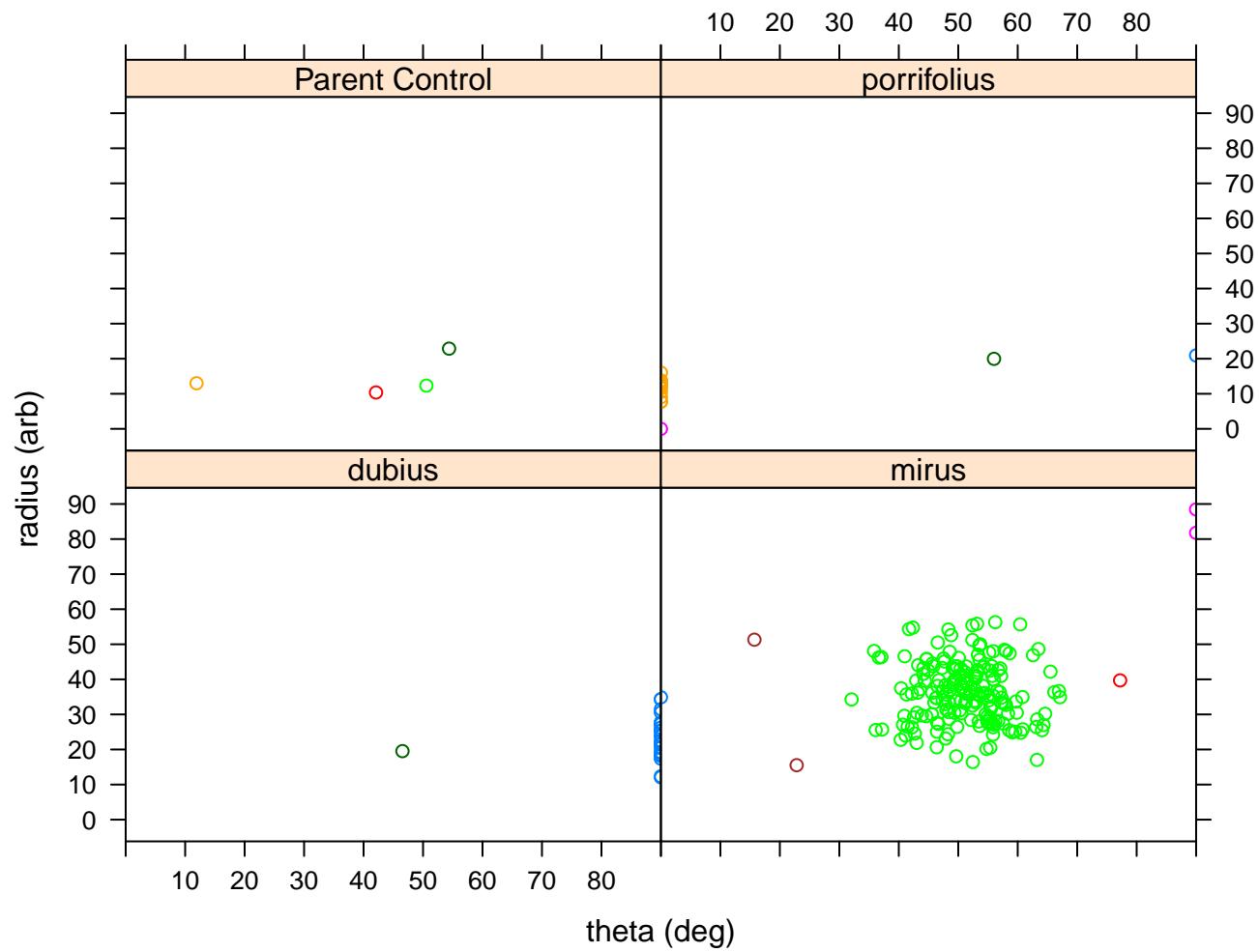
theta (deg)



V_2_5_isotig17818_90 cDNA

Call

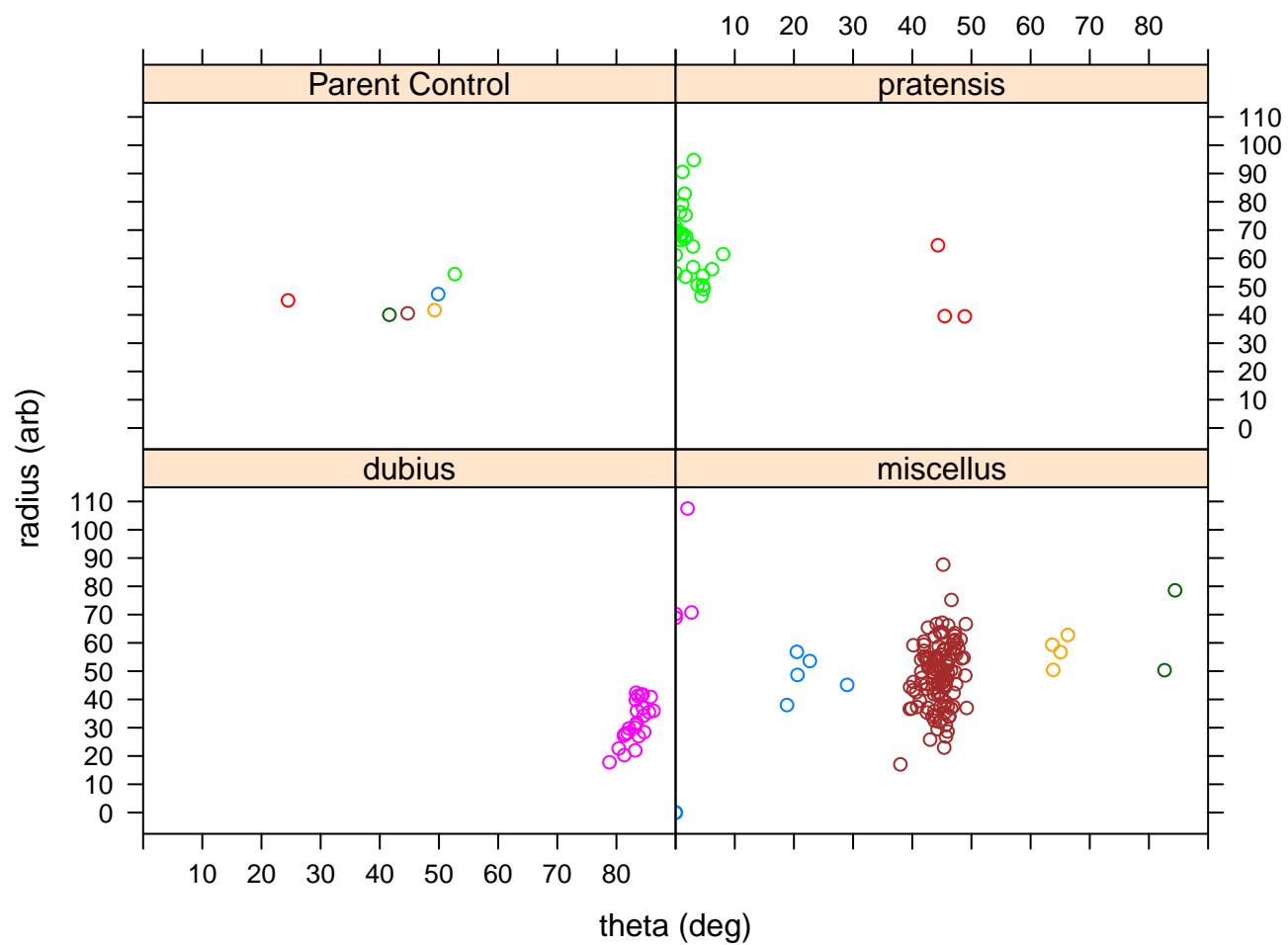
HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		○



V_2_5_isotig17820_417 gDNA

Call

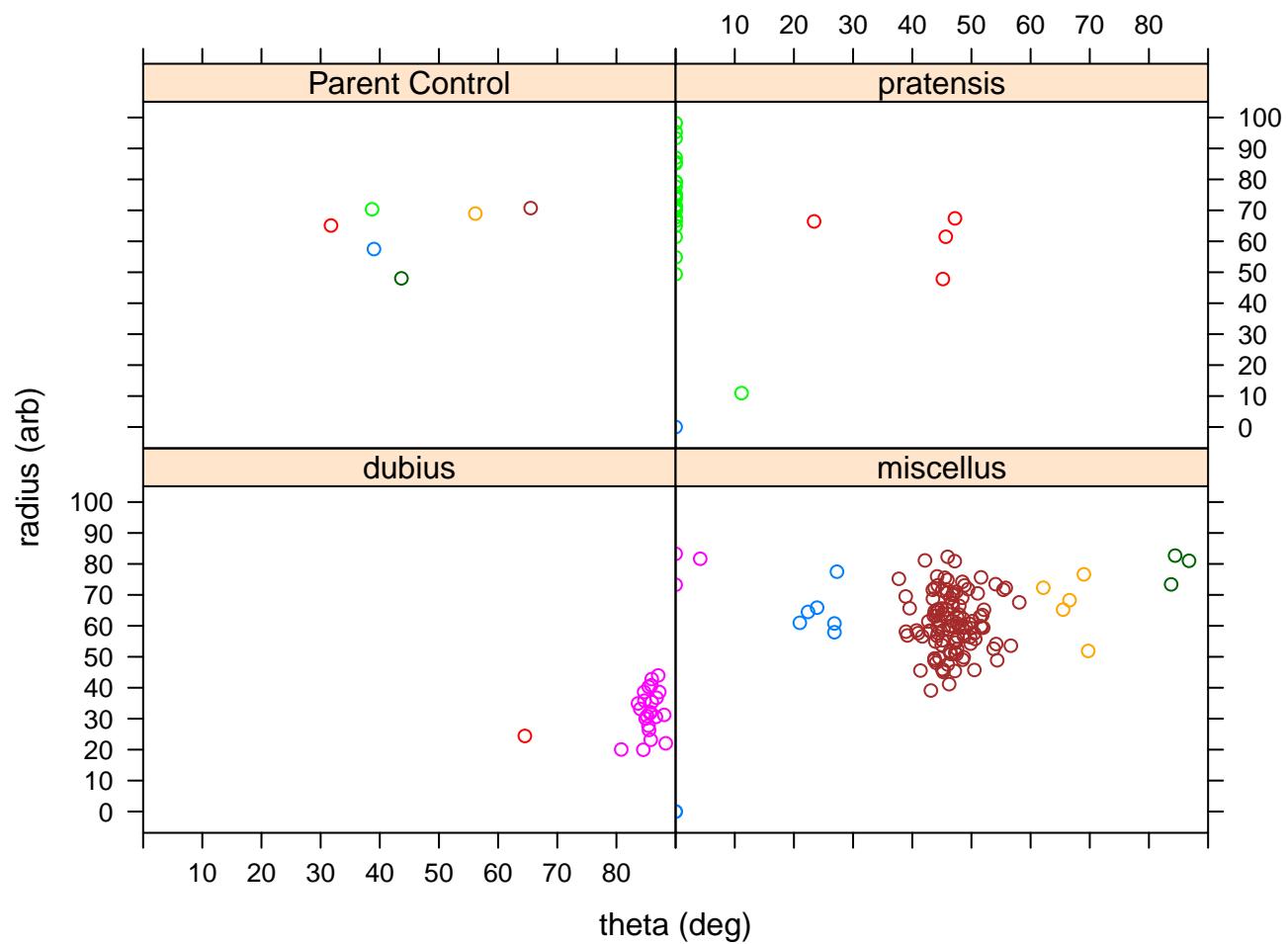
Bad_Spectrum	LLLL	Bad_Spectrum	LLLL
HH	PM3_1_1	HH	PM3_1_1
HHHH	PM3_1_2	HHHH	PM3_1_2
LH	PM3_2_1	LH	PM3_2_1
LHHH	PM4	LHHH	PM4
LL	PM5	LL	PM5
LLHH	PM6	LLHH	PM6
LLLH		LLLH	



V_2_5_isotig17820_417 cDNA

Call

Bad_Spectrum	LLLL	purple
HH	PM3_1_1	green
HHHH	PM3_1_2	red
LH	PM3_2_1	orange
LHHH	PM4	green
LL	PM5	red
LLHH	PM6	blue
LLLH		



V_2_5_isotig17830_115 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

130
120
110
100
90
80
70
60
50
40
30
20
10

dubius

miscellus

130
120
110
100
90
80
70
60
50
40
30
20
10

radius (arb)

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig17830_115 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

radius (arb)

120
100
80
60
40
20
0

dubius

miscellus

120
100
80
60
40
20
0

10 20 30 40 50 60 70 80

theta (deg)

HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig17830_254 gDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

90
80
70
60
50
40
30
20
10
0

dubius

miscellus

90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)

radius (arb)

10 20 30 40 50 60 70 80

V_2_5_isotig17830_254 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LL	○	PM3_2_1	○
LLHH	○	PM4	○
LLLH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

120
110
100
90
80
70
60
50
40
30
20
10
0

dubius

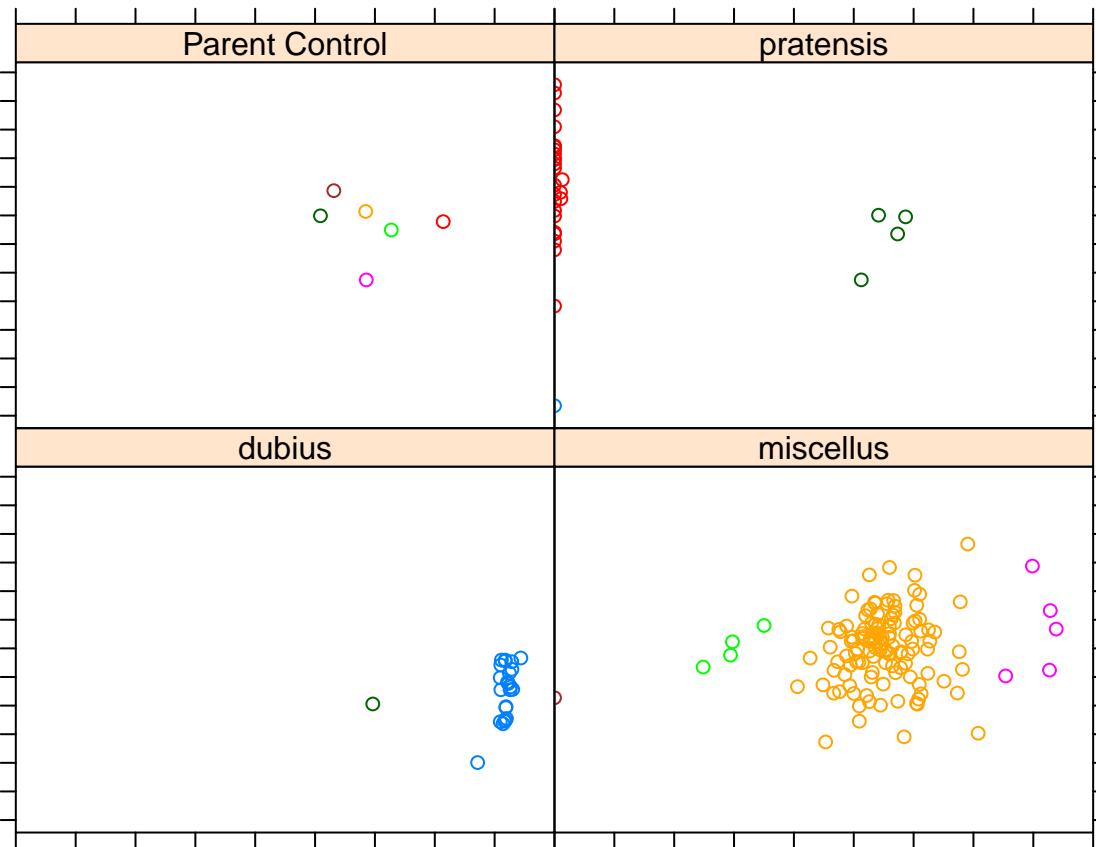
miscellus

radius (arb)

120
110
100
90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig17866_244 gDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLLL	○	PM5	○
No_Aleles	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

radius (arb)

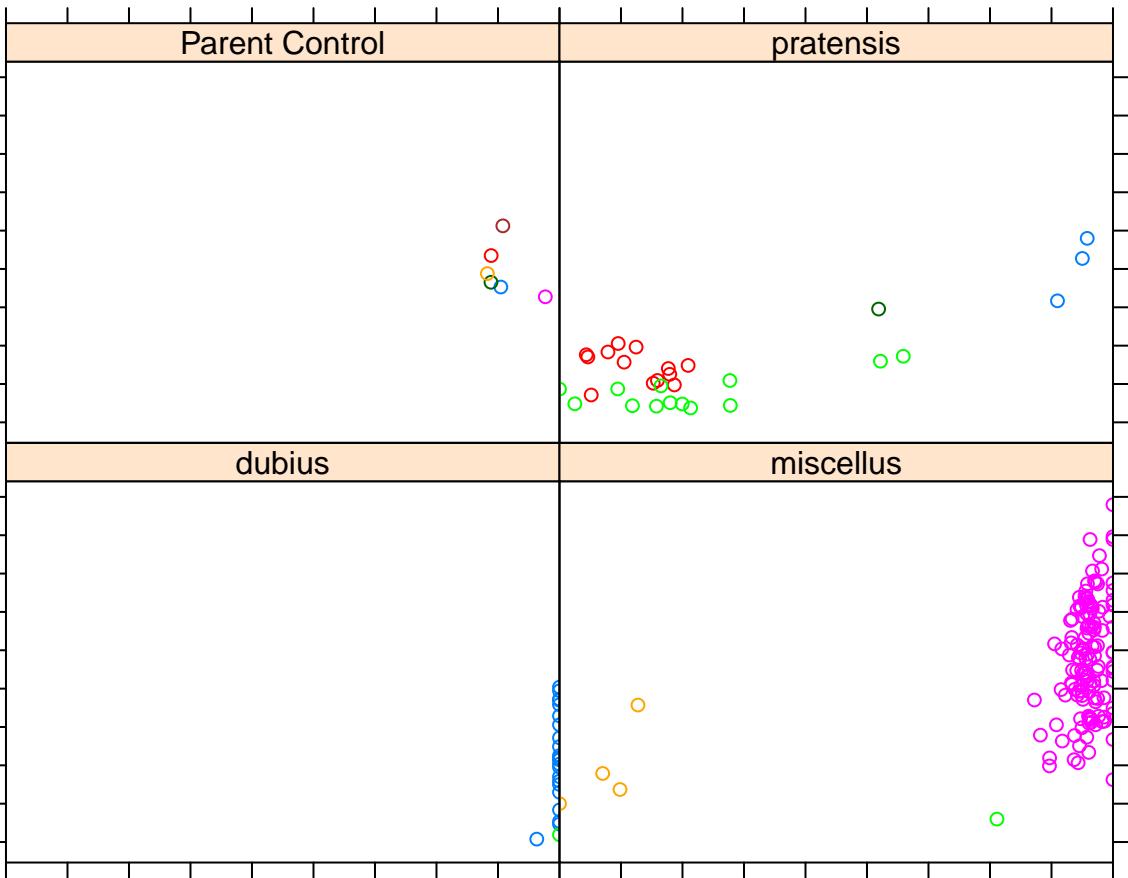
50
45
40
35
30
25
20
15
10
5

dubius

miscellus

10 20 30 40 50 60 70 80

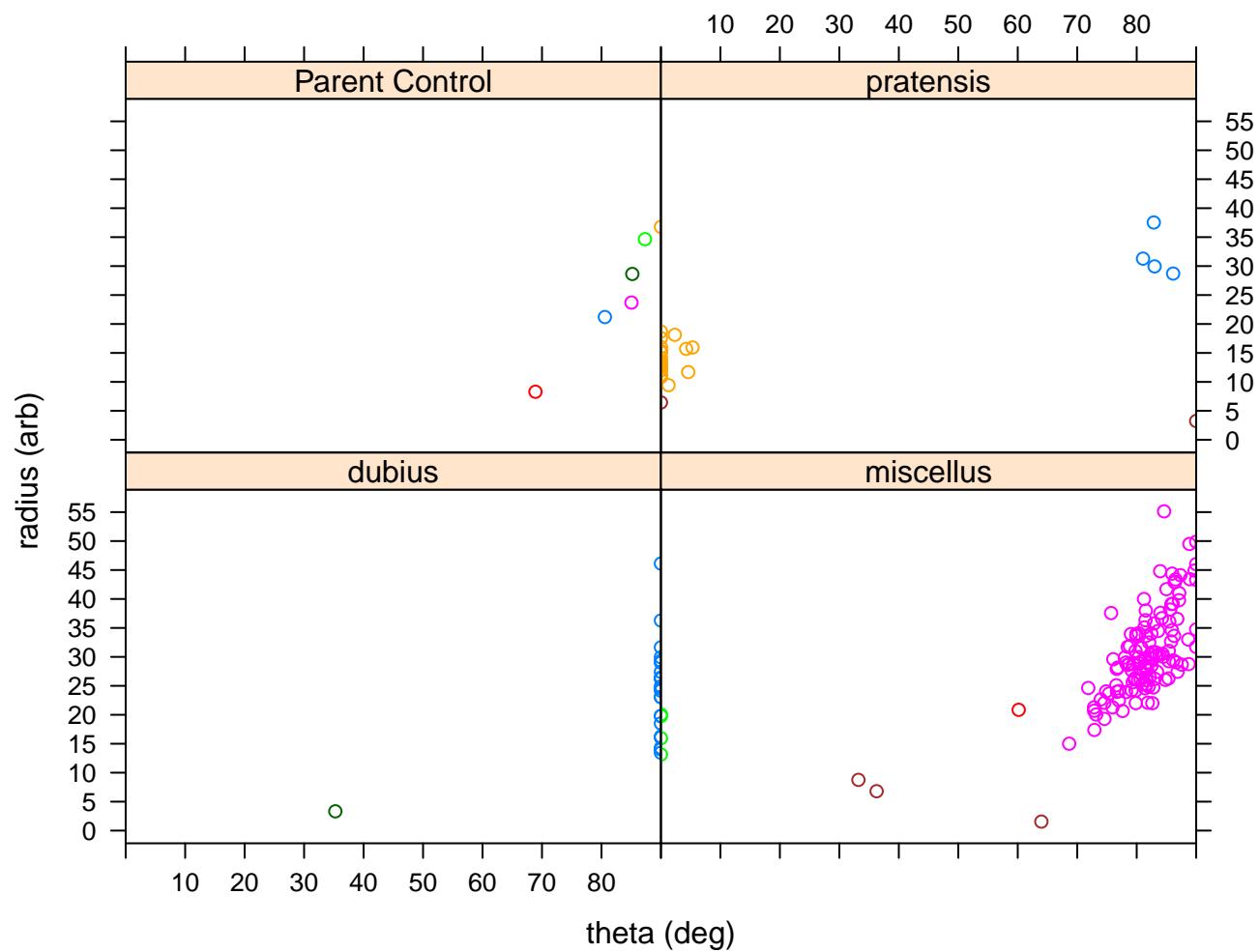
theta (deg)



V_2_5_isotig17866_244 cDNA

Call

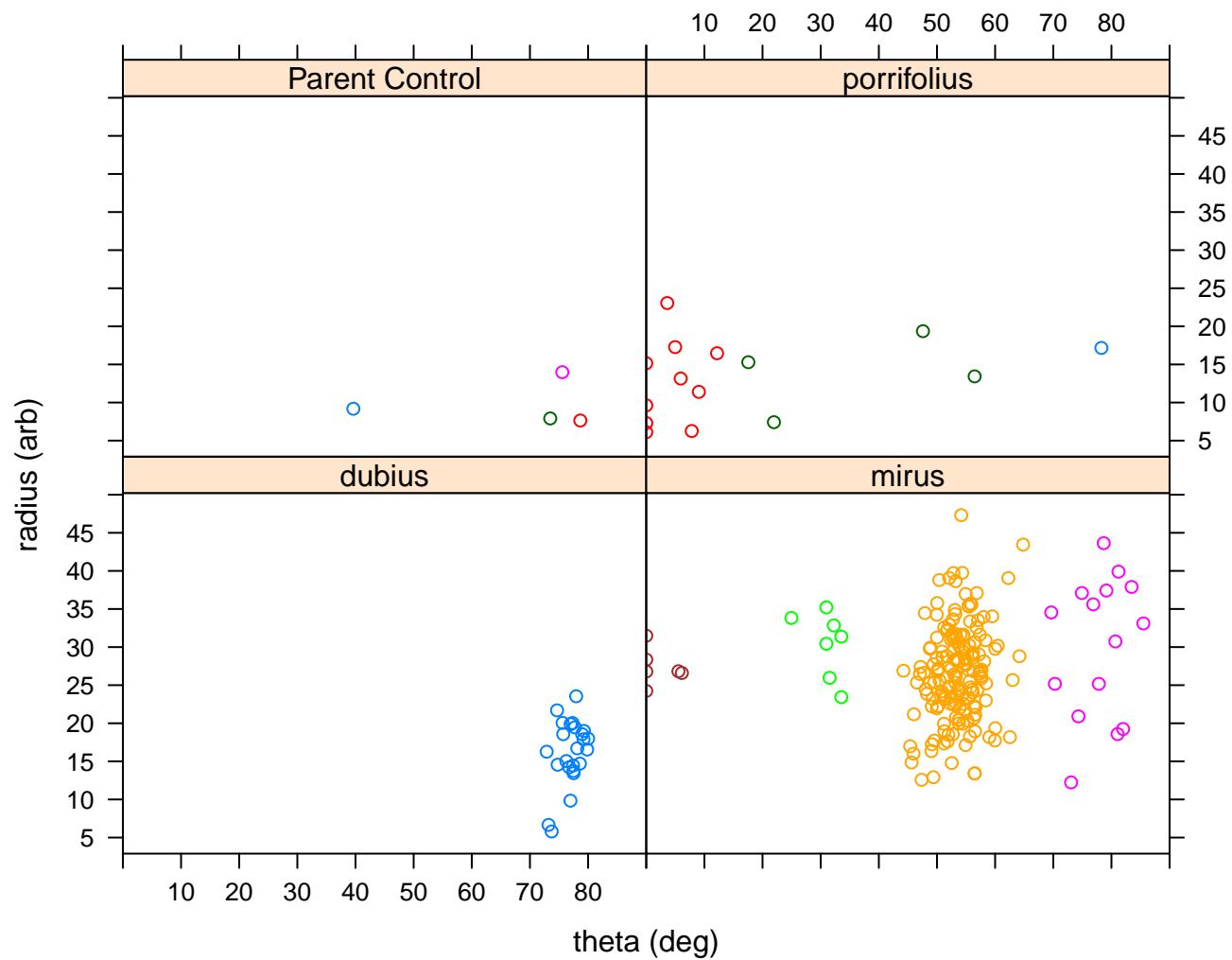
HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LHHH	○	PM4	○
LL	○	PM5	○
LLLL	○	PM6	○
No_Aleles	○		



V_2_5_isotig17937_231 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig17957_265 cDNA

Call

HH	○	LLLH	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

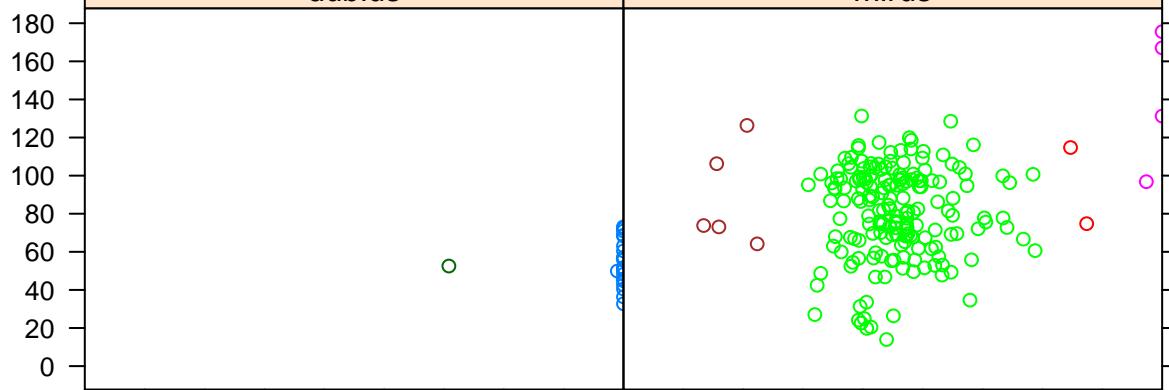
Parent Control

porrifolius

180
160
140
120
100
80
60
40
20
0

dubius

mirus



theta (deg)

V_2_5_isotig17996_118 gDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLL	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

radius (arb)

80
70
60
50
40
30
20
10

dubius

mirus

80
70
60
50
40
30
20
10

10 20 30 40 50 60 70 80

theta (deg)

80
70
60
50
40
30
20
10

V_2_5_isotig17996_118 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

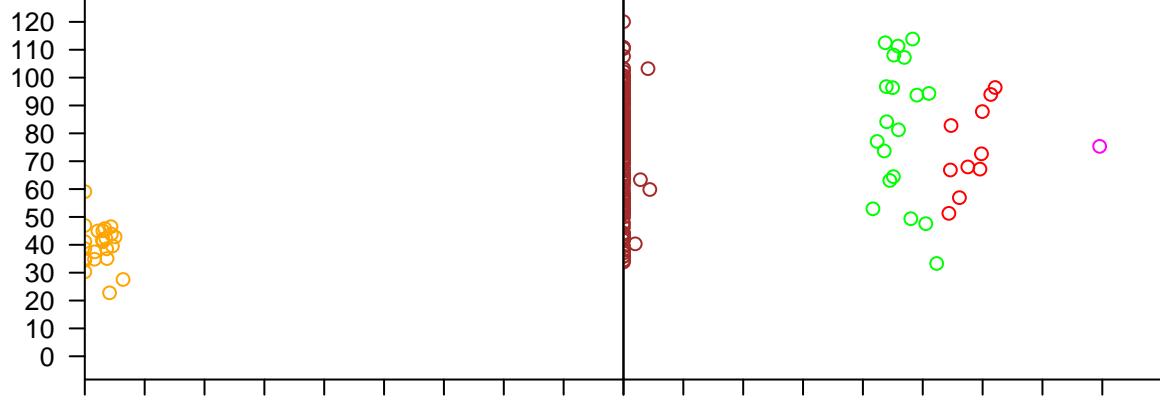
Parent Control

porrifolius

120
110
100
90
80
70
60
50
40
30
20
10
0

dubius

mirus



theta (deg)

V_2_5_isotig18010_112 gDNA

Call

HH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

140
130
120
110
100
90
80
70
60
50
40
30
20

dubius

miscellus

140
130
120
110
100
90
80
70
60
50
40
30
20

radius (arb)

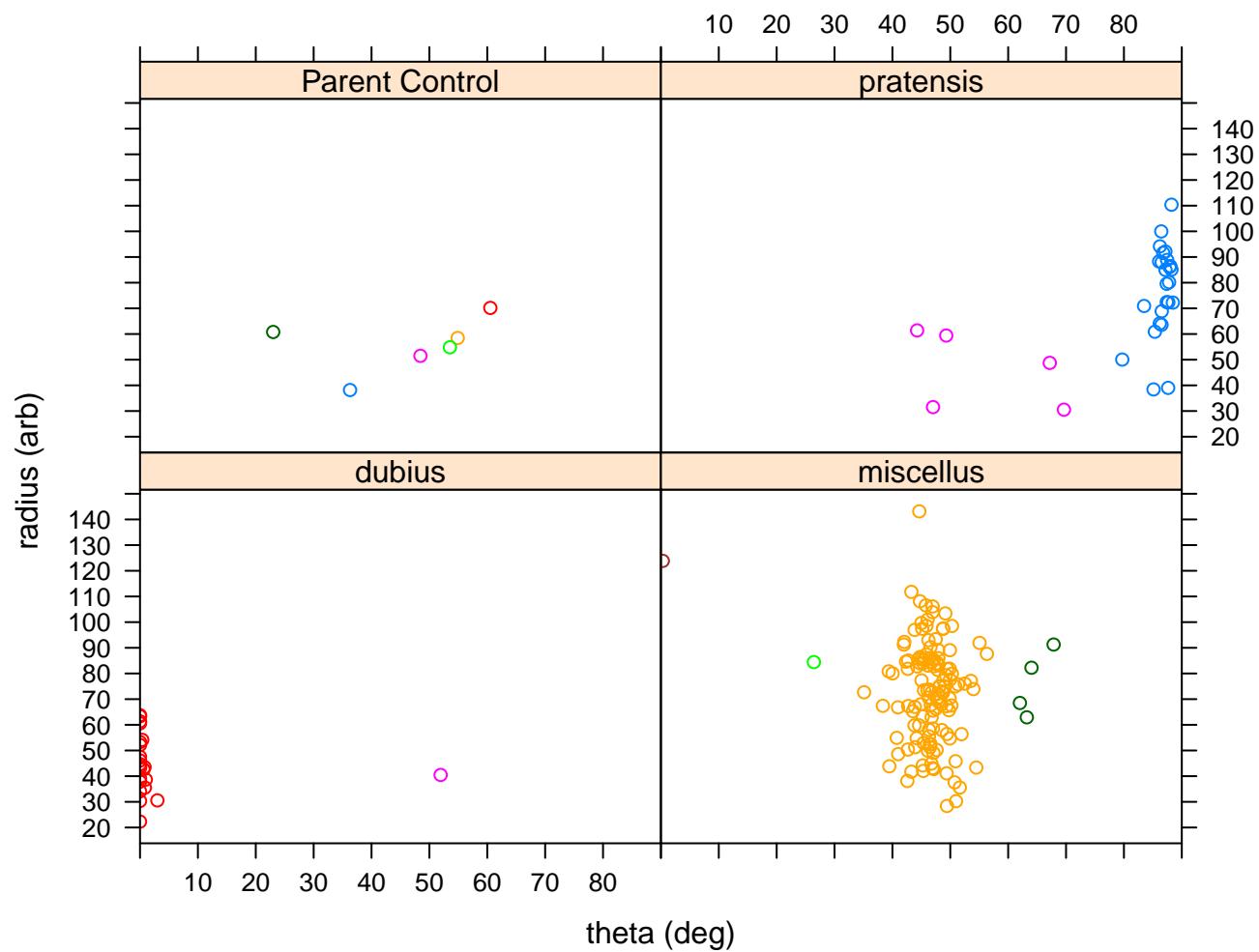
10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig18010_112 cDNA

Call

HH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		



V_2_5_isotig18027_244 gDNA

Call

Bad_Spectrum	○	LLLL	○
HH	○	No_Alleles	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LHHH	○	PM2_1_2	○
LL	○	PM2_2_1	○
LLHH	○		

10 20 30 40 50 60 70 80

Parent Control

porrifolius

90
80
70
60
50
40
30
20
10
0

radius (arb)

dubius

mirus

90
80
70
60
50
40
30
20
10
0

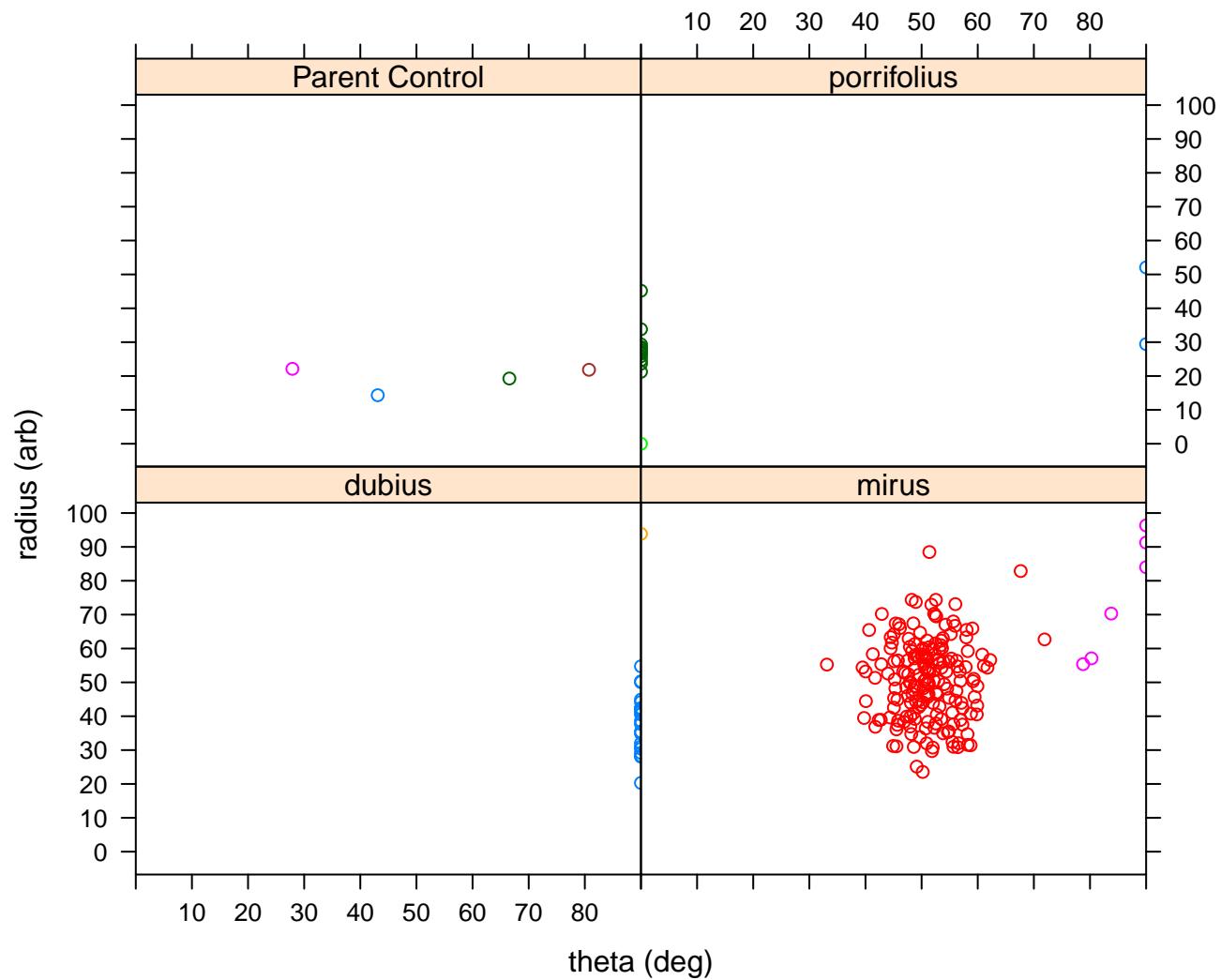
10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig18027_244 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLL	○	PM2_2_1	○



V_2_5_isotig18062_45 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

55
50
45
40
35
30
25
20
15
10
5
0

dubius

mirus

55
50
45
40
35
30
25
20
15
10
5
0

10 20 30 40 50 60 70 80

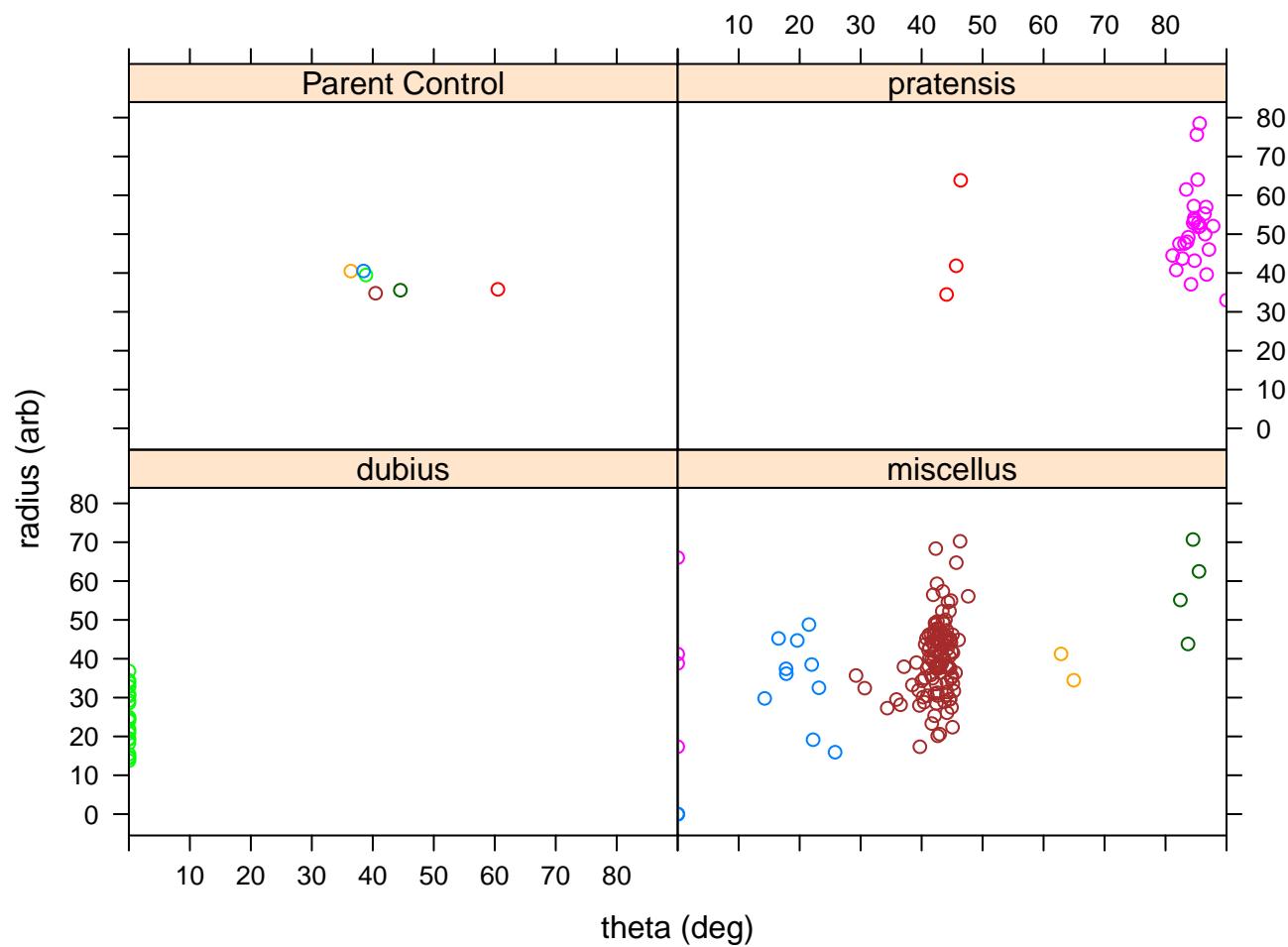
theta (deg)

radius (arb)

V_2_5_isotig18070_135 gDNA

Call

Bad_Spectrum	LLLL	Bad_Spectrum	LLLL
HH	PM3_1_1	HH	PM3_1_1
HHHH	PM3_1_2	HHHH	PM3_1_2
LH	PM3_2_1	LH	PM3_2_1
LHHH	PM4	LHHH	PM4
LL	PM5	LL	PM5
LLHH	PM6	LLHH	PM6
LLLH		LLLH	



V_2_5_isotig18070_135 cDNA

Call

Bad_Spectrum	○	No_Alleles	○
HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

90
80
70
60
50
40
30
20
10
0

dubius

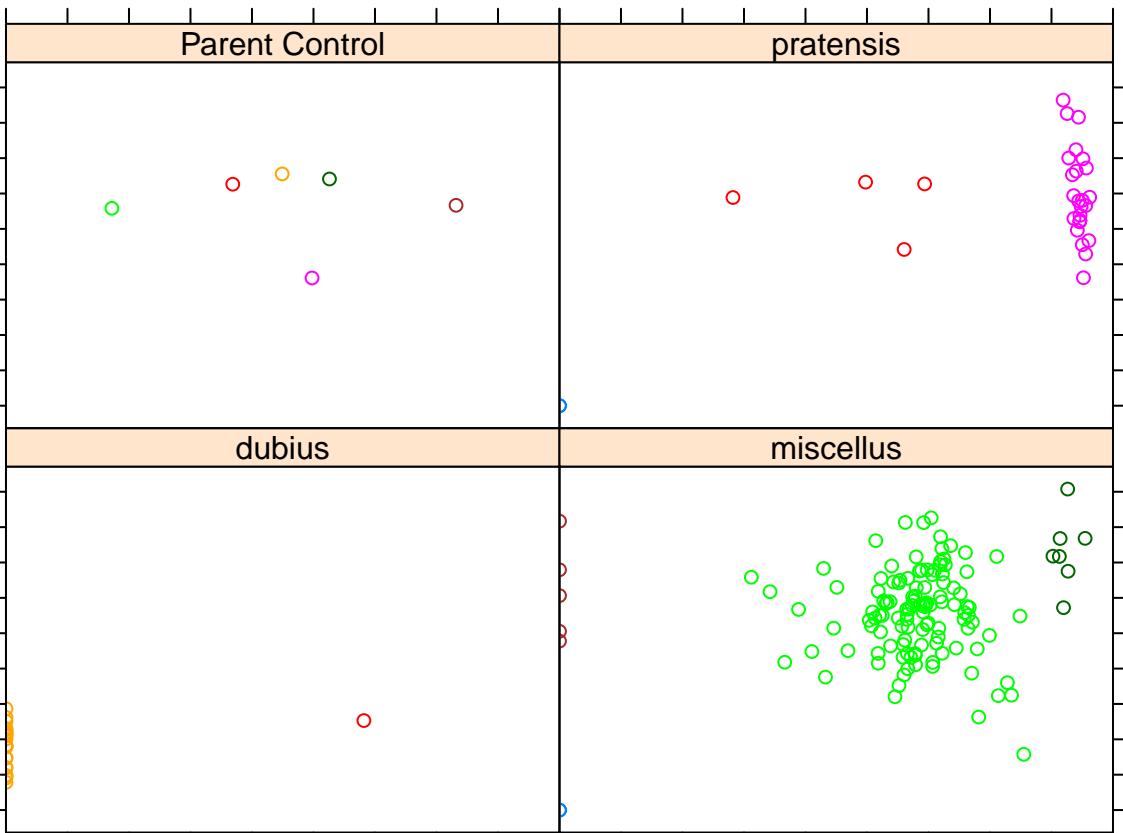
miscellus

90
80
70
60
50
40
30
20
10
0

radius (arb)

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig18070_435 gDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

45
40
35
30
25
20
15
10
5

dubius

miscellus

radius (arb)

45
40
35
30
25
20
15
10
5

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig18070_435 cDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

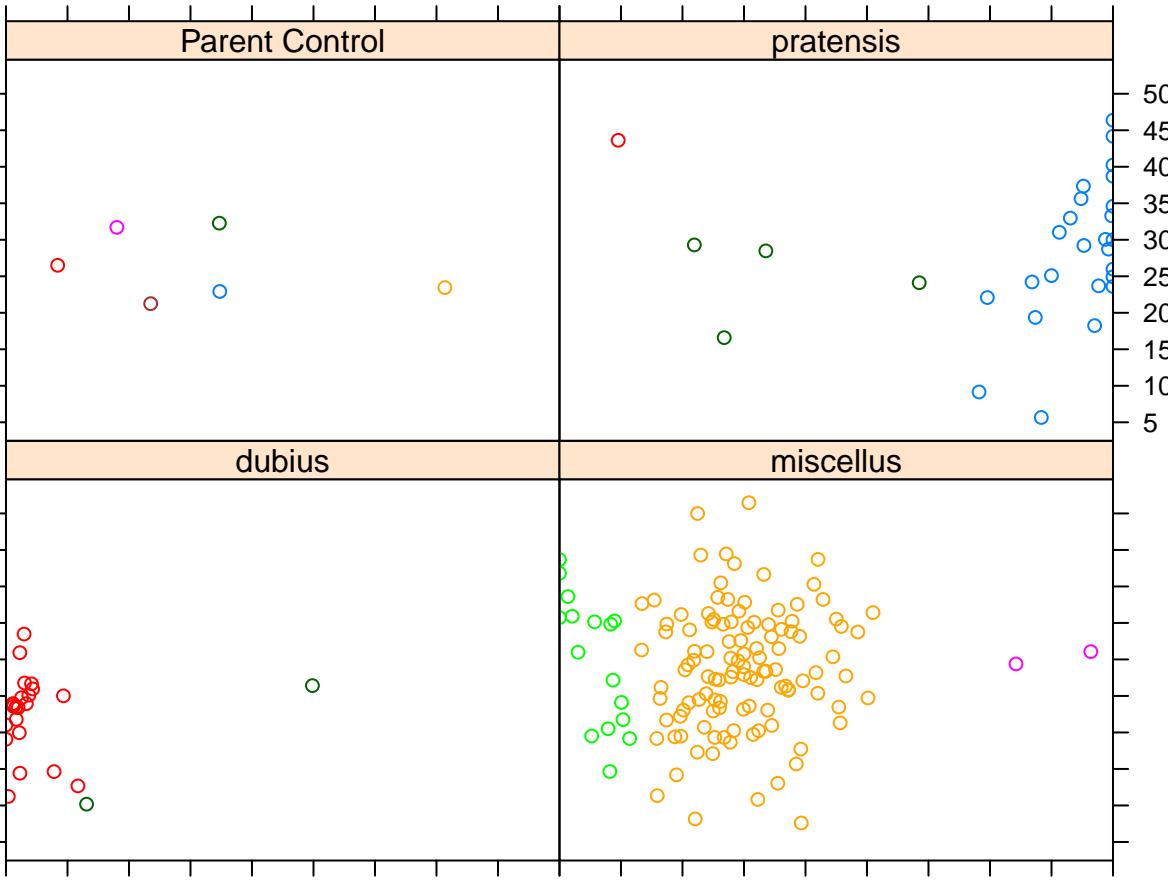
pratensis

radius (arb)

dubius

miscellus

theta (deg)



V_2_5_isotig18070_54 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

radius (arb)

40
35
30
25
20
15
10
5

dubius

miscellus

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig18070_54 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

80
70
60
50
40
30
20
10
0

dubius

miscellus

radius (arb)

80

70

60

50

40

30

20

10

0

10 20 30 40 50 60 70 80

theta (deg)

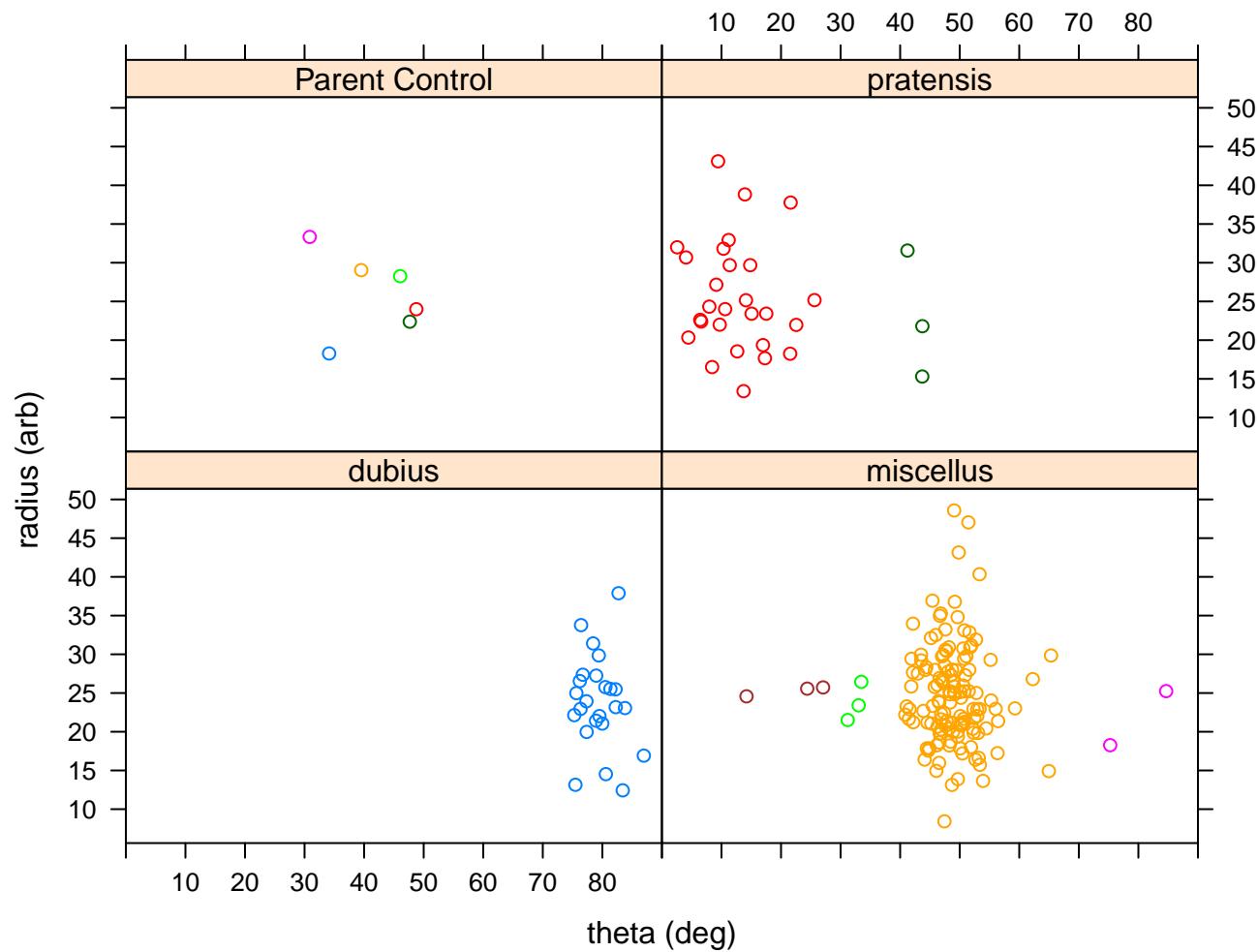
10 20 30 40 50 60 70 80

80
70
60
50
40
30
20
10
0

V_2_5_isotig18139_139 gDNA

Call

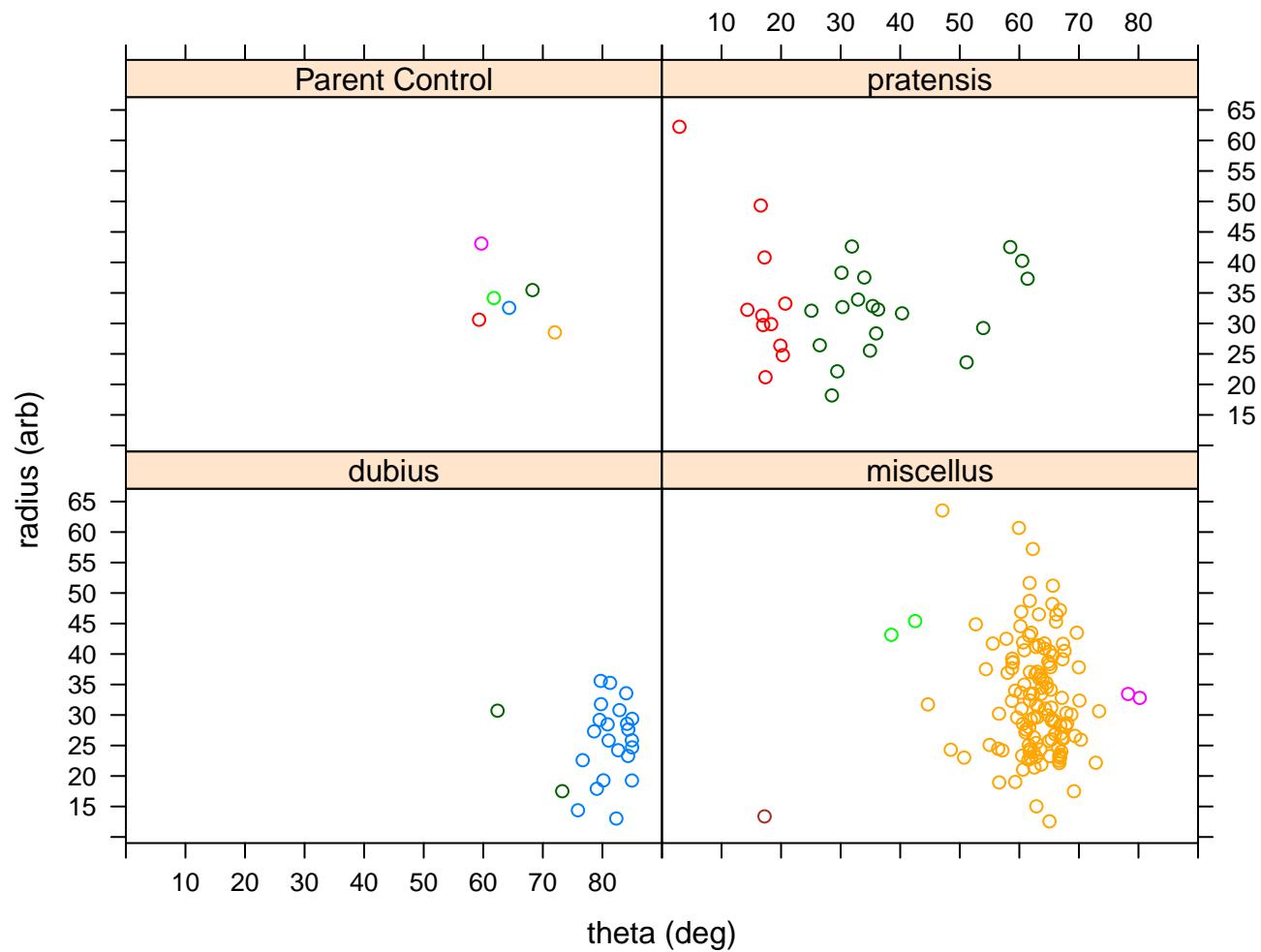
HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		



V_2_5_isotig18139_139 cDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		

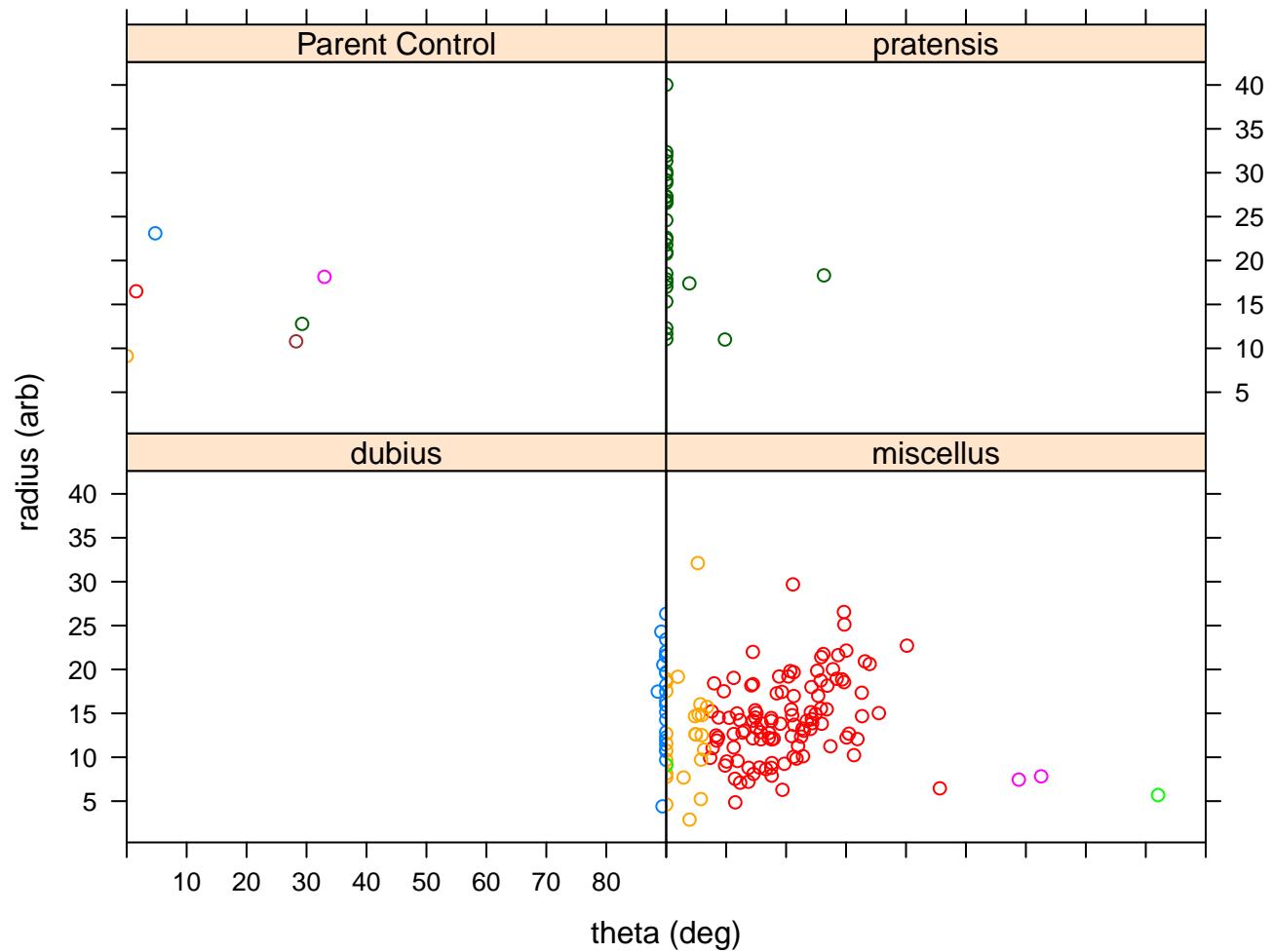


V_2_5_isotig18139_55 gDNA

Call

HH	○	PM3_1_1	○
LHHH	○	PM3_1_2	○
LL	○	PM3_2_1	○
LLHH	○	PM4	○
LLLL	○	PM5	○
No_Aleles	○	PM6	○

10 20 30 40 50 60 70 80



V_2_5_isotig18139_55 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LL	○	PM3_2_1	○
LLHH	○	PM4	○
LLLH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

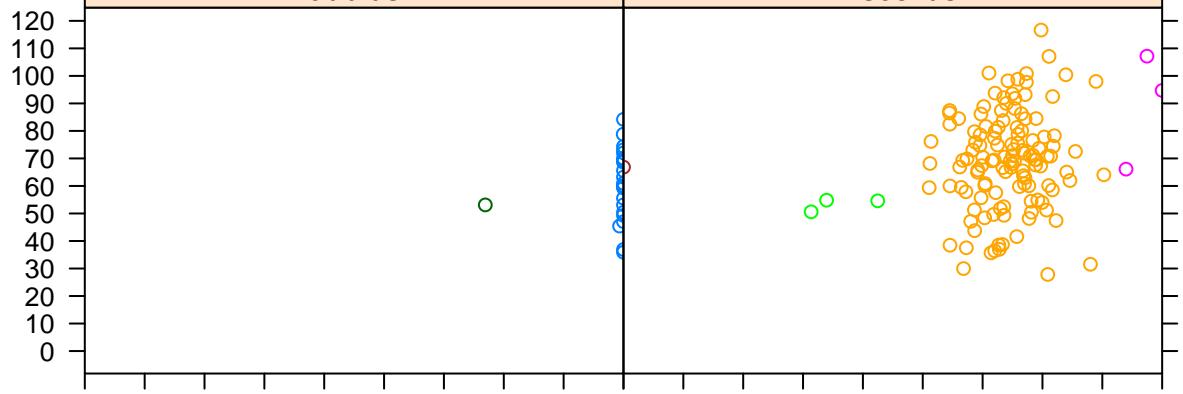
pratensis

120
110
100
90
80
70
60
50
40
30
20
10
0

radius (arb)

dubius

miscellus



theta (deg)

V_2_5_isotig18149_107 gDNA

Call

HH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLL	○		○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

radius (arb)

80
70
60
50
40
30
20
10
0

dubius

mirus

80

70

60

50

40

30

20

10

0

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig18149_107 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLL	○		

10 20 30 40 50 60 70 80

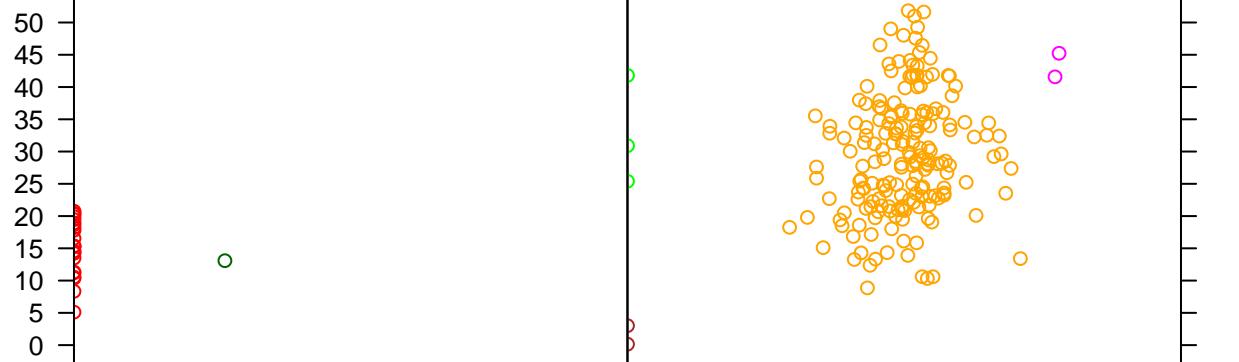
Parent Control

porrifolius

50
45
40
35
30
25
20
15
10
5
0

dubius

mirus



theta (deg)

V_2_5_isotig18200_95 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

120
100
80
60
40
20
0

dubius

mirus

radius (arb)

120
100
80
60
40
20
0

10 20 30 40 50 60 70 80

theta (deg)

10 20 30 40 50 60 70 80

120
100
80
60
40
20
0

V_2_5_isotig18200_95 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

120
110
100
90
80
70
60
50
40
30
20
10
0

dubius

mirus

120
110
100
90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)

radius (arb)

V_2_5_isotig18207_393 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

100
90
80
70
60
50
40
30
20
10
0

dubius

mirus

100
90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

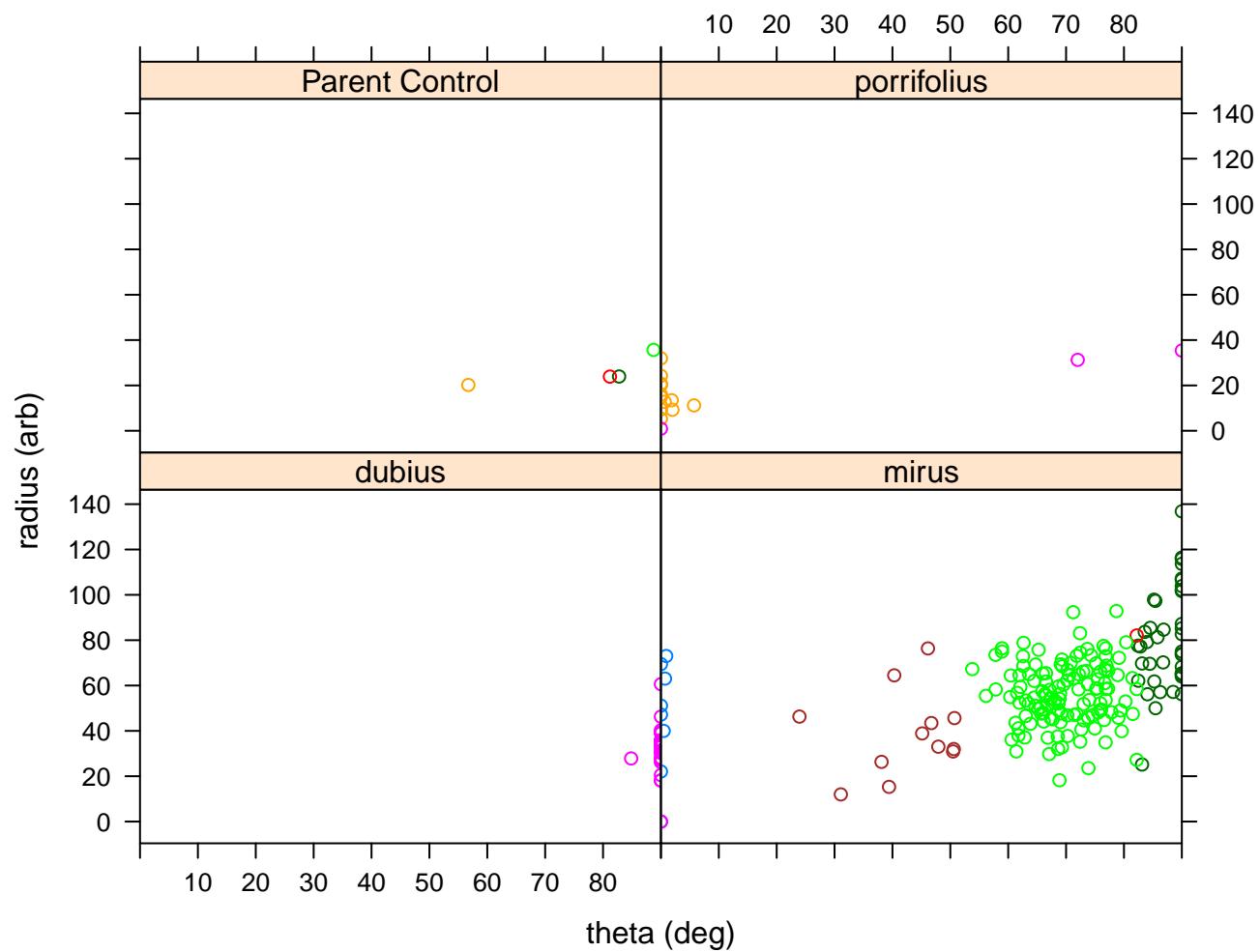
theta (deg)

radius (arb)

V_2_5_isotig18207_393 cDNA

Call

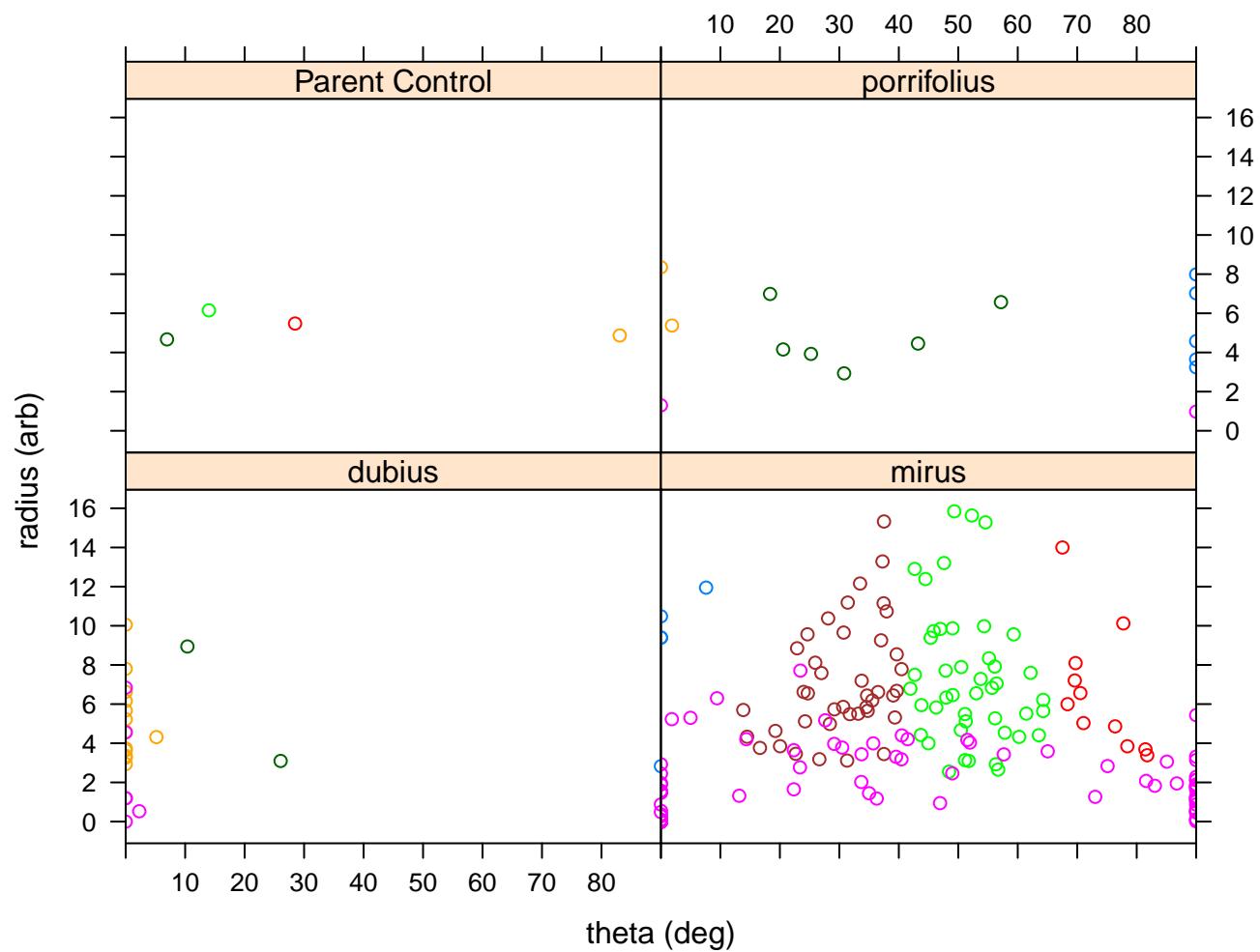
Bad_Spectrum	○	LLLL	○
HH	○	No_Alleles	○
HHHH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig18211_365 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig18260_162 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

110
100
90
80
70
60
50
40
30
20
10
0

dubius

mirus

110
100
90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

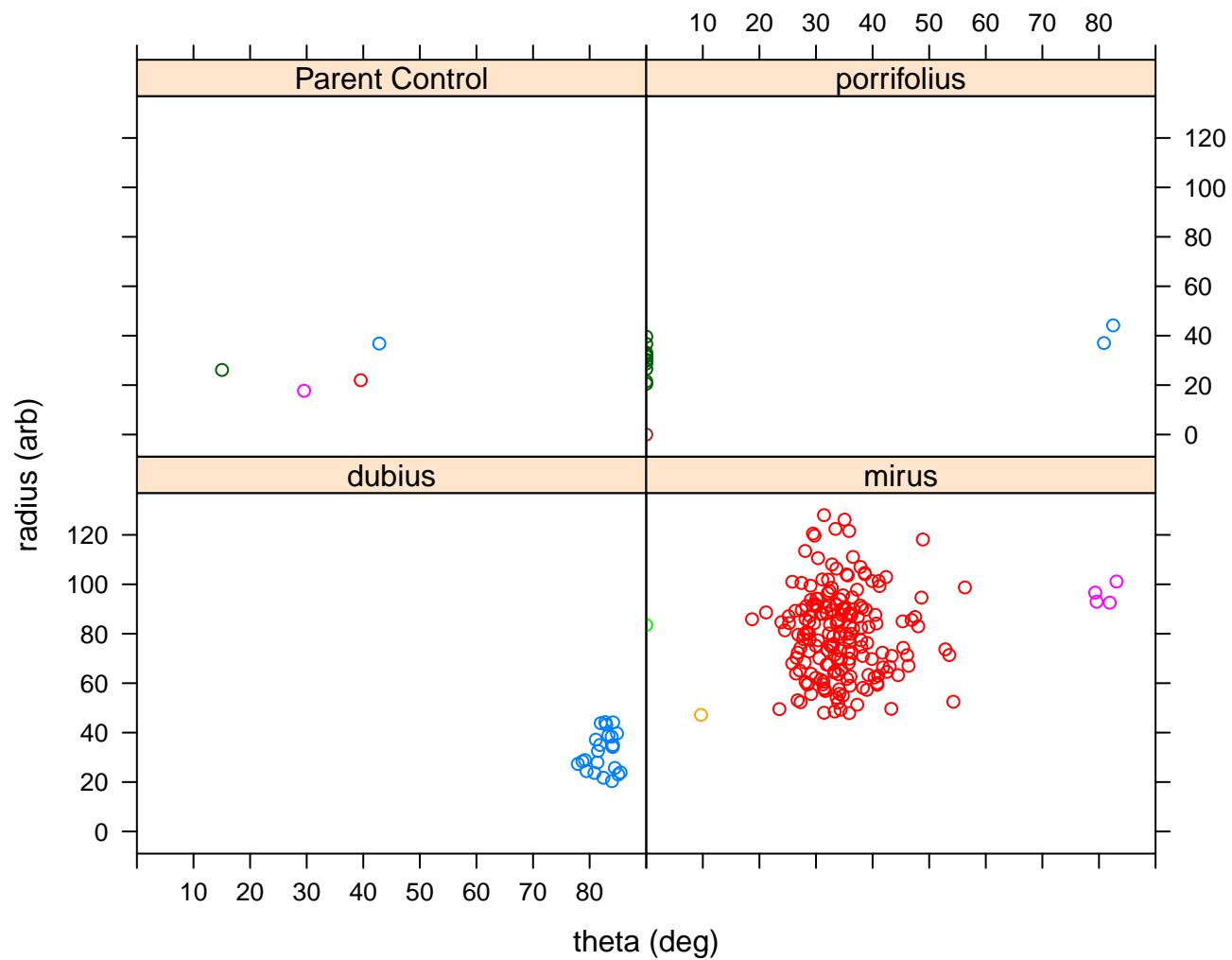
theta (deg)

radius (arb)

V_2_5_isotig18260_162 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○
LLLL	○		



V_2_5_isotig18386_368 gDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

porrifolius

90
80
70
60
50
40
30
20
10

dubius

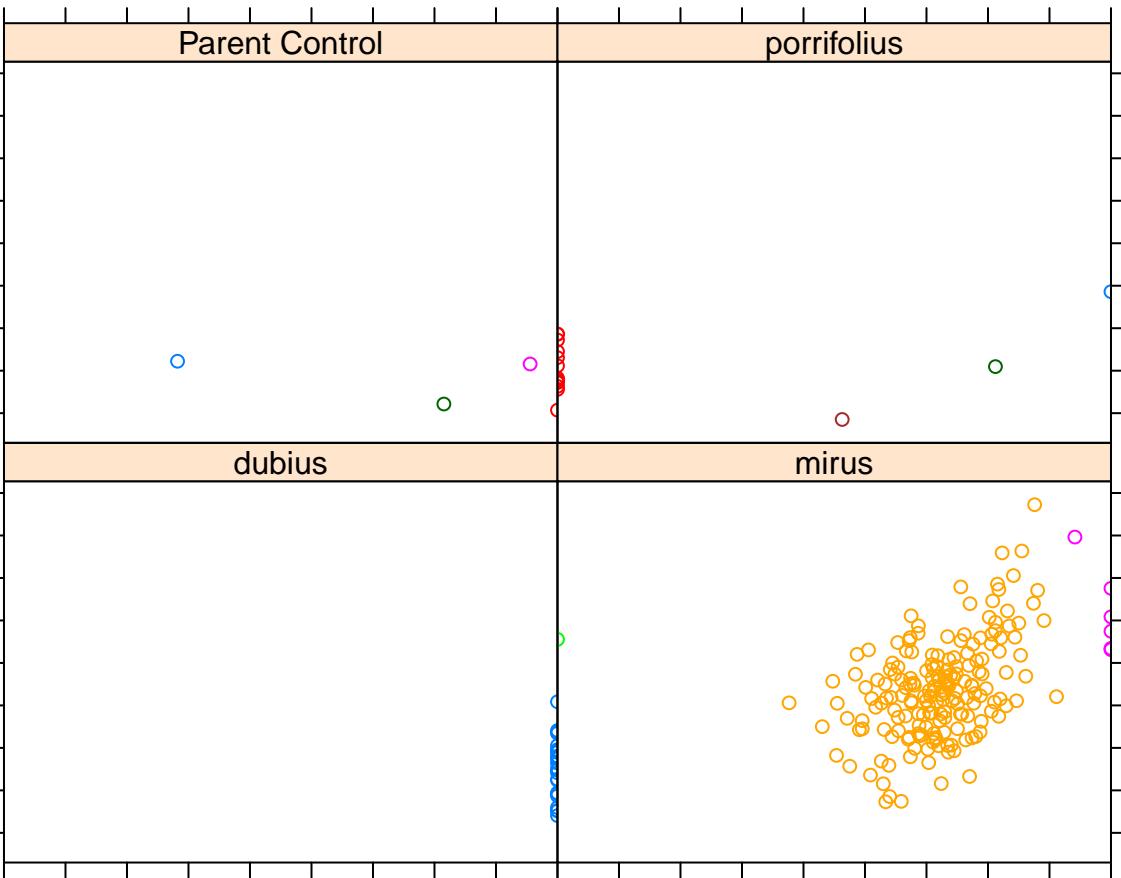
mirus

radius (arb)

90
80
70
60
50
40
30
20
10

10 20 30 40 50 60 70 80

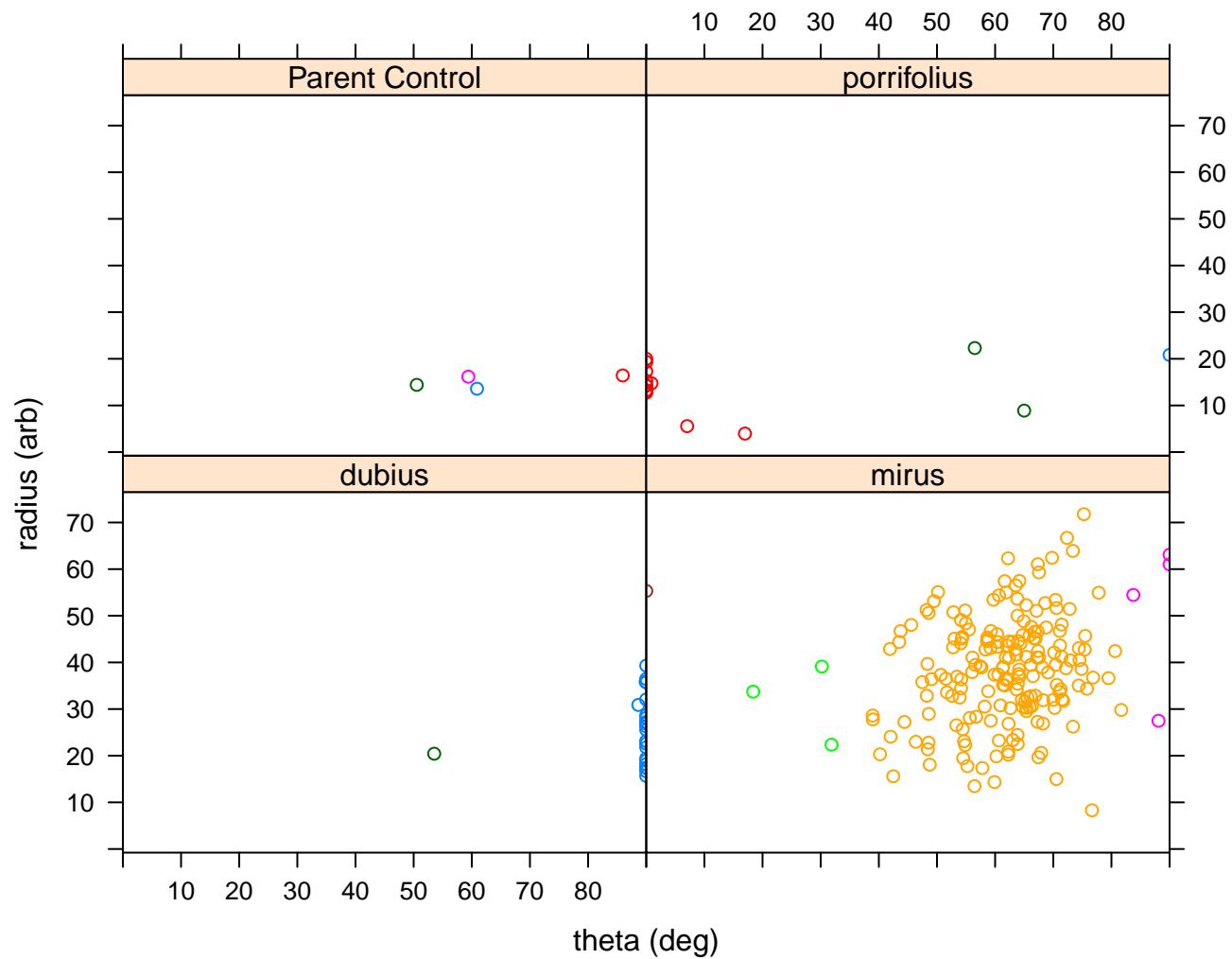
theta (deg)



V_2_5_isotig18386_368 cDNA

Call

HH	○	LLLL	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig18387_232 gDNA

Call

Bad_Spectrum	○	LLLL	○
HH	○	No_Alleles	○
HHHH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

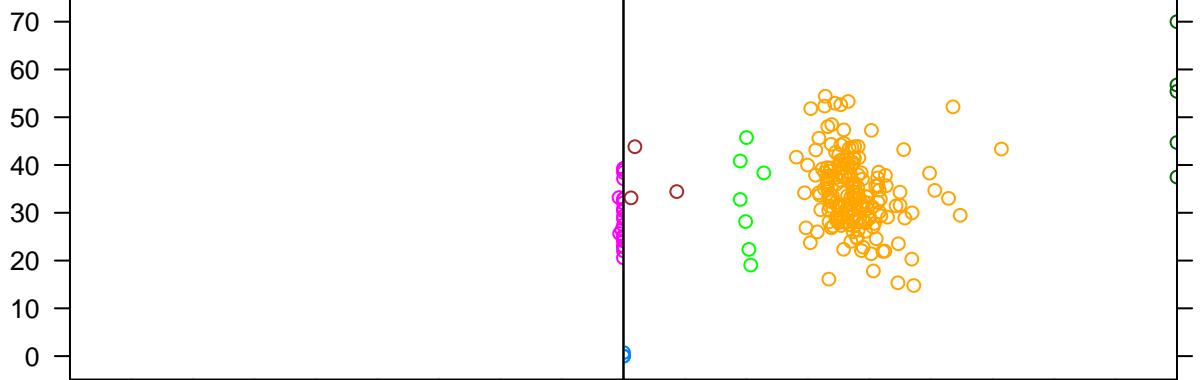
Parent Control

porrifolius

70
60
50
40
30
20
10
0

dubius

mirus



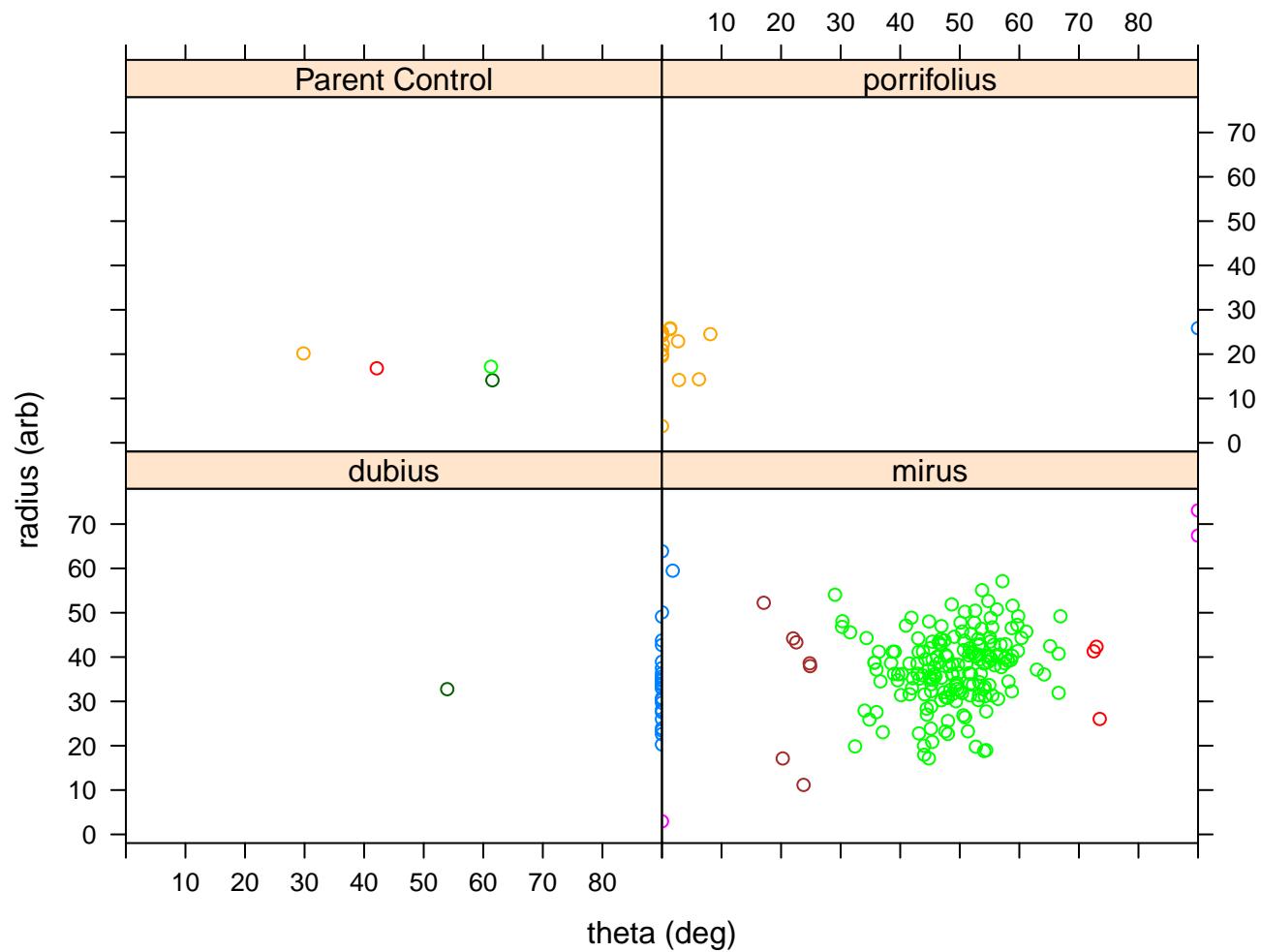
10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig18387_232 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig18474_367 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

90
80
70
60
50
40
30
20
10

dubius

miscellus

90
80
70
60
50
40
30
20
10

radius (arb)

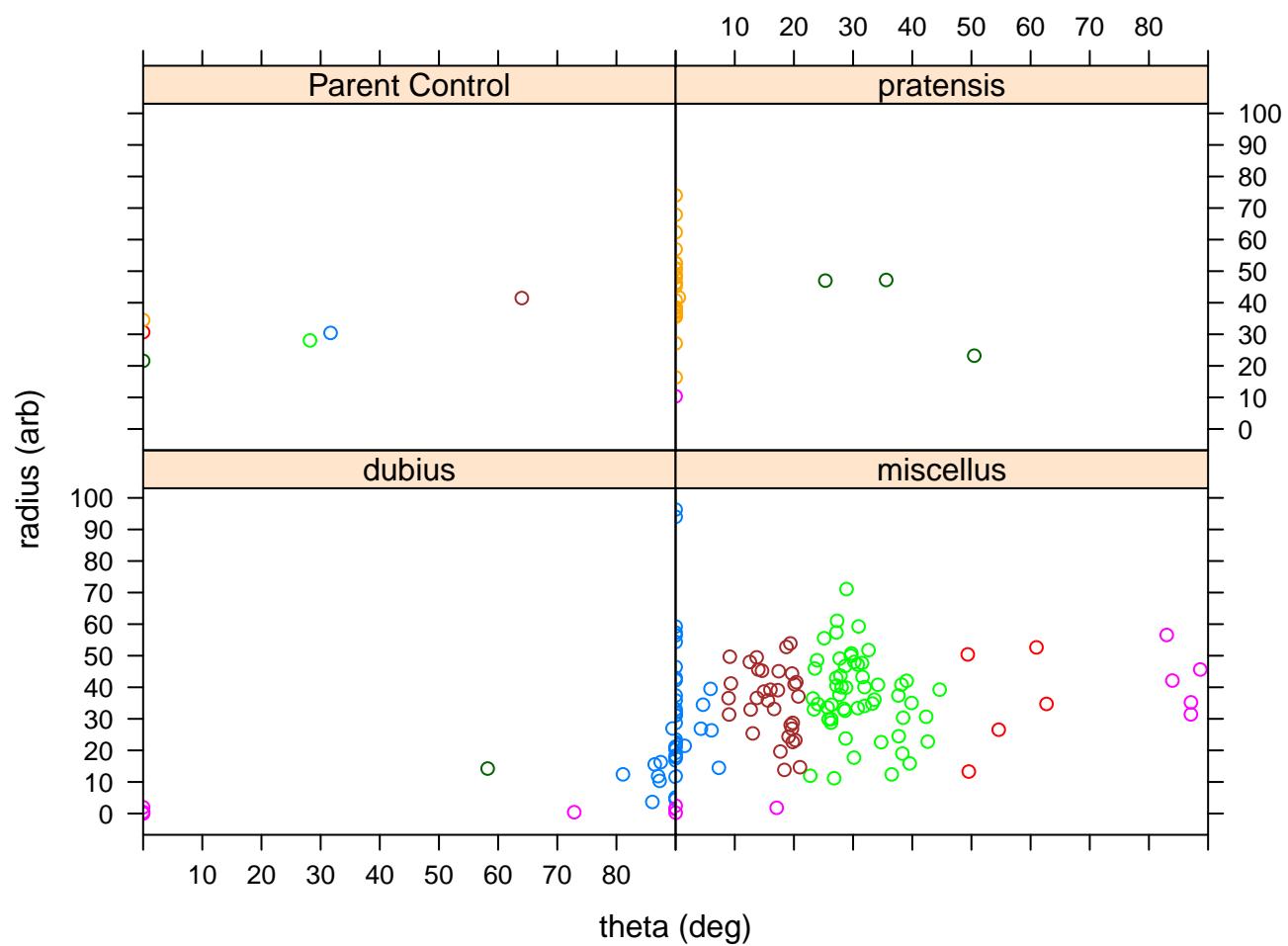
10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig18474_367 cDNA

Call

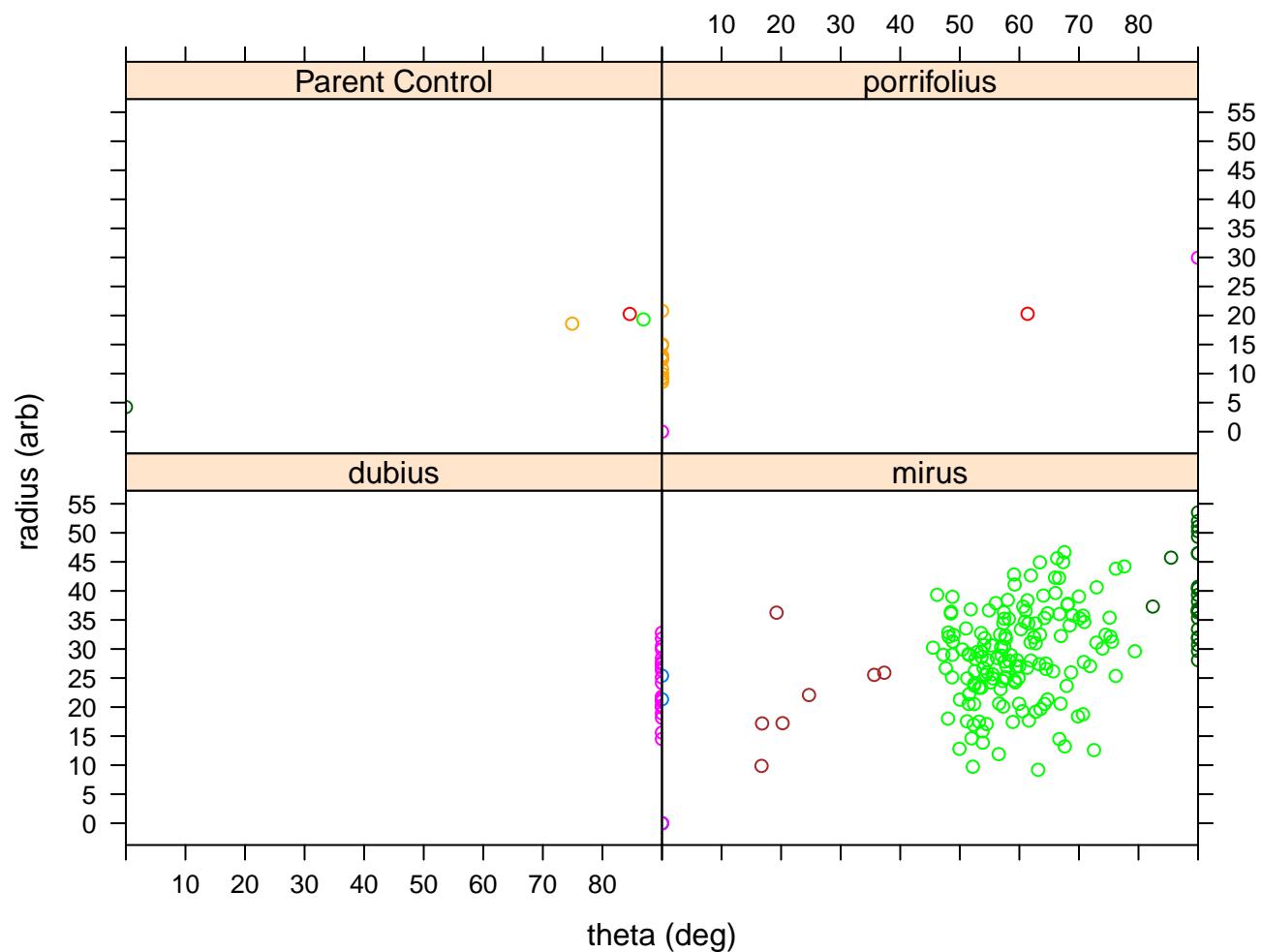
HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		



V_2_5_isotig18529_110 gDNA

Call

Bad_Spectrum	○	LLLL	○
HH	○	No_Alleles	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig18529_110 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

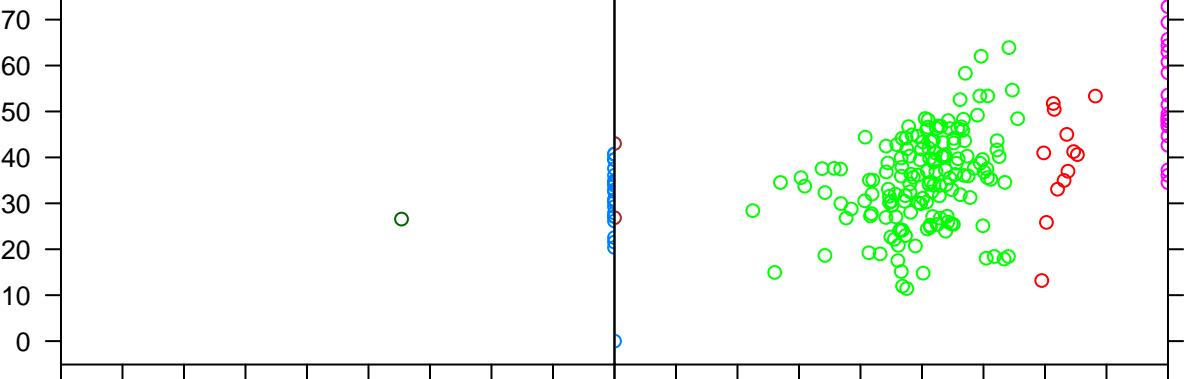
porrifolius

70
60
50
40
30
20
10
0

dubius

mirus

radius (arb)

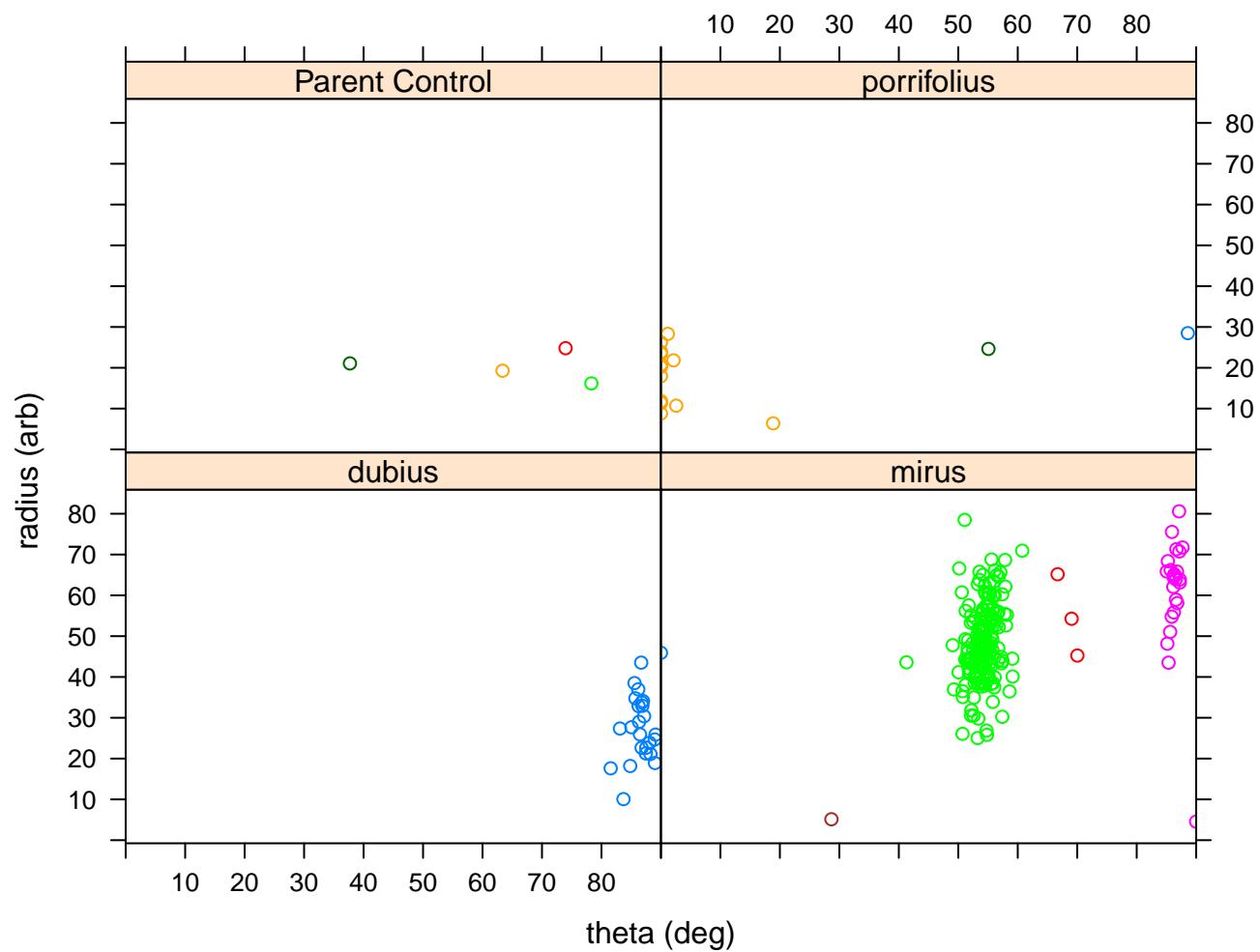


theta (deg)

V_2_5_isotig18534_228 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig18534_228 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

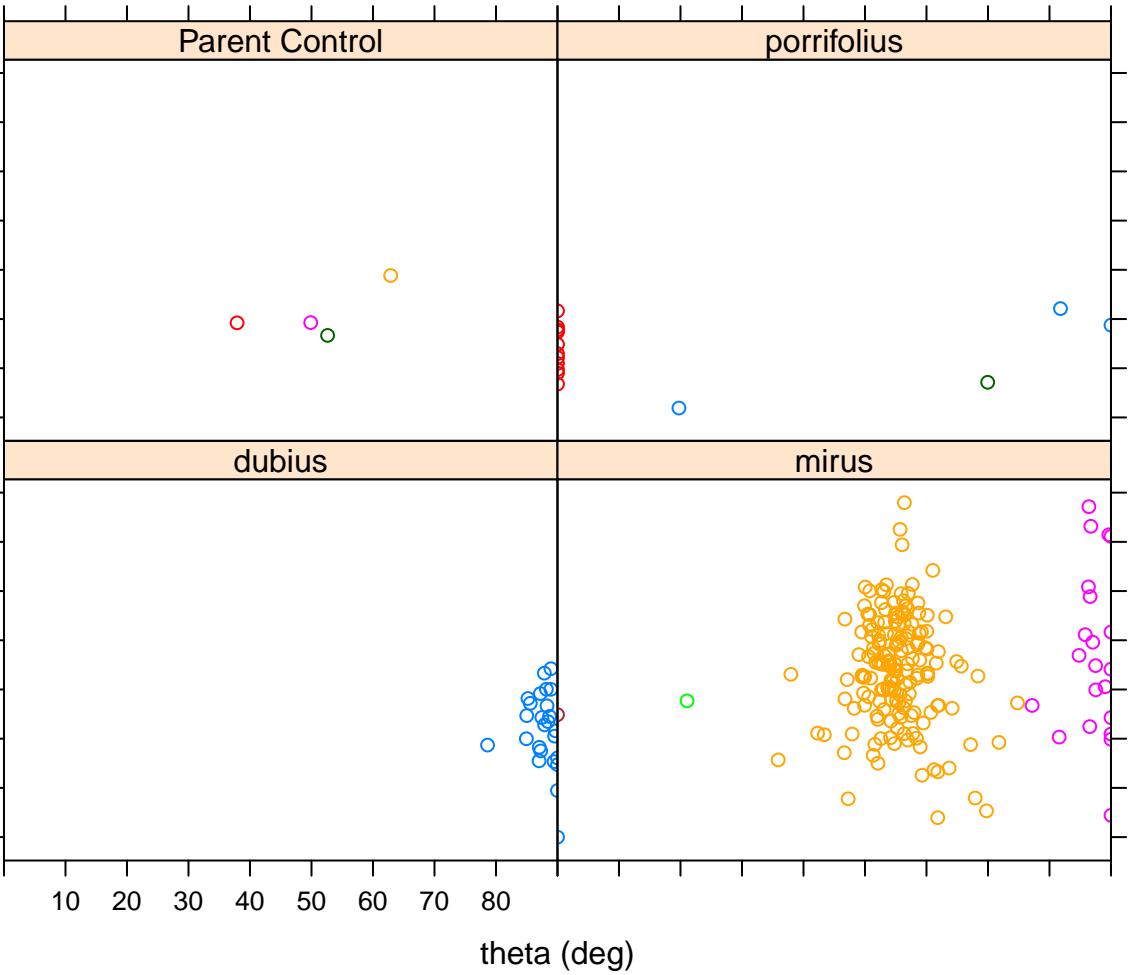
Parent Control

porrifolius

radius (arb)

dubius

mirus



theta (deg)

V_2_5_isotig18549_284 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

radius (arb)

60
50
40
30
20
10
0

dubius

miscellus

60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig18583_366 gDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LL	○	PM2_1_1	○
LLLH	○	PM2_1_2	○
LLLL	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

radius (arb)

90
80
70
60
50
40
30
20
10
0

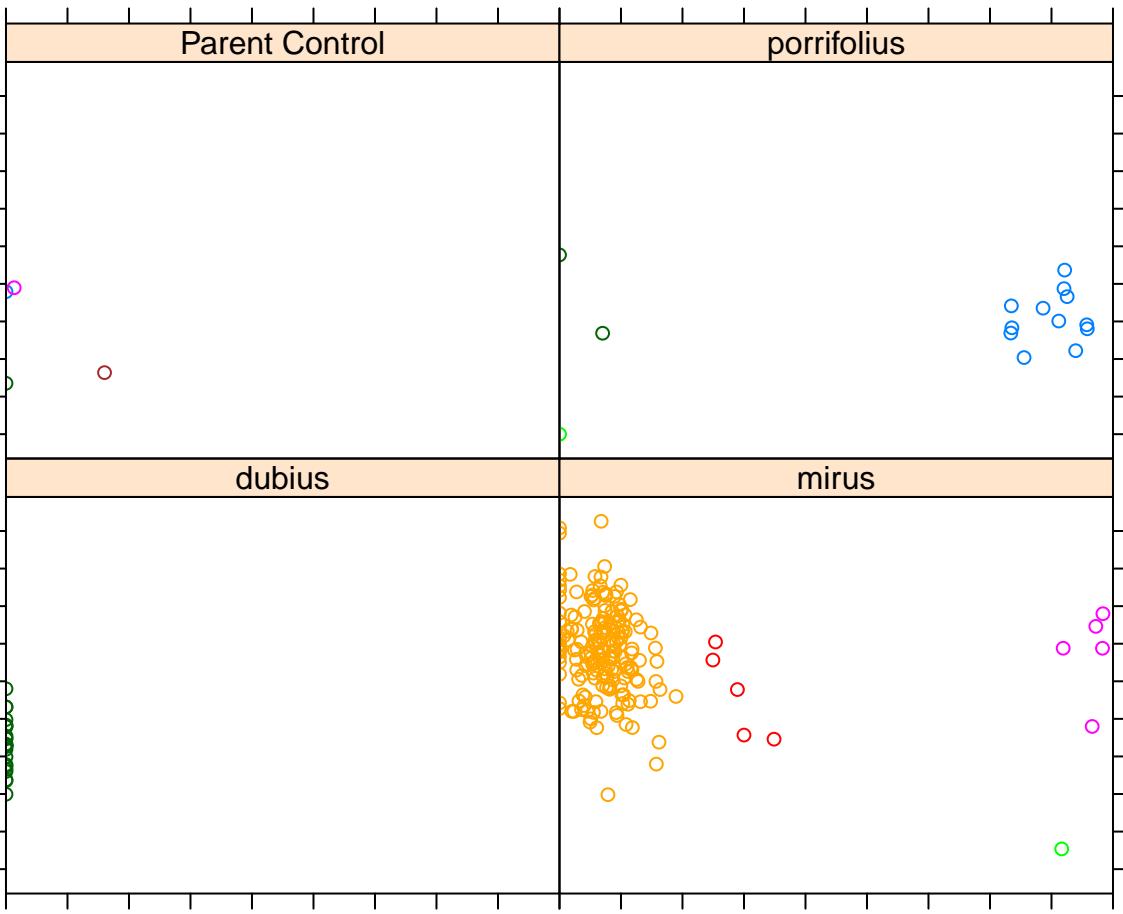
dubius

mirus

90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig18583_366 cDNA

Call

HH	○	PM1	○
HHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLLL	○	PM2_2_1	○
No_Alleles			○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

110
100
90
80
70
60
50
40
30
20
10

radius (arb)

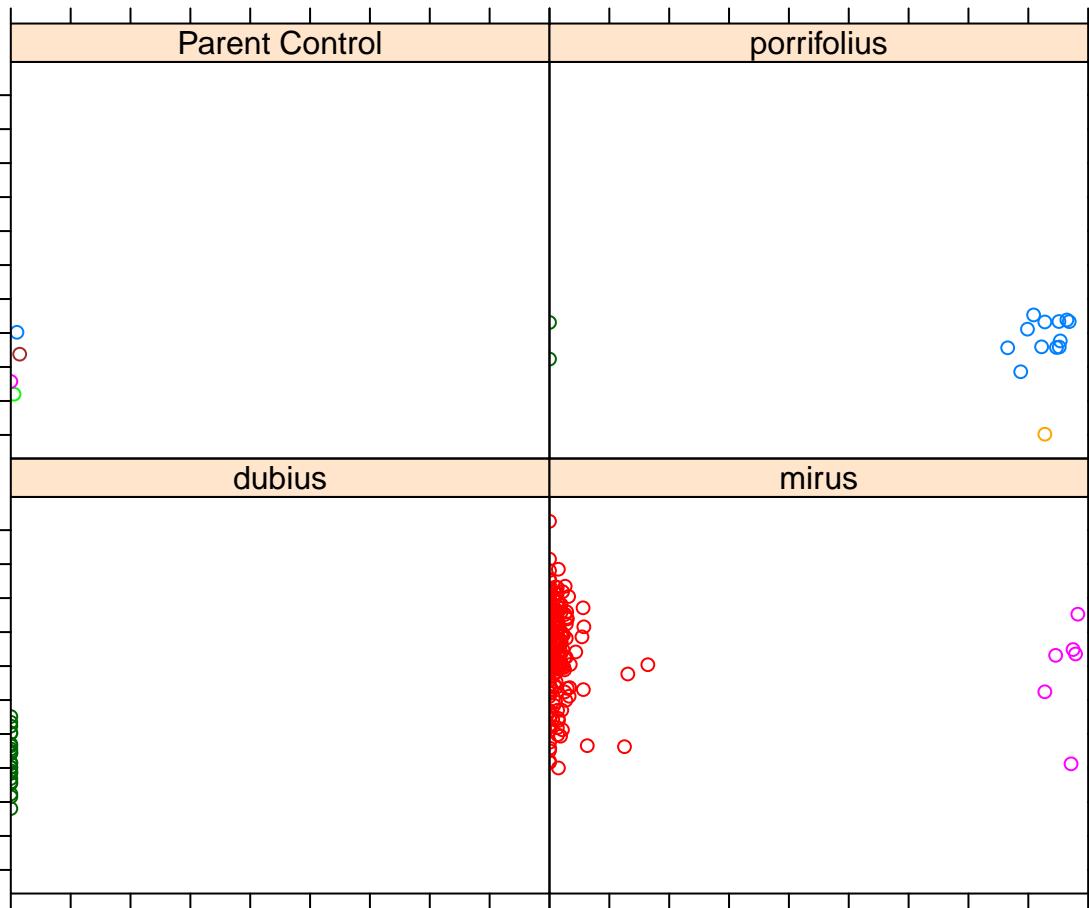
dubius

mirus

110
100
90
80
70
60
50
40
30
20
10

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig18583_92 gDNA

Call

HH	○	PM2_1_2	○
HHHH	○	PM2_2_1	○
LL	○	PM3_1_1	○
LLHH	○	PM3_1_2	○
LLLL	○	PM3_2_1	○
No_Alleles	○	PM4	○
PM1	○	PM5	○
PM2_1_1	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

80
70
60
50
40
30
20
10
0

dubius

miscellus

radius (arb)

80

80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

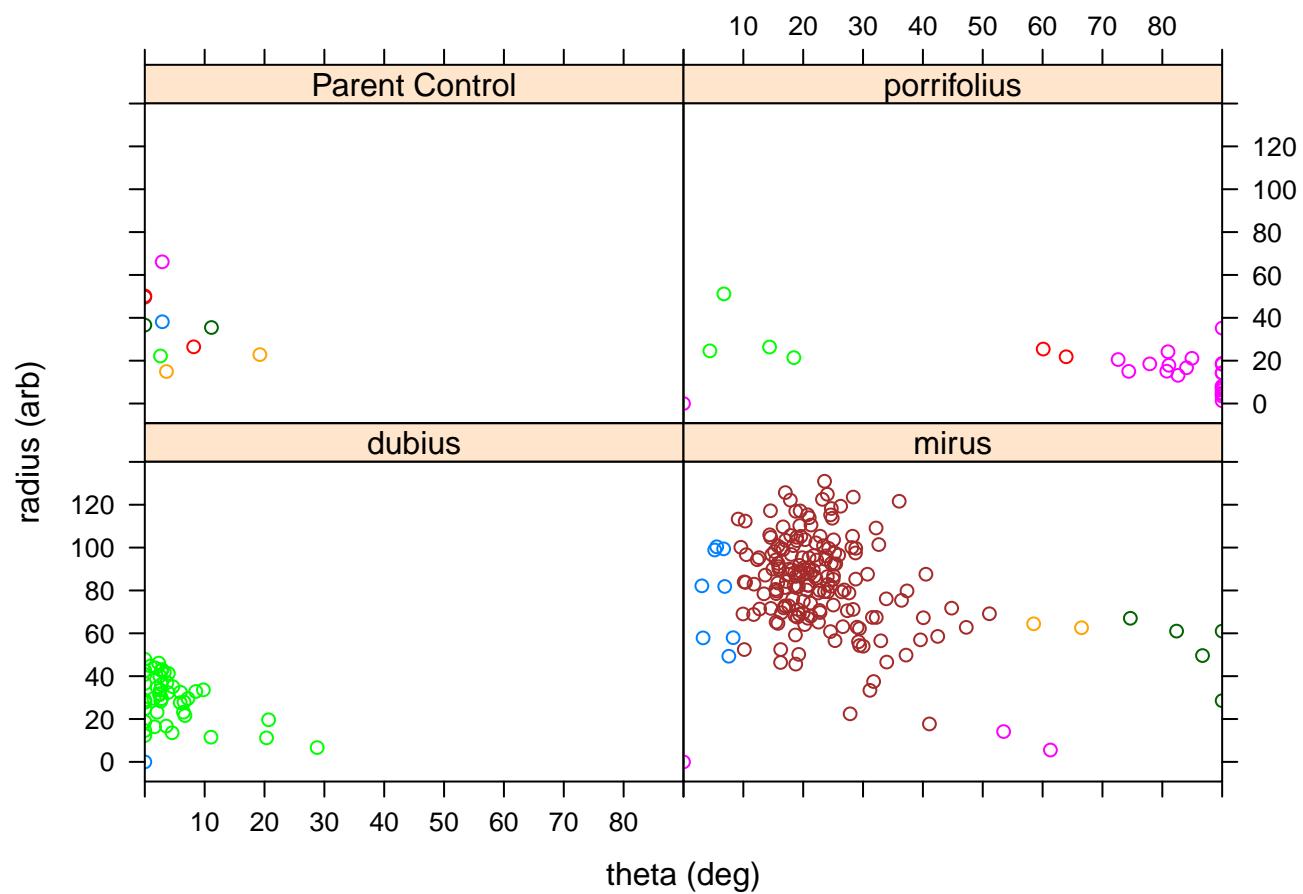
theta (deg)

80
70
60
50
40
30
20
10
0

V_2_5_isotig18583_92 cDNA

Call

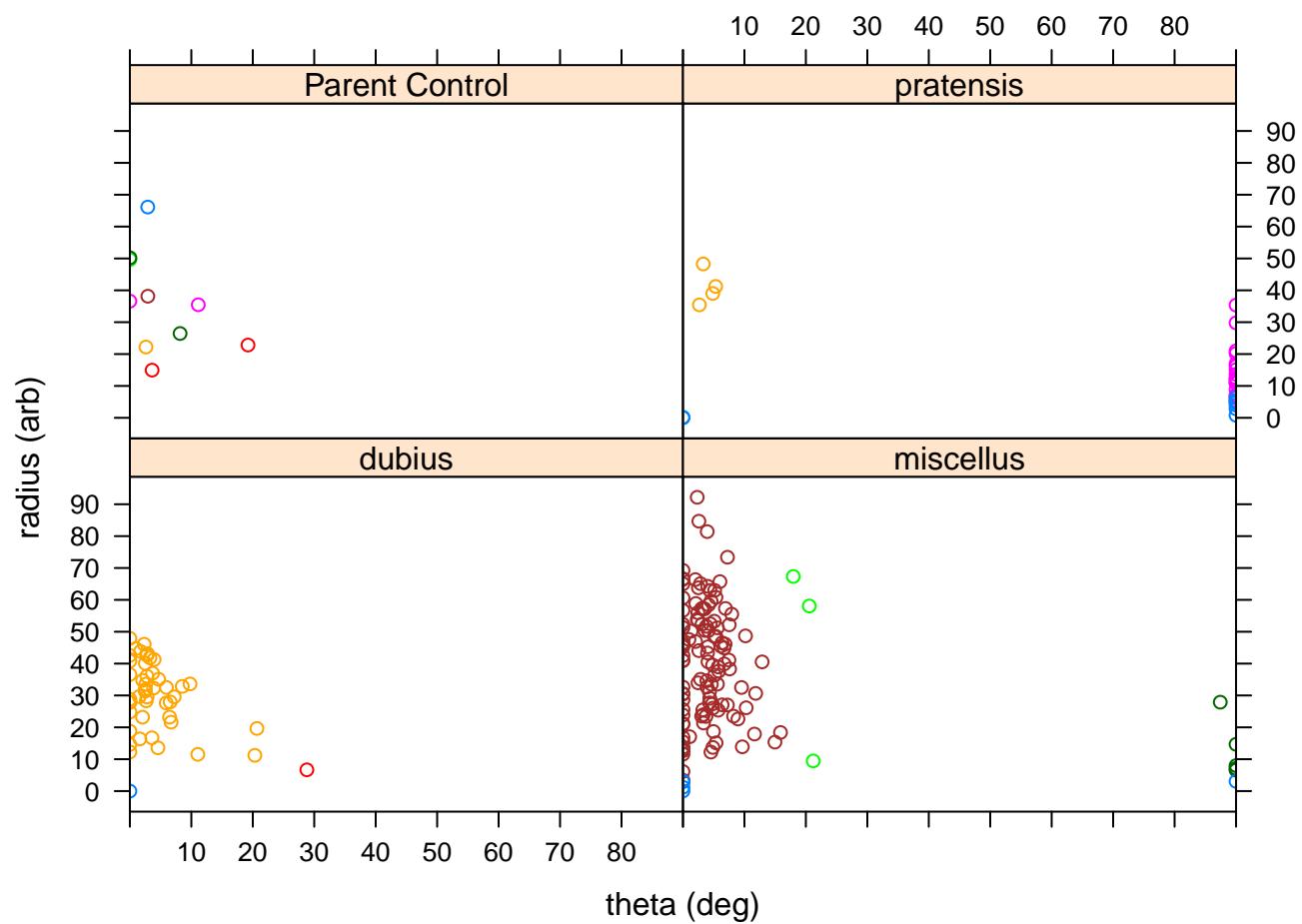
Bad_Spectrum	○	PM2_1_1	○
HH	○	PM2_1_2	○
HHHH	○	PM2_2_1	○
LH	○	PM3_1_1	○
LHHH	○	PM3_1_2	○
LL	○	PM3_2_1	○
LLHH	○	PM4	○
LLLL	○	PM5	○
No_Alleles	○	PM6	○
PM1	○		



V_2_5_isotig18583_92 cDNA

Call

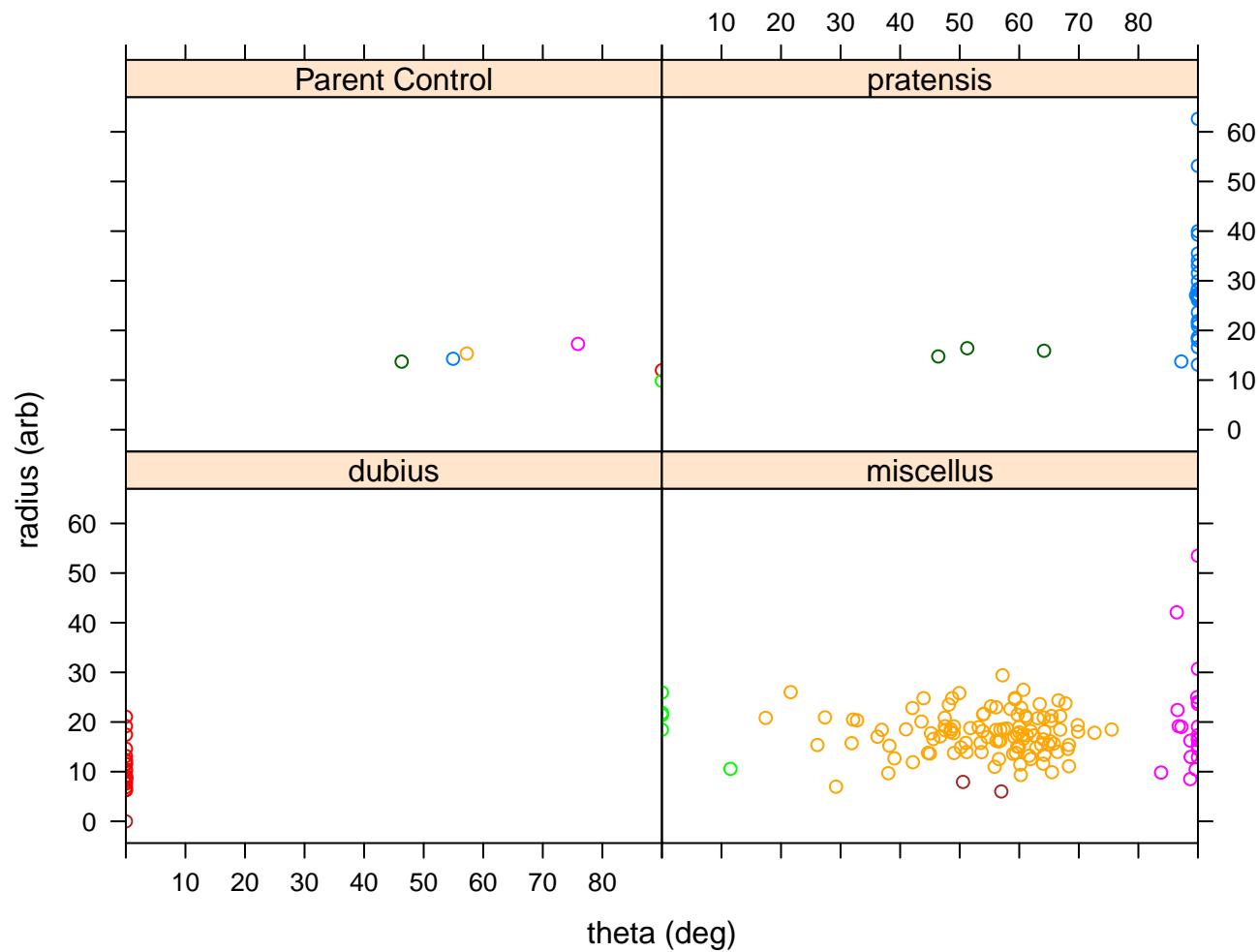
Bad_Spectrum	○	PM2_1_1	○
HH	○	PM2_1_2	○
HHHH	○	PM2_2_1	○
LH	○	PM3_1_1	○
LL	○	PM3_1_2	○
LLLH	○	PM3_2_1	○
LLLL	○	PM4	○
No_Alleles	○	PM5	○
PM1	○	PM6	○



V_2_5_isotig18586_217 gDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○
No_Alleles	○		



V_2_5_isotig18586_217 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

30
25
20
15
10
5
0

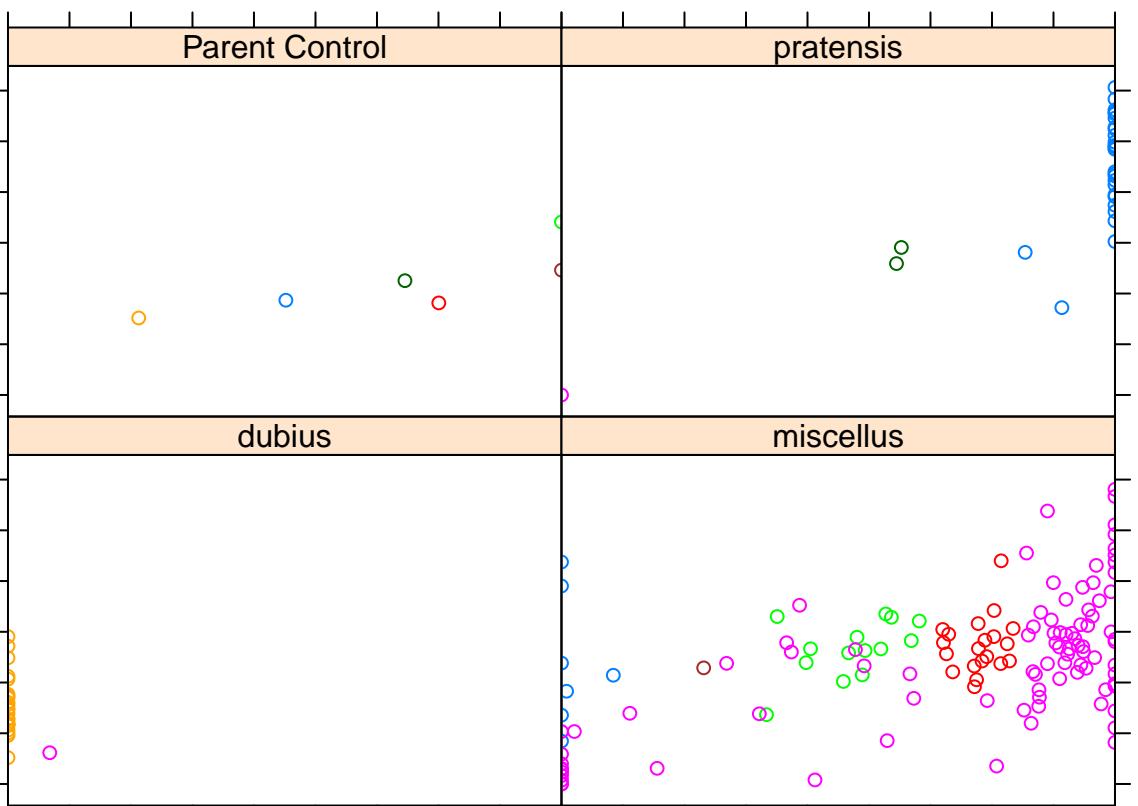
dubius

miscellus

radius (arb)

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig18609_269 gDNA

Call

HH	○	LLLH	○
HHHH	○	LLLL	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

110
100
90
80
70
60
50
40
30
20
10
0

○

○

○

○

○

○

○

○

○

○

dubius

mirus

110
100
90
80
70
60
50
40
30
20
10
0

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

radius (arb)

theta (deg)

V_2_5_isotig18609_269 cDNA

Call

HH	○	LLLL	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

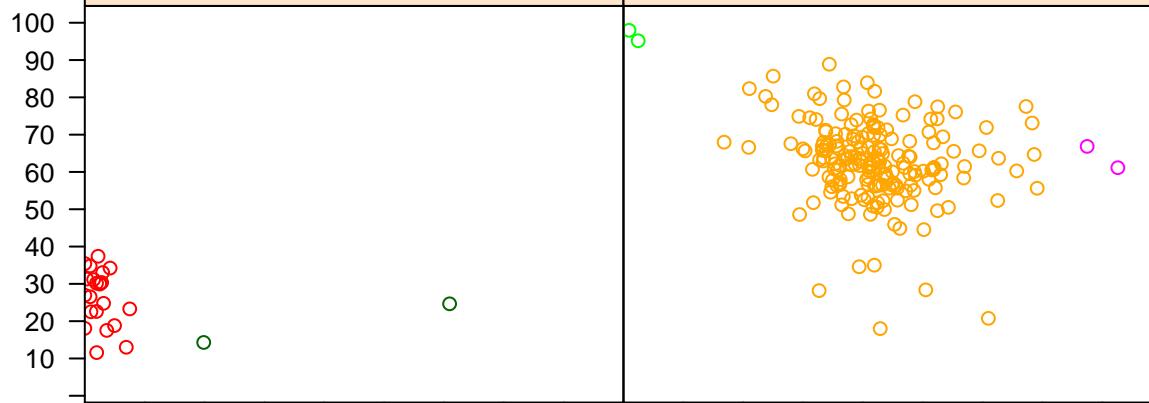
porrifolius

100
90
80
70
60
50
40
30
20
10

radius (arb)

dubius

mirus

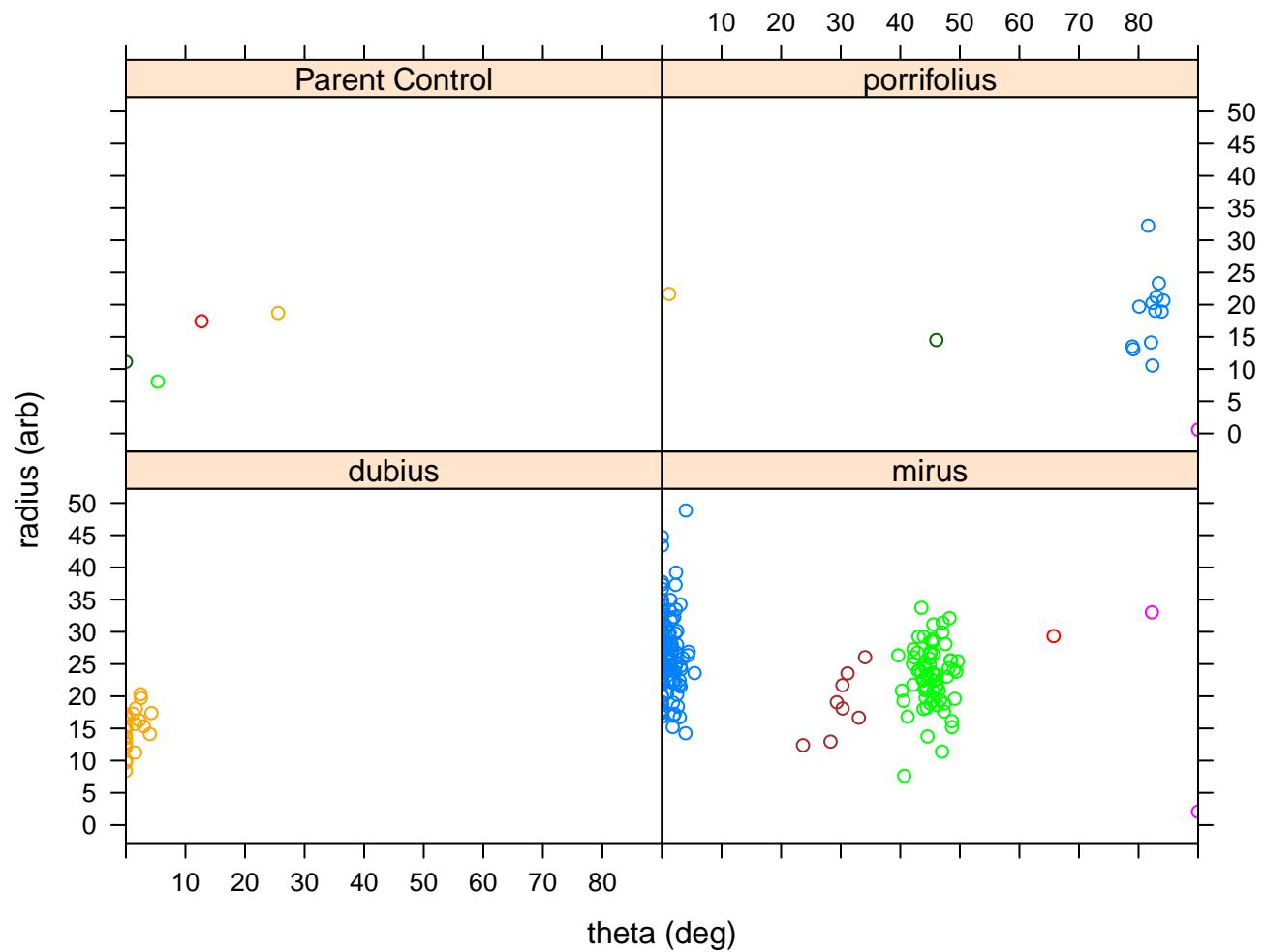


theta (deg)

V_2_5_isotig18610_100 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig18610_100 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

30
25
20
15
10
5
0

dubius

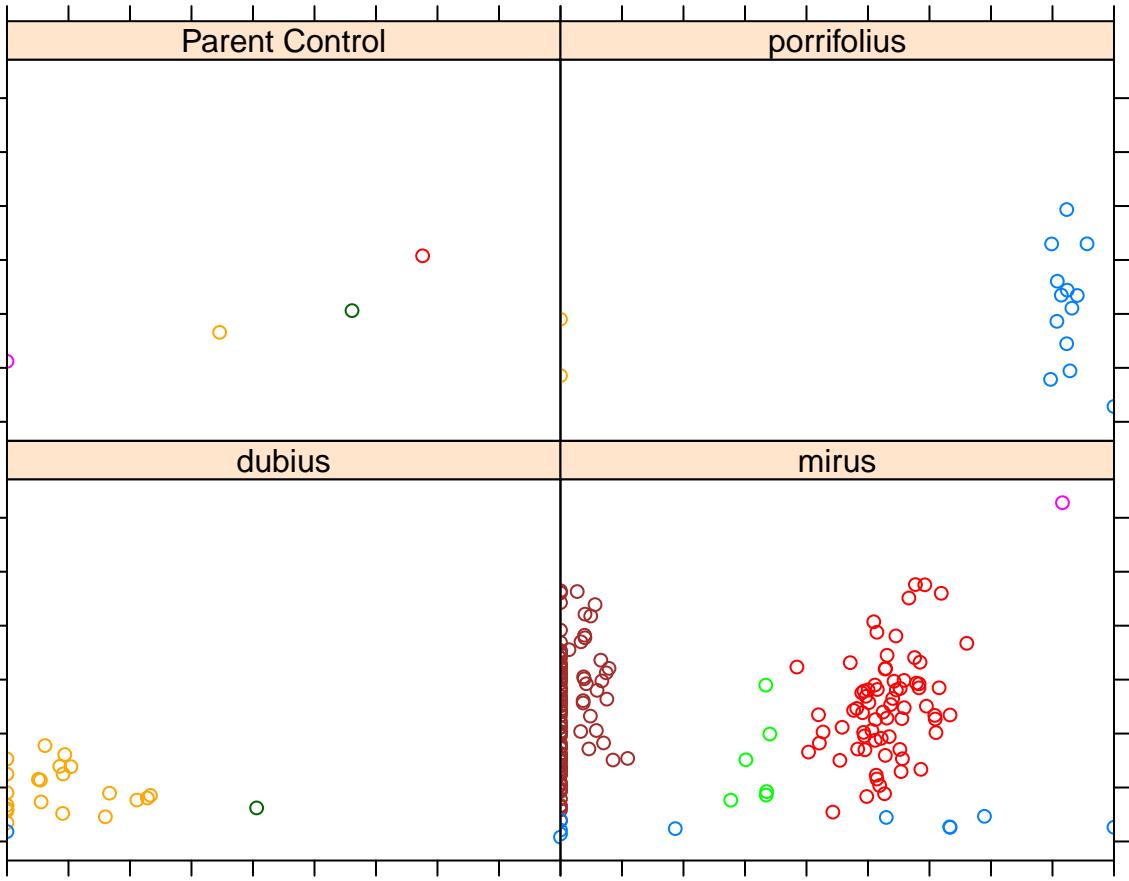
mirus

radius (arb)

30
25
20
15
10
5
0

10 20 30 40 50 60 70 80

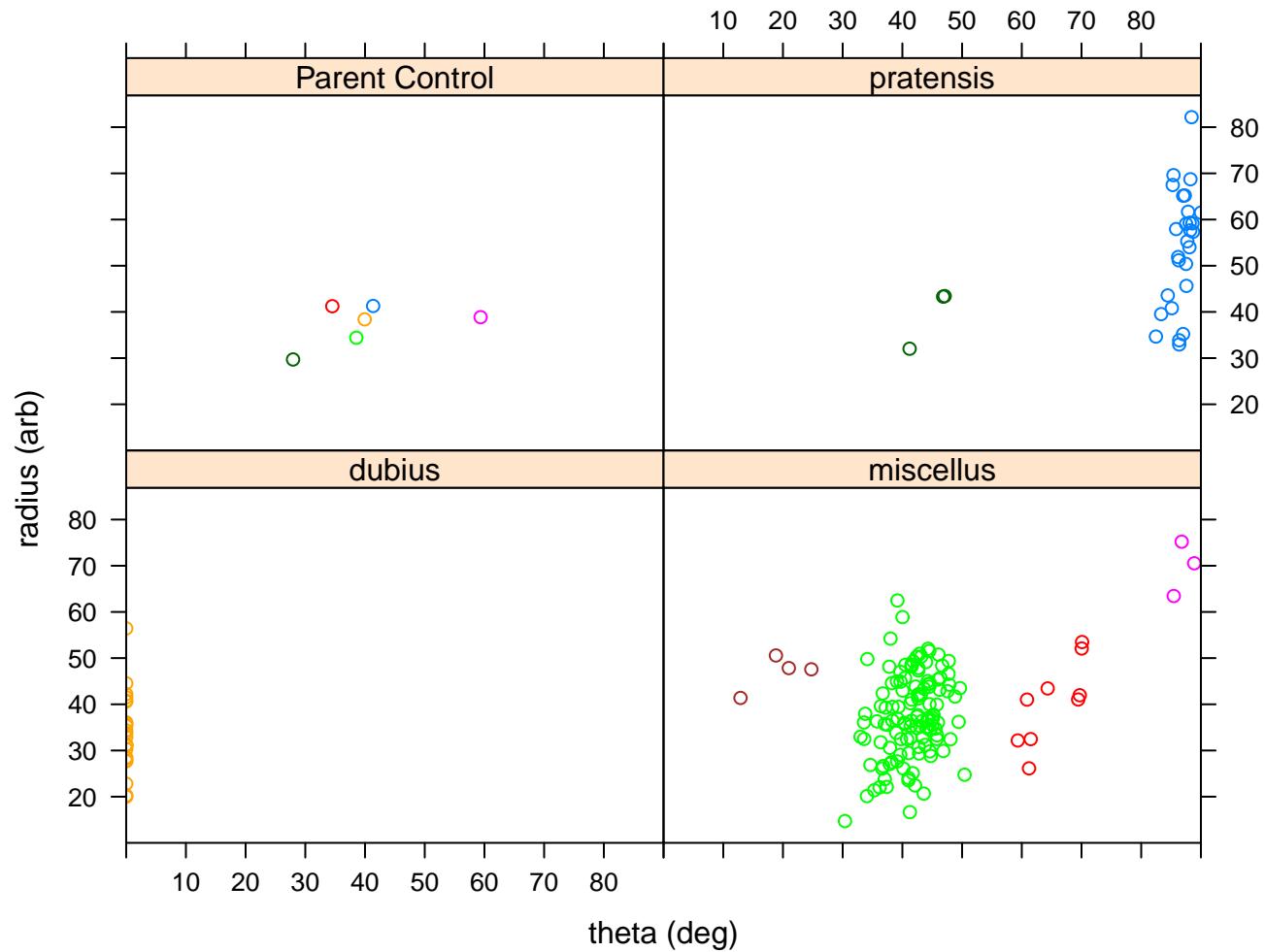
theta (deg)



V_2_5_isotig18650_163 gDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LHHH	○	PM4	○
LL	○	PM5	○
LLHH	○	PM6	○
LLLH	○		



V_2_5_isotig18650_163 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

55
50
45
40
35
30
25
20
15
10
5
0

radius (arb)

dubius

miscellus

55
50
45
40
35
30
25
20
15
10
5
0

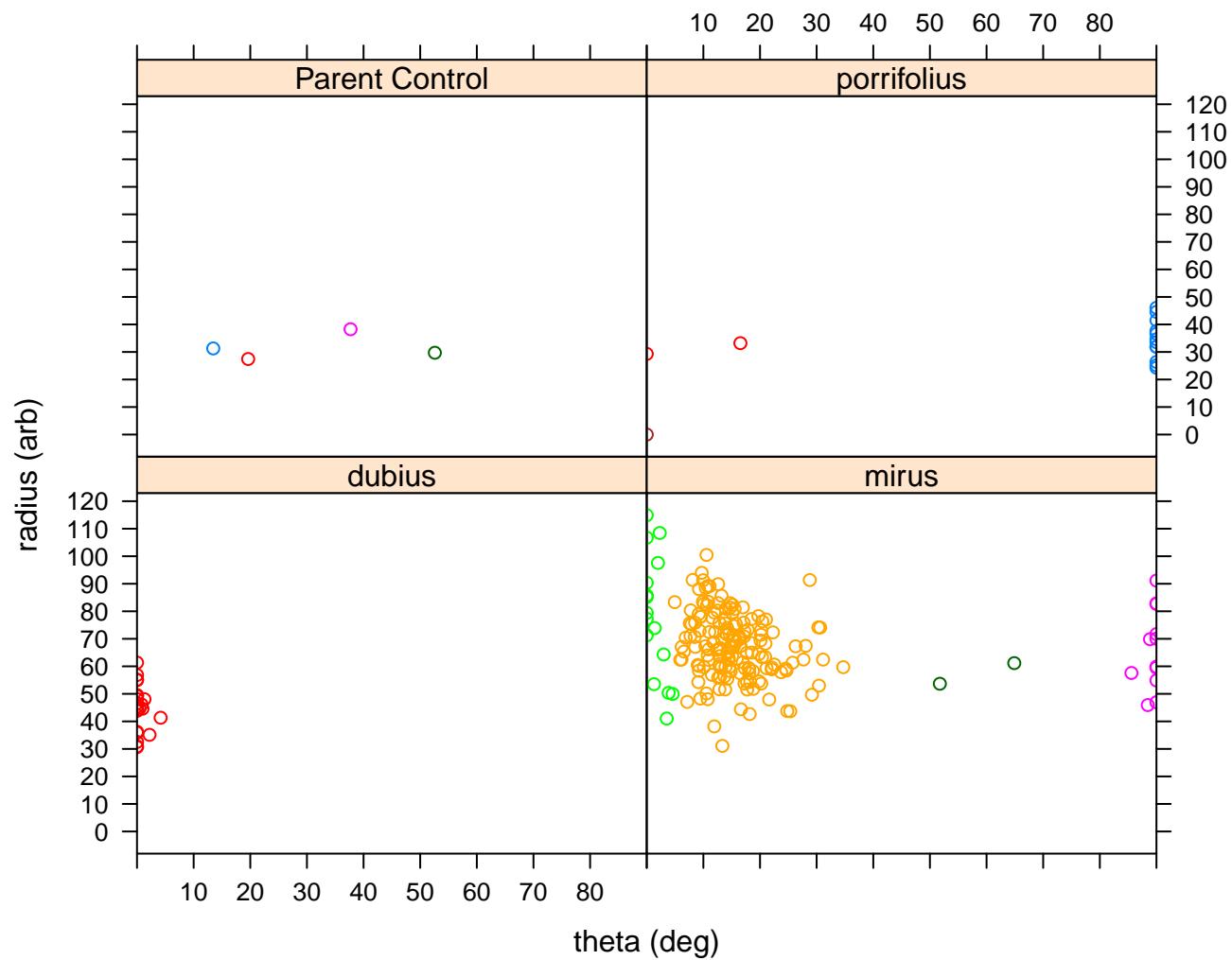
10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig18726_139 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLL	○		○



V_2_5_isotig18726_316 gDNA

Call

Bad_Spectrum	LLLH	○
HH	LLLL	○
HHHH	No_Aleles	○
LH	PM1	○
LHHH	PM2_1_1	○
LL	PM2_1_2	○
LLHH	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

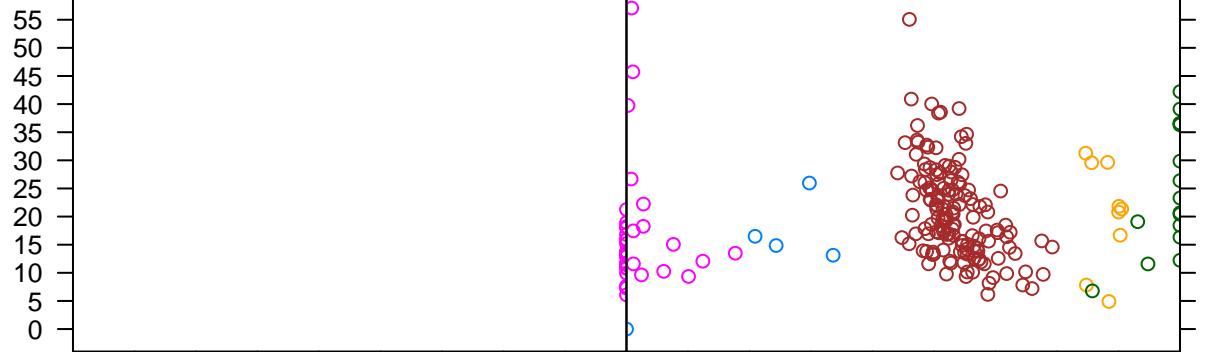
porrifolius

55
50
45
40
35
30
25
20
15
10
5
0

radius (arb)

dubius

mirus



theta (deg)

V_2_5_isotig18726_316 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

55
50
45
40
35
30
25
20
15
10
5

dubius

mirus

radius (arb)

55
50
45
40
35
30
25
20
15
10
5

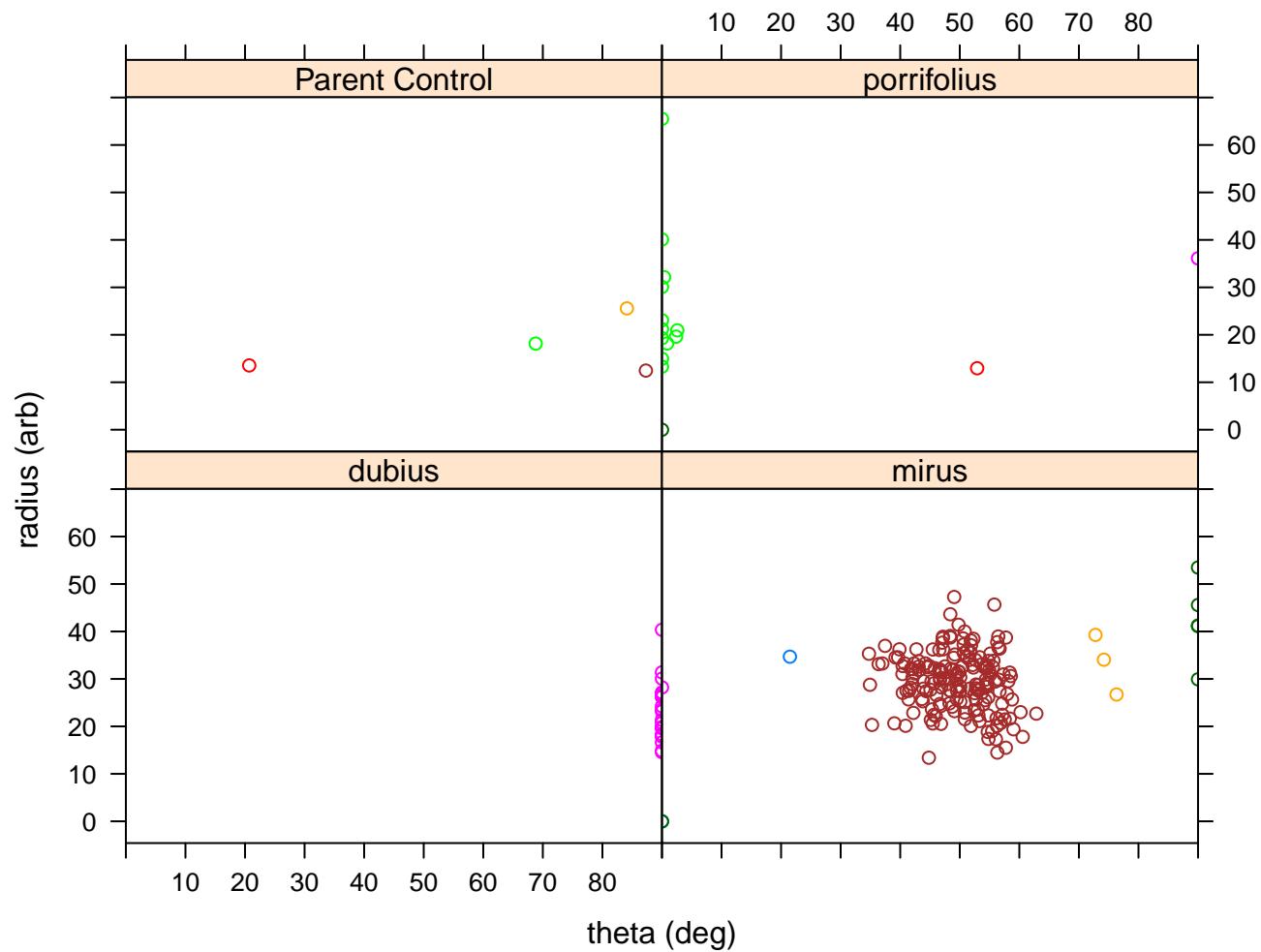
10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig18741_379 gDNA

Call

Bad_Spectrum	○	LLLH	○
HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○



V_2_5_isotig18741_379 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

70
60
50
40
30
20
10
0

dubius

mirus

radius (arb)

70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig18756_57 gDNA

Call

Bad_Spectrum
HH
HHHH
LH
LHHH
LL
LLHH
LLLH

LLLL
PM3_1_1
PM3_1_2
PM3_2_1
PM4
PM5
PM6

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

V_2_5_isotig18756_57 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LL	○	PM3_2_1	○
LLHH	○	PM4	○
LLLH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

110
100
90
80
70
60
50
40
30
20
10
0

dubius

miscellus

radius (arb)

110
100
90
80
70
60
50
40
30
20
10
0

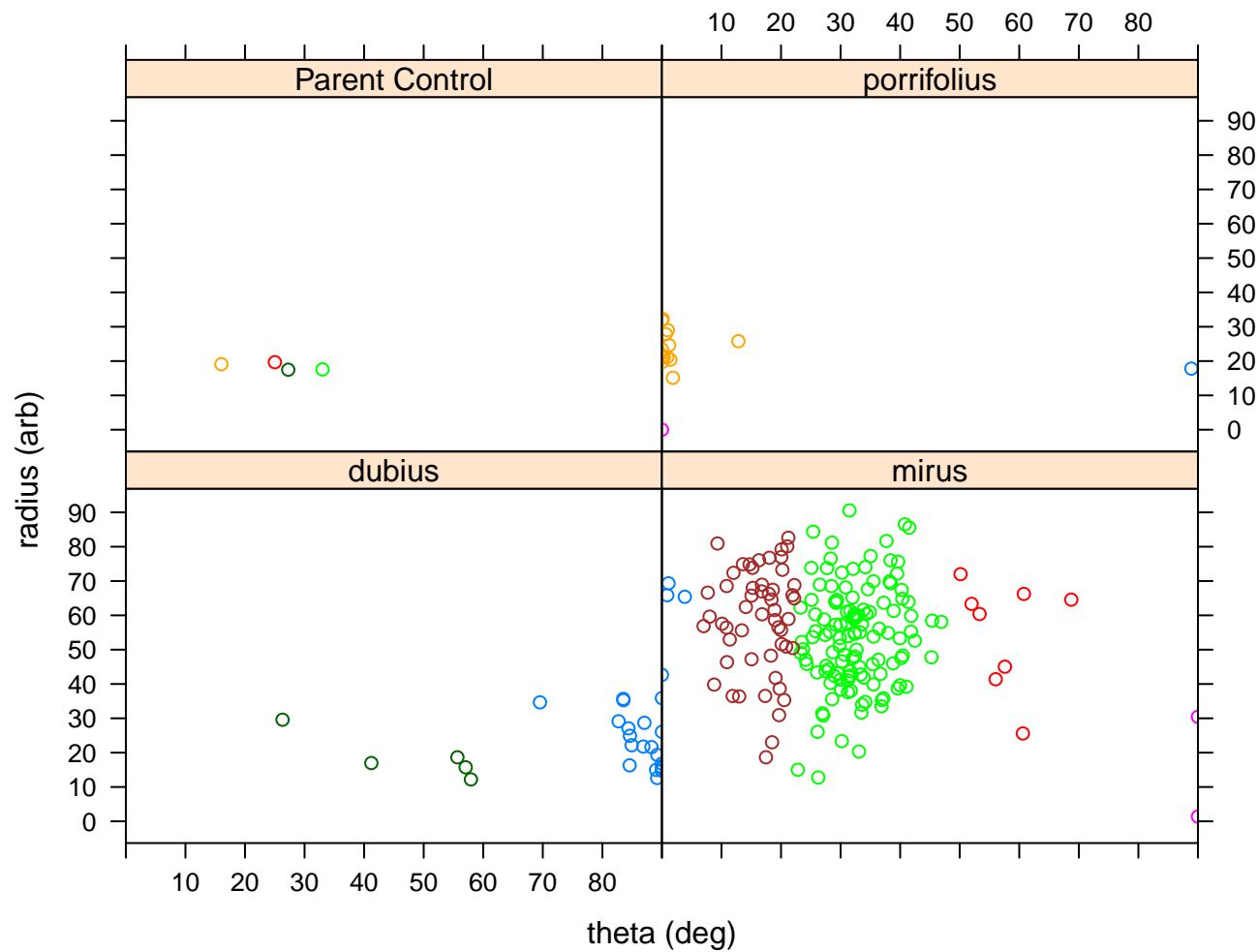
10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig18802_121 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		

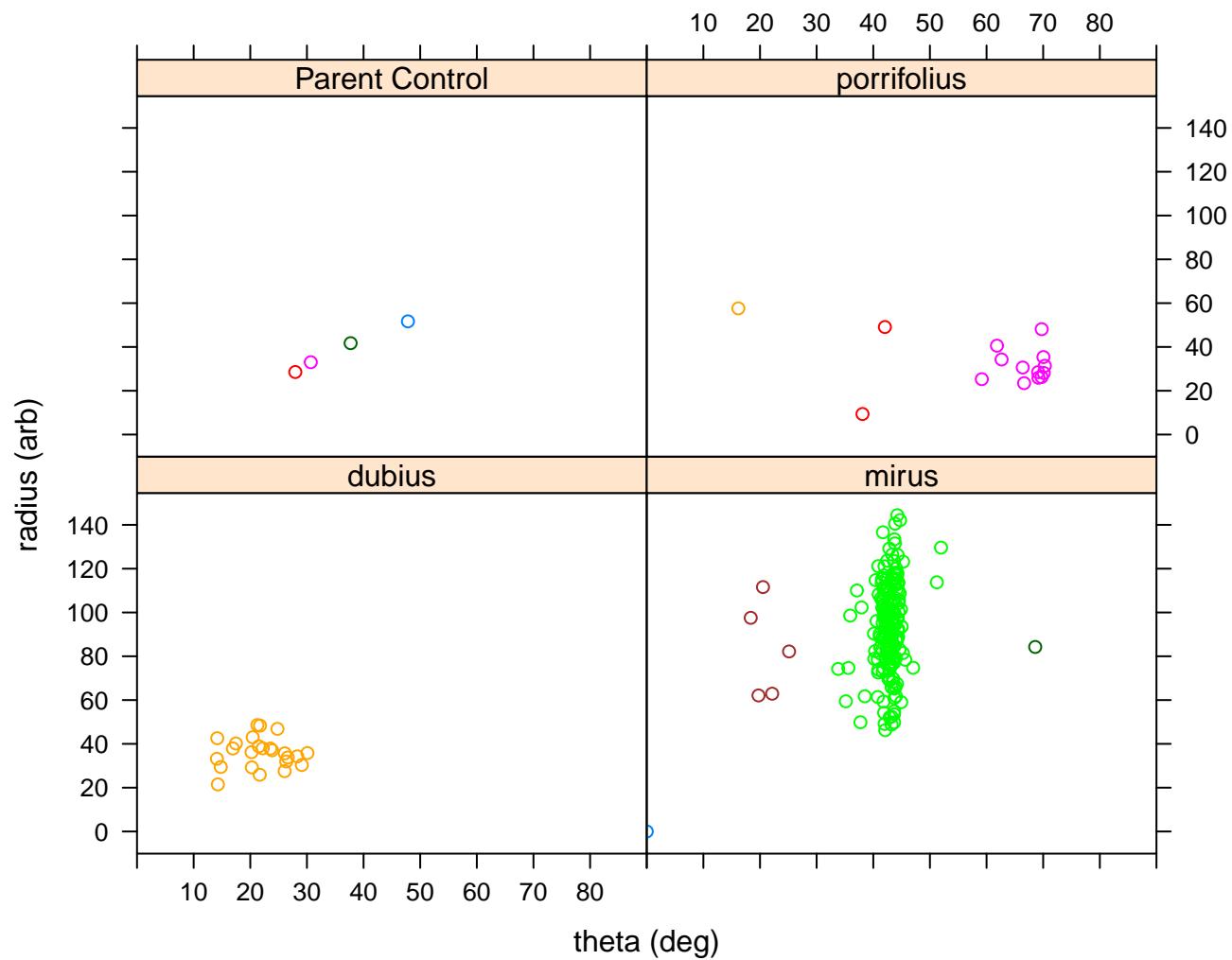


V_2_5_isotig18878_222 gDNA

Call

Bad_Spectrum
HH
HHHH
LH
LL
LLHH

LLLL
PM1
PM2_1_1
PM2_1_2
PM2_2_1



V_2_5_isotig18878_222 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

porrifolius

160
140
120
100
80
60
40
20
0

dubius

mirus

160
140
120
100
80
60
40
20
0

10 20 30 40 50 60 70 80

theta (deg)

radius (arb)

V_2_5_isotig18897_190 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

80
75
70
65
60
55
50
45
40
35
30
25

dubius

miscellus

80
75
70
65
60
55
50
45
40
35
30
25

10 20 30 40 50 60 70 80

theta (deg)

radius (arb)

V_2_5_isotig18897_190 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		

10 20 30 40 50 60 70 80

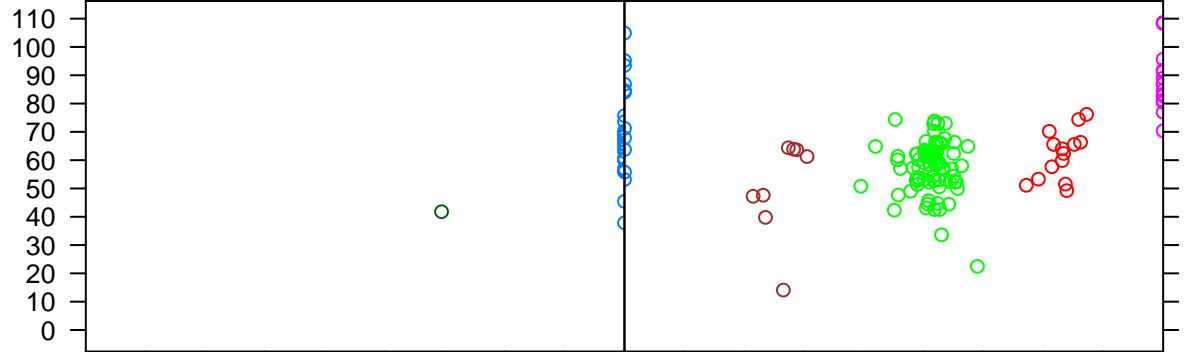
Parent Control

pratensis

110
100
90
80
70
60
50
40
30
20
10
0

dubius

miscellus

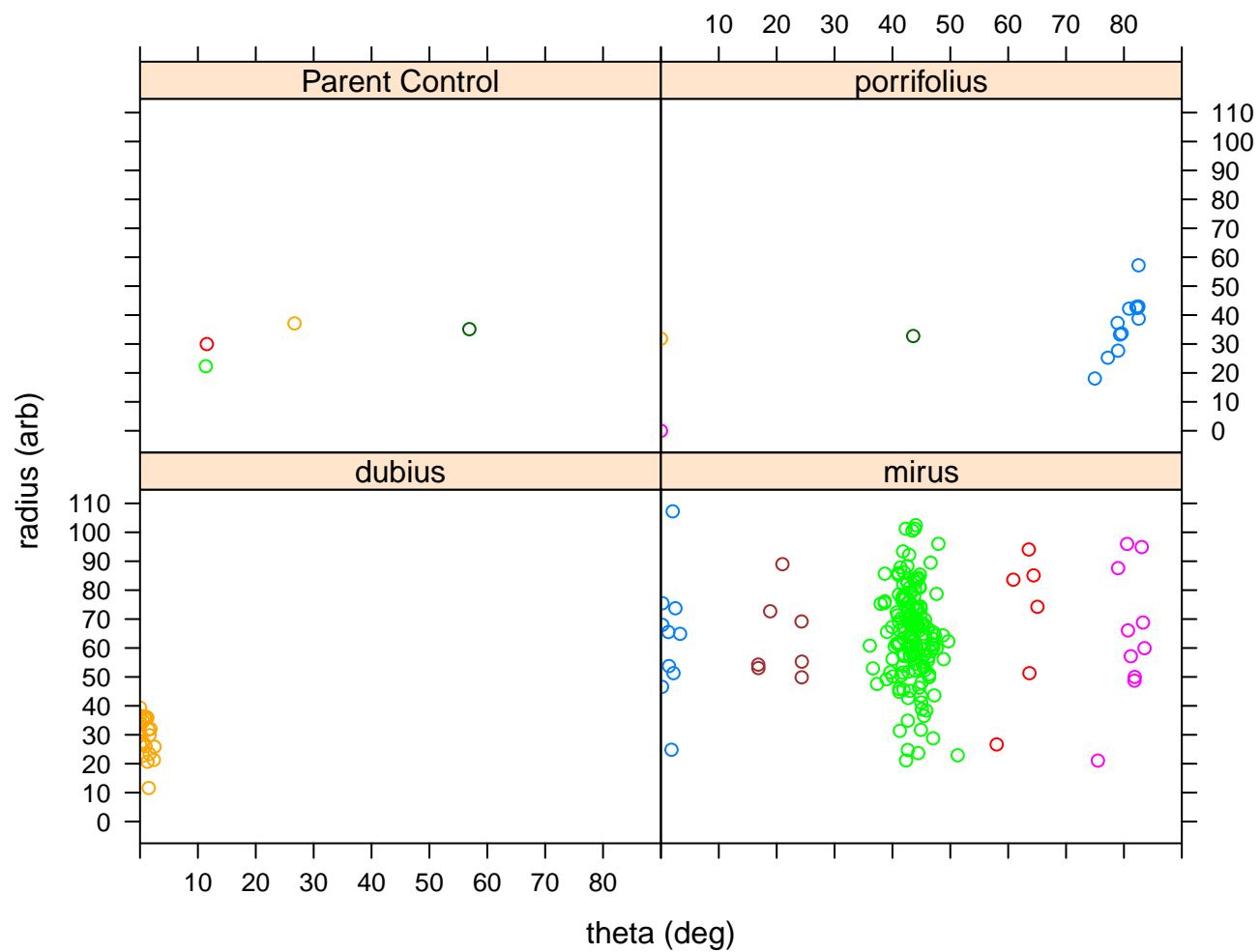


theta (deg)

V_2_5_isotig18897_244 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig18897_244 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LHHH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

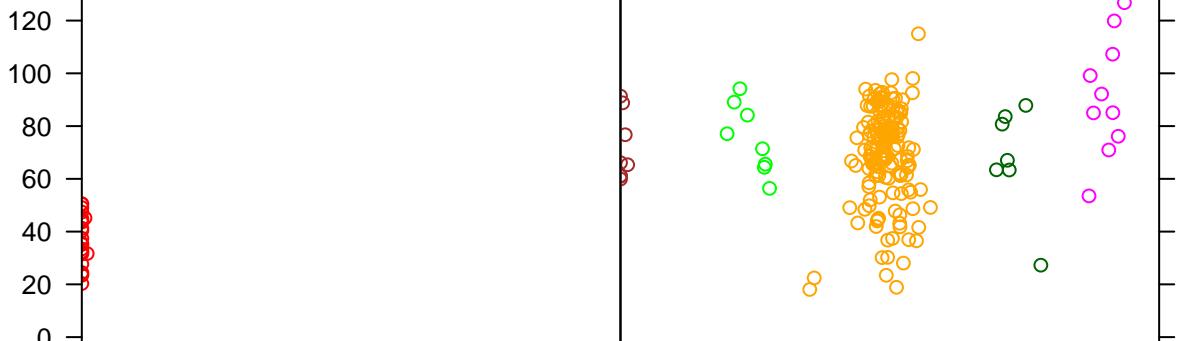
porrifolius

120
100
80
60
40
20
0

dubius

mirus

radius (arb)



theta (deg)

V_2_5_isotig18897_398 gDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		

10 20 30 40 50 60 70 80

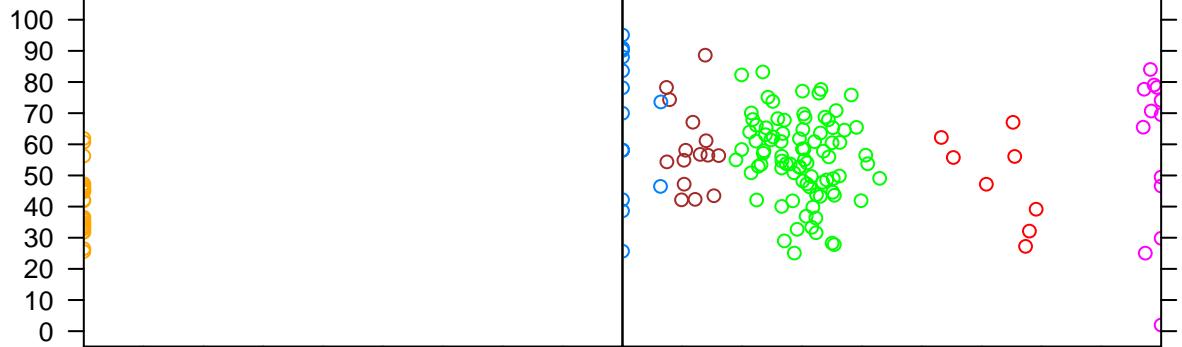
Parent Control

pratensis

100
90
80
70
60
50
40
30
20
10
0

dubius

miscellus



theta (deg)

V_2_5_isotig18897_398 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

100
90
80
70
60
50
40
30
20
10
0

dubius

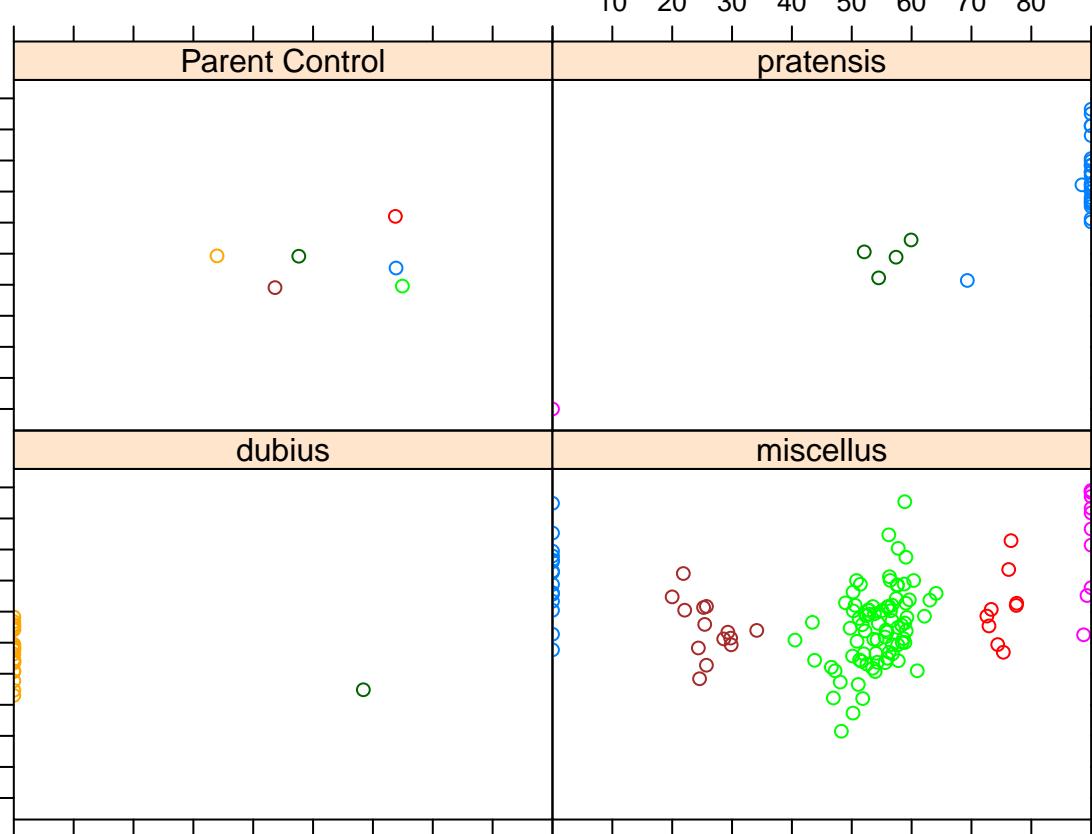
miscellus

radius (arb)

100
90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig18939_184 gDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

45
40
35
30
25
20
15
10
5

dubius

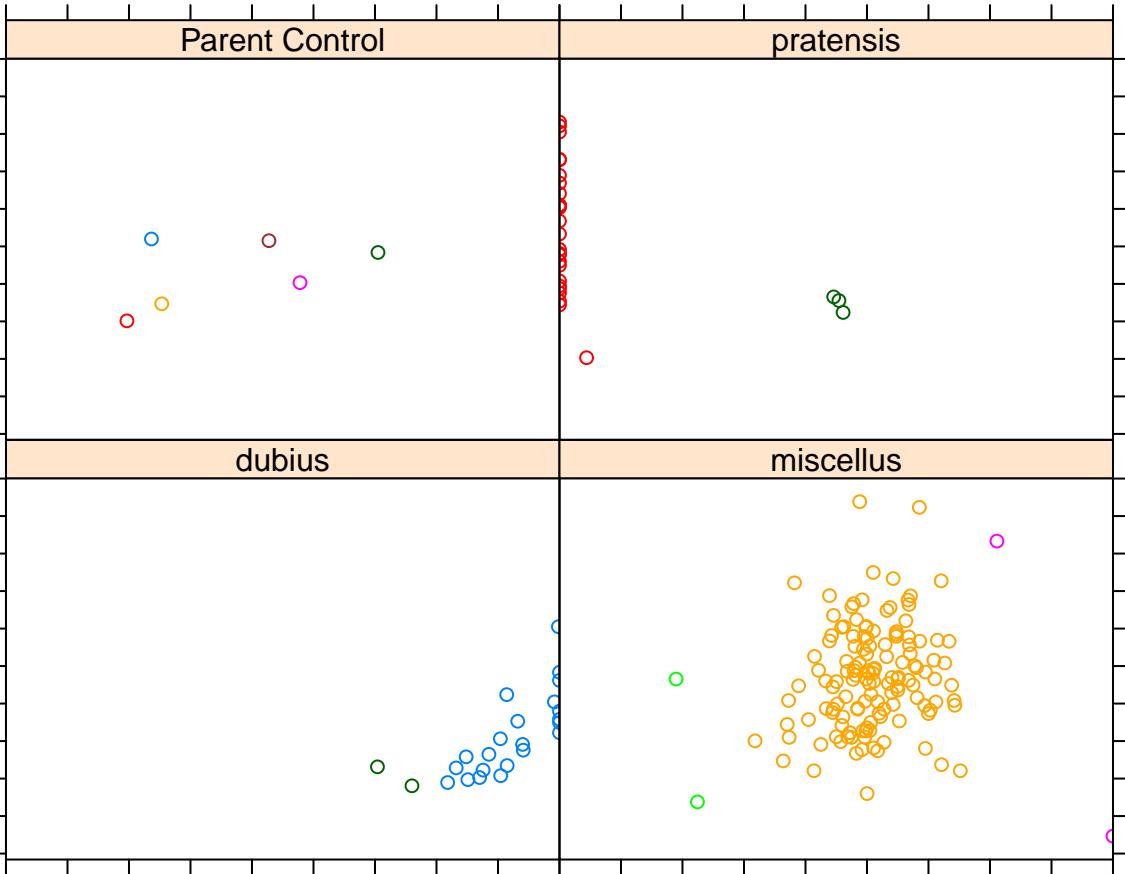
miscellus

radius (arb)

45
40
35
30
25
20
15
10
5

10 20 30 40 50 60 70 80

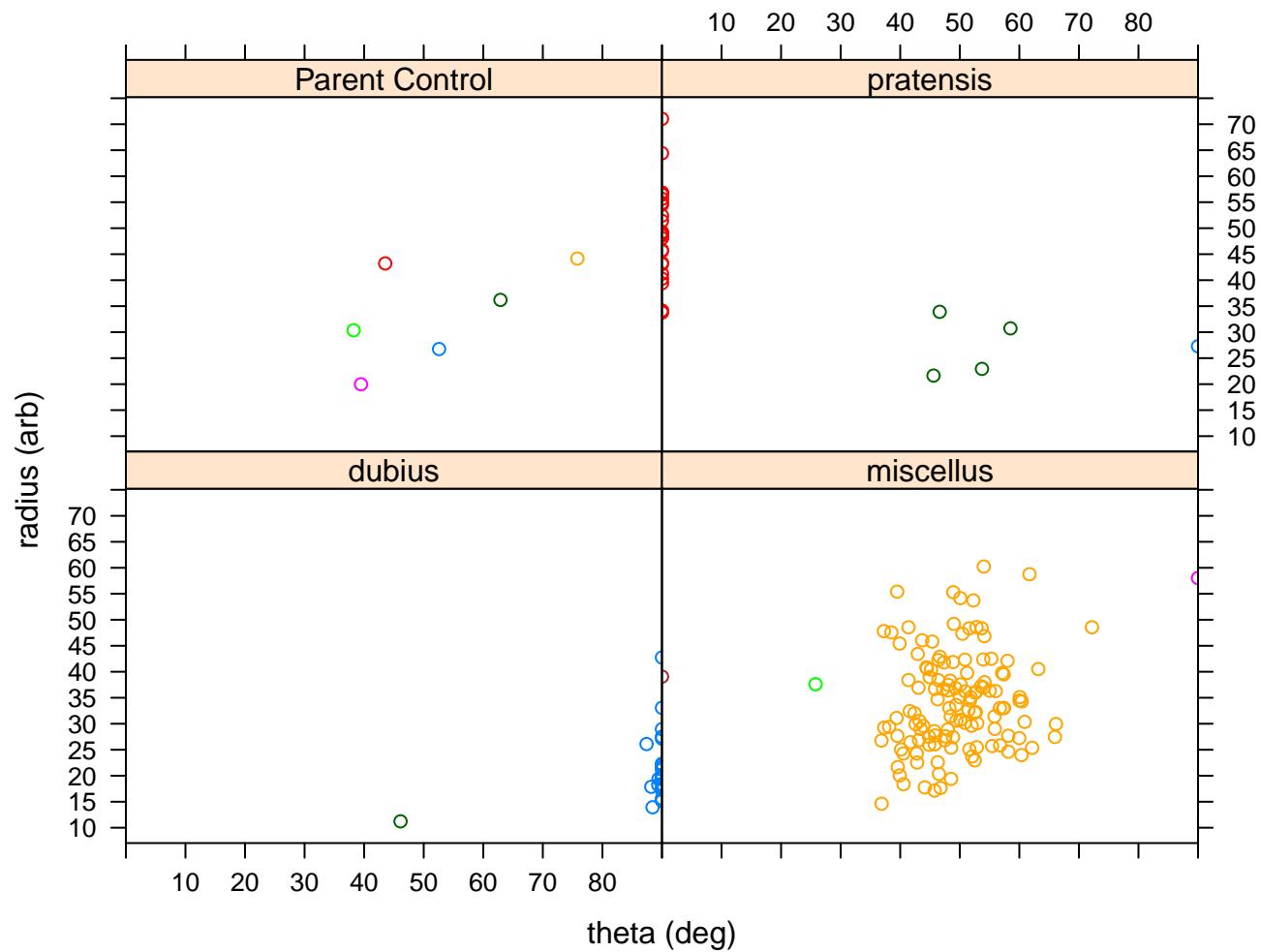
theta (deg)



V_2_5_isotig18939_184 cDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		



V_2_5_isotig18951_145 gDNA

Call

HH	○	LLLH	○
HHHH	○	LLLL	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

90
80
70
60
50
40
30
20

radius (arb)

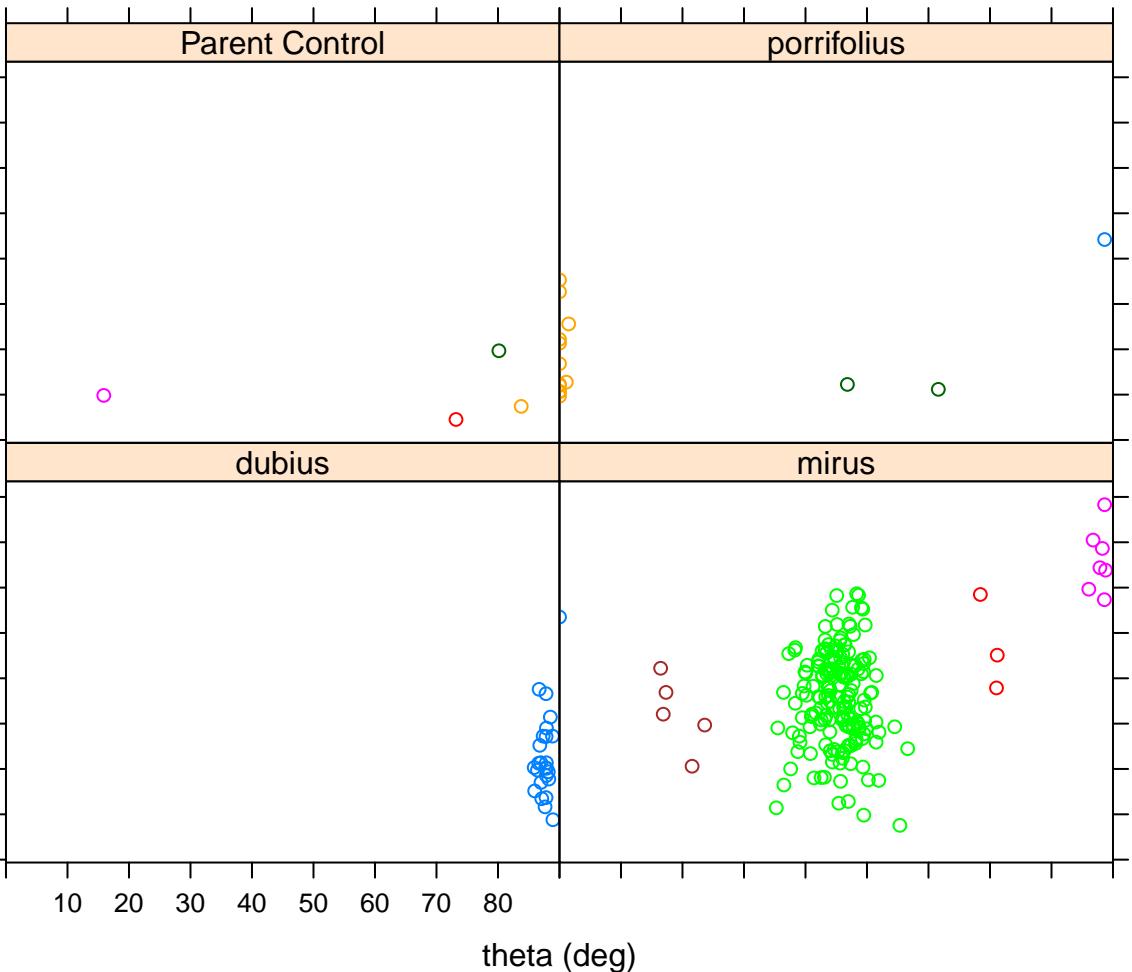
dubius

mirus

90
80
70
60
50
40
30
20

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig18951_145 cDNA

Call

HH	○	LLLH	○
HHHH	○	LLLL	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

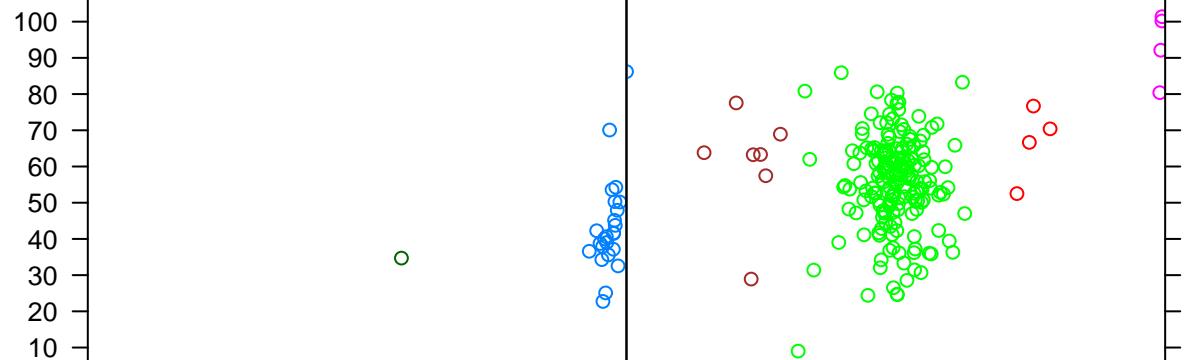
Parent Control

porrifolius

100
90
80
70
60
50
40
30
20
10

dubius

mirus



theta (deg)

V_2_5_isotig18987_137 gDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LHHH	○	PM4	○
LL	○	PM5	○
LLHH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

dubius

miscellus

radius (arb)

70

60

50

40

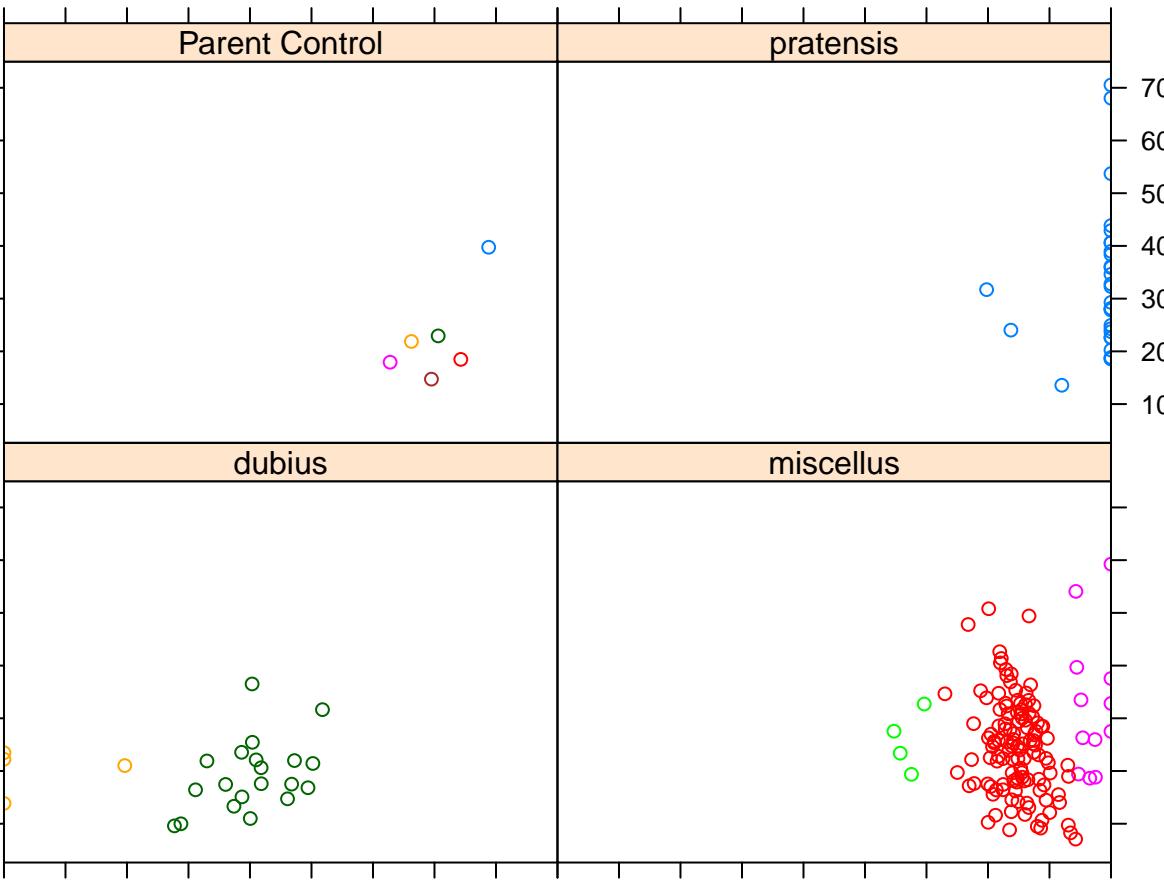
30

20

10

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig18987_137 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LHHH	○	PM3_1_2	○
LL	○	PM3_2_1	○
LLHH	○	PM4	○
LLLH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

70
60
50
40
30
20
10
0

radius (arb)

dubius

miscellus

○

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig19050_120 gDNA

Call

Bad_Spectrum	LLLL
HH	PM3_1_1
LH	PM3_1_2
LHHH	PM3_2_1
LL	PM4
LLHH	PM5
LLLH	PM6

10 20 30 40 50 60 70 80

Parent Control

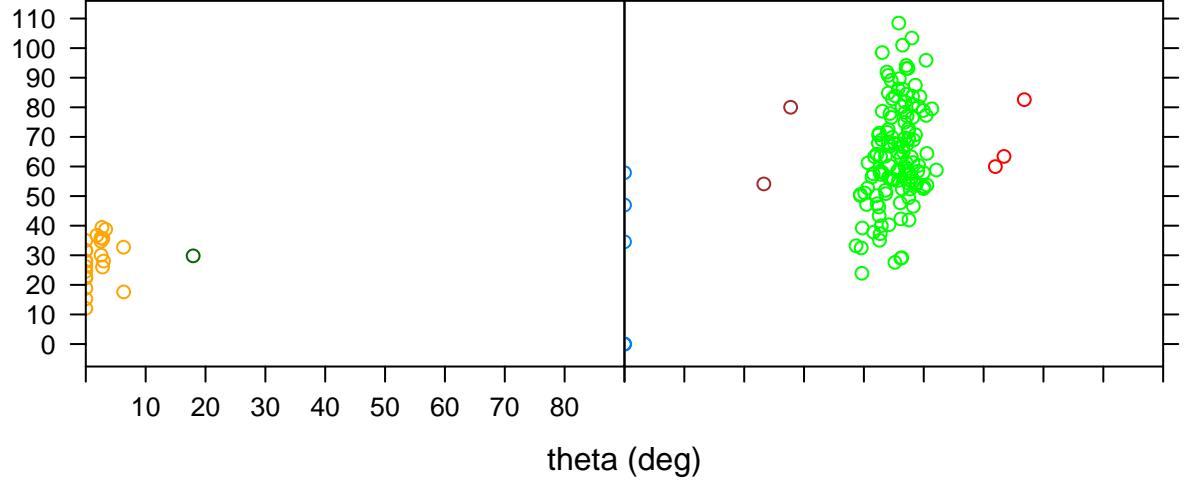
pratensis

radius (arb)

110
100
90
80
70
60
50
40
30
20
10
0

dubius

miscellus



V_2_5_isotig19050_120 cDNA

Call

Bad_Spectrum	LLLL	Bad_Spectrum
HH	PM3_1_1	HH
HHHH	PM3_1_2	HHHH
LH	PM3_2_1	LH
LHHH	PM4	LHHH
LL	PM5	LL
LLHH	PM6	LLHH
LLLH		LLLH

10 20 30 40 50 60 70 80

Parent Control

pratensis

120
110
100
90
80
70
60
50
40
30
20
10
0

dubius

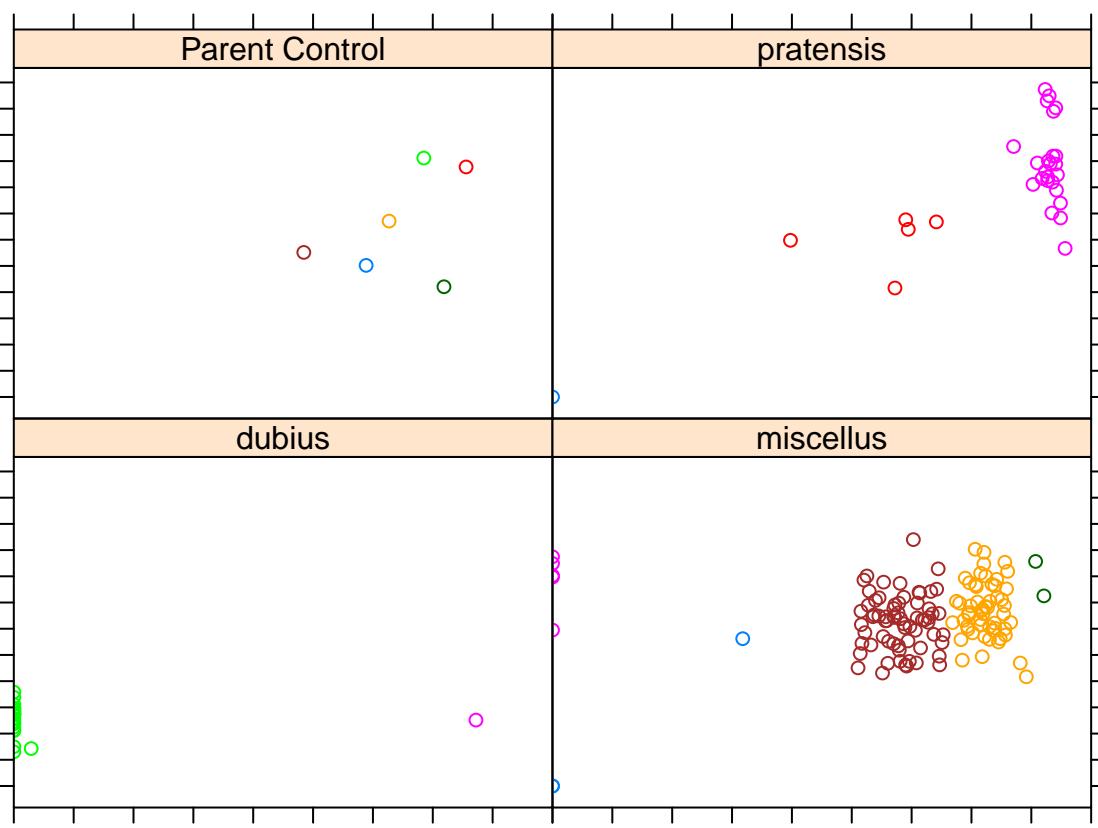
miscellus

radius (arb)

120
110
100
90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig19124_221 gDNA

Call

HH	○	LLLH	○
HHHH	○	LLLL	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

65
60
55
50
45
40
35
30
25
20
15
10

dubius

mirus

radius (arb)

65
60
55
50
45
40
35
30
25
20
15
10

10 20 30 40 50 60 70 80

theta (deg)

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

○

V_2_5_isotig19124_221 cDNA

Call

HH	○	LLLH	○
HHHH	○	LLLL	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

radius (arb)

80
70
60
50
40
30
20
10

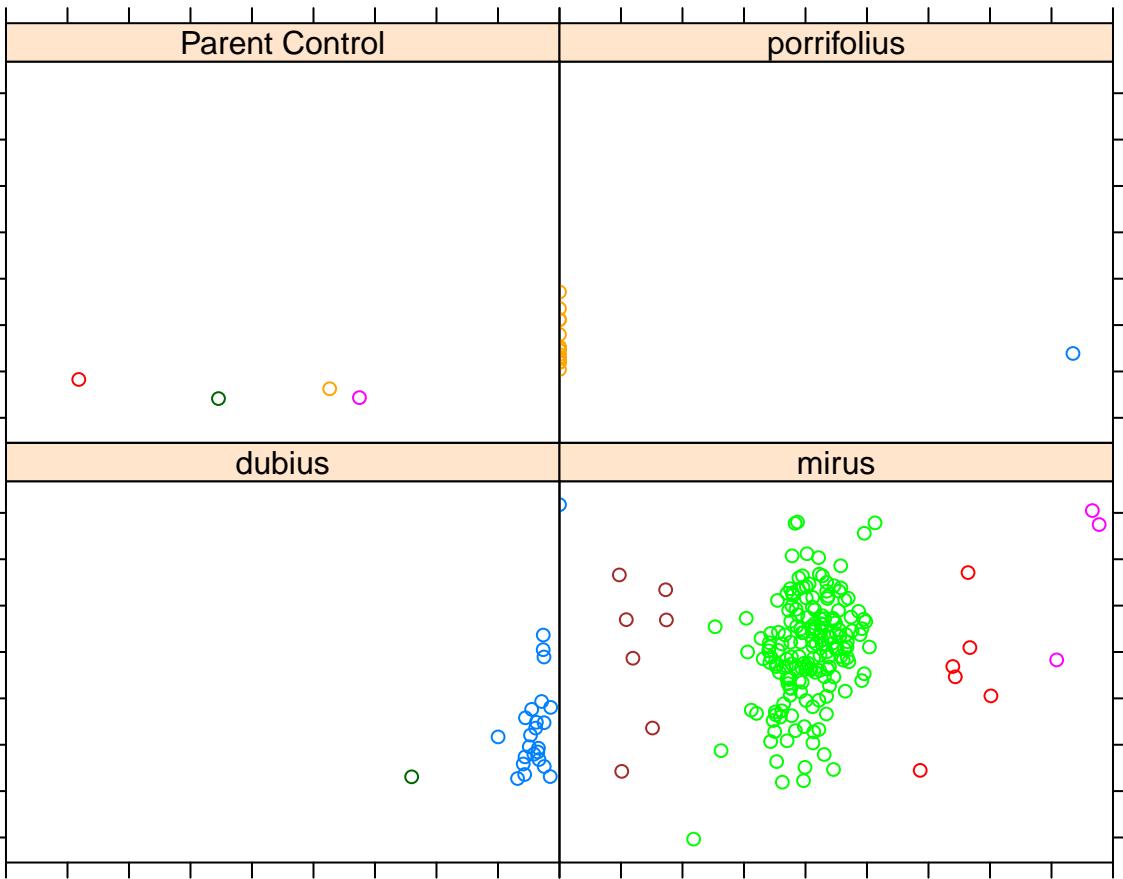
dubius

mirus

80
70
60
50
40
30
20
10

10 20 30 40 50 60 70 80

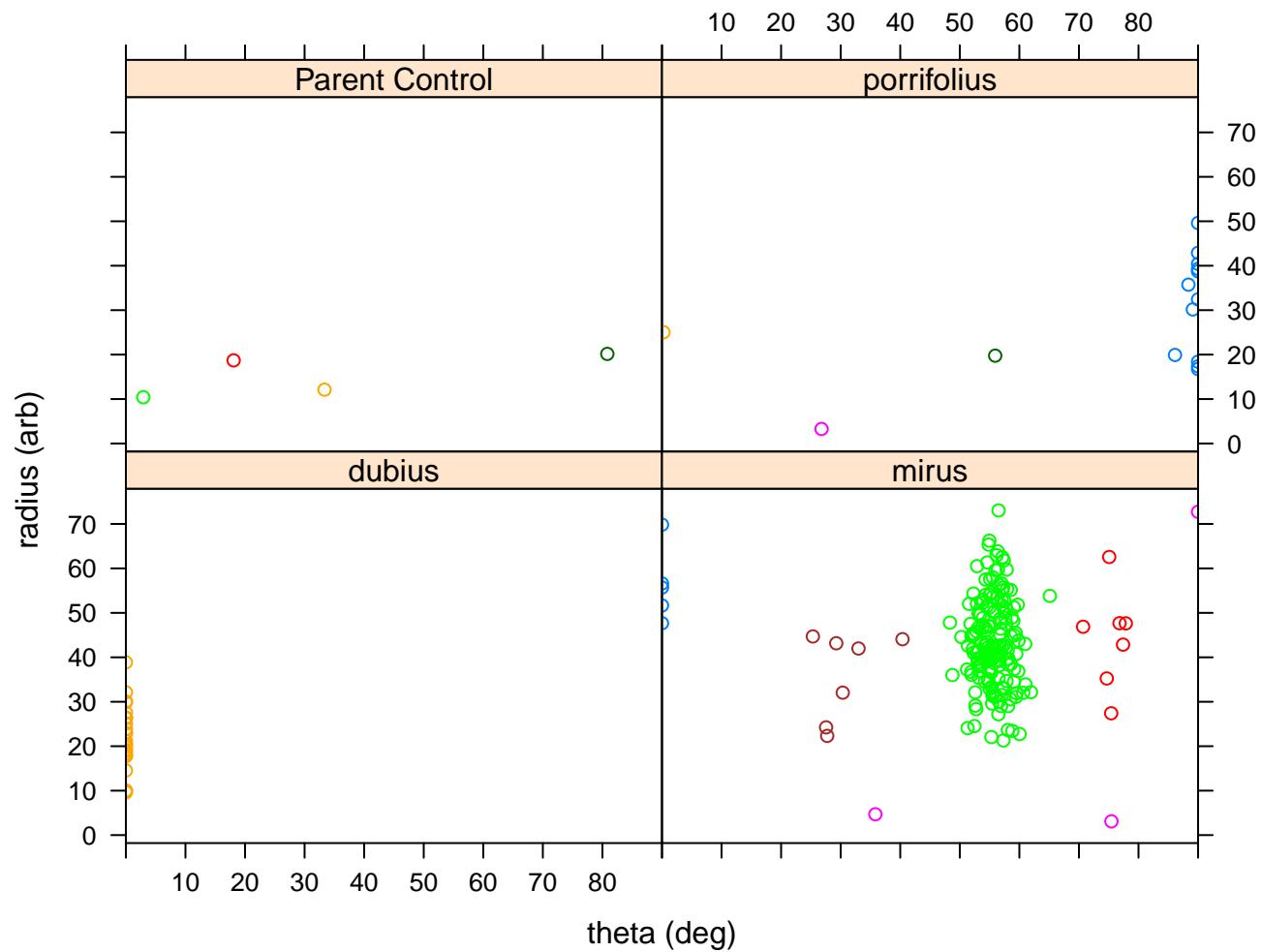
theta (deg)



V_2_5_isotig19151_273 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig19151_273 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

80
70
60
50
40
30
20
10
0

dubius

mirus

radius (arb)

80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)

10 20 30 40 50 60 70 80

V_2_5_isotig19156_190 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

60
55
50
45
40
35
30
25
20
15
10
5
0

radius (arb)

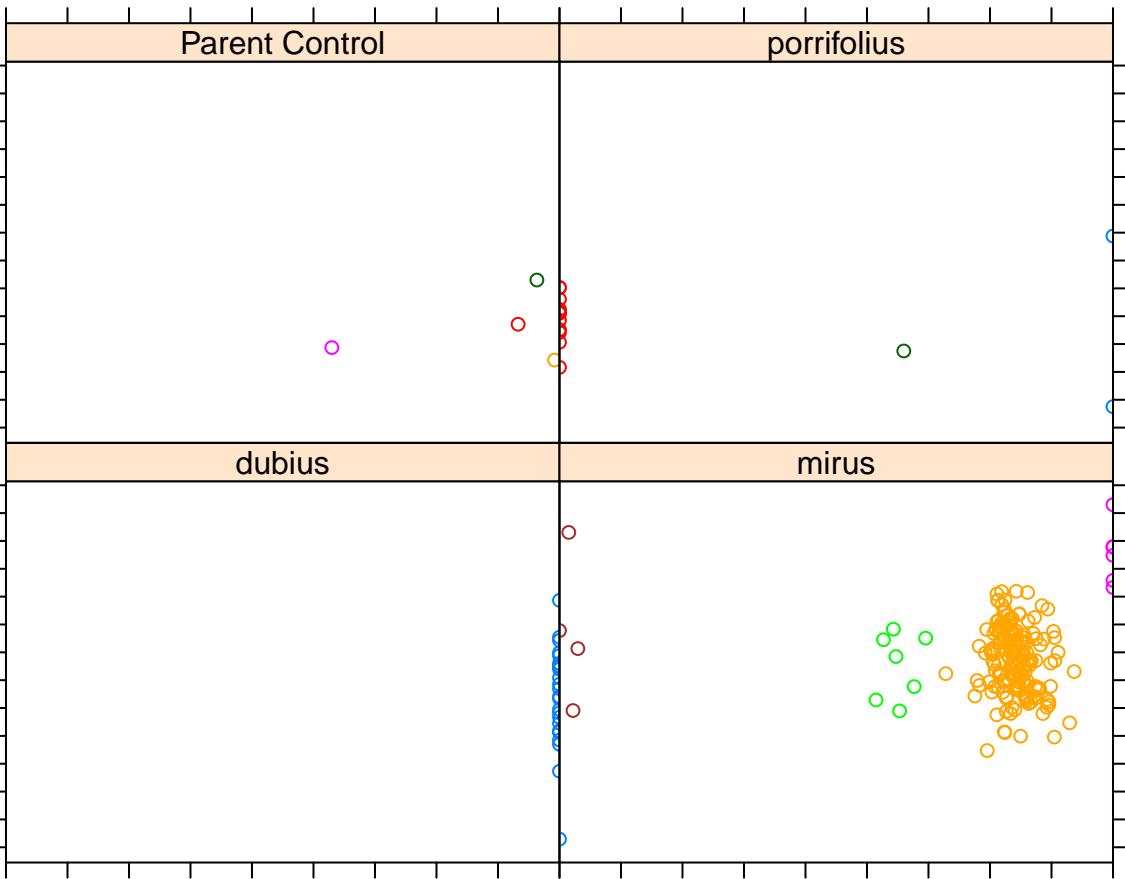
dubius

mirus

60
55
50
45
40
35
30
25
20
15
10
5
0

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig19156_190 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

60
50
40
30
20
10
0

dubius

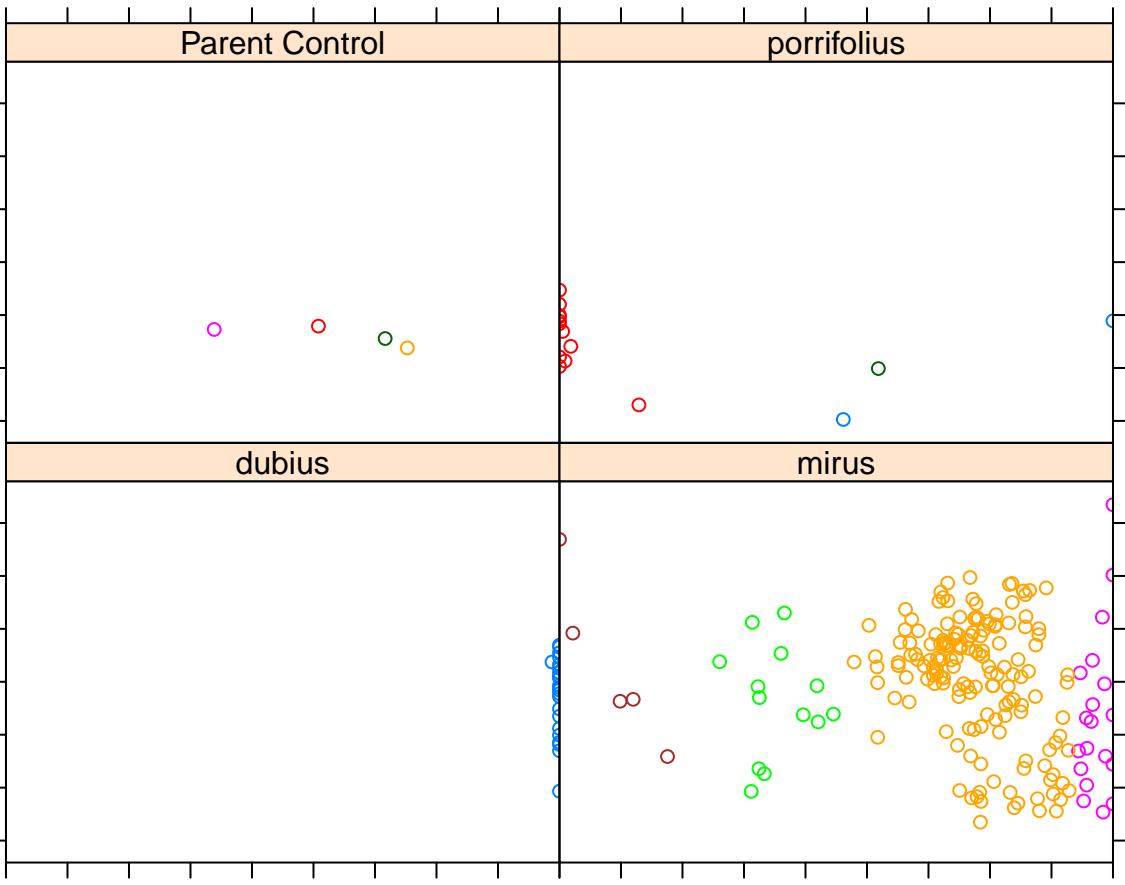
mirus

radius (arb)

60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig19156_361 gDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LL	○	PM3_2_1	○
LLHH	○	PM4	○
LLLH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

220
200
180
160
140
120
100
80
60
40
20

dubius

miscellus

220
200
180
160
140
120
100
80
60
40
20

10 20 30 40 50 60 70 80

theta (deg)

radius (arb)

V_2_5_isotig19156_361 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

80
70
60
50
40
30
20
10
0

radius (arb)

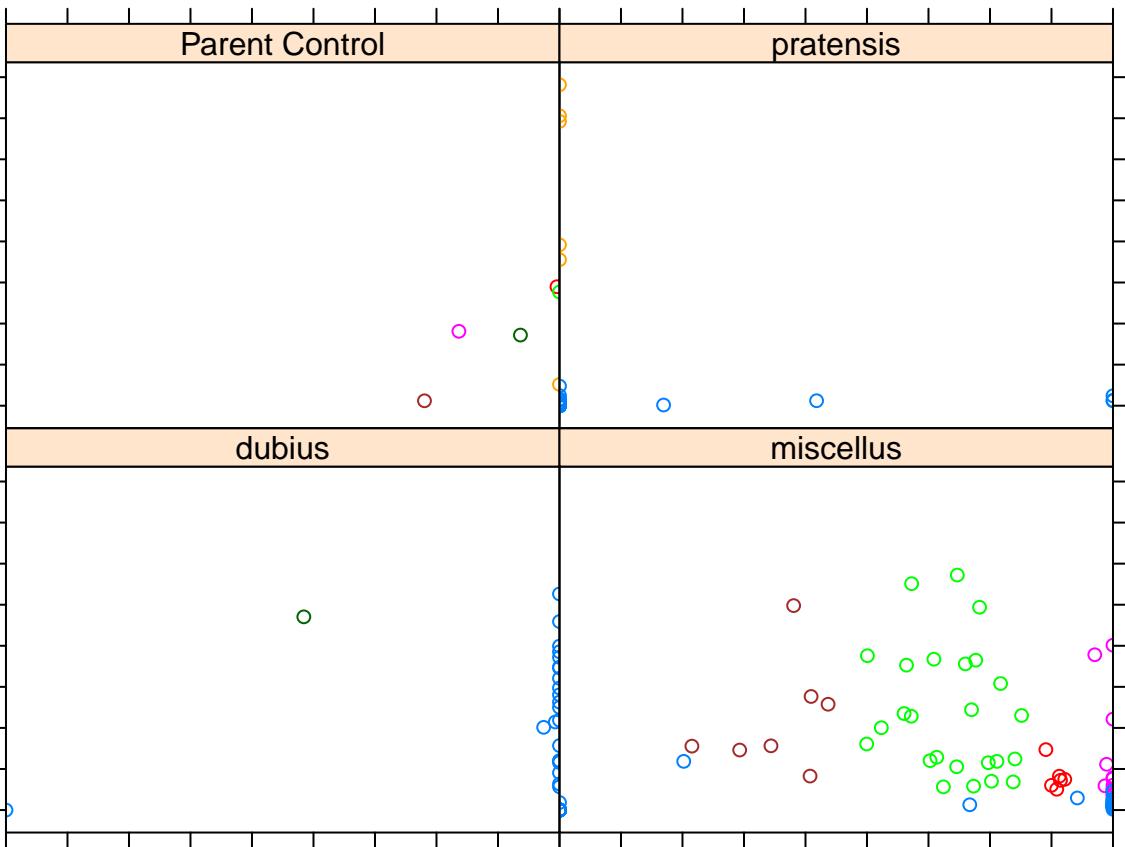
dubius

miscellus

80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig19200_54 cDNA

Call

Bad_Spectrum	LLLH	LLHH
HH	LLLL	HHHH
HHHH	No_Alleles	HH
LH	PM1	LH
LHHH	PM2_1_1	LHHH
LL	PM2_1_2	LL
LLHH	PM2_2_1	LLHH

10 20 30 40 50 60 70 80

Parent Control

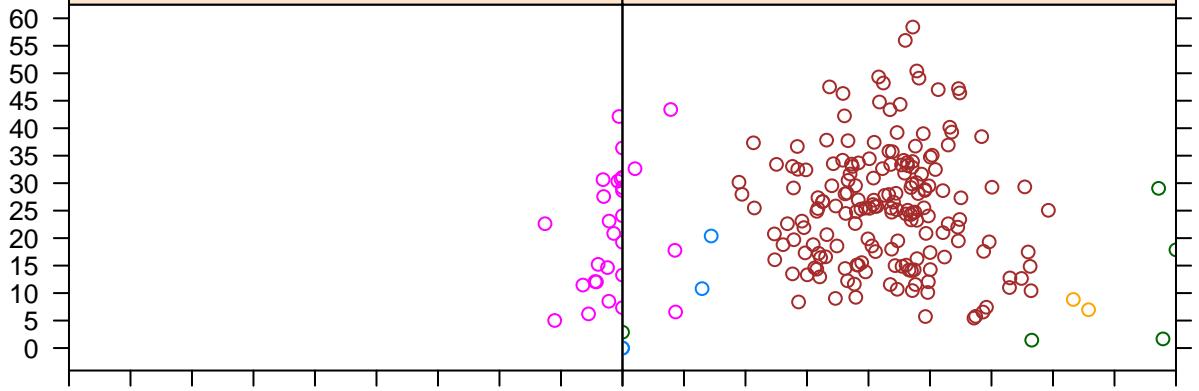
porrifolius

60
55
50
45
40
35
30
25
20
15
10
5
0

radius (arb)

dubius

mirus



10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig19240_248 gDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LL	○	PM3_2_1	○
LLHH	○	PM4	○
LLLH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

140
120
100
80
60
40
20

dubius

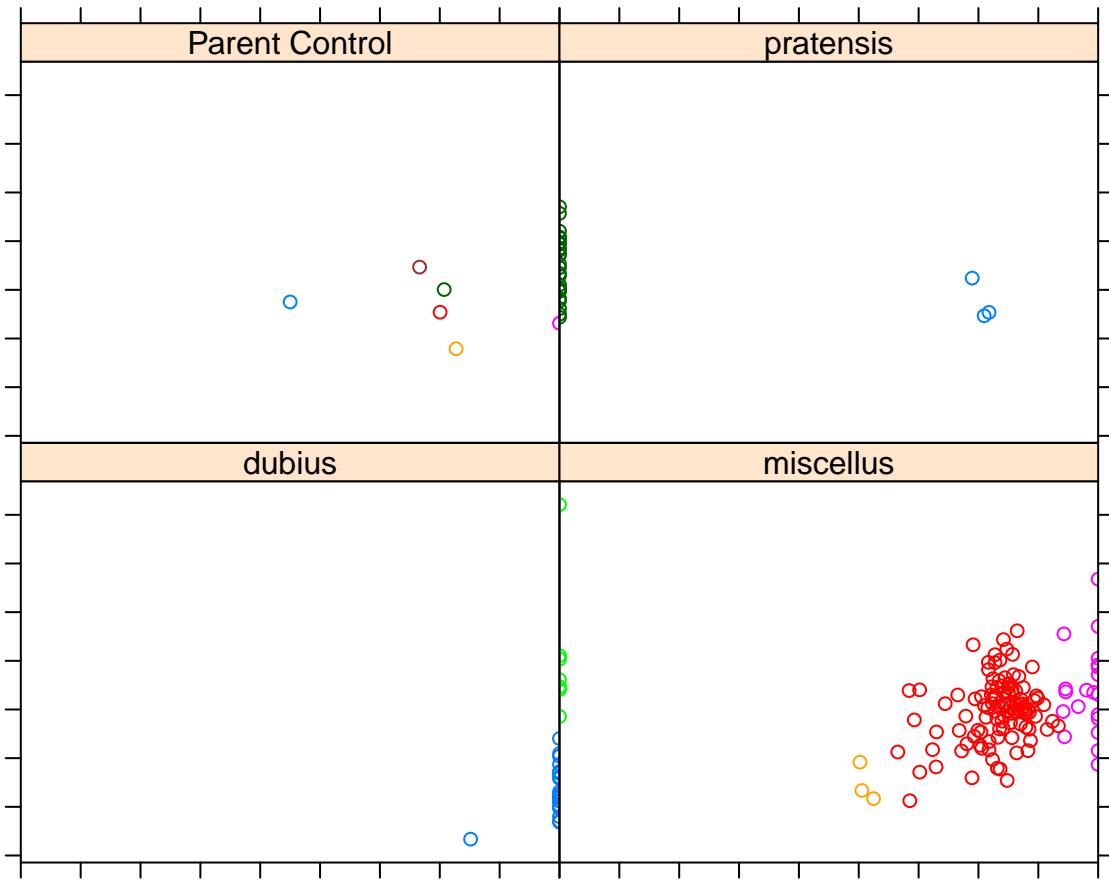
miscellus

140
120
100
80
60
40
20

10 20 30 40 50 60 70 80

theta (deg)

radius (arb)



V_2_5_isotig19240_248 cDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LL	○	PM3_2_1	○
LLHH	○	PM4	○
LLLL	○	PM5	○
No_Alleles	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

120

100

80

60

40

20

0

dubius

miscellus

radius (arb)

120

100

80

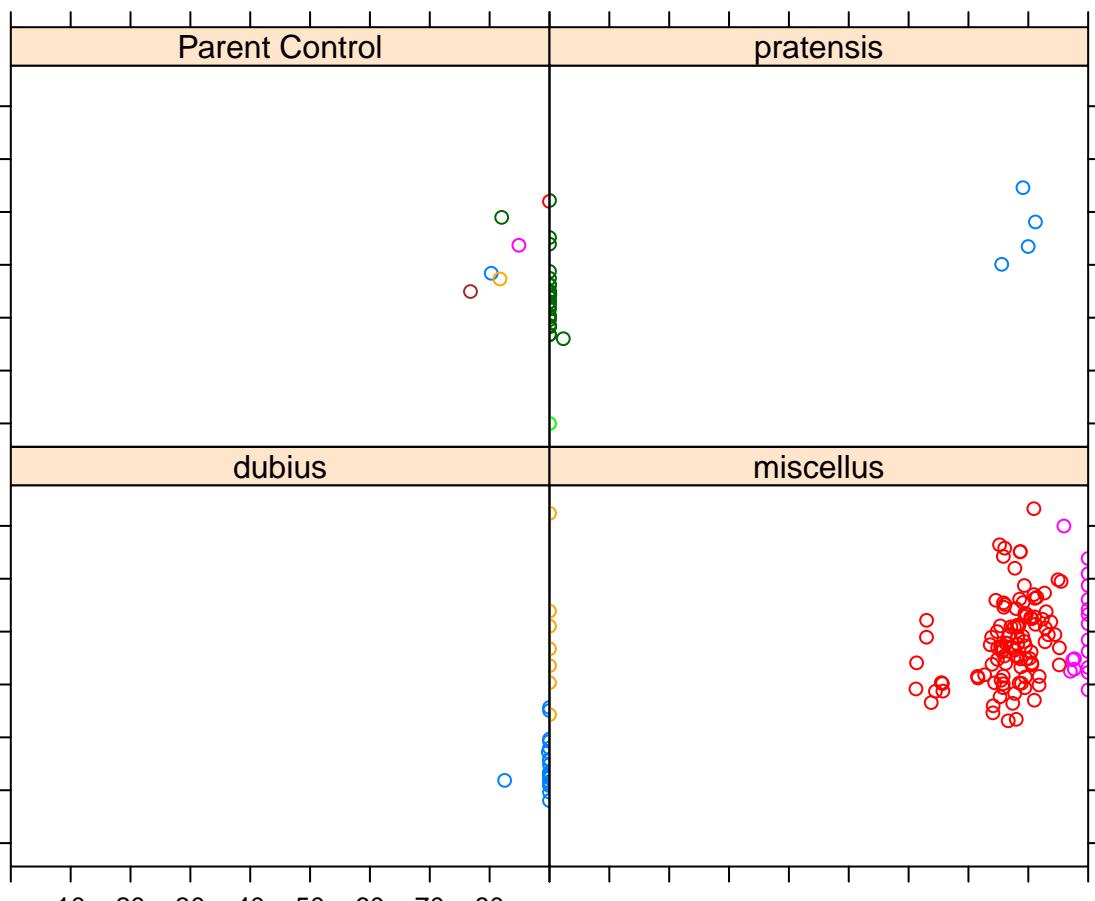
60

40

20

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig19246_170 gDNA

Call

Bad_Spectrum	○	LLLL	○
HH	○	No_Alleles	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

90
80
70
60
50
40
30
20
10
0

radius (arb)

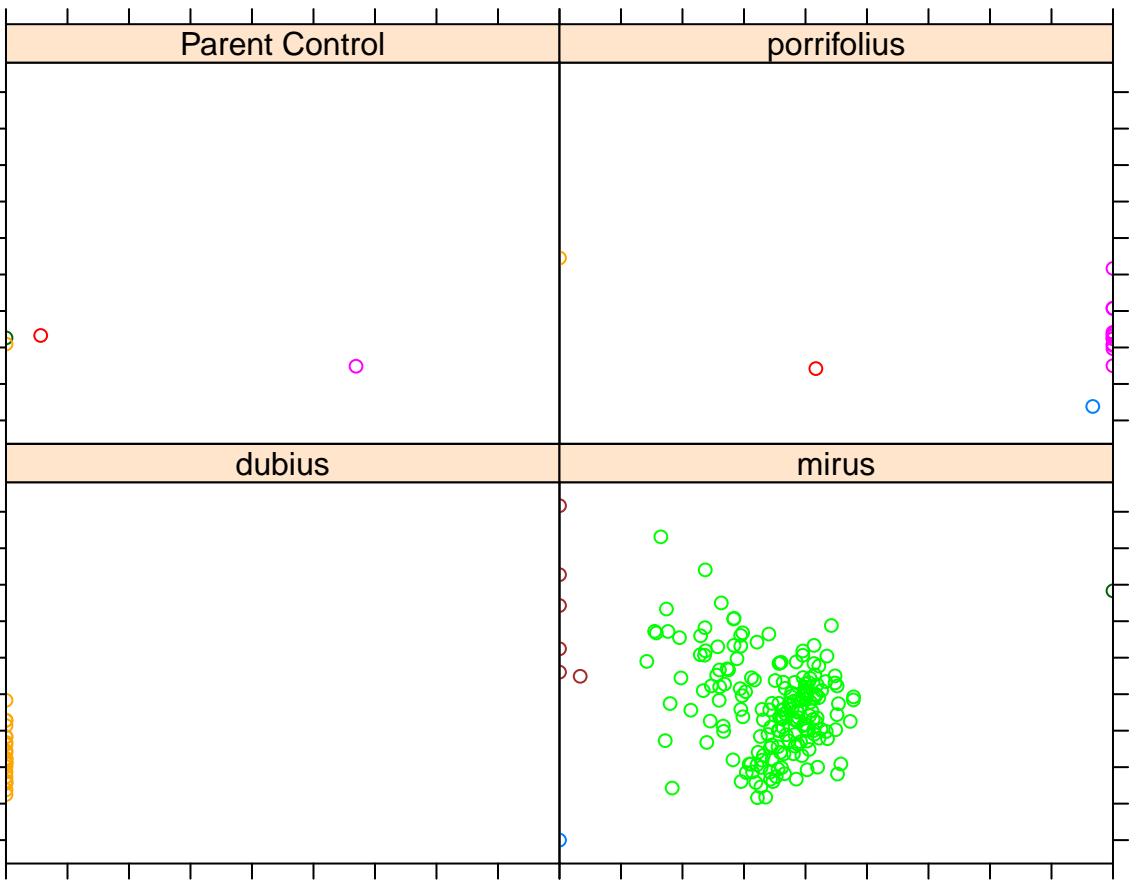
dubius

mirus

90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig19246_170 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

radius (arb)

80
70
60
50
40
30
20
10

dubius

mirus

80
70
60
50
40
30
20
10

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig19261_278 cDNA

Call

HH	○	PM1	○
HHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLLL	○	PM2_2_1	○
No_Alleles			○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

90
80
70
60
50
40
30
20
10
0

radius (arb)

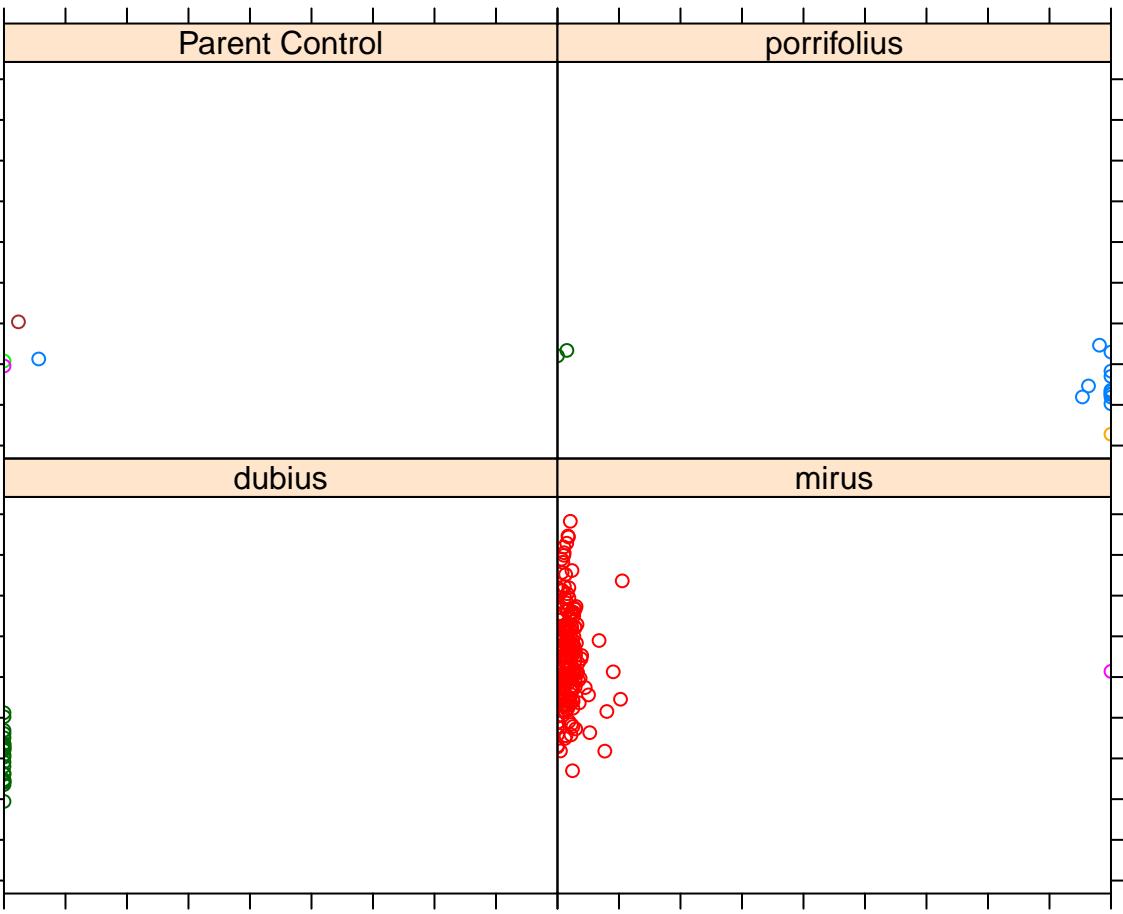
dubius

mirus

90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig19261_337 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

110
100
90
80
70
60
50
40
30
20
10
0

dubius

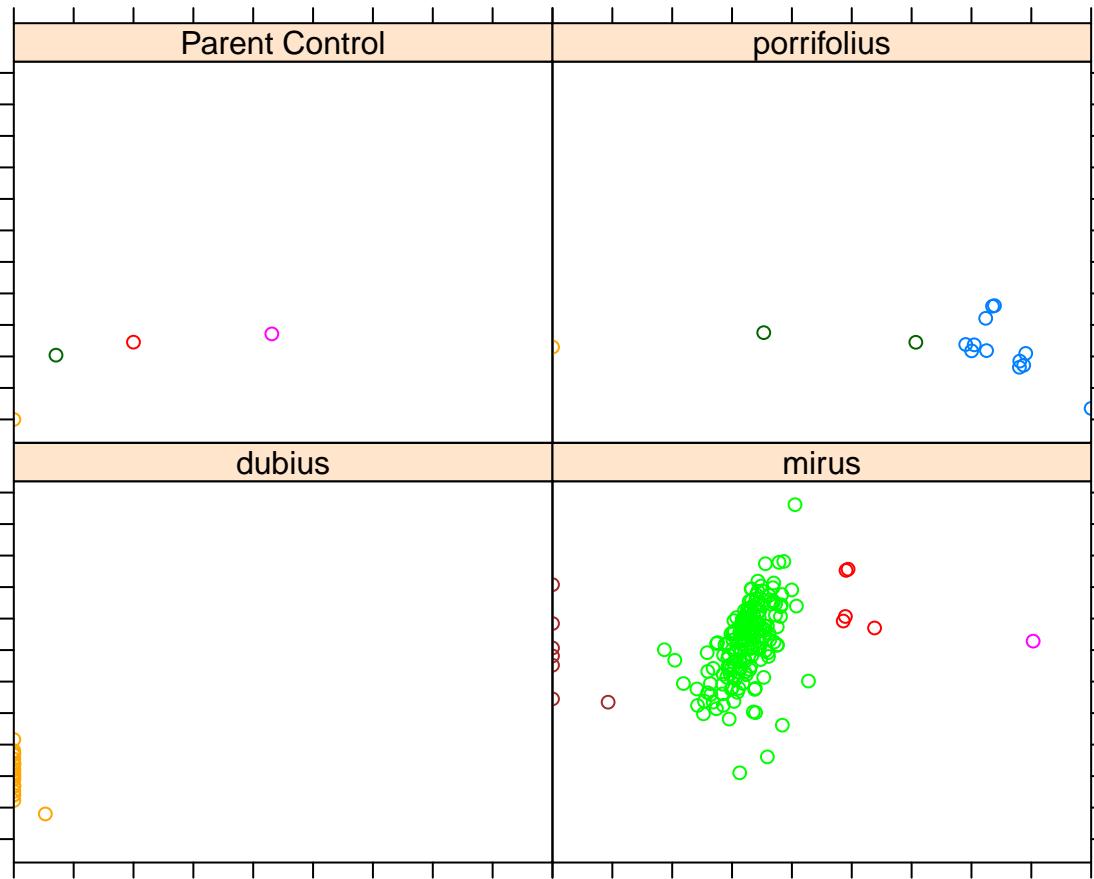
mirus

110
100
90
80
70
60
50
40
30
20
10
0

radius (arb)

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig19261_337 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

110
100
90
80
70
60
50
40
30
20
10
0

dubius

mirus

110
100
90
80
70
60
50
40
30
20
10
0

radius (arb)

110
100
90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig19261_92 cDNA

Call

Bad_Spectrum	○	No_Alleles	○
HH	○	PM1	○
HHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

porrifolius

120
110
100
90
80
70
60
50
40
30
20
10
0

radius (arb)

dubius

mirus

120
110
100
90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)

120
110
100
90
80
70
60
50
40
30
20
10
0

V_2_5_isotig19330_261 cDNA

Call

HH	○	PM1	○
HHHH	○	PM2_1_1	○
LH	○	PM2_1_2	○
LL	○	PM2_2_1	○
LLHH	○		

10 20 30 40 50 60 70 80

Parent Control

porrifolius

radius (arb)

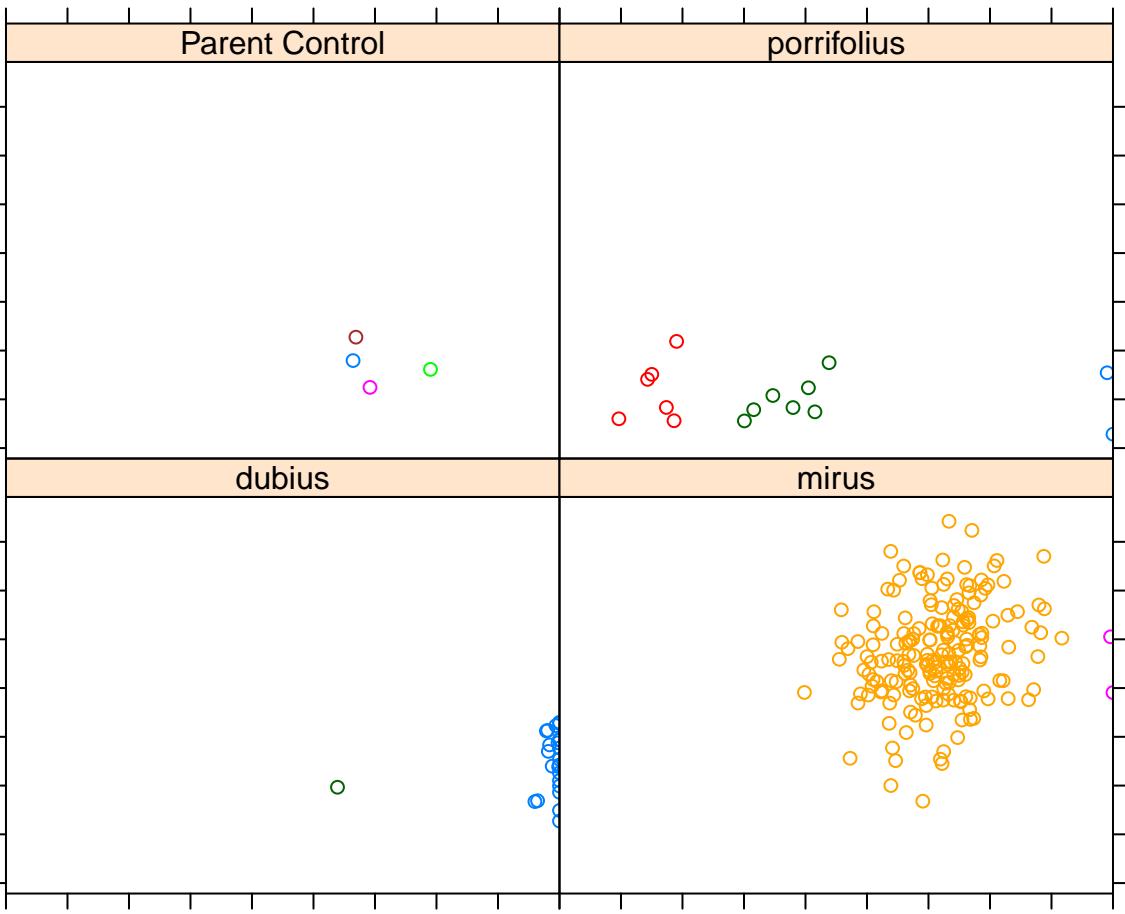
80
70
60
50
40
30
20
10

dubius

mirus

10 20 30 40 50 60 70 80

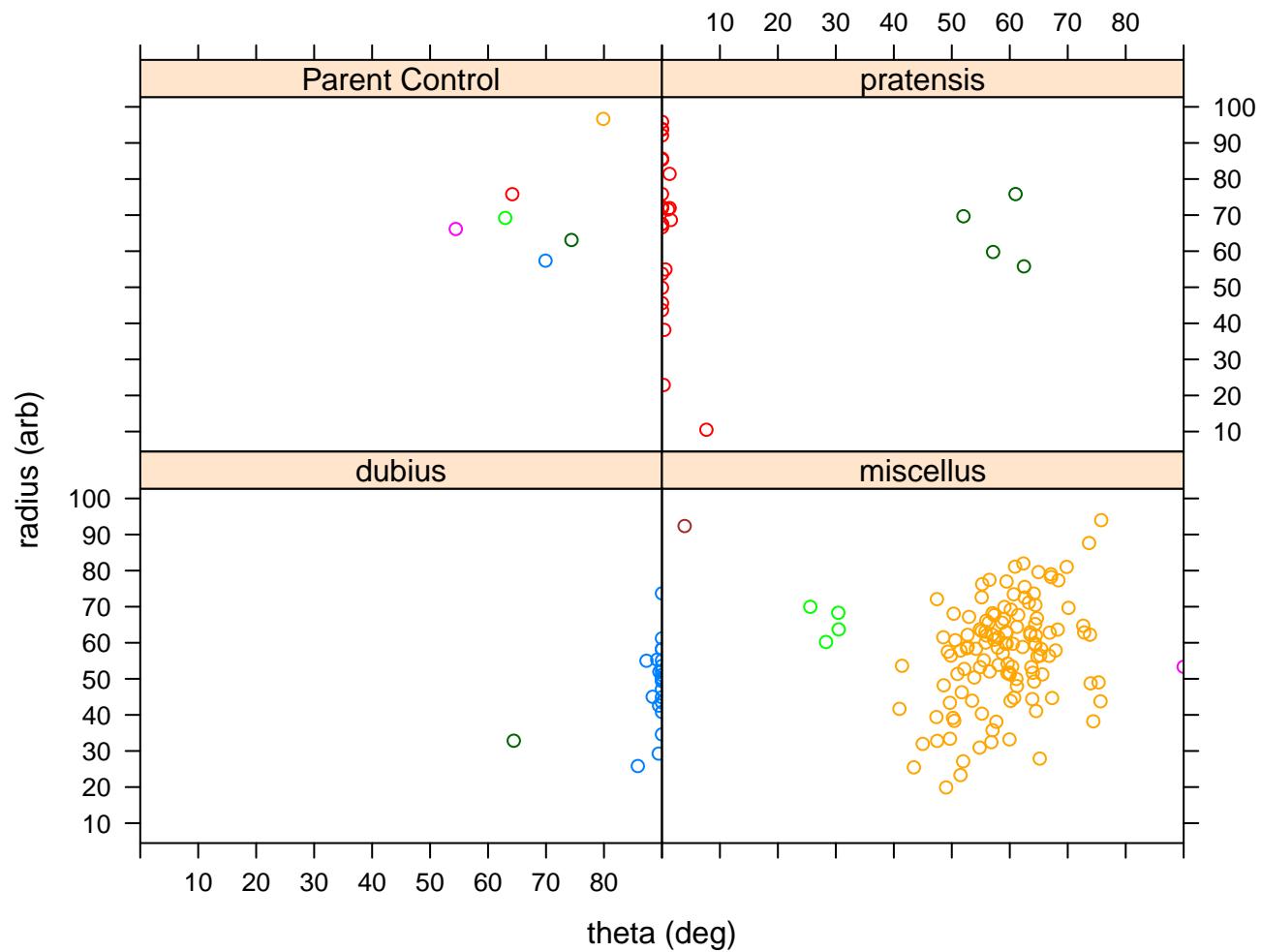
theta (deg)



V_2_5_isotig19386_173 cDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		



V_2_5_isotig19404_314 gDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

140
130
120
110
100
90
80
70
60
50
40
30
20

dubius

miscellus

140
130
120
110
100
90
80
70
60
50
40
30
20

10 20 30 40 50 60 70 80

theta (deg)

radius (arb)

V_2_5_isotig19404_314 cDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

radius (arb)

110
100
90
80
70
60
50
40
30
20
10

dubius

miscellus

10 20 30 40 50 60 70 80

theta (deg)

110
100
90
80
70
60
50
40
30
20
10

V_2_5_isotig19471_315 gDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

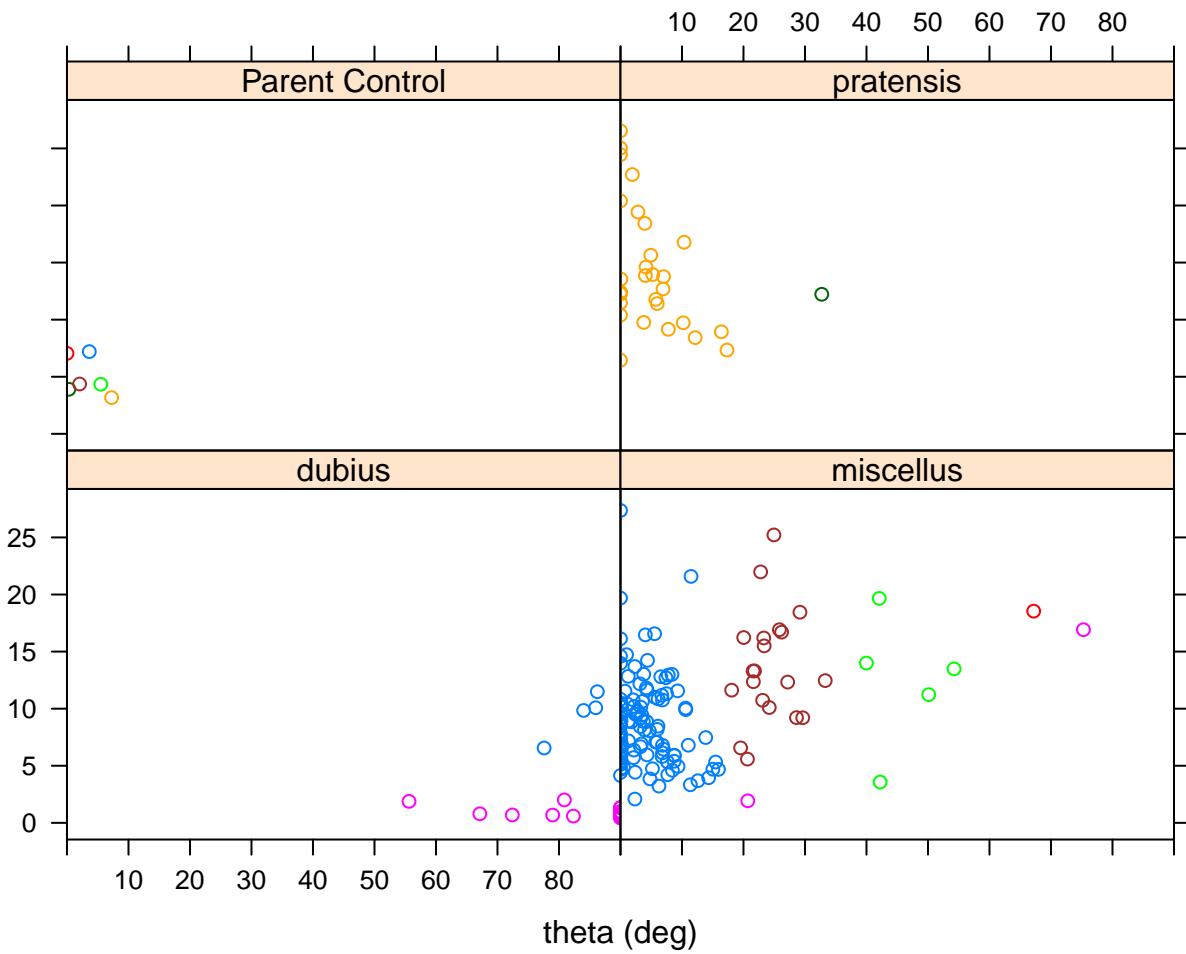
pratensis

25
20
15
10
5
0

dubius

miscellus

radius (arb)



theta (deg)

V_2_5_isotig19482_158 gDNA

Call

Bad Spectrum

100

○

500_

PM3

○

11

PM3

○

11

PM3

1

11

PM3
PM4

Q

11

PM4
PM5

Q

11

PM5
PM6

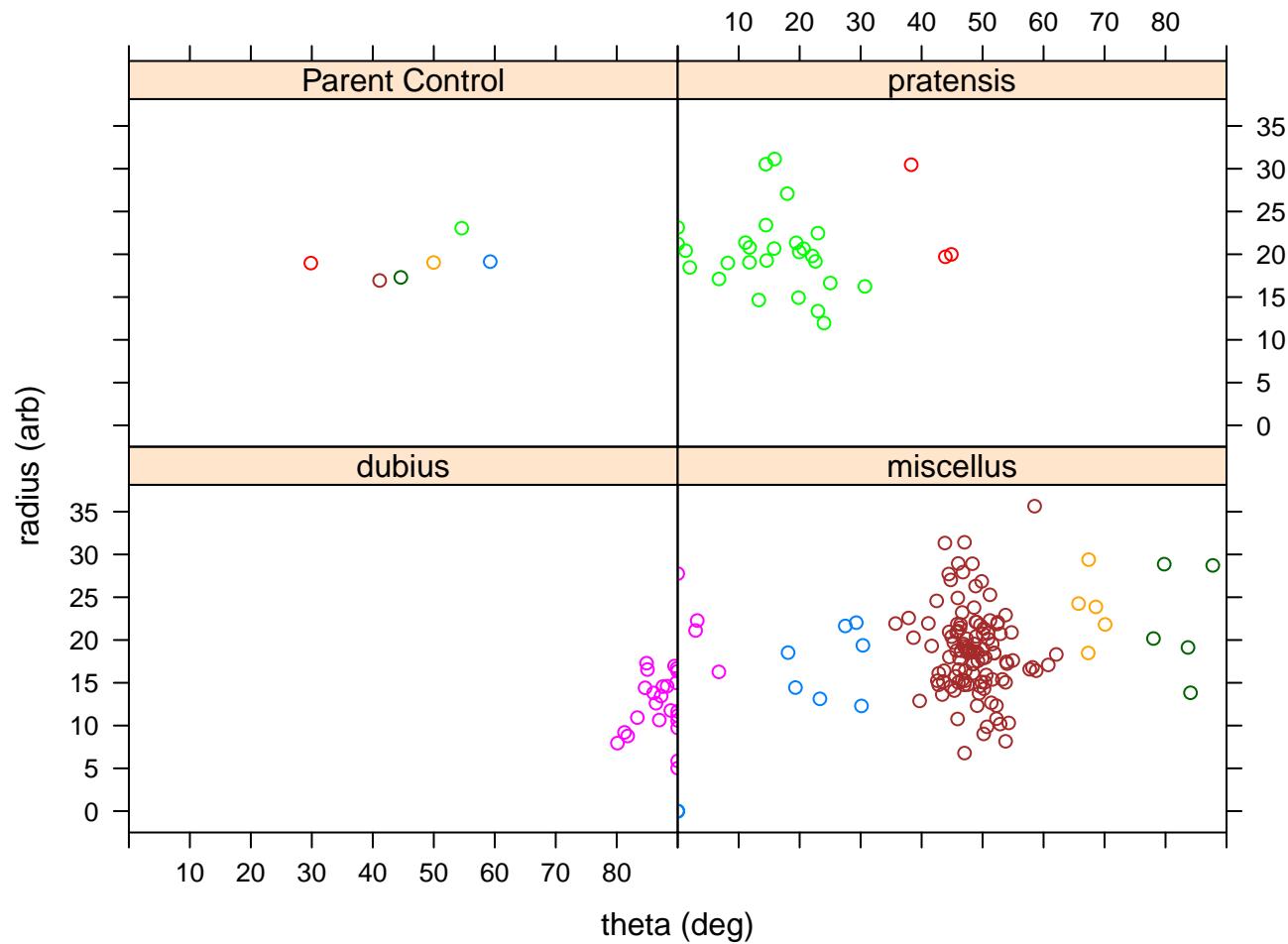
8

LHM

F MO

1

LLN



V_2_5_isotig19551_328 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

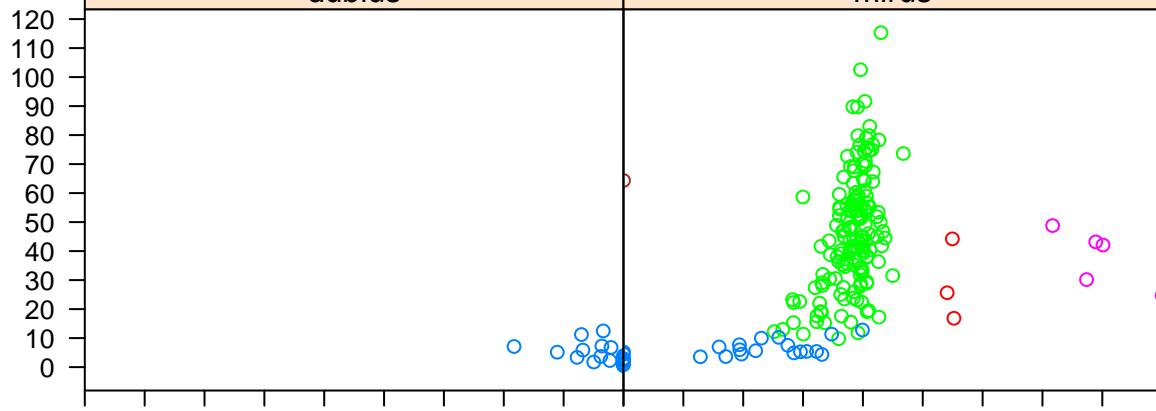
Parent Control

porrifolius

120
110
100
90
80
70
60
50
40
30
20
10
0

dubius

mirus



10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig19574_191 gDNA

Call

HH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○
PM3_1_1	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

35
30
25
20
15
10
5

dubius

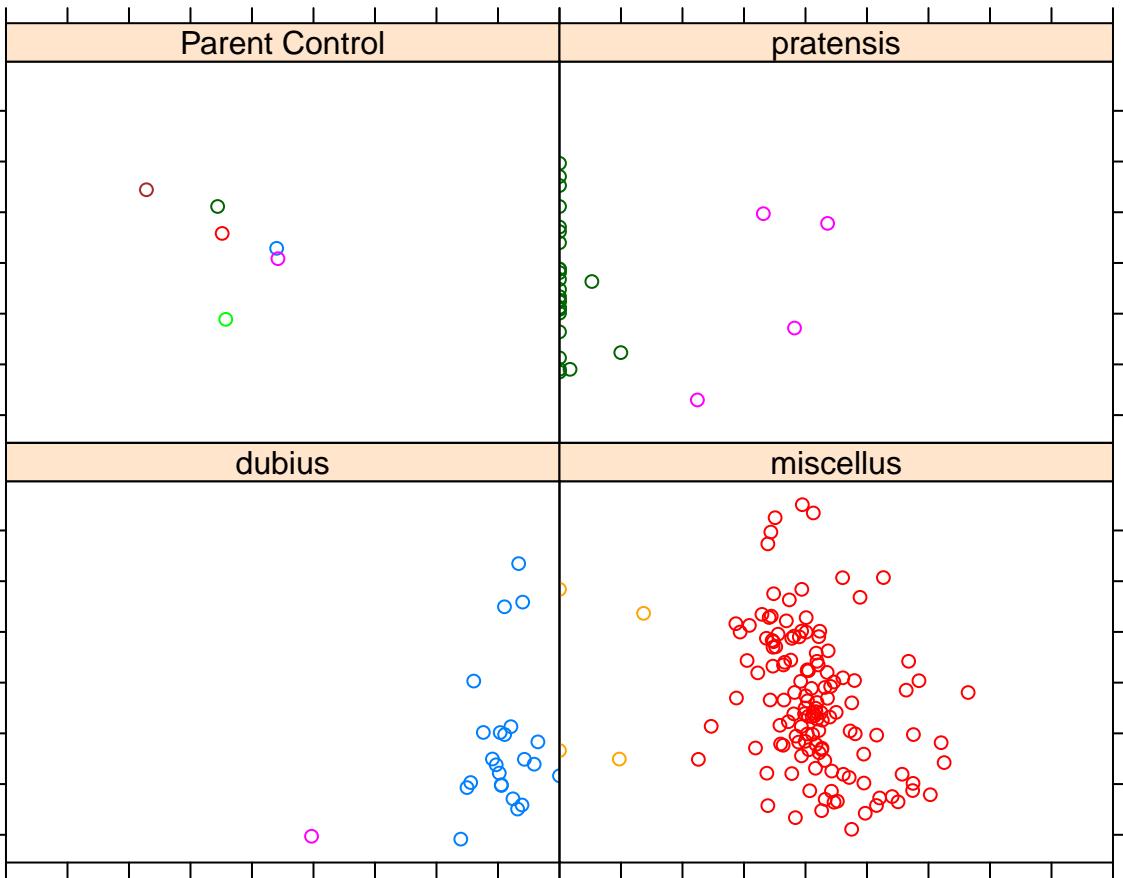
miscellus

radius (arb)

35
30
25
20
15
10
5

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig19574_191 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

radius (arb)

dubius

miscellus

10 20 30 40 50 60 70 80

theta (deg)

25
20
15
10
5

5

V_2_5_isotig19577_138 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

100
90
80
70
60
50
40
30
20
10
0

dubius

mirus

100
90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)

radius (arb)

○

○

○

○

○

○

○

○

○

○

○

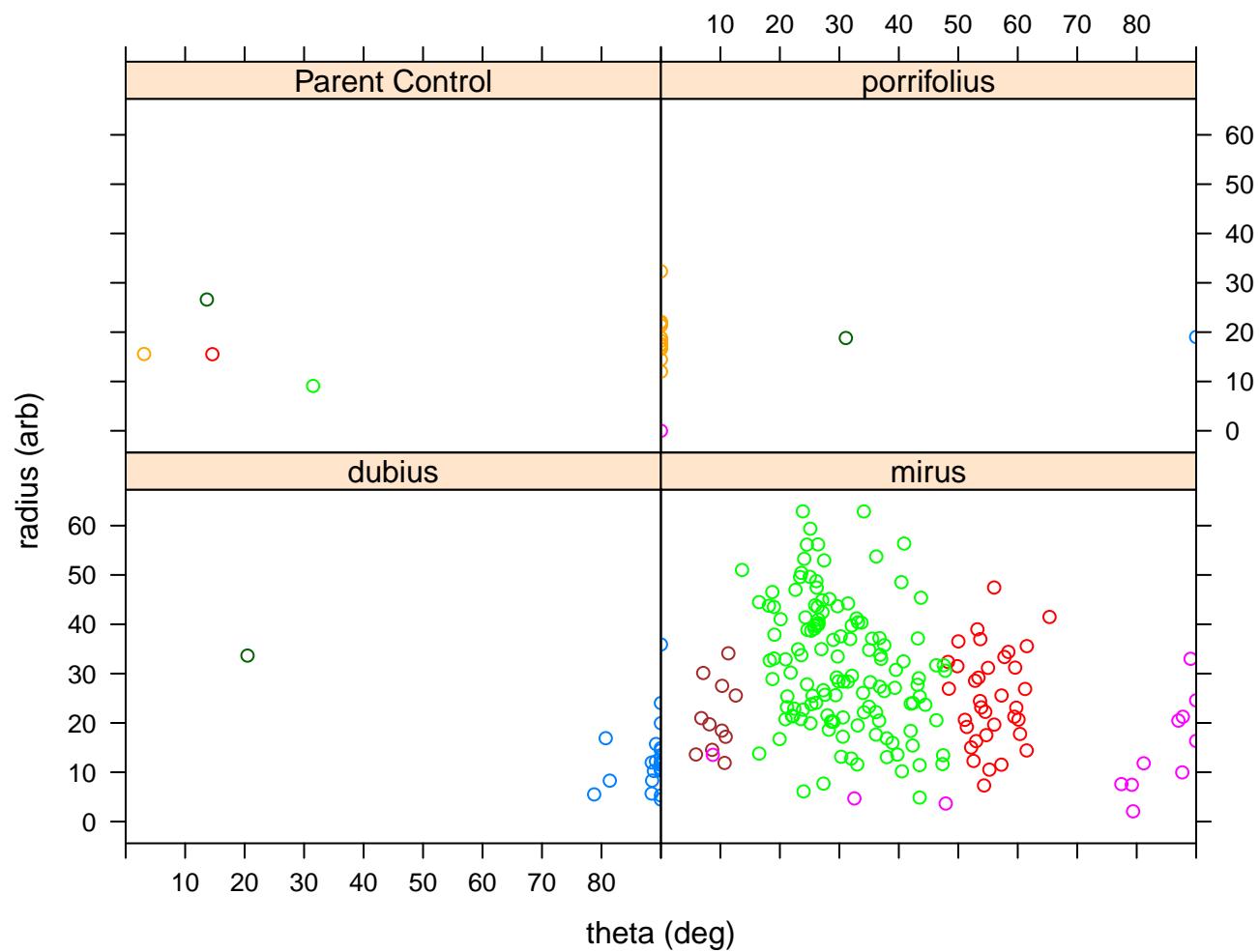
○

○

V_2_5_isotig19577_138 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig19656_274 gDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

110
100
90
80
70
60
50
40
30
20

dubius

miscellus

110
100
90
80
70
60
50
40
30
20

10 20 30 40 50 60 70 80

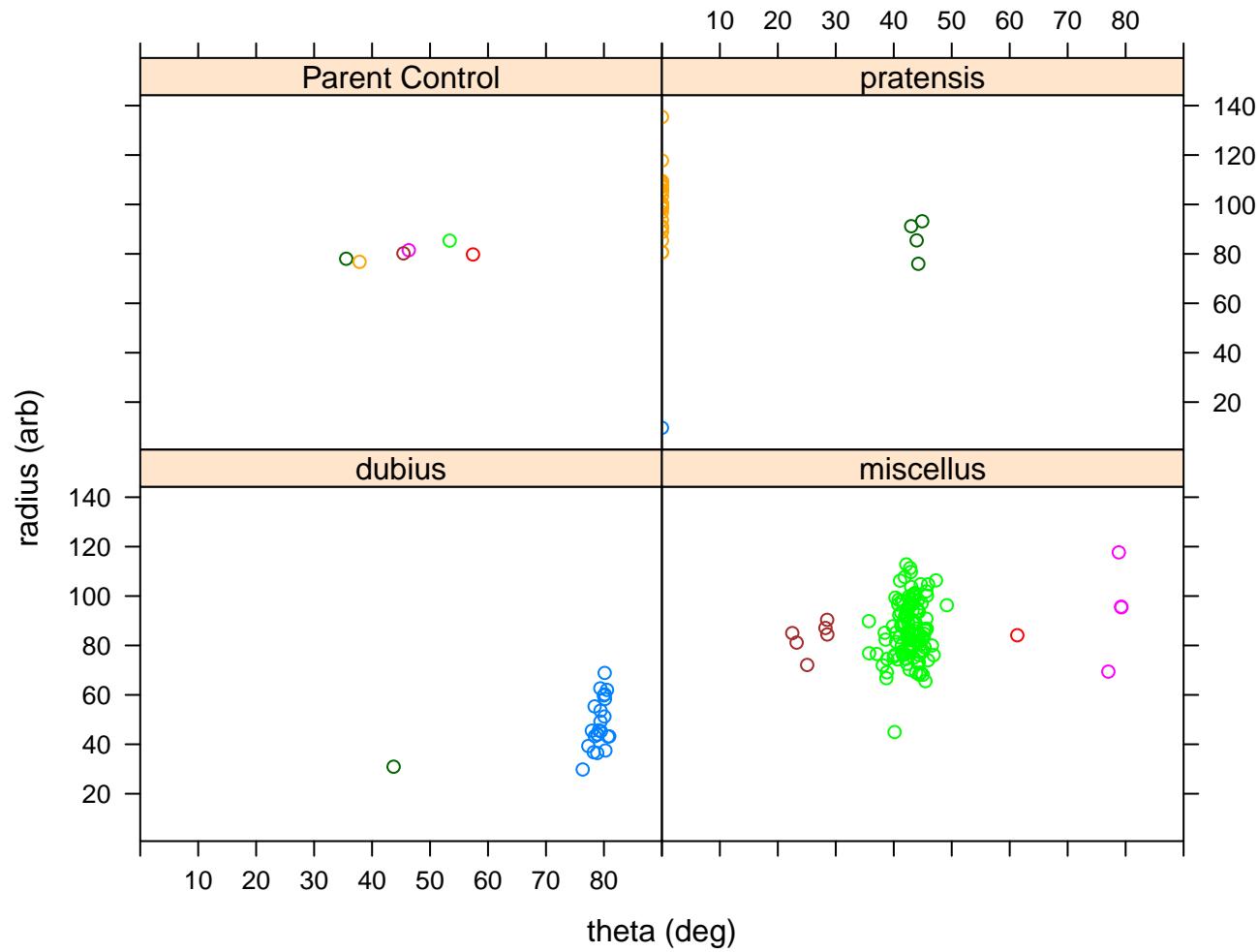
theta (deg)

radius (arb)

V_2_5_isotig19656_274 cDNA

Call

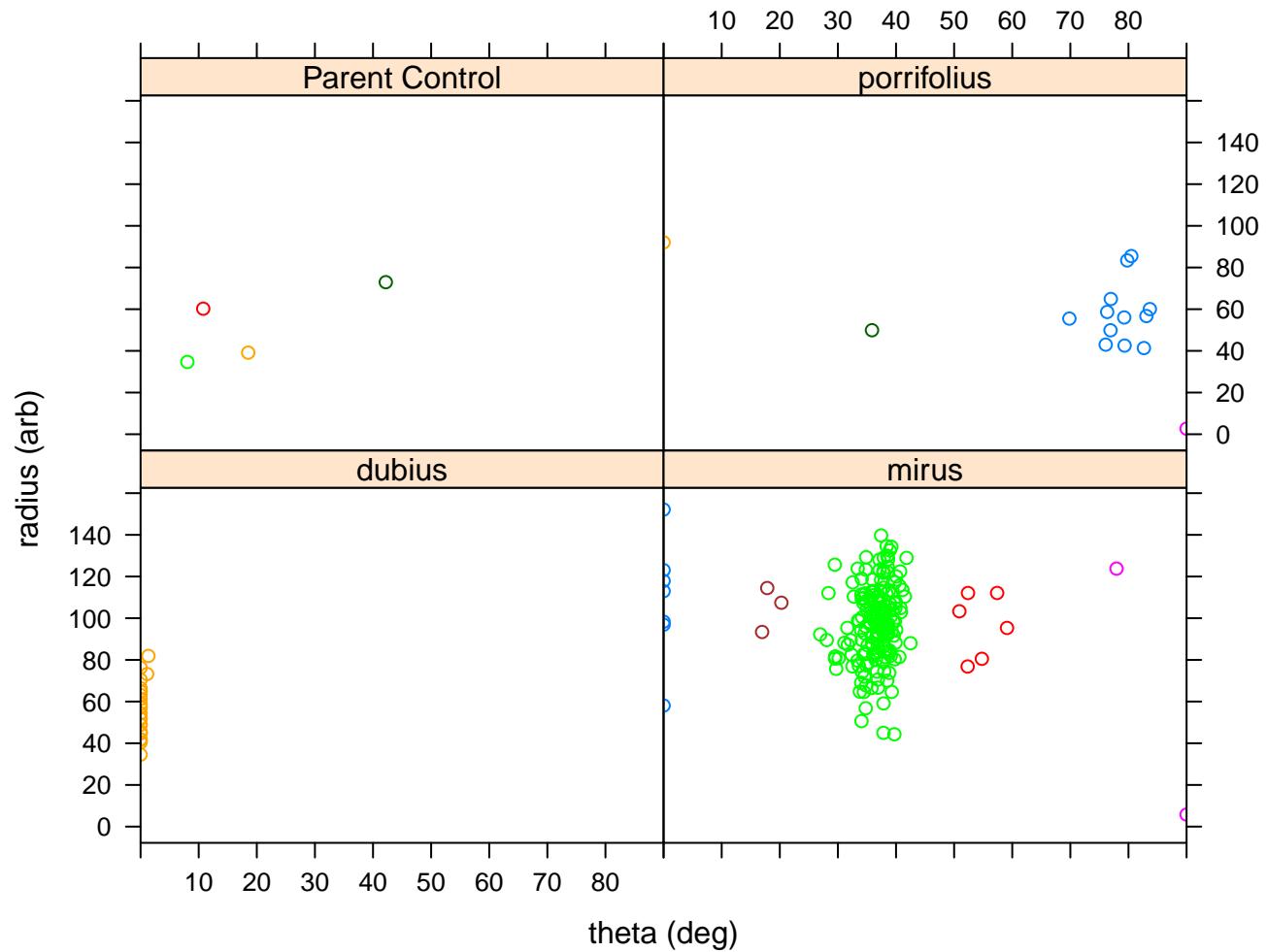
HH	○	No_Aleles
HHHH	○	PM3_1_1
LH	○	PM3_1_2
LHHH	○	PM3_2_1
LL	○	PM4
LLHH	○	PM5
LLLH	○	PM6



V_2_5_isotig19660_258 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig19660_258 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

160
140
120
100
80
60
40
20
0

dubius

mirus

160
140
120
100
80
60
40
20
0

radius (arb)

10 20 30 40 50 60 70 80

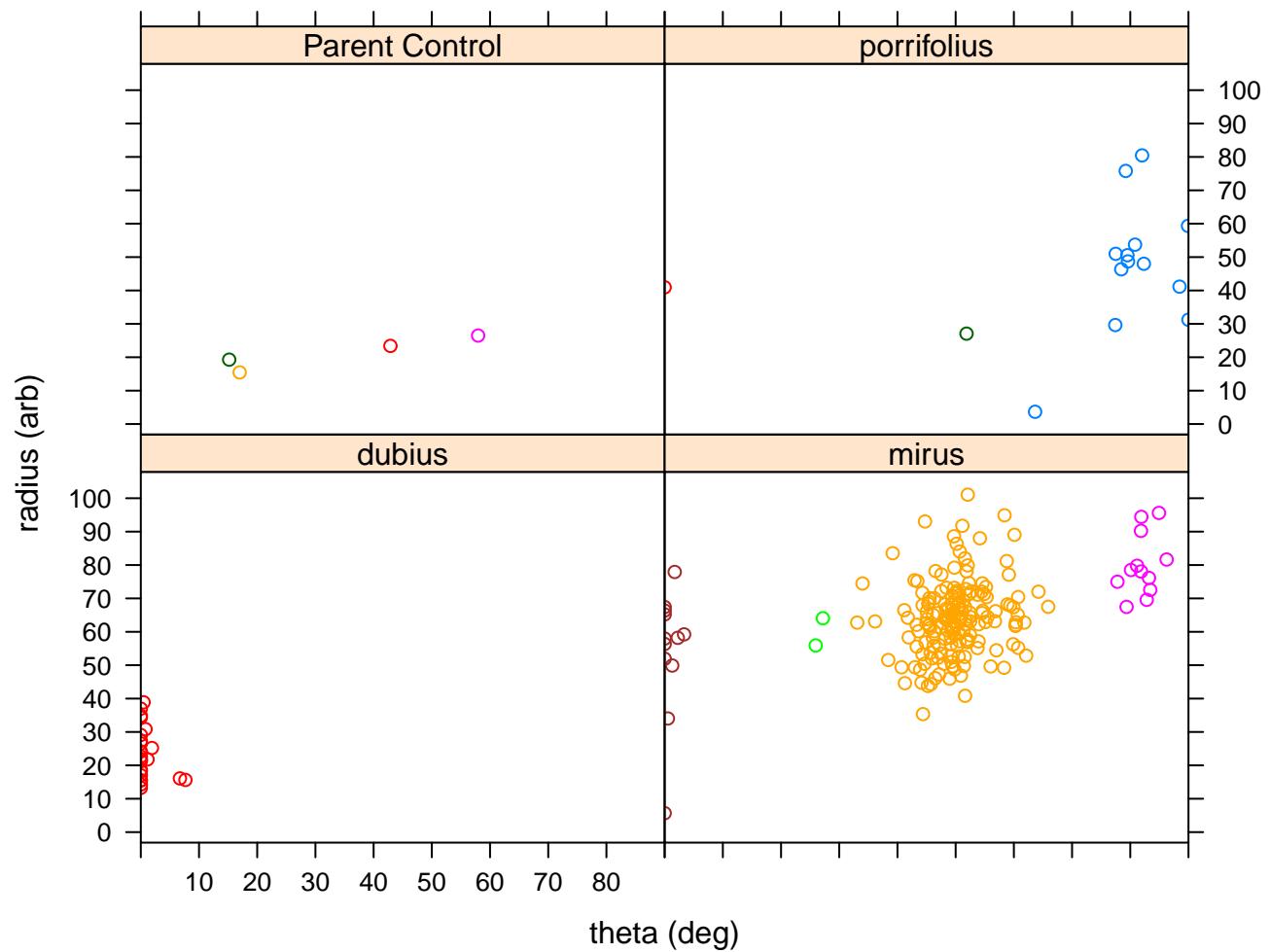
theta (deg)

V_2_5_isotig19697_234 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80



V_2_5_isotig19697_234 cDNA

Call

Bad_Spectrum	LLLL	○
HH	No_Alleles	○
HHHH	PM1	○
LL	PM2_1_1	○
LLHH	PM2_1_2	○
LLLH	PM2_2_1	○

10 20 30 40 50 60 70 80

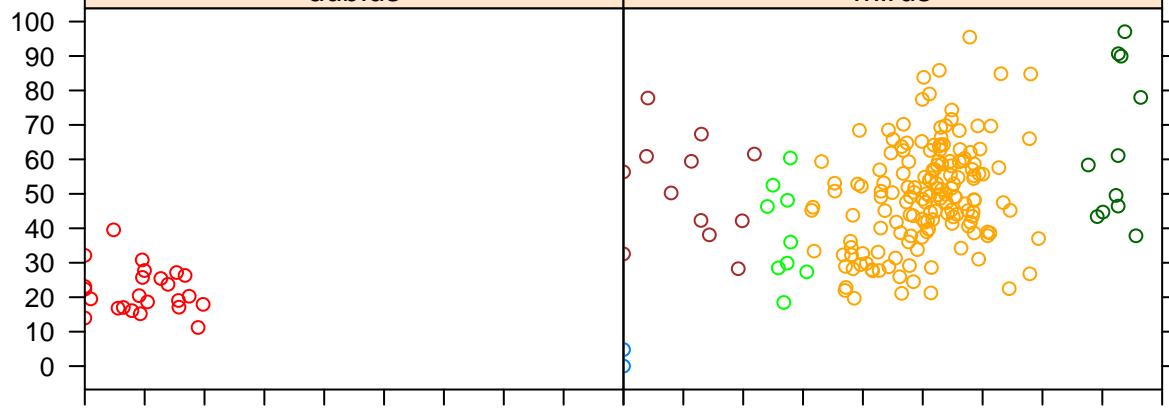
Parent Control

porrifolius

100
90
80
70
60
50
40
30
20
10
0

dubius

mirus



theta (deg)

V_2_5_isotig19723_242 gDNA

Call

HH	○	LLLL	○
LH	○	No_Aleles	○
LHHH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

45
40
35
30
25
20
15
10
5
0

dubius

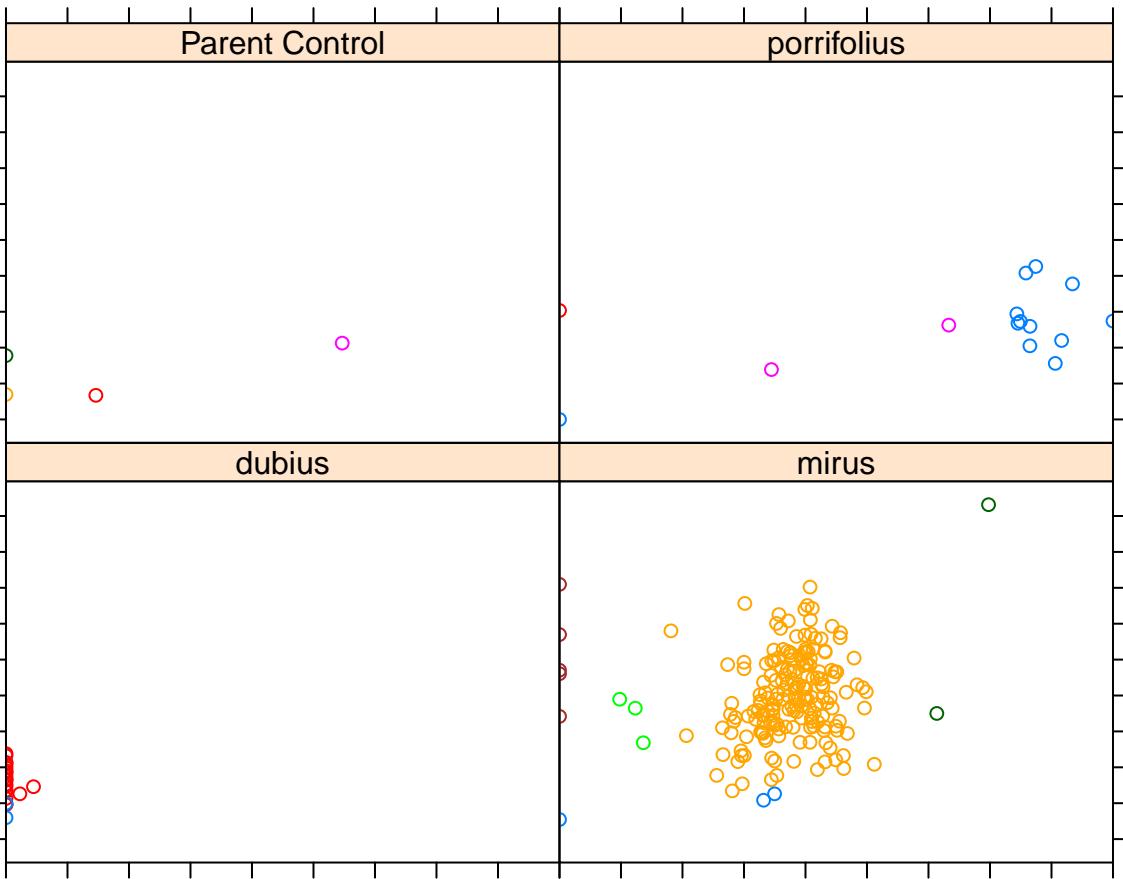
mirus

radius (arb)

45
40
35
30
25
20
15
10
5
0

10 20 30 40 50 60 70 80

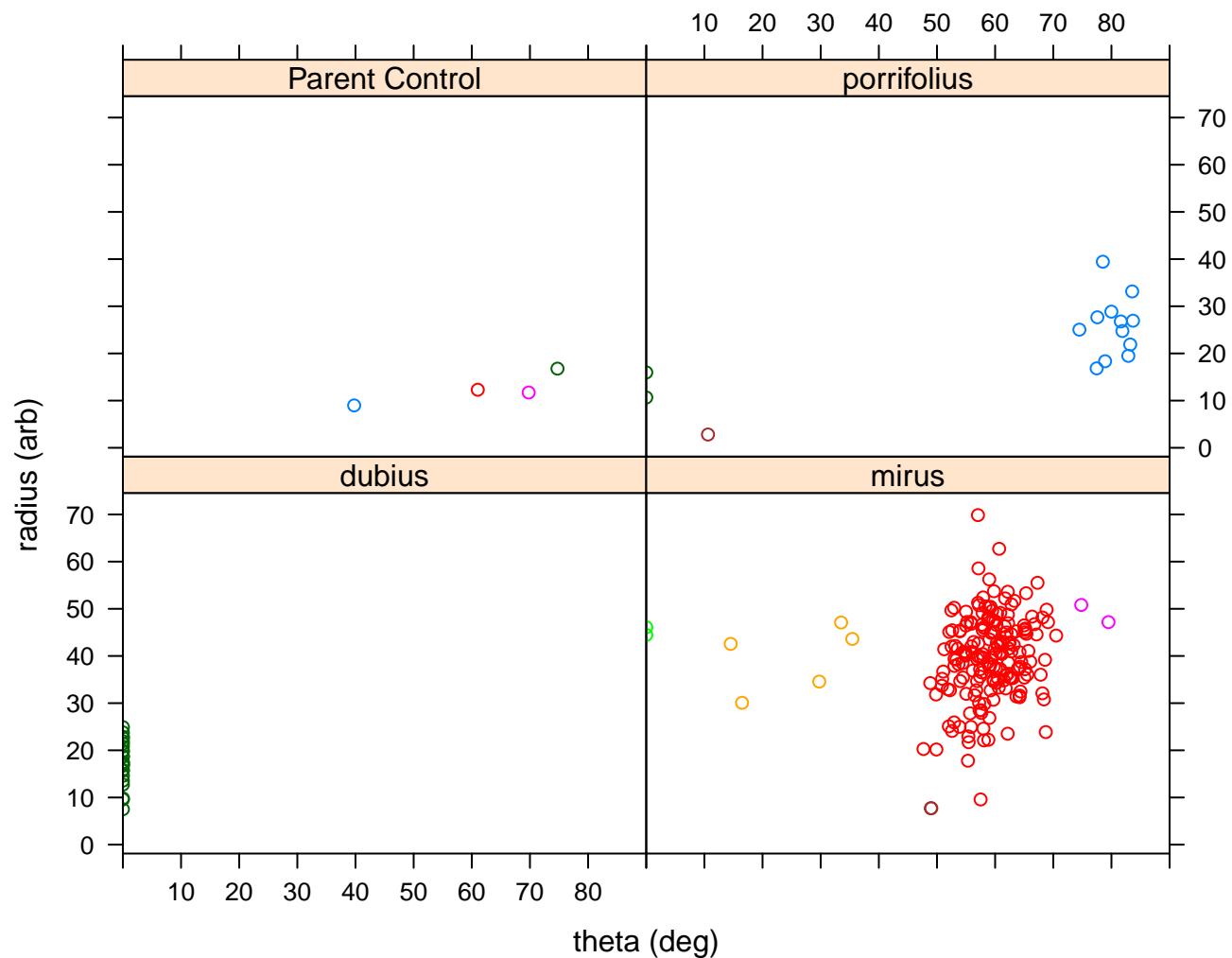
theta (deg)



V_2_5_isotig19723_242 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○
LLLL	○		



V_2_5_isotig19727_263 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

100
90
80
70
60
50
40
30
20

dubius

miscellus

100
90
80
70
60
50
40
30
20

radius (arb)

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig19727_263 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

90
80
70
60
50
40
30
20
10
0

dubius

miscellus

90
80
70
60
50
40
30
20
10
0

radius (arb)

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig19779_303 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

radius (arb)

90
80
70
60
50
40
30
20
10

dubius

miscellus

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig19779_303 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

90
80
70
60
50
40
30
20
10
0

dubius

miscellus

radius (arb)

90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig19838_128 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

140
120
100
80
60
40
20
0

dubius

miscellus

radius (arb)

140
120
100
80
60
40
20
0

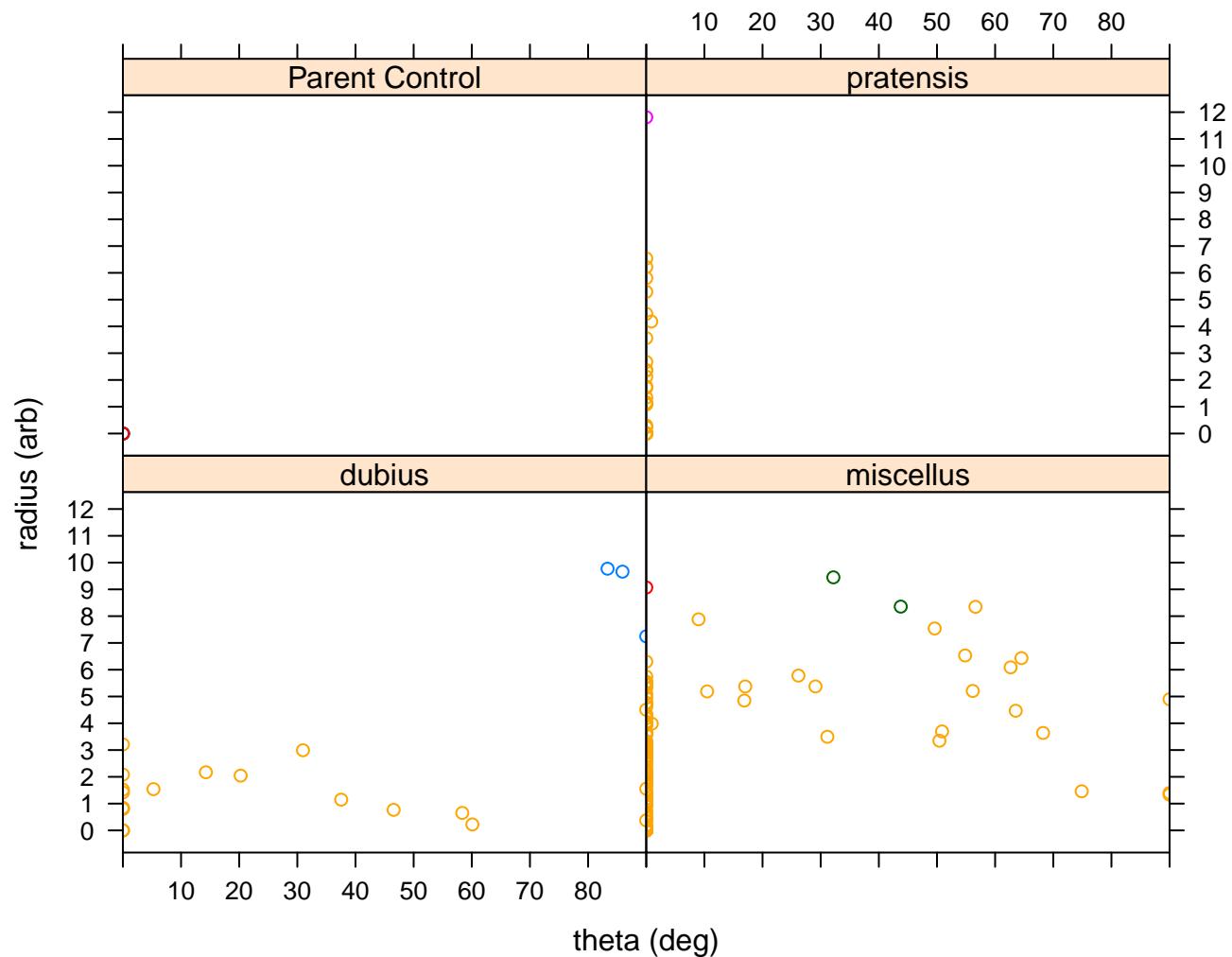
10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig19838_42 gDNA

Call

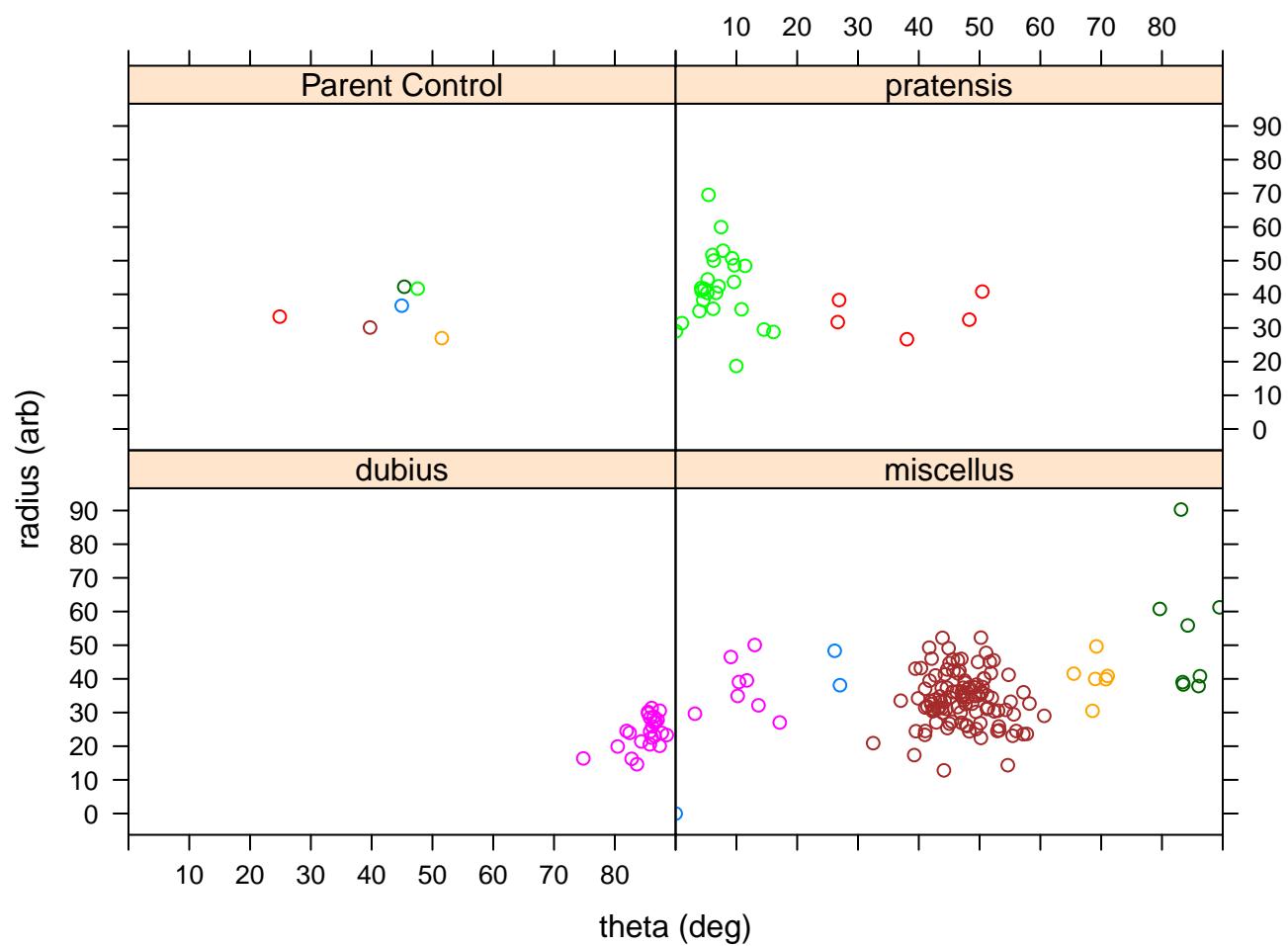
HH	○	PM3_1_2	○
LL	○	PM3_2_1	○
LLHH	○	PM4	○
LLLL	○	PM5	○
No_Alleles	○	PM6	○
PM3_1_1	○		



V_2_5_isotig19856_274 gDNA

Call

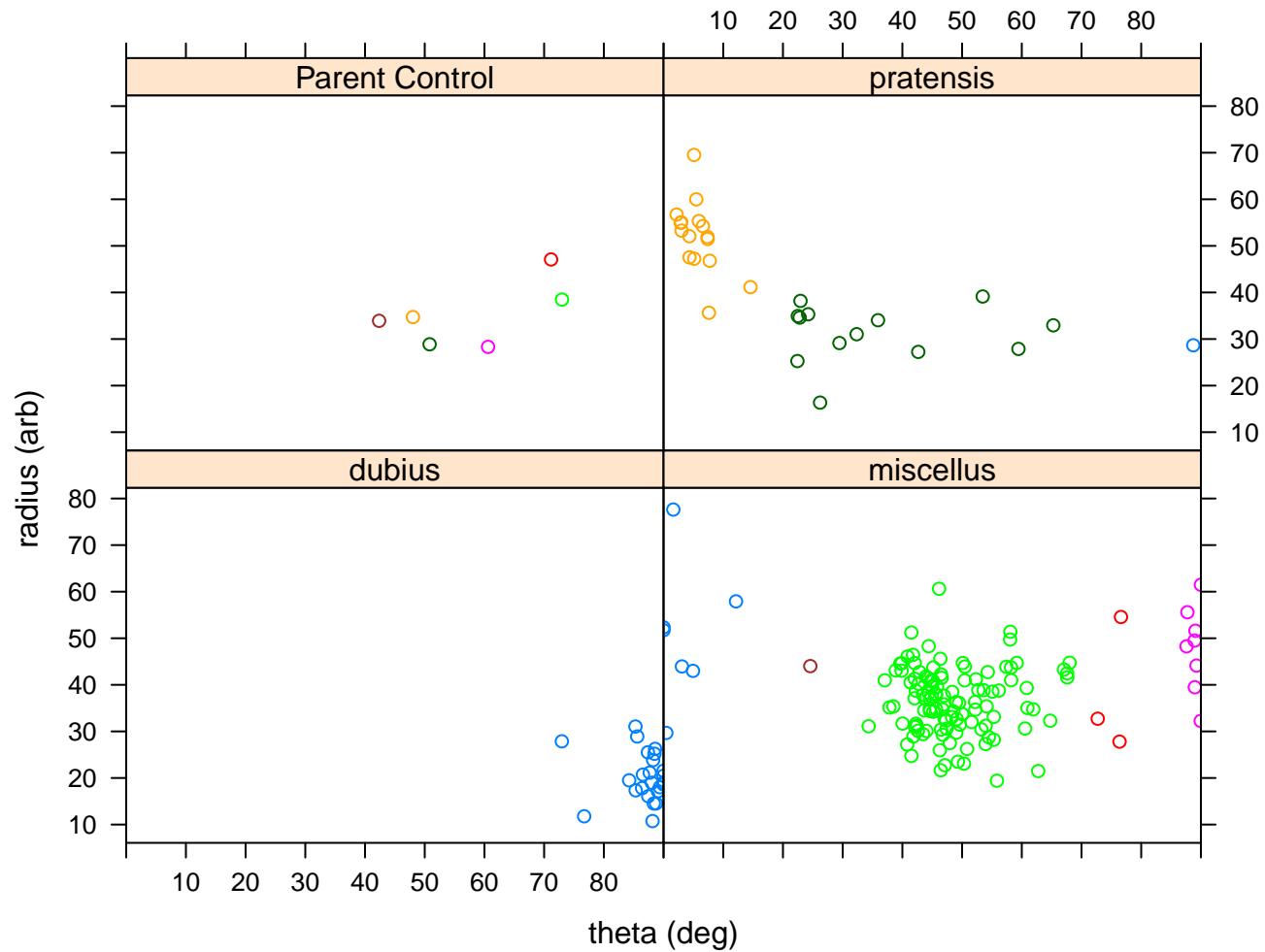
Bad_Spectrum	LLLL	Bad_Spectrum	LLLL	Bad_Spectrum	LLLL
HH	PM3_1_1	HH	PM3_1_1	HH	PM3_1_1
HHHH	PM3_1_2	HHHH	PM3_1_2	HHHH	PM3_1_2
LH	PM3_2_1	LH	PM3_2_1	LH	PM3_2_1
LHHH	PM4	LHHH	PM4	LHHH	PM4
LL	PM5	LL	PM5	LL	PM5
LLHH	PM6	LLHH	PM6	LLHH	PM6
LLLH		LLLH		LLLH	



V_2_5_isotig19856_274 cDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○



V_2_5_isotig19865_84 gDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

45
40
35
30
25
20
15
10

dubius

miscellus

radius (arb)

45
40
35
30
25
20
15
10

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig19865_84 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LL	○	PM3_2_1	○
LLHH	○	PM4	○
LLLH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

110
100
90
80
70
60
50
40
30
20
10
0

dubius

miscellus

110
100
90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

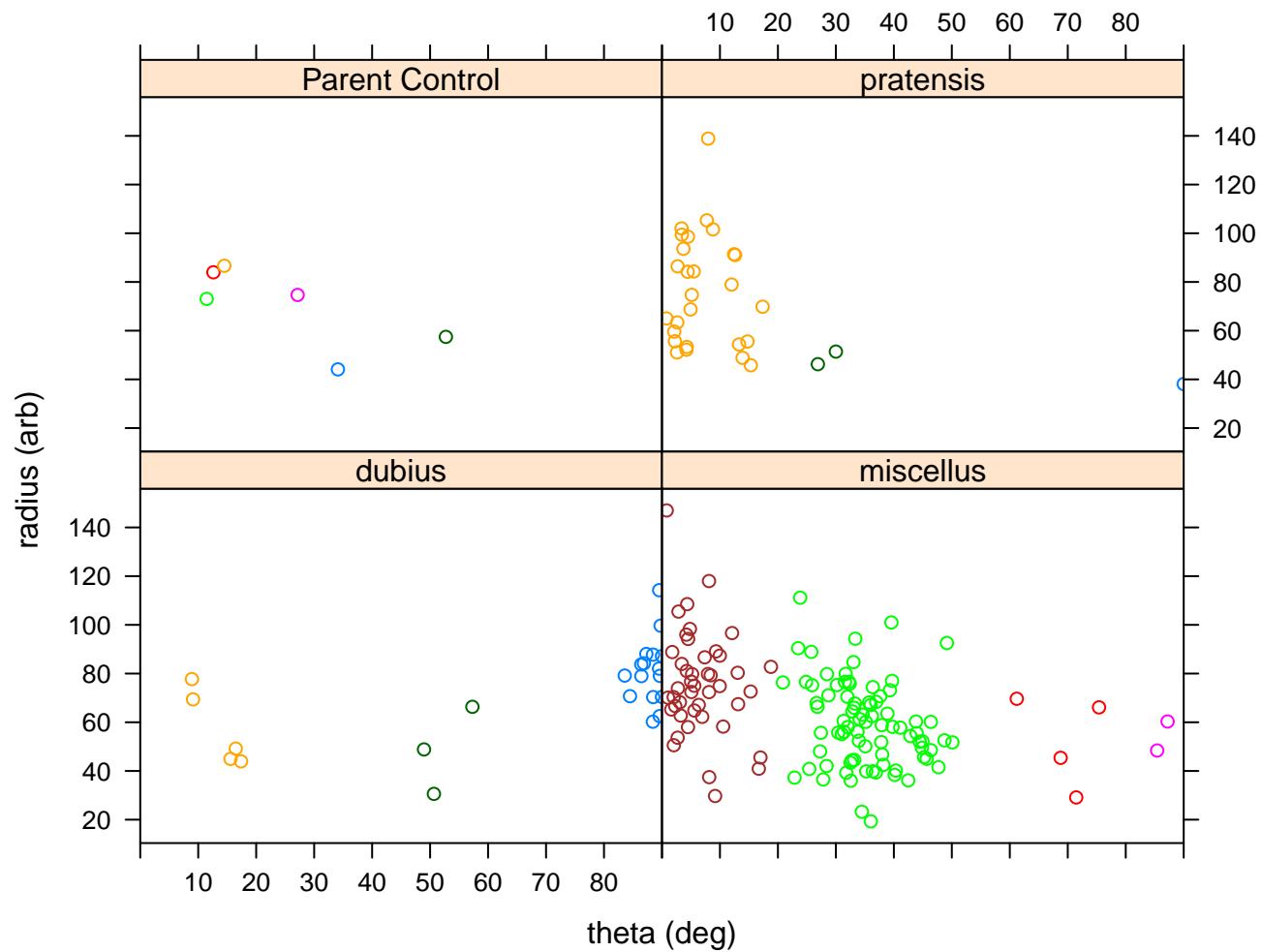
theta (deg)

radius (arb)

V_2_5_isotig19891_136 cDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LHHH	○	PM4	○
LL	○	PM5	○
LLHH	○	PM6	○
LLLL	○		



V_2_5_isotig19891_263 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LL	○	PM3_2_1	○
LLHH	○	PM4	○
LLLH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

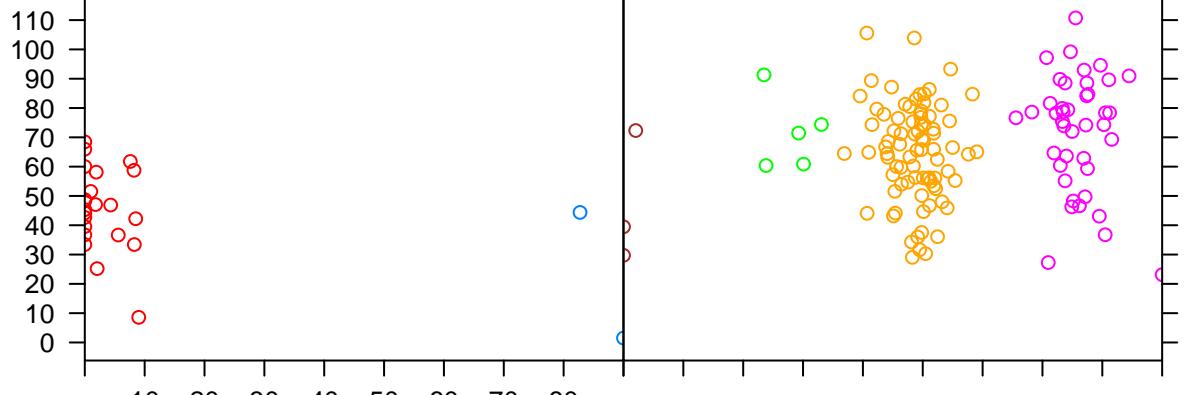
Parent Control

pratensis

110
100
90
80
70
60
50
40
30
20
10
0

dubius

miscellus

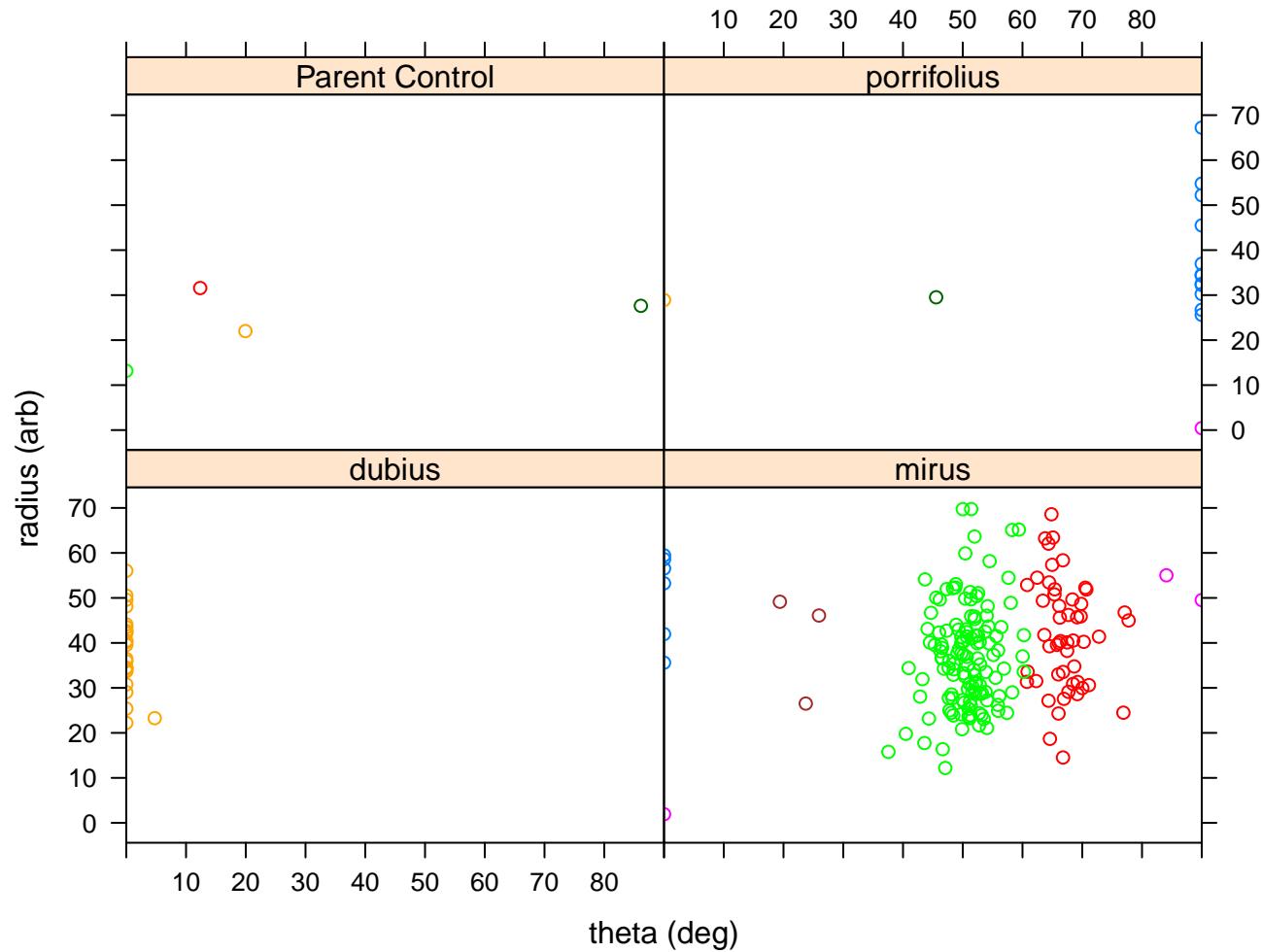


theta (deg)

V_2_5_isotig19916_70 gDNA

Call

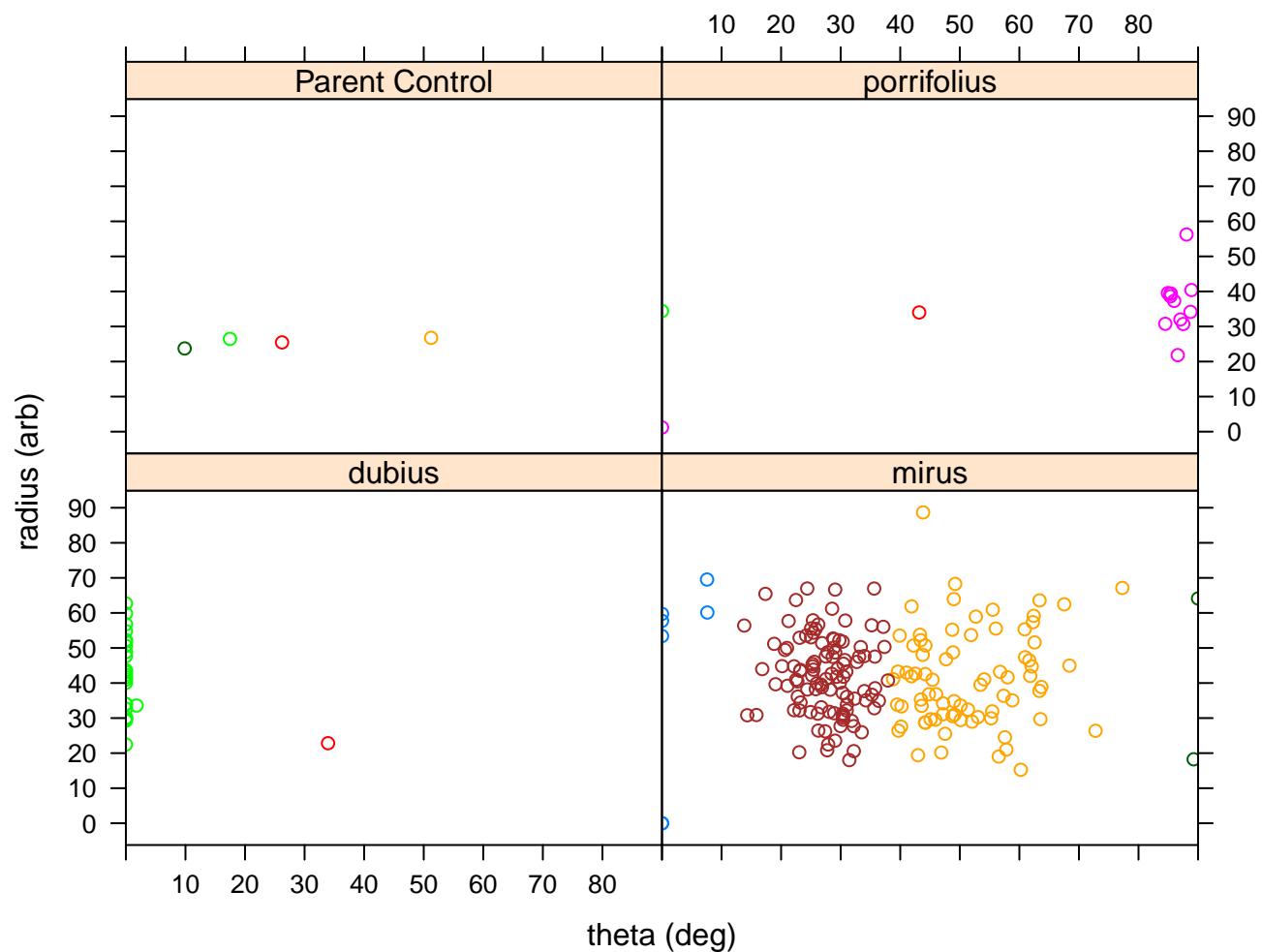
HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig19916_70 cDNA

Call

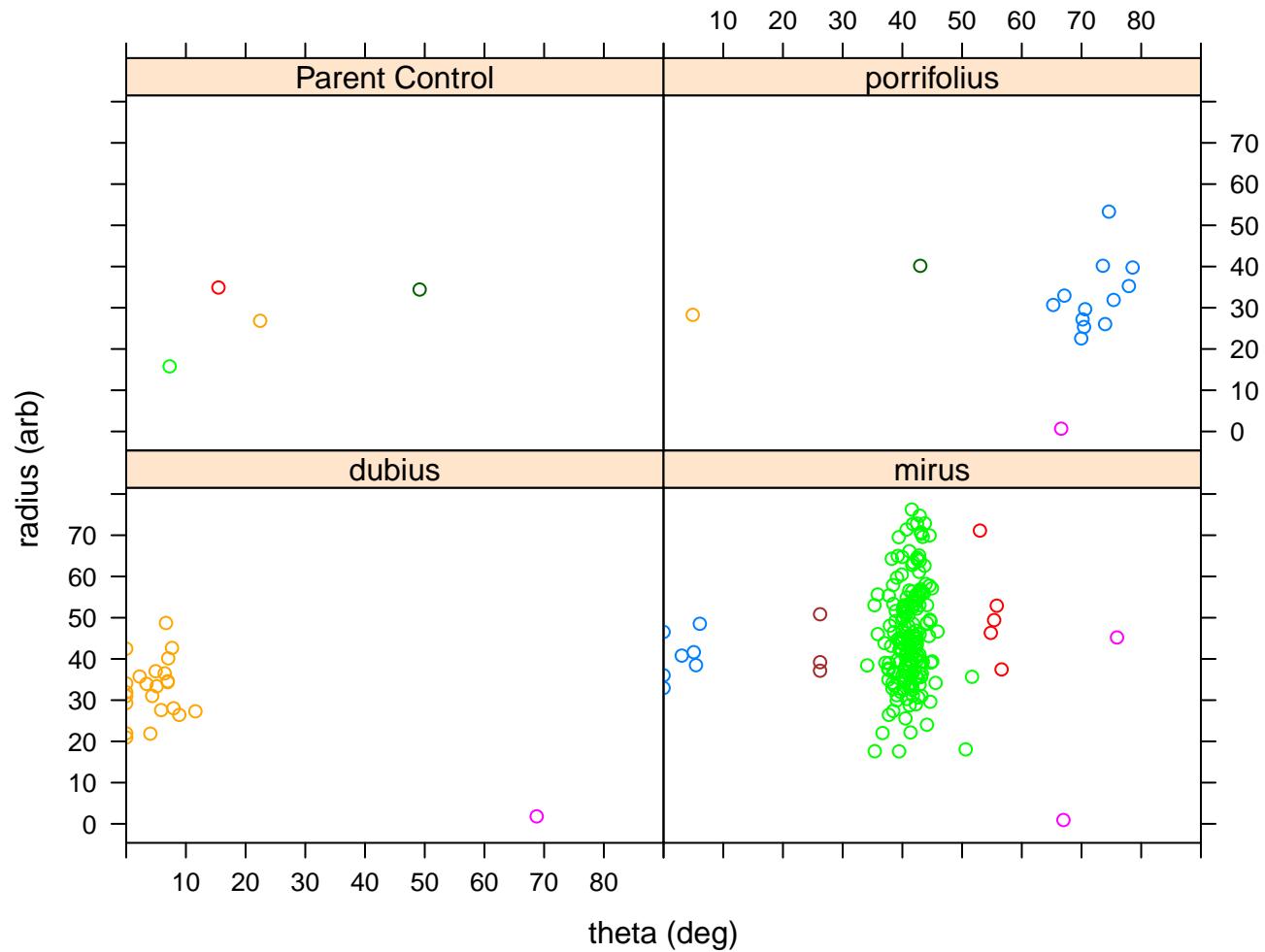
Bad_Spectrum	○	LLLL	○
HH	○	No_Alleles	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LHHH	○	PM2_1_2	○
LL	○	PM2_2_1	○
LLHH	○		



V_2_5_isotig19917_73 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig19917_73 cDNA

Call

Bad_Spectrum	○	LLLL	○
HH	○	No_Alleles	○
HHHH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

120
110
100
90
80
70
60
50
40
30
20
10
0

dubius

mirus

120
110
100
90
80
70
60
50
40
30
20
10
0

radius (arb)

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig19973_292 gDNA

Call

Bad_Spectrum	○	LLLL	○
HH	○	No_Alleles	○
HHHH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

radius (arb)

80
70
60
50
40
30
20
10
0

dubius

mirus

80

70

60

50

40

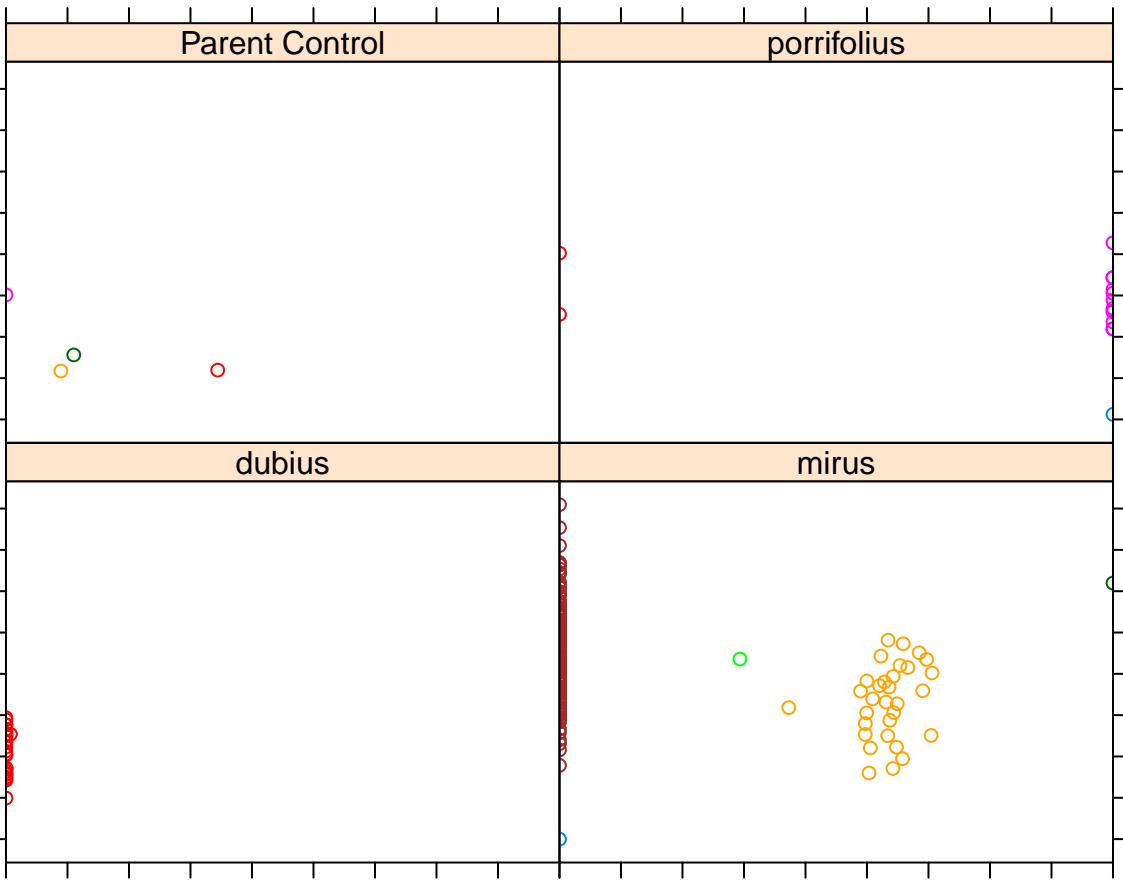
30

20

10

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig19973_292 cDNA

Call

HH	○	LLLL	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

radius (arb)

dubius

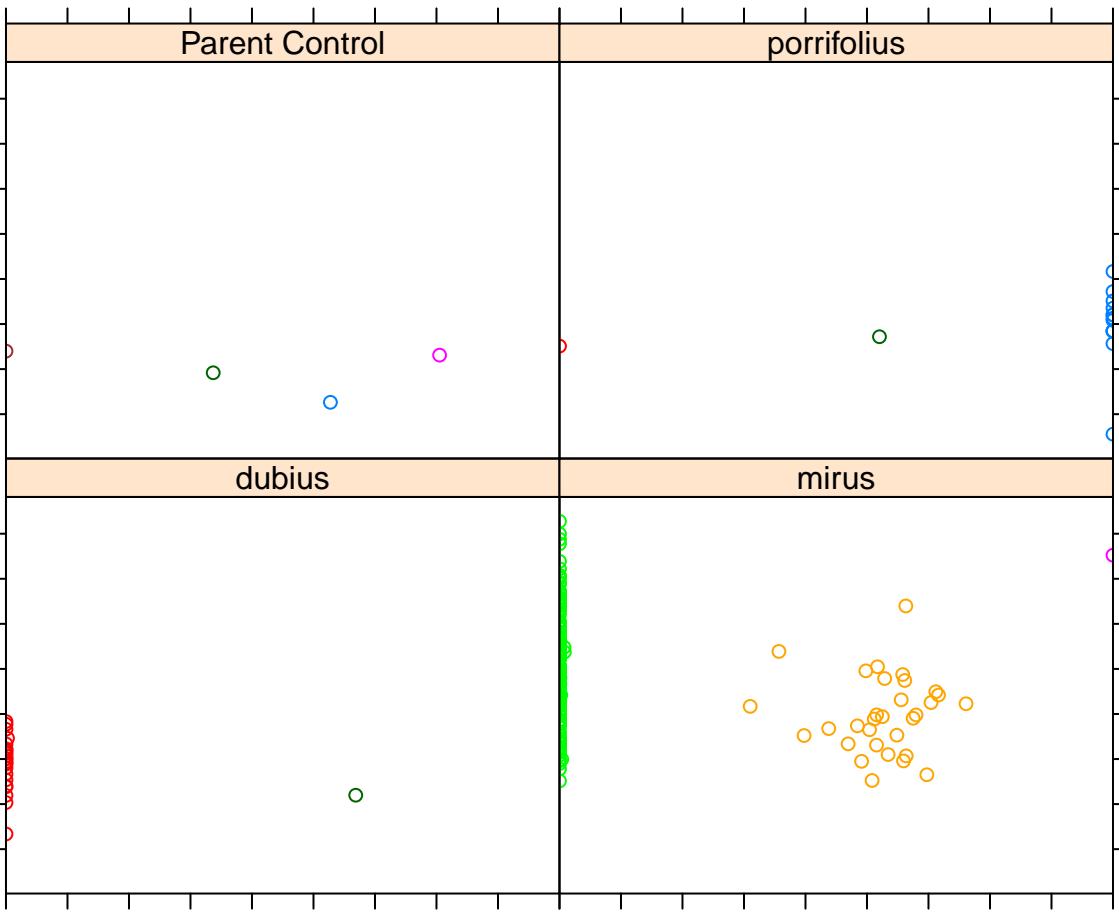
mirus

80
70
60
50
40
30
20
10

10 20 30 40 50 60 70 80

theta (deg)

80
70
60
50
40
30
20
10



V_2_5_isotig19973_332 gDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLL	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

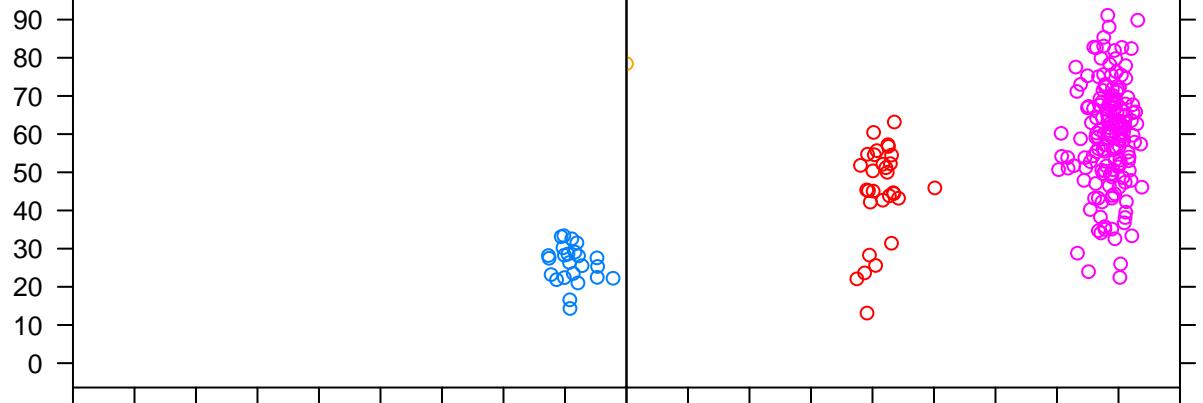
porrifolius

90
80
70
60
50
40
30
20
10
0

radius (arb)

dubius

mirus

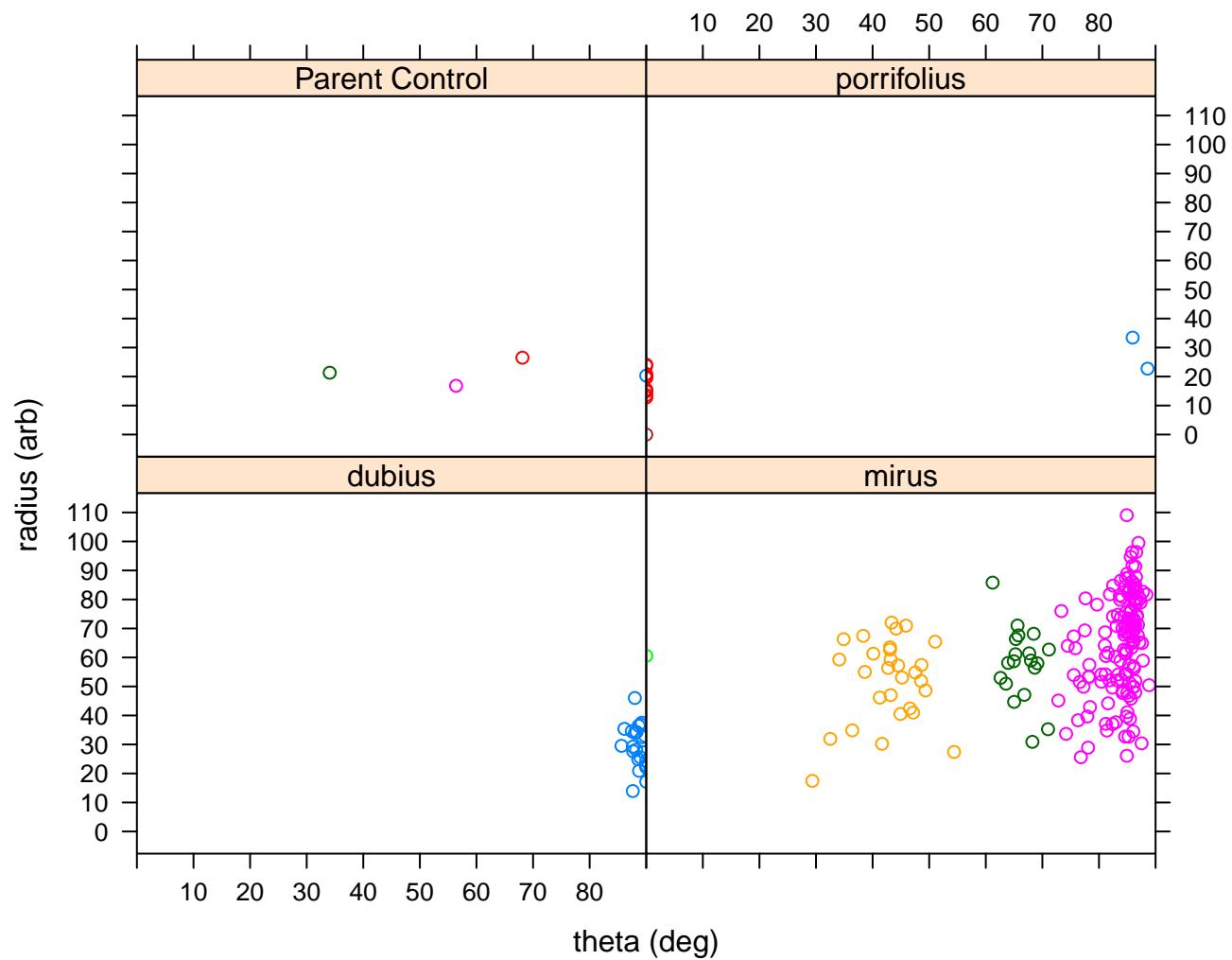


theta (deg)

V_2_5_isotig19973_332 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLL	○		○



V_2_5_isotig19998_111 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

radius (arb)

70
60
50
40
30
20
10
0

dubius

mirus

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig19998_111 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

90
80
70
60
50
40
30
20
10
0

dubius

mirus

radius (arb)

90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)

90
80
70
60
50
40
30
20
10
0

V_2_5_isotig20043_168 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

radius (arb)

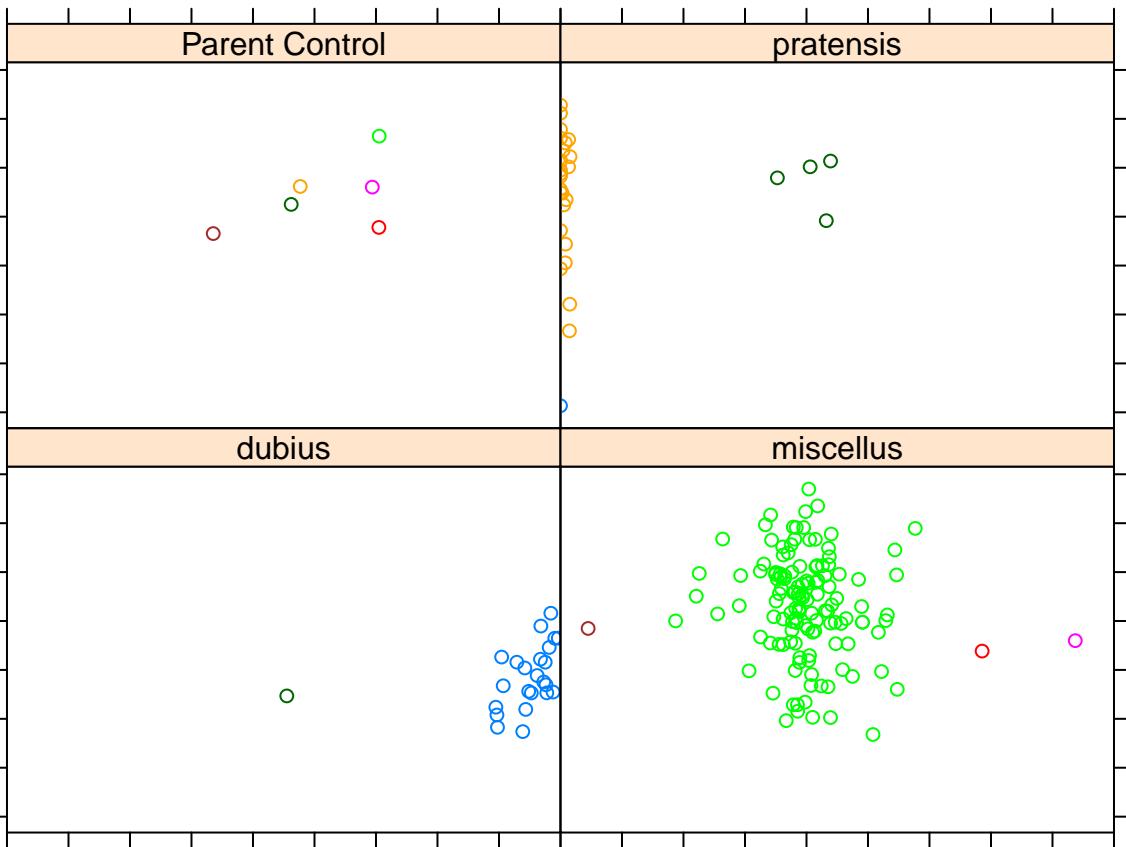
70
60
50
40
30
20
10
0

dubius

miscellus

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig20049_56 gDNA

Call

HH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

radius (arb)

60
55
50
45
40
35
30
25
20
15
10

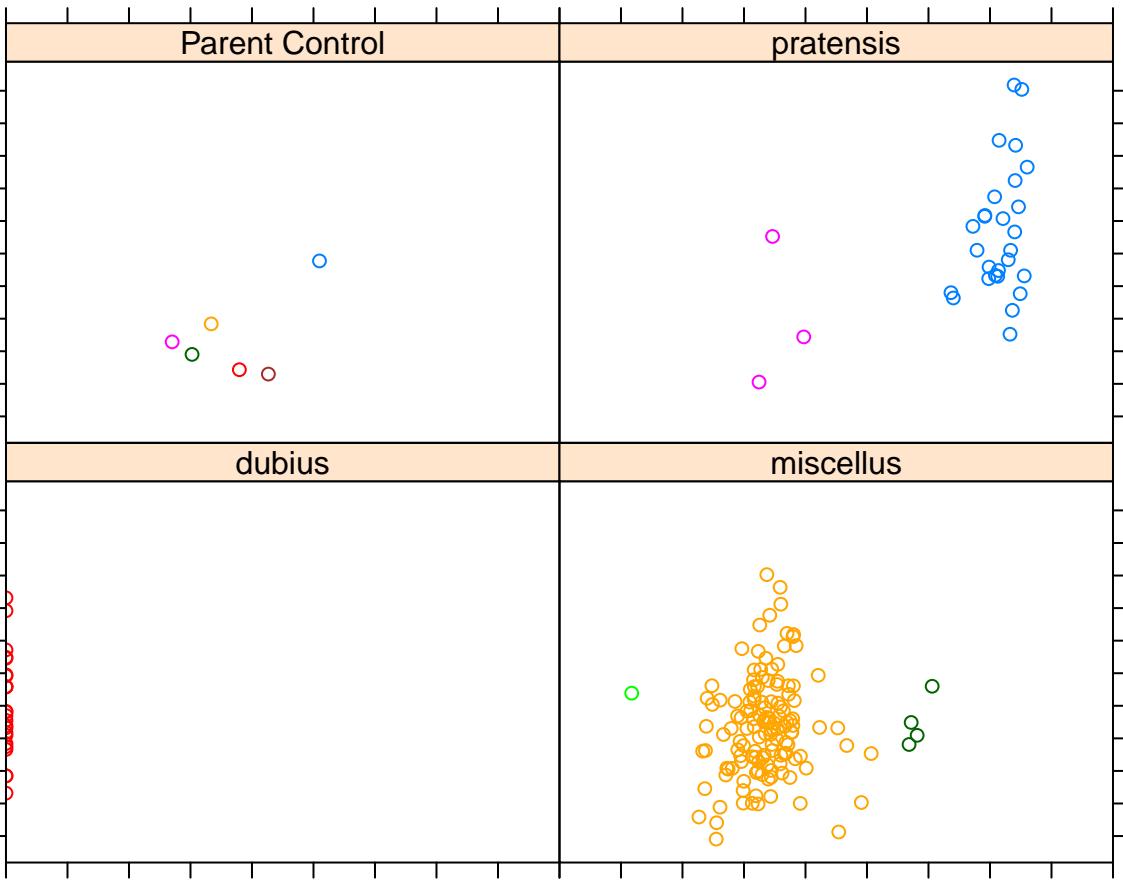
dubius

miscellus

60
55
50
45
40
35
30
25
20
15
10

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig20049_56 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

70
60
50
40
30
20
10
0

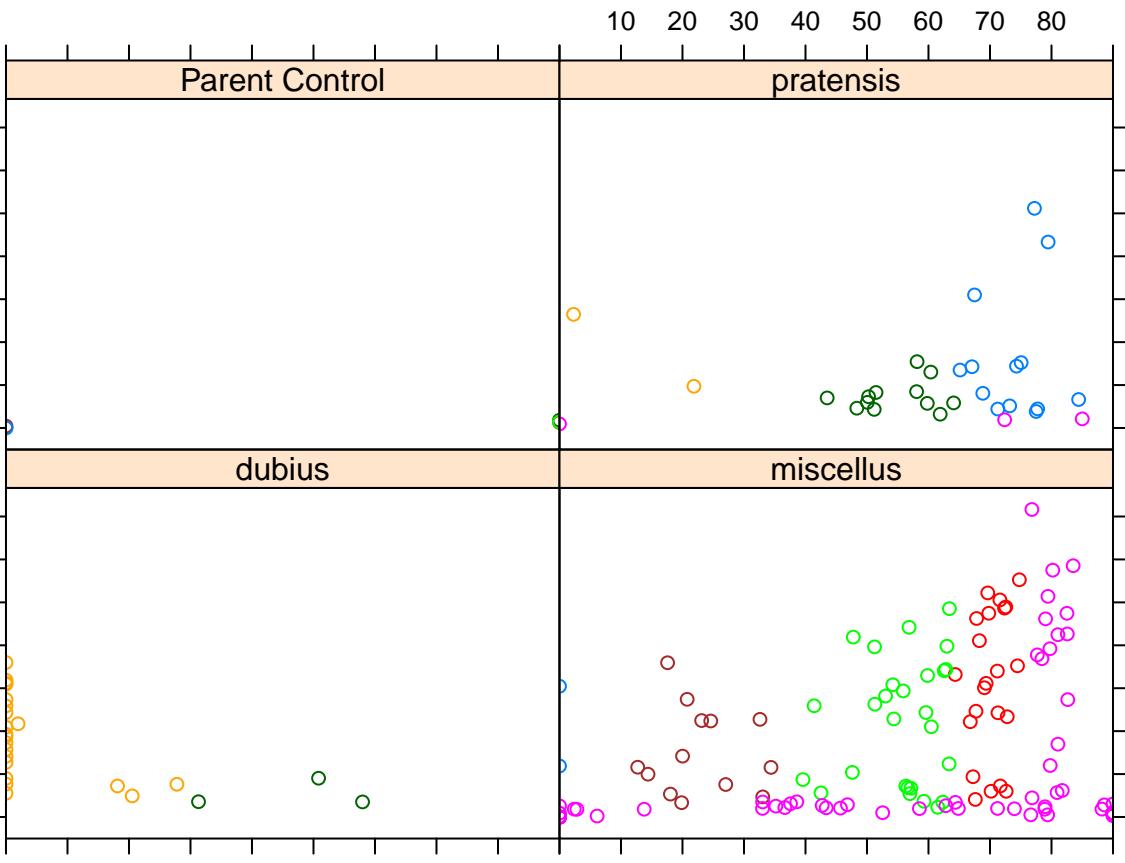
dubius

miscellus

radius (arb)

10 20 30 40 50 60 70 80

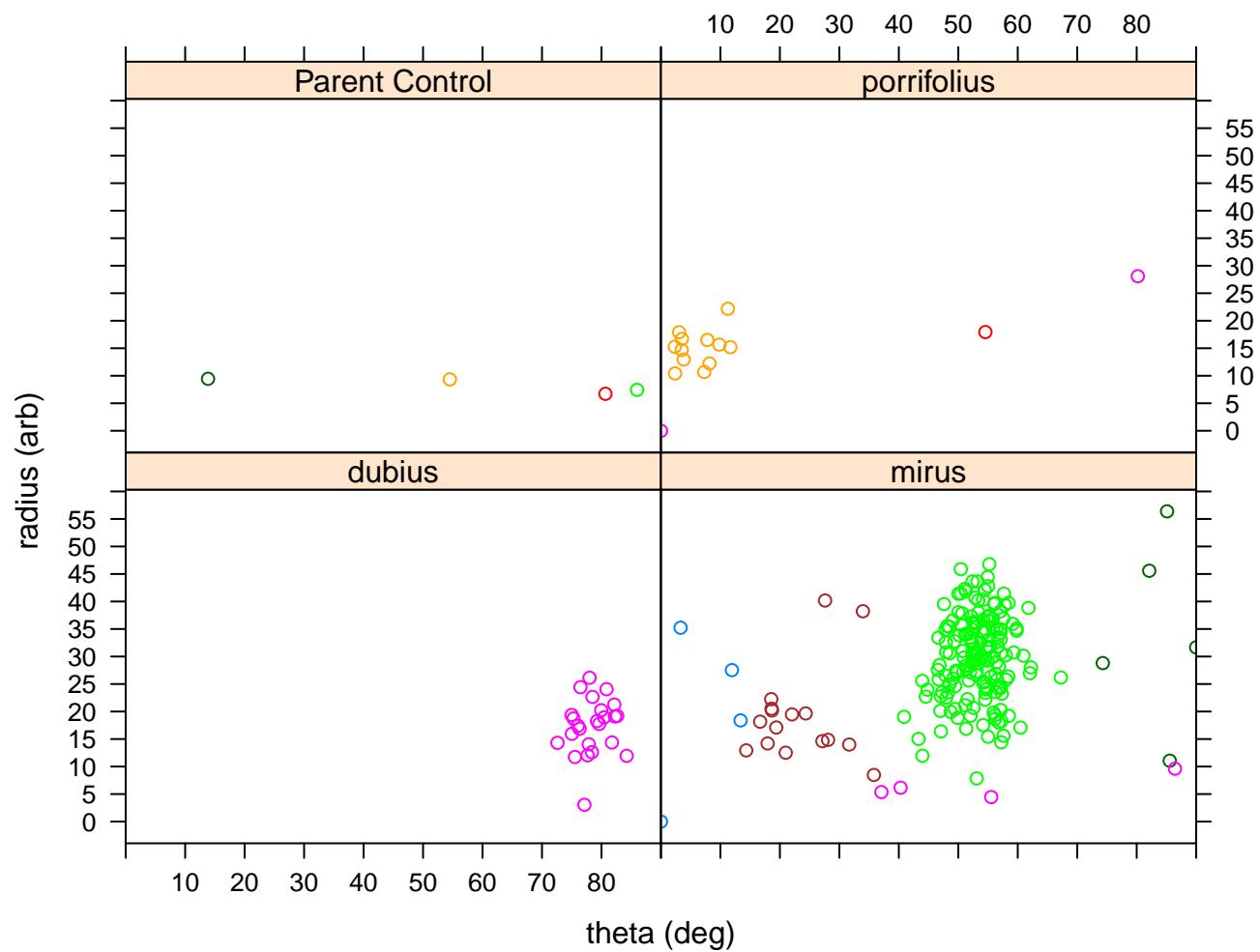
theta (deg)



V_2_5_isotig20095_121 gDNA

Call

Bad_Spectrum	○	LLLL	○
HH	○	No_Alleles	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig20095_121 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

radius (arb)

40
35
30
25
20
15
10
5
0

dubius

mirus

40
35
30
25
20
15
10
5
0

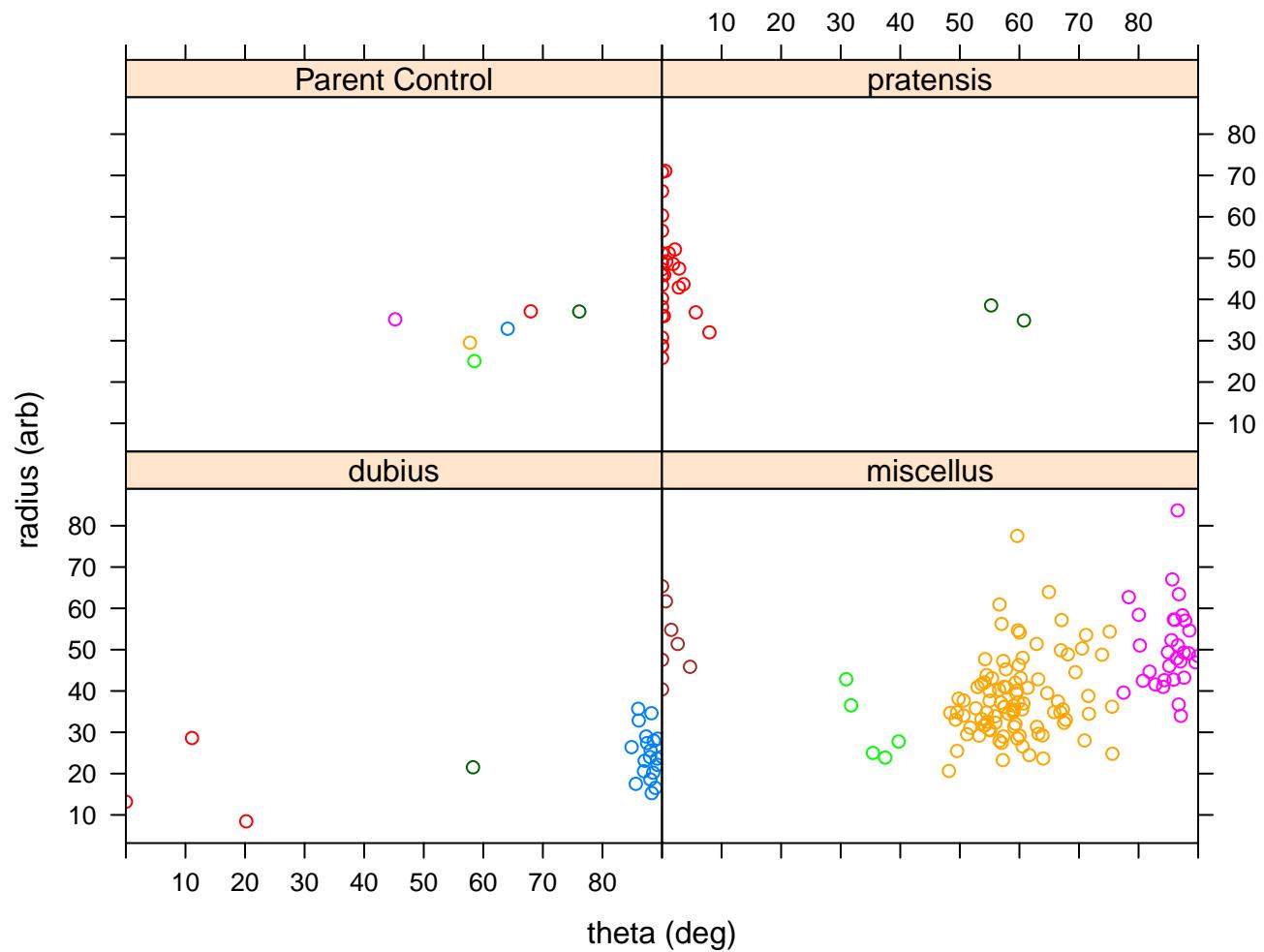
10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig20103_116 gDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		



V_2_5_isotig20103_116 cDNA

Call

Bad_Spectrum	○	No_Alleles	○
HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

90
80
70
60
50
40
30
20
10
0

dubius

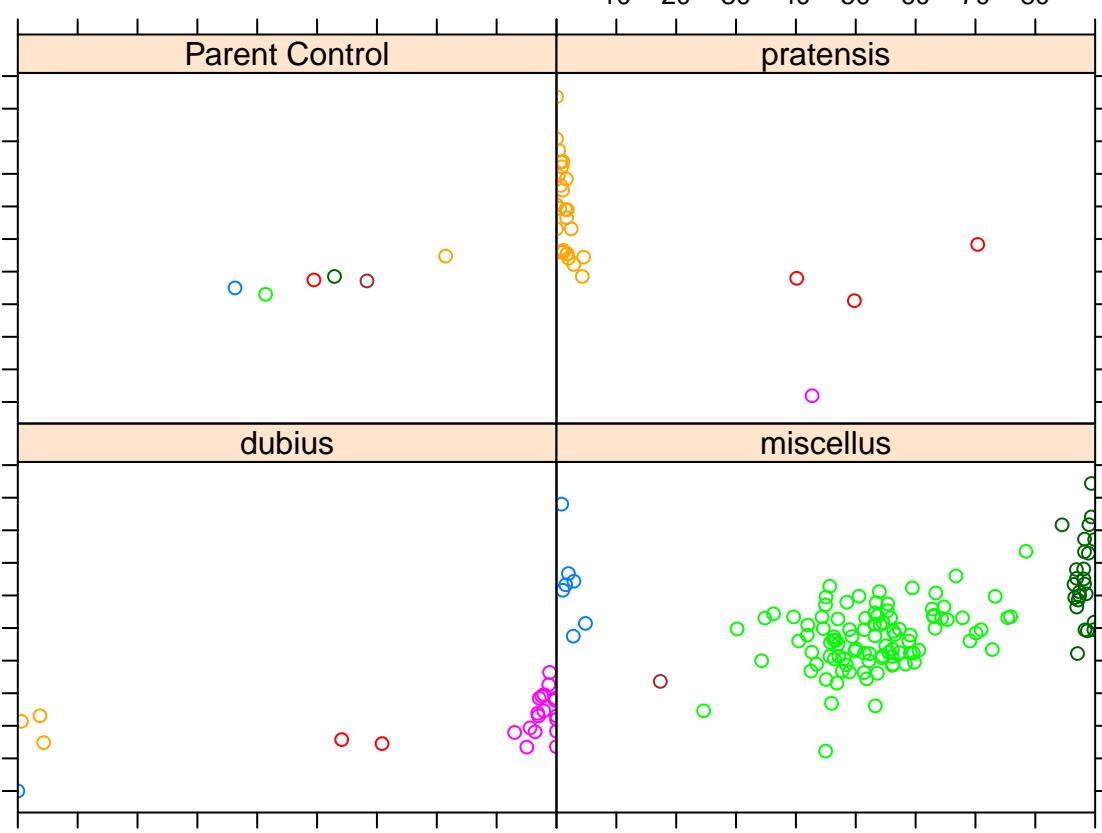
miscellus

90
80
70
60
50
40
30
20
10
0

radius (arb)

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig20137_226 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

110
100
90
80
70
60
50
40
30
20
10
0

dubius

mirus

radius (arb)

110
100
90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig20137_226 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

140
120
100
80
60
40
20
0

dubius

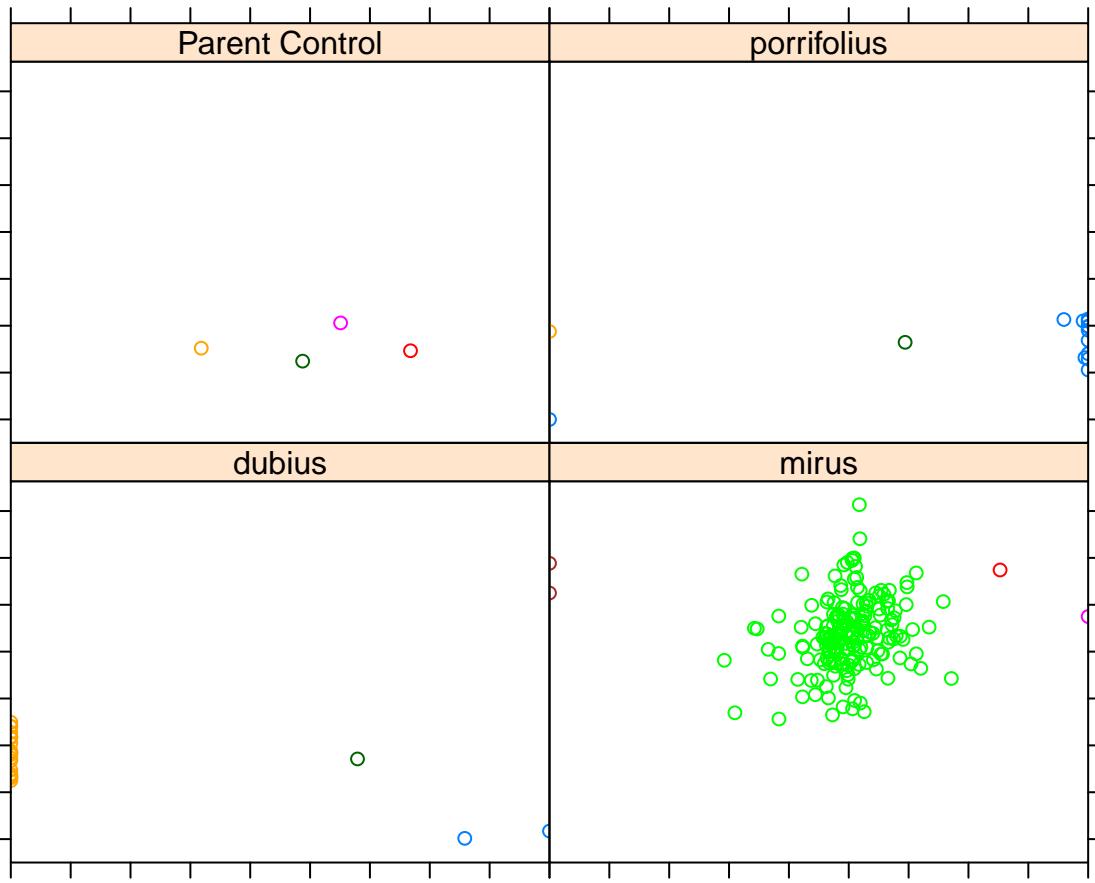
mirus

140
120
100
80
60
40
20
0

10 20 30 40 50 60 70 80

theta (deg)

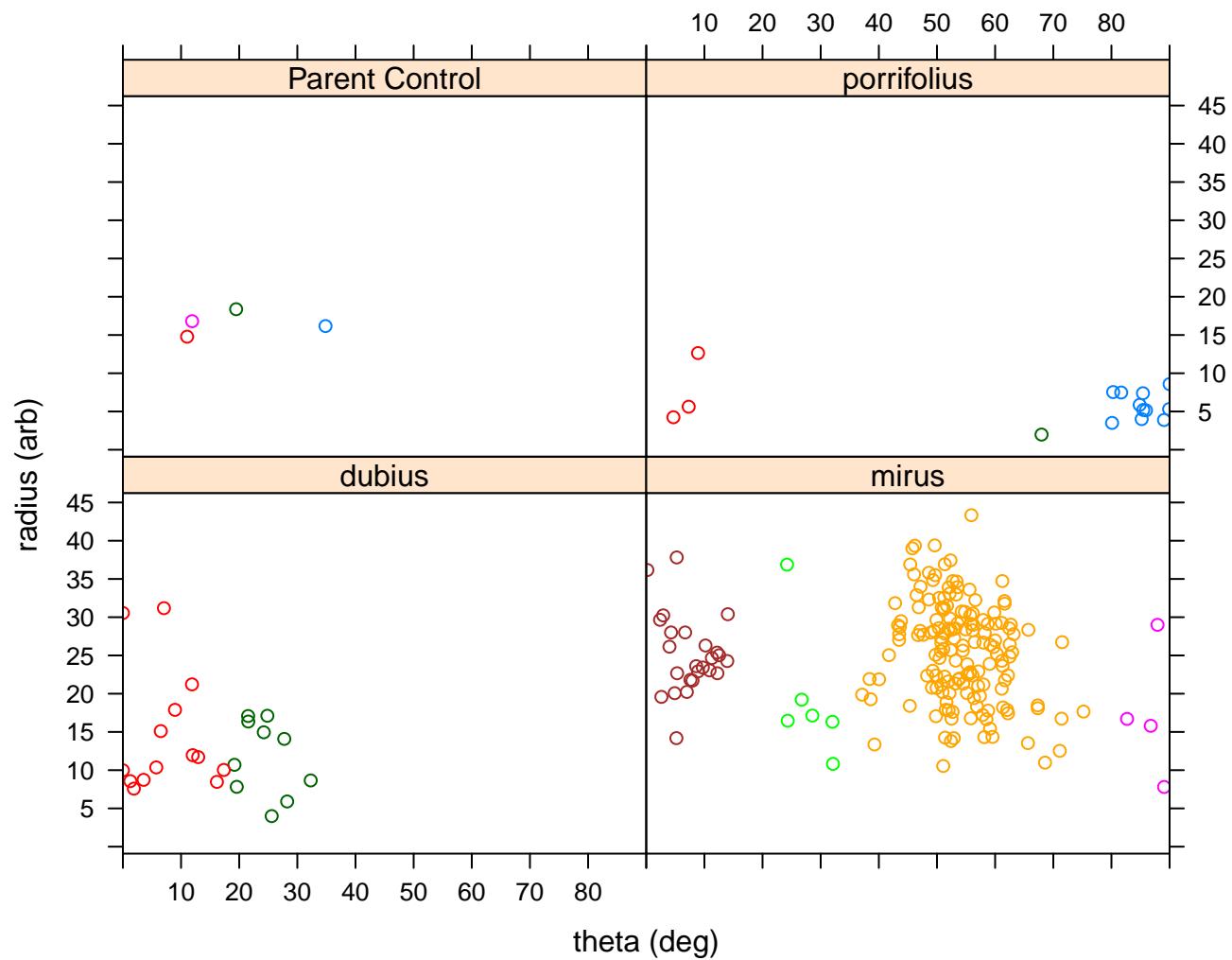
radius (arb)



V_2_5_isotig20163_153 cDNA

Call

HH	○	LLLL	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig20177_151 gDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LL	○	PM3_2_1	○
LLHH	○	PM4	○
LLLH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

90
80
70
60
50
40
30
20
10

dubius

miscellus

radius (arb)

90
80
70
60
50
40
30
20
10

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig20177_151 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		

10 20 30 40 50 60 70 80

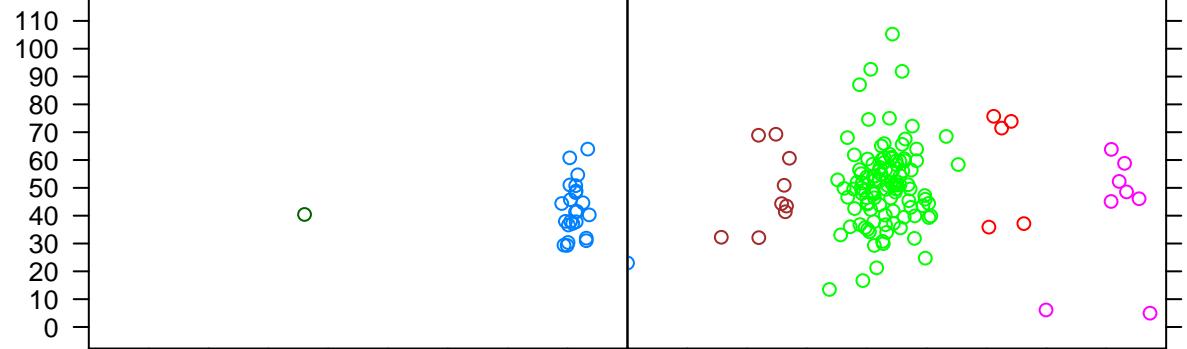
Parent Control

pratensis

110
100
90
80
70
60
50
40
30
20
10
0

dubius

miscellus



theta (deg)

V_2_5_isotig20225_180 gDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

radius (arb)

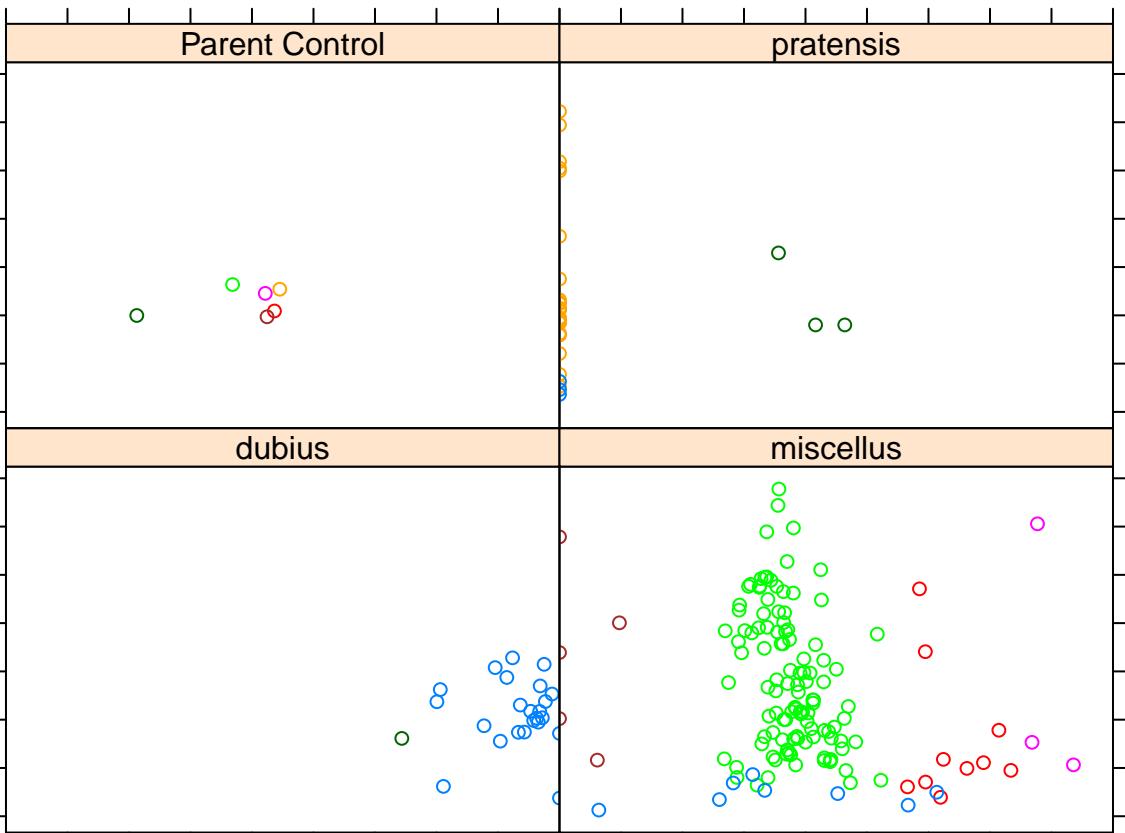
70
60
50
40
30
20
10
0

dubius

miscellus

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig20225_180 cDNA

Call

HH	○	PM3_1_2	○
HHHH	○	PM3_2_1	○
LL	○	PM4	○
No_Aleles	○	PM5	○
PM3_1_1	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

12
11
10
9
8
7
6
5
4
3
2
1
0

radius (arb)

dubius

miscellus

12
11
10
9
8
7
6
5
4
3
2
1
0

10 20 30 40 50 60 70 80

theta (deg)

12
11
10
9
8
7
6
5
4
3
2
1
0

V_2_5_isotig20330_31 gDNA

Call

HH	○	LLLH	○
HHHH	○	LLLL	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

140
120
100
80
60
40
20

dubius

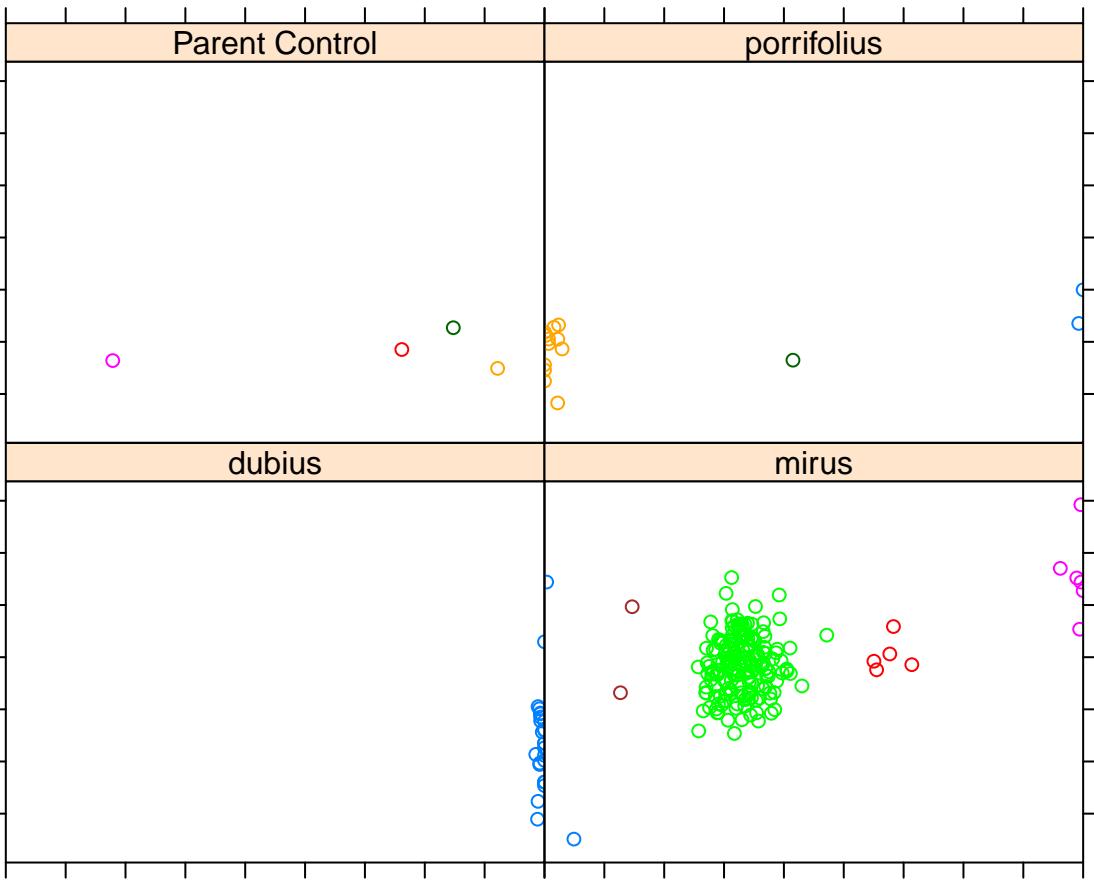
mirus

140
120
100
80
60
40
20

10 20 30 40 50 60 70 80

theta (deg)

radius (arb)



V_2_5_isotig20330_31 cDNA

Call

HH	○	LLLL	○
HHHH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		

10 20 30 40 50 60 70 80

Parent Control

porrifolius

130
120
110
100
90
80
70
60
50
40
30
20
10
0

dubius

mirus

130
120
110
100
90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

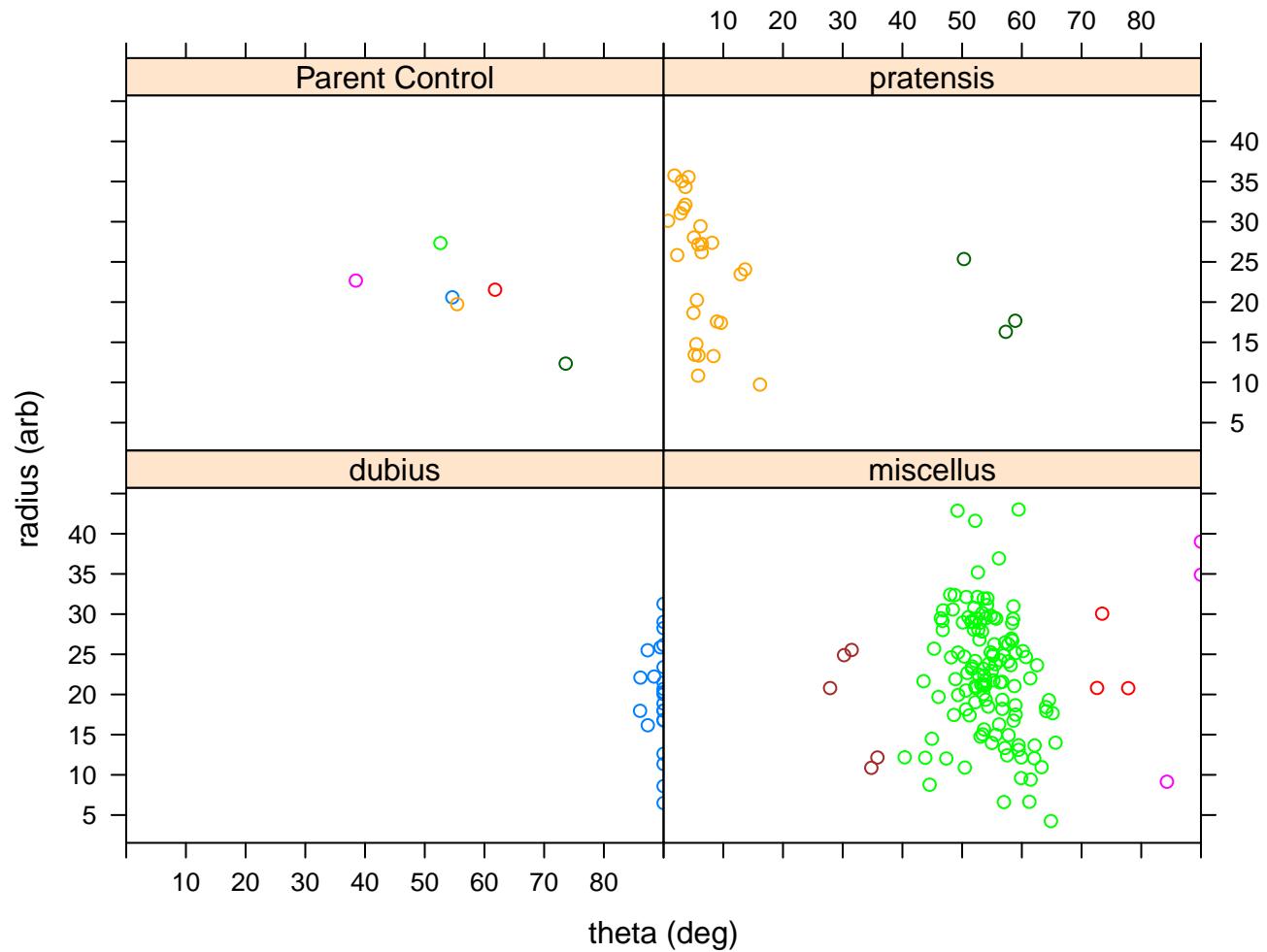
theta (deg)

radius (arb)

V_2_5_isotig20410_161 gDNA

Call

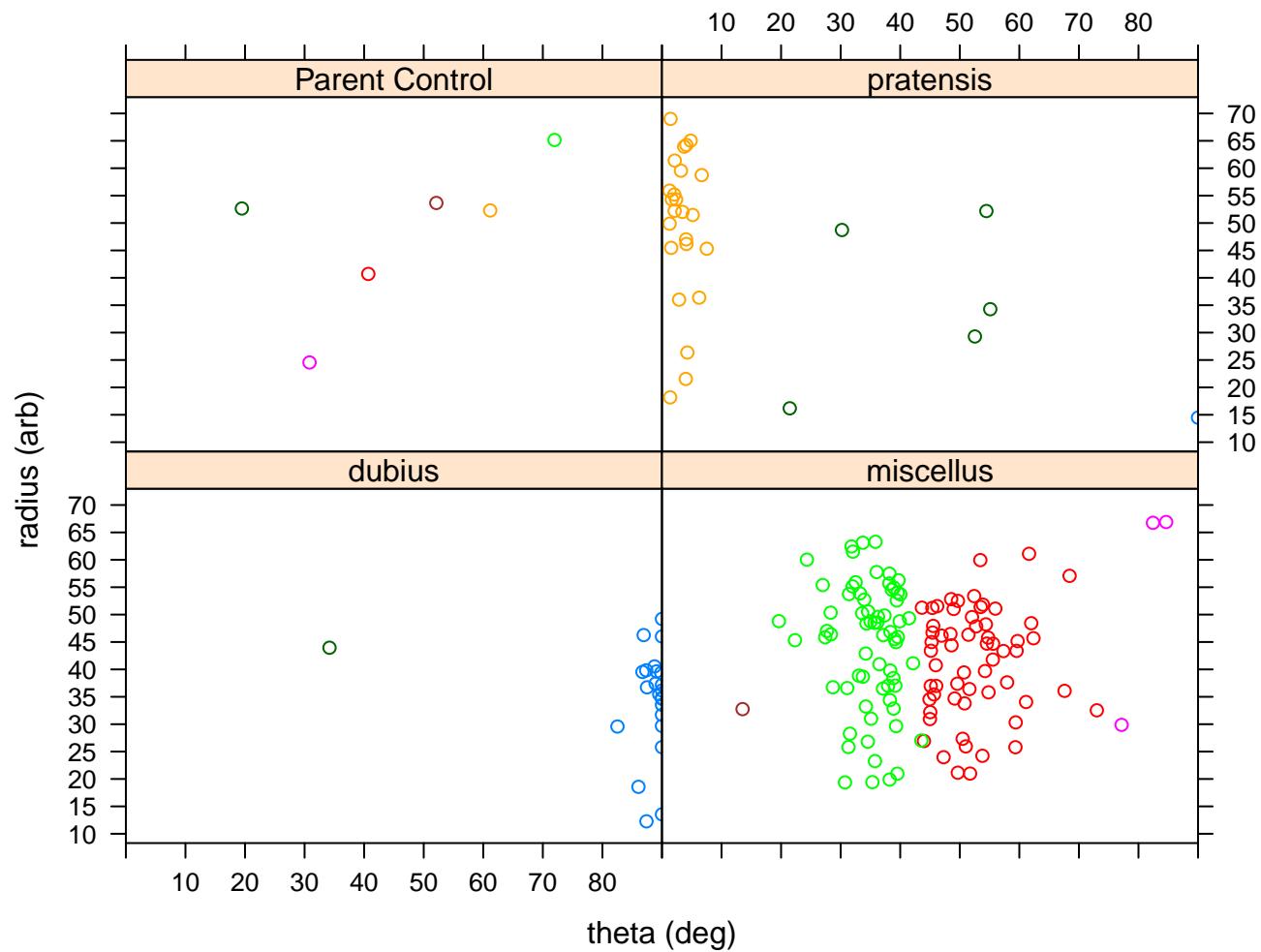
HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LHHH	○	PM4	○
LL	○	PM5	○
LLHH	○	PM6	○
LLLH	○		



V_2_5_isotig20410_161 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○



V_2_5_isotig20427_41 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

140
120
80
60
40
20

dubius

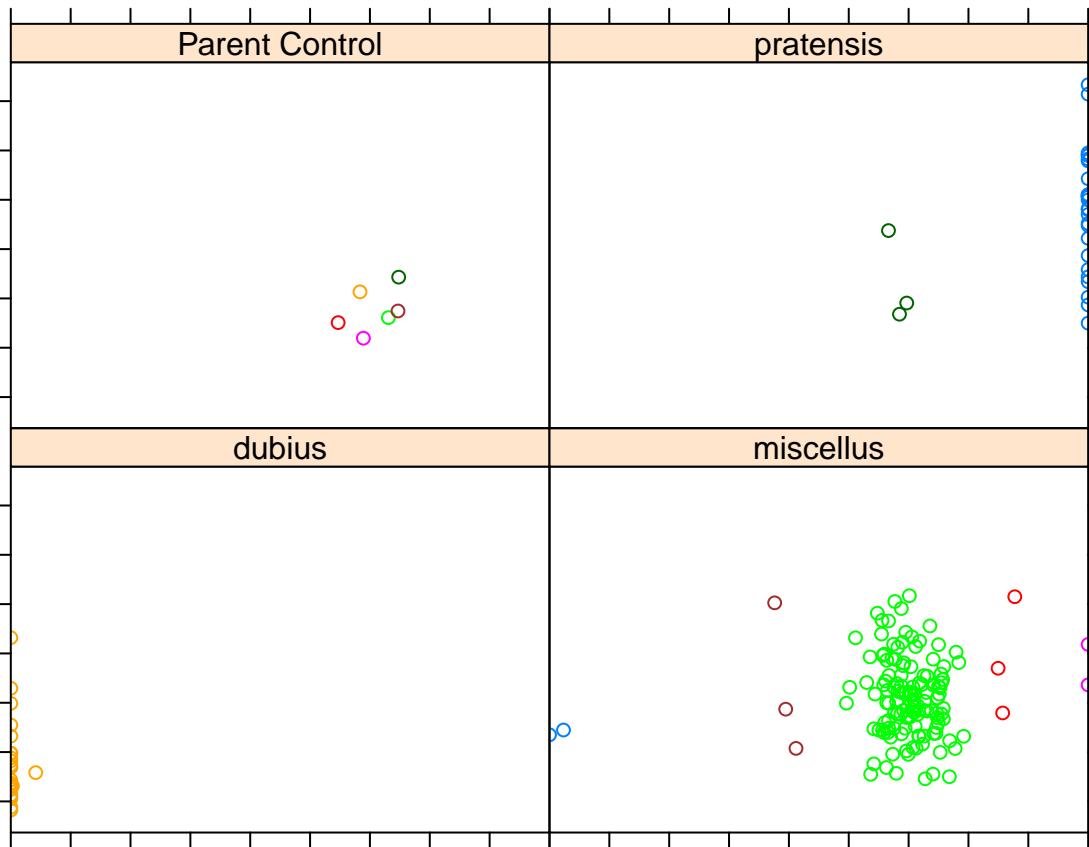
miscellus

140
120
100
80
60
40
20

10 20 30 40 50 60 70 80

theta (deg)

radius (arb)



V_2_5_isotig20427_41 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

140
120
100
80
60
40
20
0

dubius

miscellus

radius (arb)

140
120
100
80
60
40
20
0

10 20 30 40 50 60 70 80

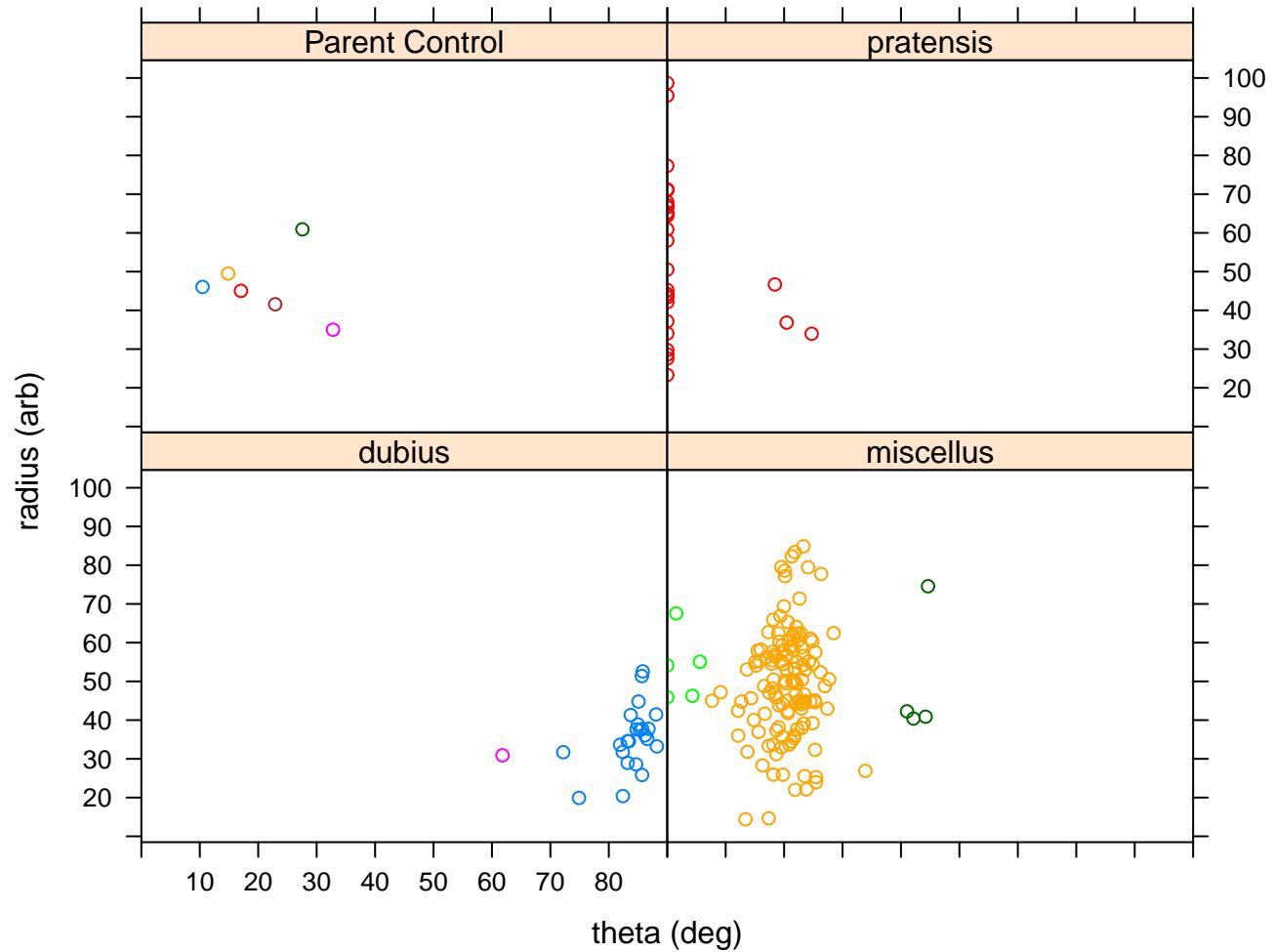
theta (deg)

V_2_5_isotig20427_60 gDNA

Call

HH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80



V_2_5_isotig20427_60 cDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

120
110
100
90
80
70
60
50
40
30
20

dubius

miscellus

120
110
100
90
80
70
60
50
40
30
20

10 20 30 40 50 60 70 80

theta (deg)

radius (arb)

V_2_5_isotig20448_160 gDNA

Call

HH	○	LLLH	○
HHHH	○	LLLL	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

90
80
70
60
50
40
30
20
10
0

90

dubius

mirus

radius (arb)

10 20 30 40 50 60 70 80

theta (deg)

Call

HH	○	LLLH	○
HHHH	○	LLLL	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

40

30

20

10

0

80

70

60

50

40

30

20

10

0

V_2_5_isotig20448_160 cDNA

Call

Bad_Spectrum	LLLH	LLHH
HH	LLLL	HHHH
HHHH	No_Alleles	HH
LH	PM1	LH
LHHH	PM2_1_1	LHHH
LL	PM2_1_2	LL
LLHH	PM2_2_1	LLHH

10 20 30 40 50 60 70 80

Parent Control

porrifolius

radius (arb)

dubius

mirus

10 20 30 40 50 60 70 80

theta (deg)

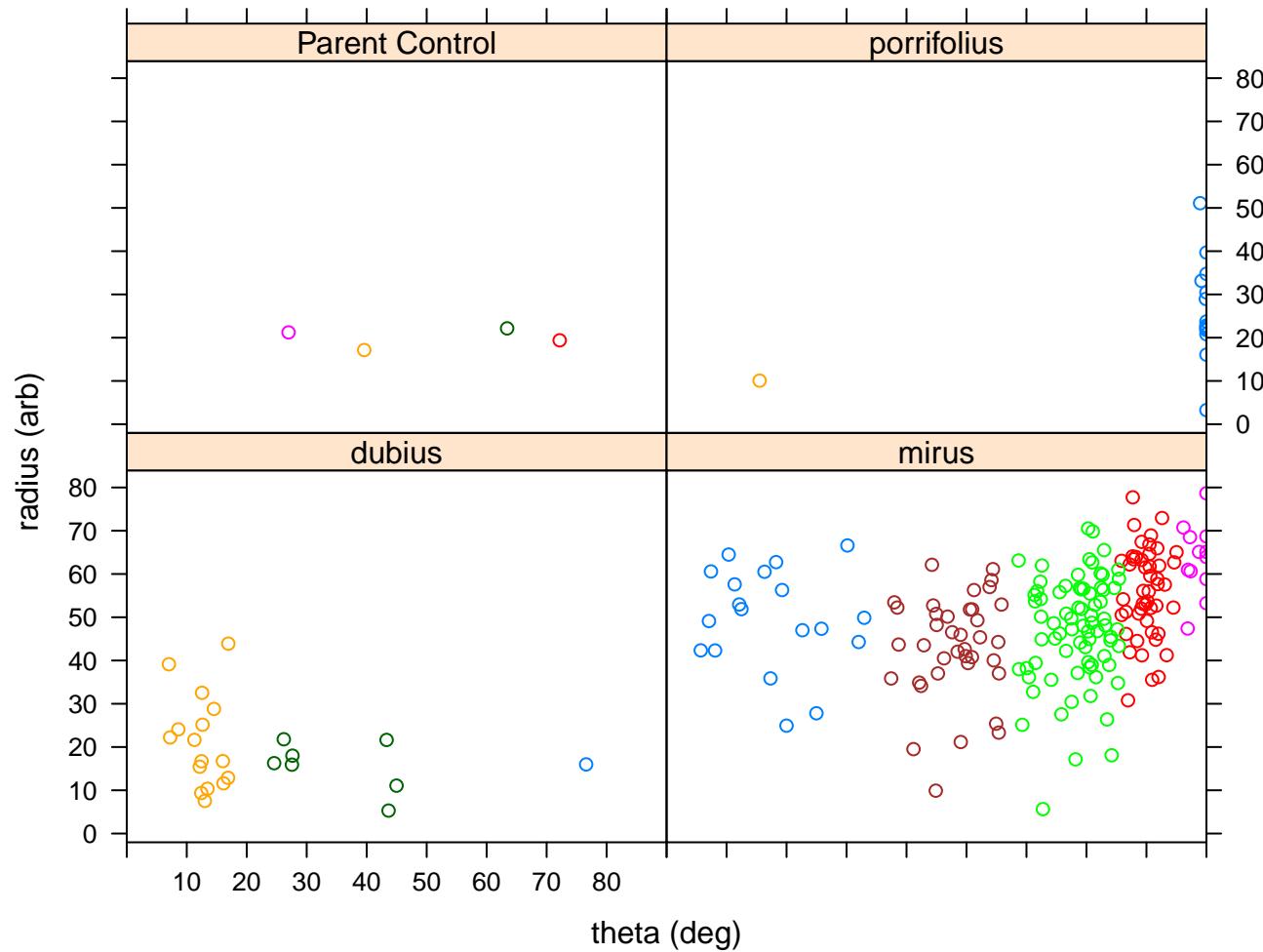
80
70
60
50
40
30
20
10
0

V_2_5_isotig20452_174 cDNA

Call

HH	○	LLLH	○
HHHH	○	LLLL	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80



V_2_5_isotig20485_197 gDNA

Call

Bad_Spectrum	○	No_Alleles	○
HH	○	PM1	○
HHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLLL	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

radius (arb)

dubius

mirus



10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig20485_197 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

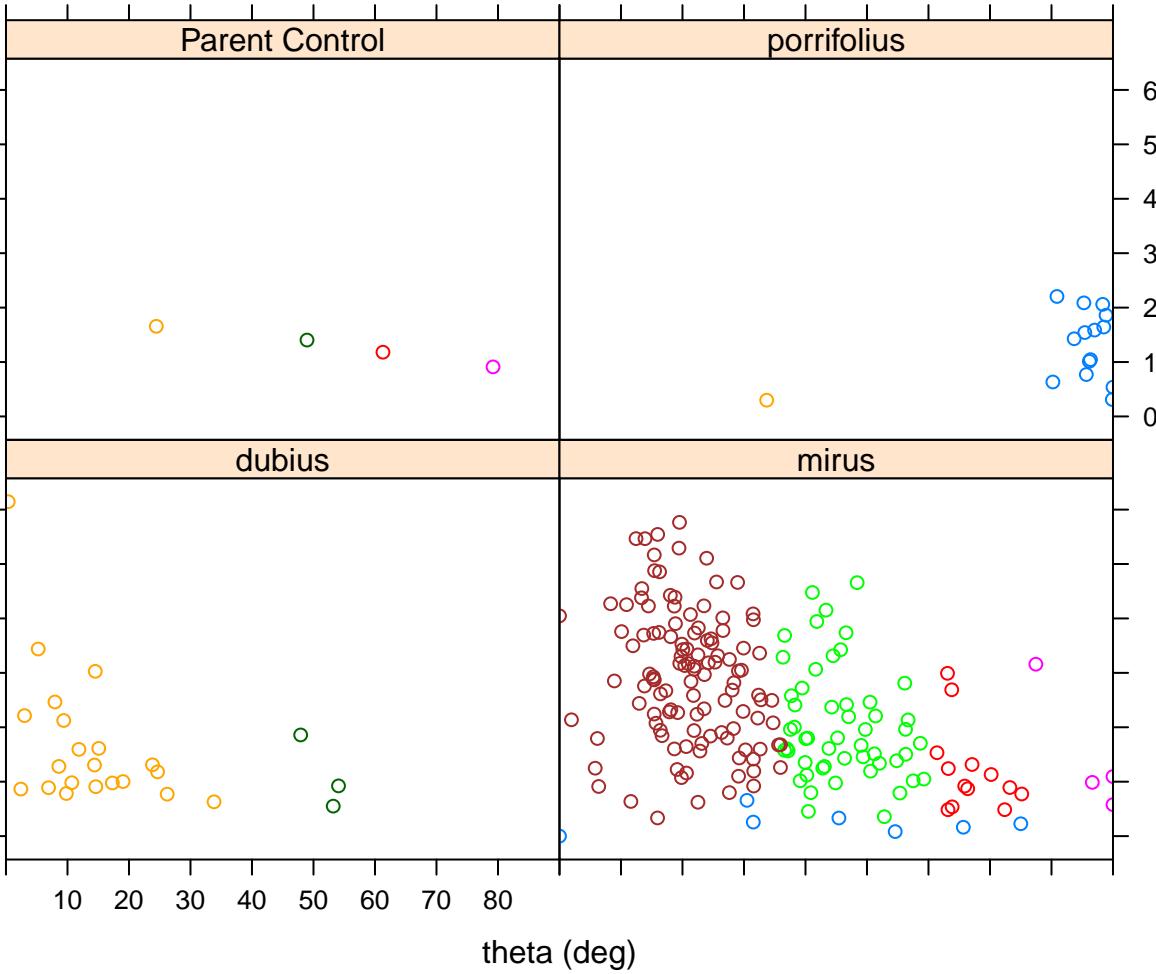
Parent Control

porrifolius

dubius

mirus

radius (arb)



V_2_5_isotig20510_194 gDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

130
120
110
100
90
80
70
60
50
40
30
20

dubius

miscellus

130
120
110
100
90
80
70
60
50
40
30
20

10 20 30 40 50 60 70 80

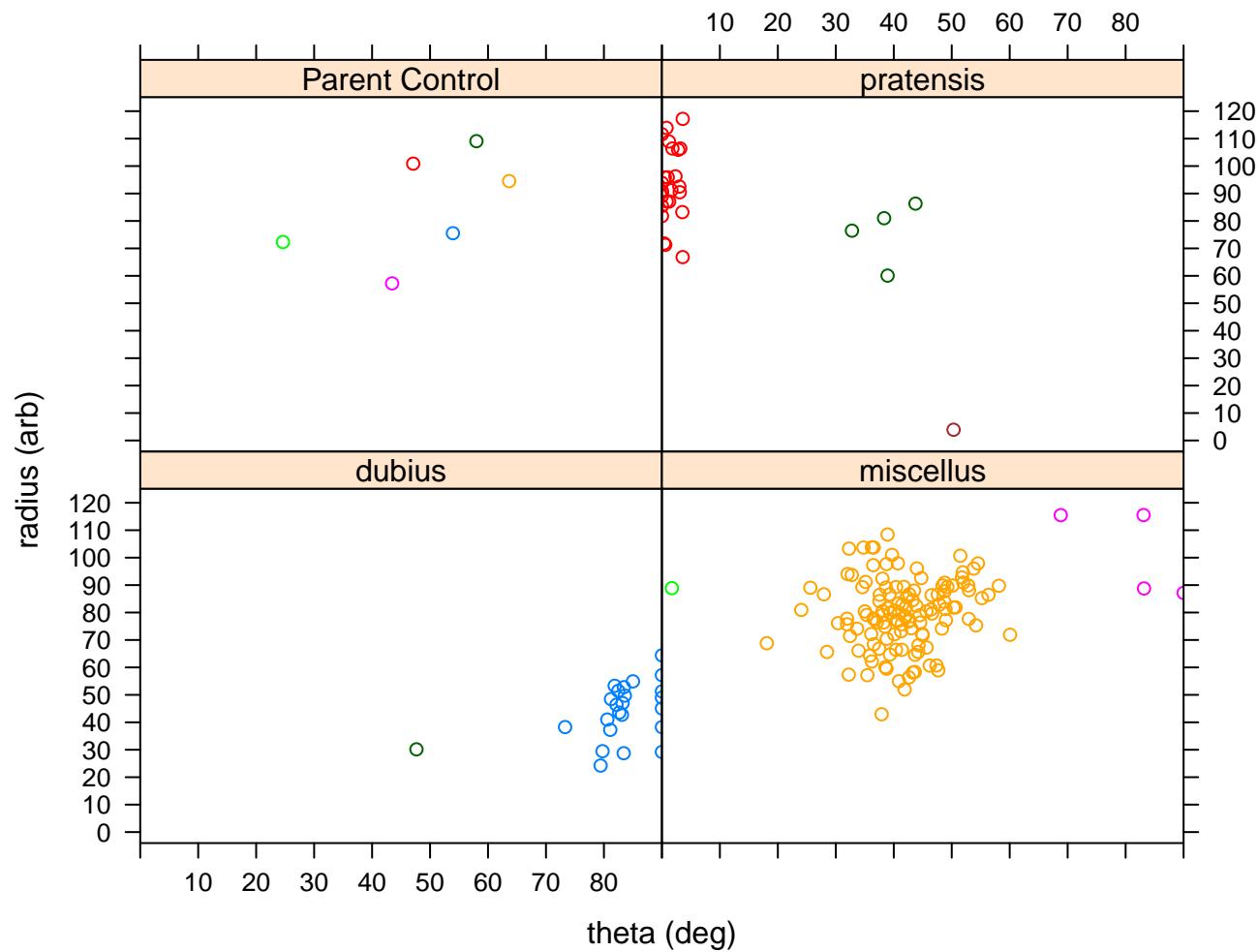
theta (deg)

radius (arb)

V_2_5_isotig20510_194 cDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○
No_Alleles	○		



V_2_5_isotig20561_203 gDNA

Call

Bad_Spectrum	○	LLLH	○
HH	○	LLLL	○
HHHH	○	No_Alleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

80
70
60
50
40
30
20
10
0

dubius

mirus

radius (arb)

80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig20561_203 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

90
80
70
60
50
40
30
20
10
0

○

dubius

mirus

radius (arb)

90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig20579_78 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

60
50
40
30
20
10
0

dubius

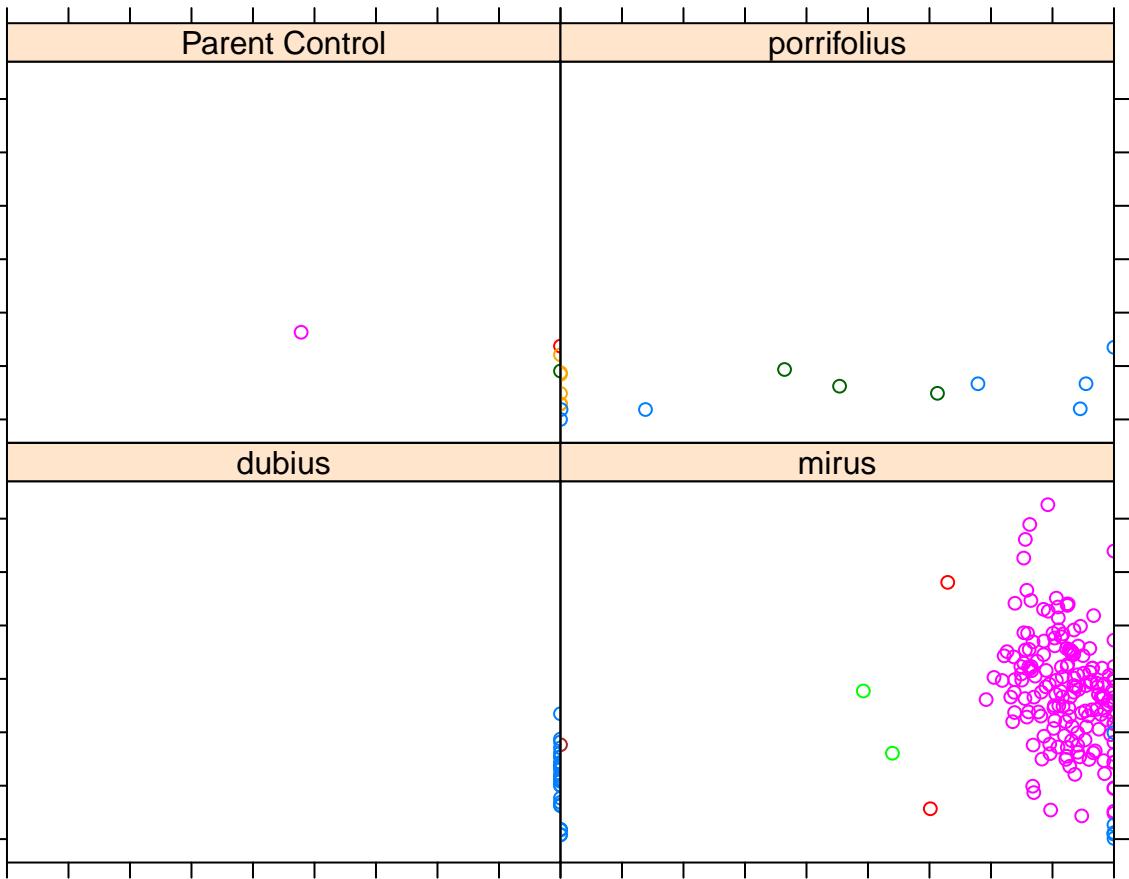
mirus

radius (arb)

60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)

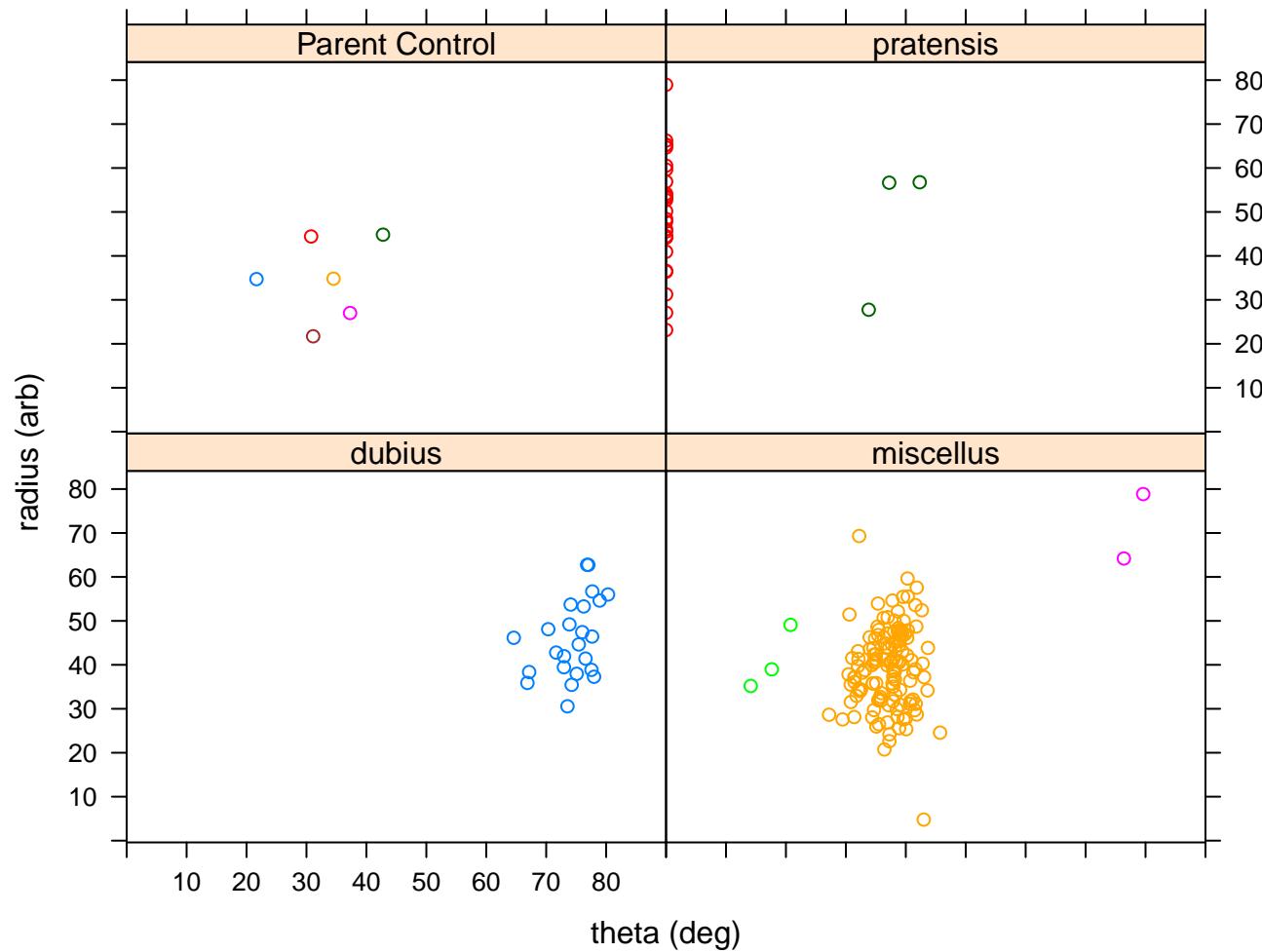


V_2_5_isotig20586_260 gDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80



V_2_5_isotig20586_260 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

120
110
100
90
80
70
60
50
40
30
20
10
0

dubius

miscellus

120
110
100
90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)

radius (arb)

V_2_5_isotig20653_212 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

120
110
100
90
80
70
60
50
40
30
20
10
0

dubius

mirus

120
110
100
90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)

radius (arb)

V_2_5_isotig20653_212 cDNA

Call

Bad_Spectrum	○	LLLL	○
HH	○	No_Alleles	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		

10 20 30 40 50 60 70 80

Parent Control

porrifolius

100
90
80
70
60
50
40
30
20
10
0

dubius

mirus

100
90
80
70
60
50
40
30
20
10
0

radius (arb)

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig20785_166 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

60
55
50
45
40
35
30
25
20
15
10
5
0

dubius

mirus

60
55
50
45
40
35
30
25
20
15
10
5
0

10 20 30 40 50 60 70 80

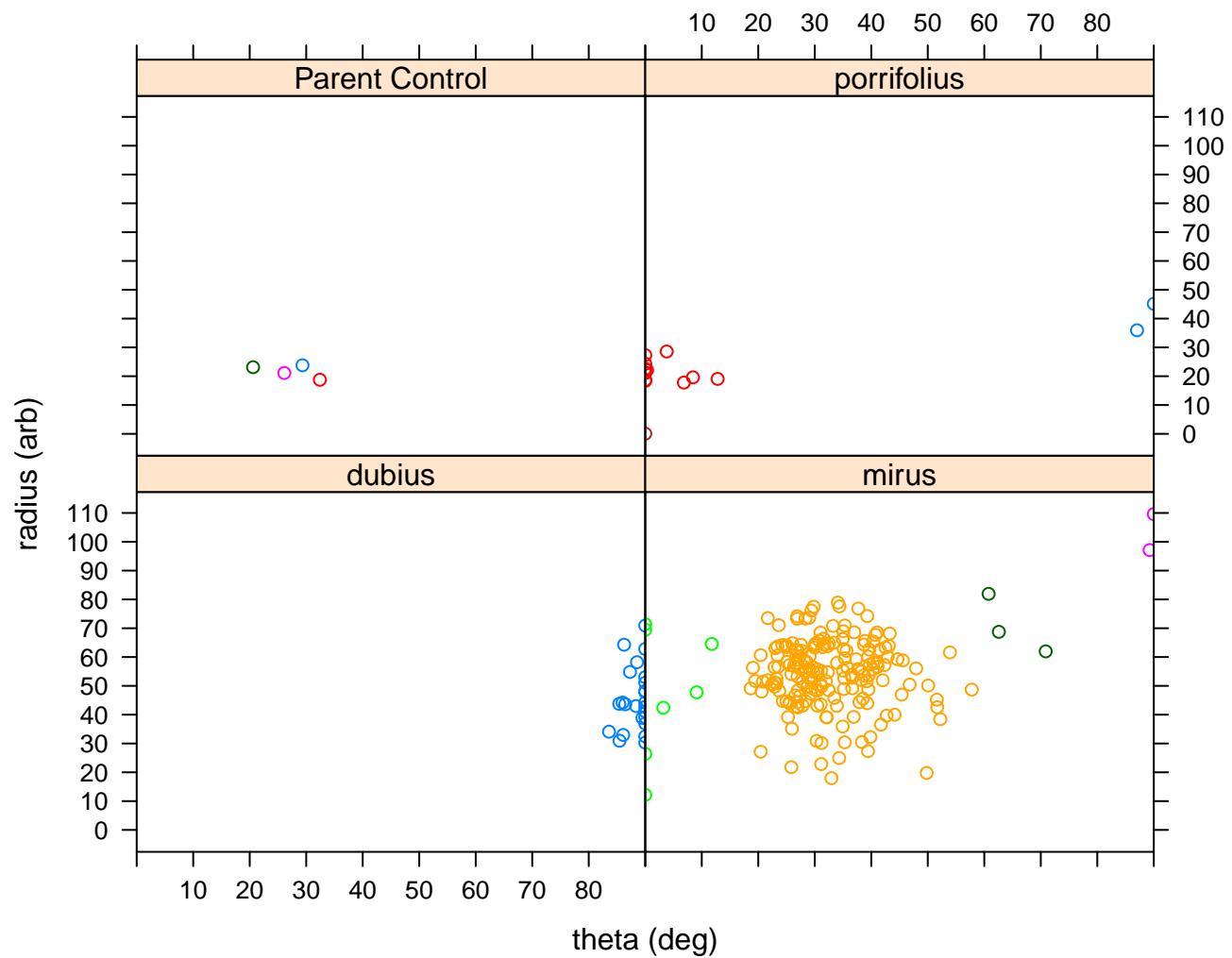
theta (deg)

radius (arb)

V_2_5_isotig20785_166 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLL	○		



V_2_5_isotig20791_205 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

100
90
80
70
60
50
40
30
20
10

dubius

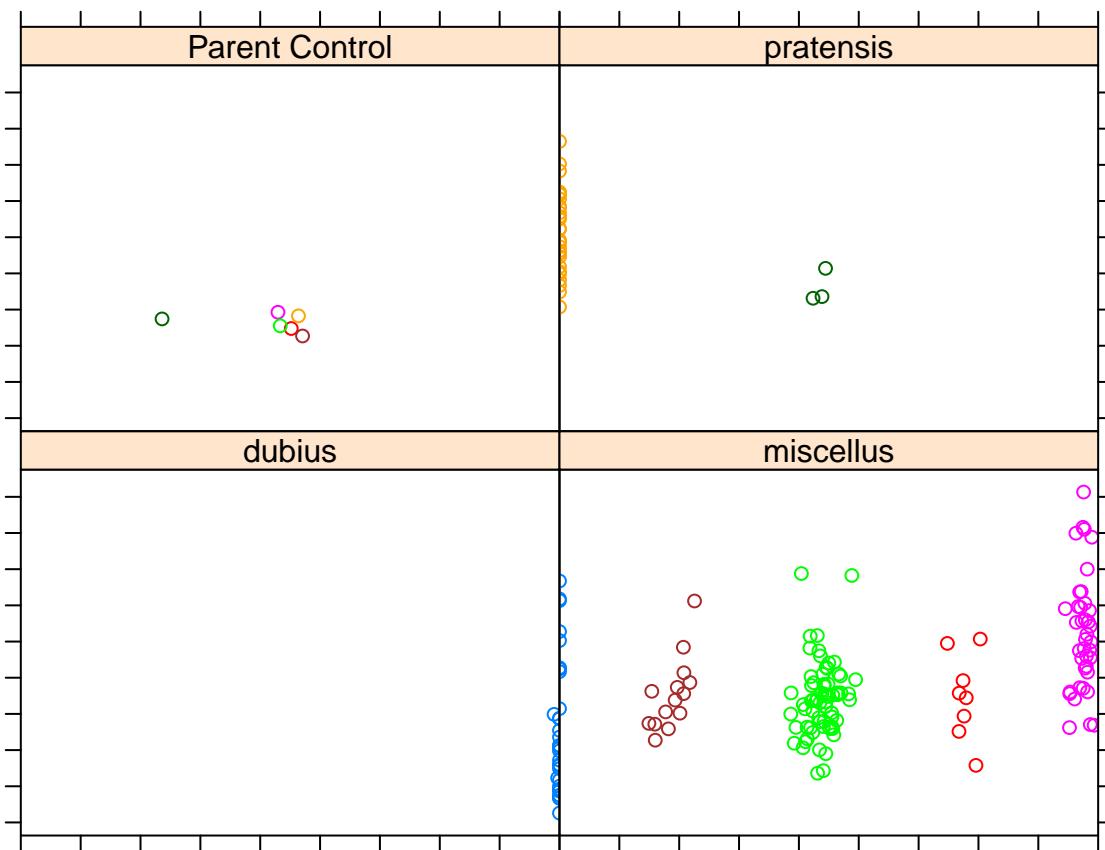
miscellus

100
90
80
70
60
50
40
30
20
10

10 20 30 40 50 60 70 80

theta (deg)

radius (arb)



V_2_5_isotig20791_205 cDNA

Call

Bad_Spectrum	○	No_Aleles	○
HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LL	○	PM3_2_1	○
LLHH	○	PM4	○
LLLH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

100
90
80
70
60
50
40
30
20
10
0

radius (arb)

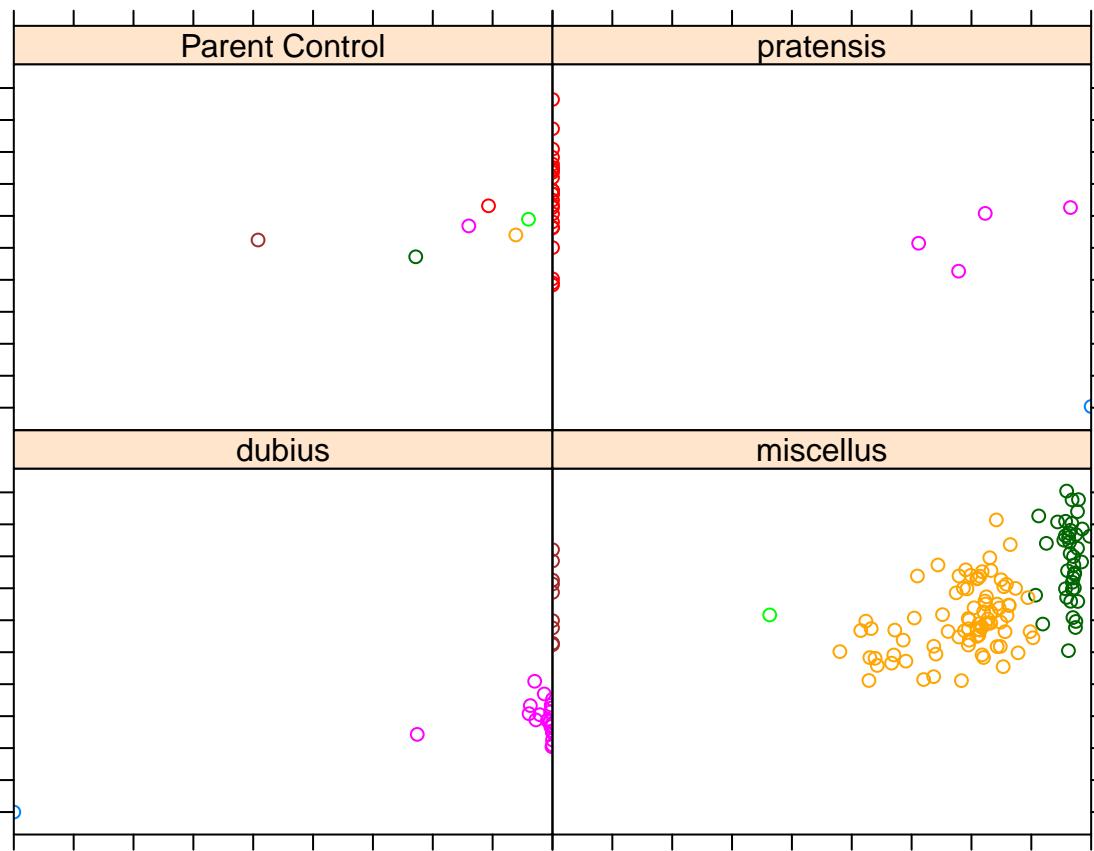
dubius

miscellus

100
90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig20825_128 cDNA

Call

HH	○	LLLH	○
HHHH	○	LLLL	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

60
55
50
45
40
35
30
25
20
15
10
5

dubius

mirus

60
55
50
45
40
35
30
25
20
15
10
5

radius (arb)

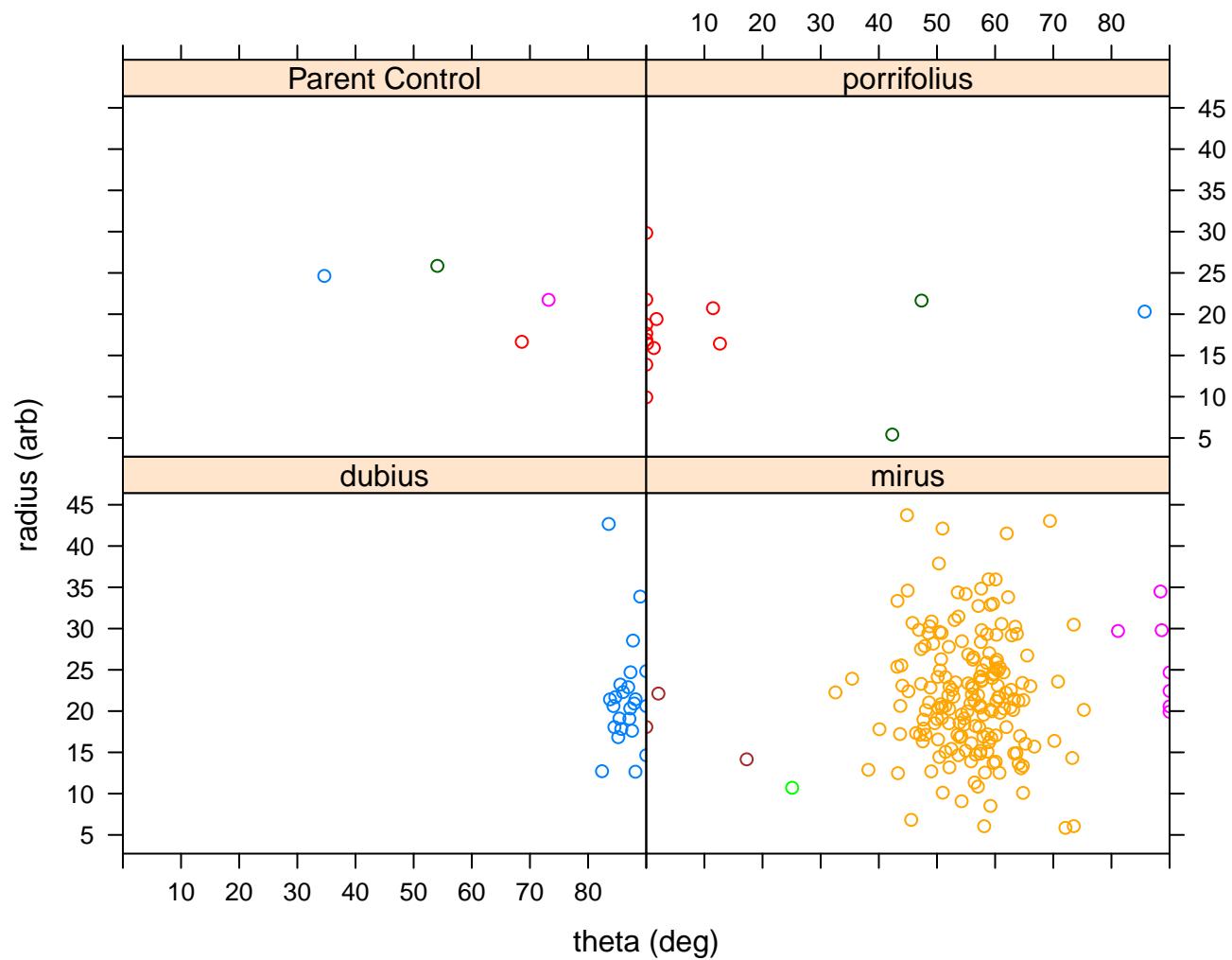
theta (deg)

10 20 30 40 50 60 70 80

V_2_5_isotig20826_116 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig20826_116 cDNA

Call

Bad_Spectrum	○	LLLL	○
HH	○	No_Alleles	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

80
70
60
50
40
30
20
10
0

dubius

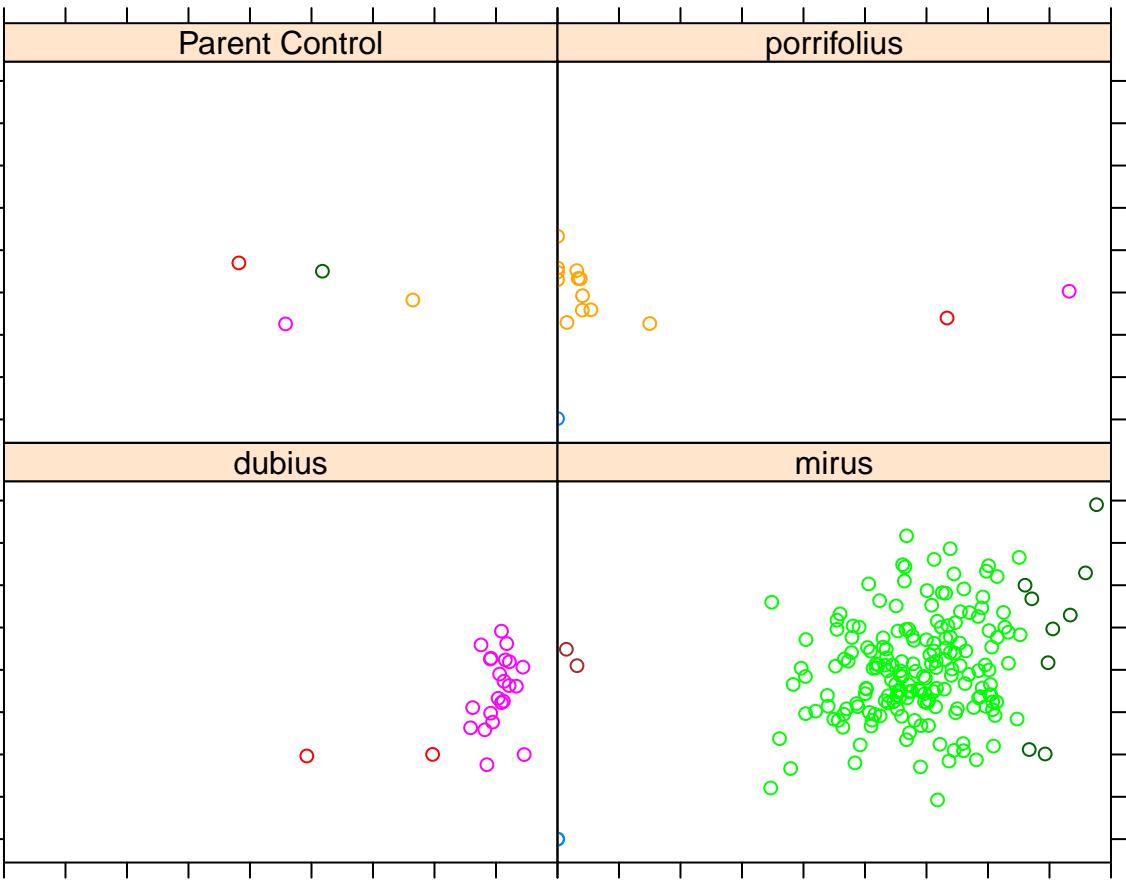
mirus

radius (arb)

80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig20859_112 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

110
100
90
80
70
60
50
40
30
20
10
0

radius (arb)

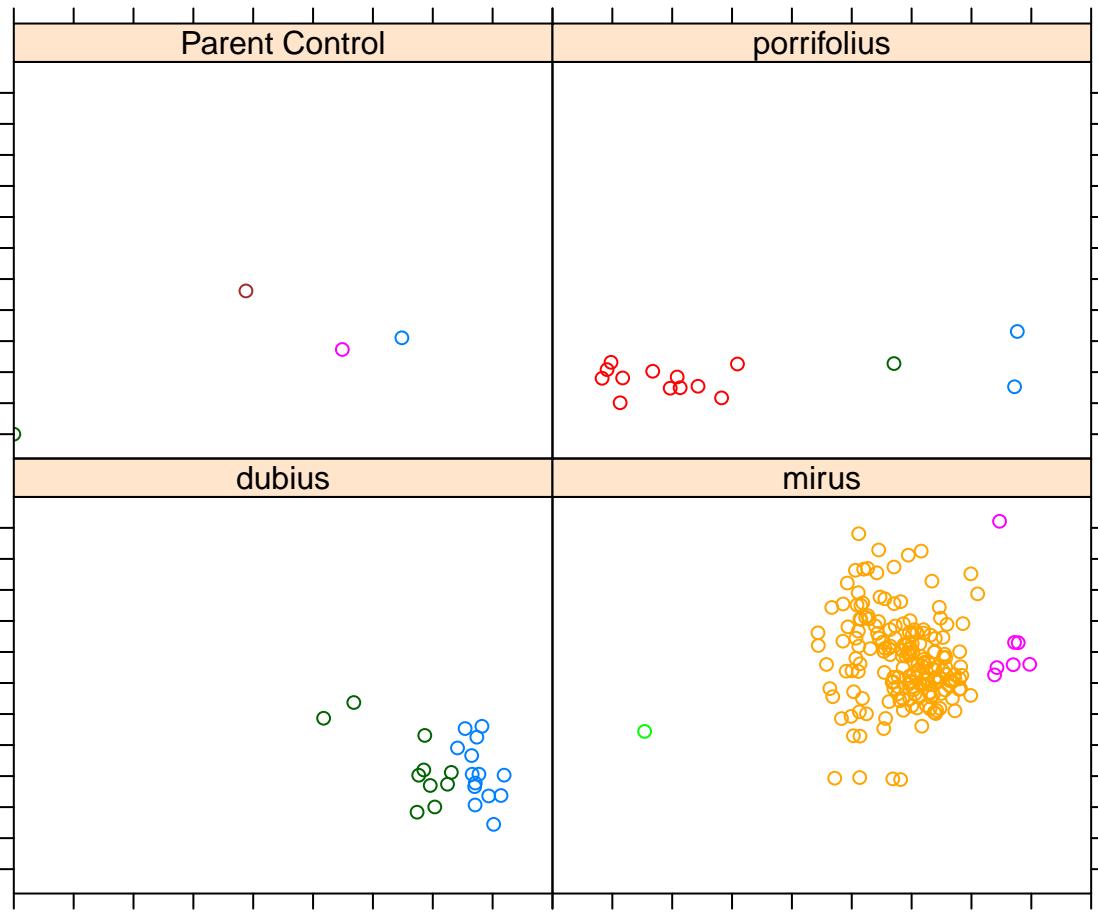
dubius

mirus

110
100
90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

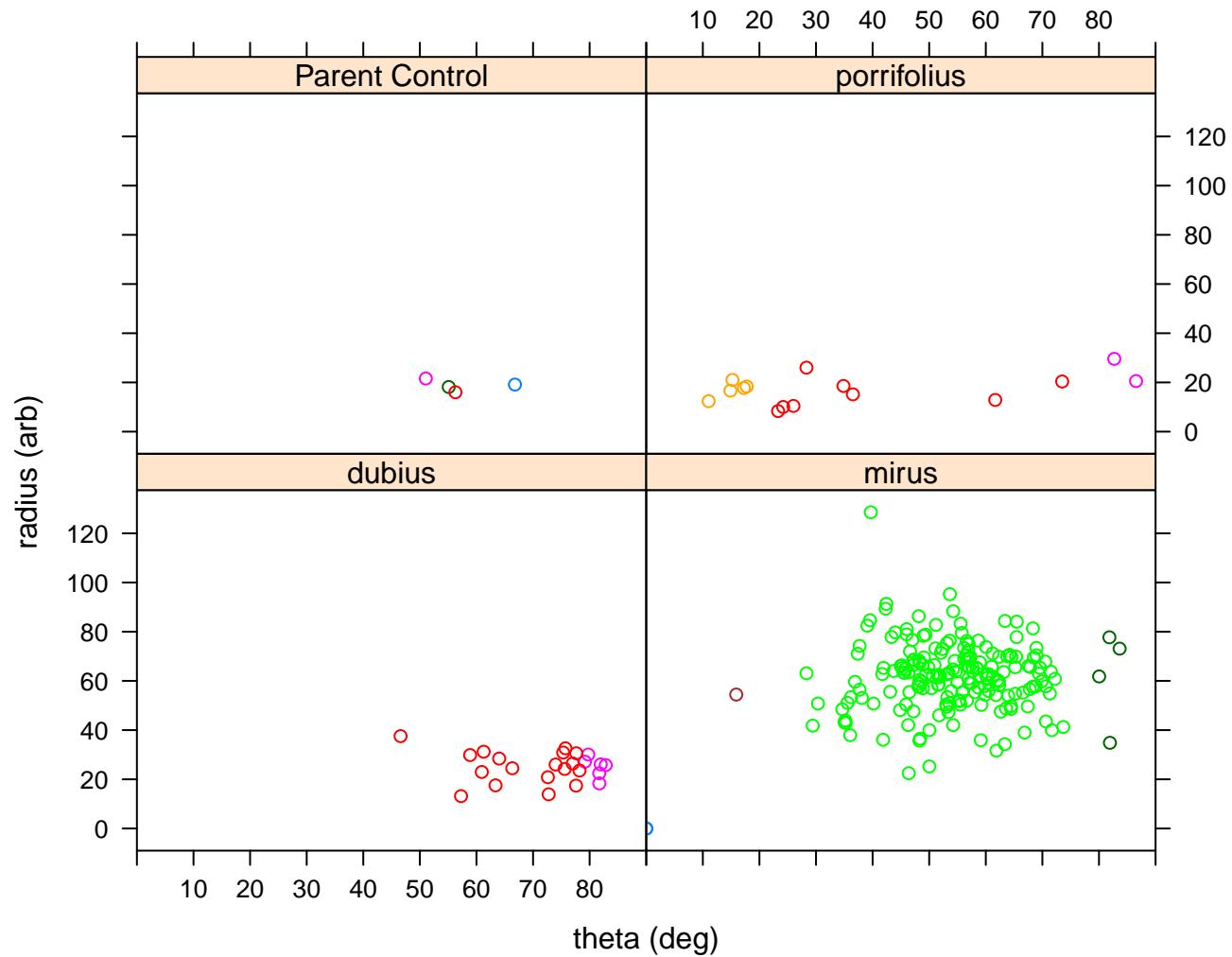
theta (deg)



V_2_5_isotig20859_112 cDNA

Call

Bad_Spectrum	LLLL	○
HH	PM1	○
HHHH	PM2_1_1	○
LH	PM2_1_2	○
LL	PM2_2_1	○
LLHH	○	○



V_2_5_isotig20893_133 gDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

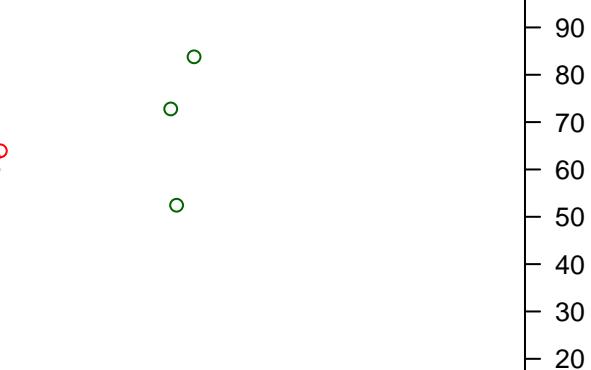
Parent Control

pratensis

radius (arb)

dubius

miscellus



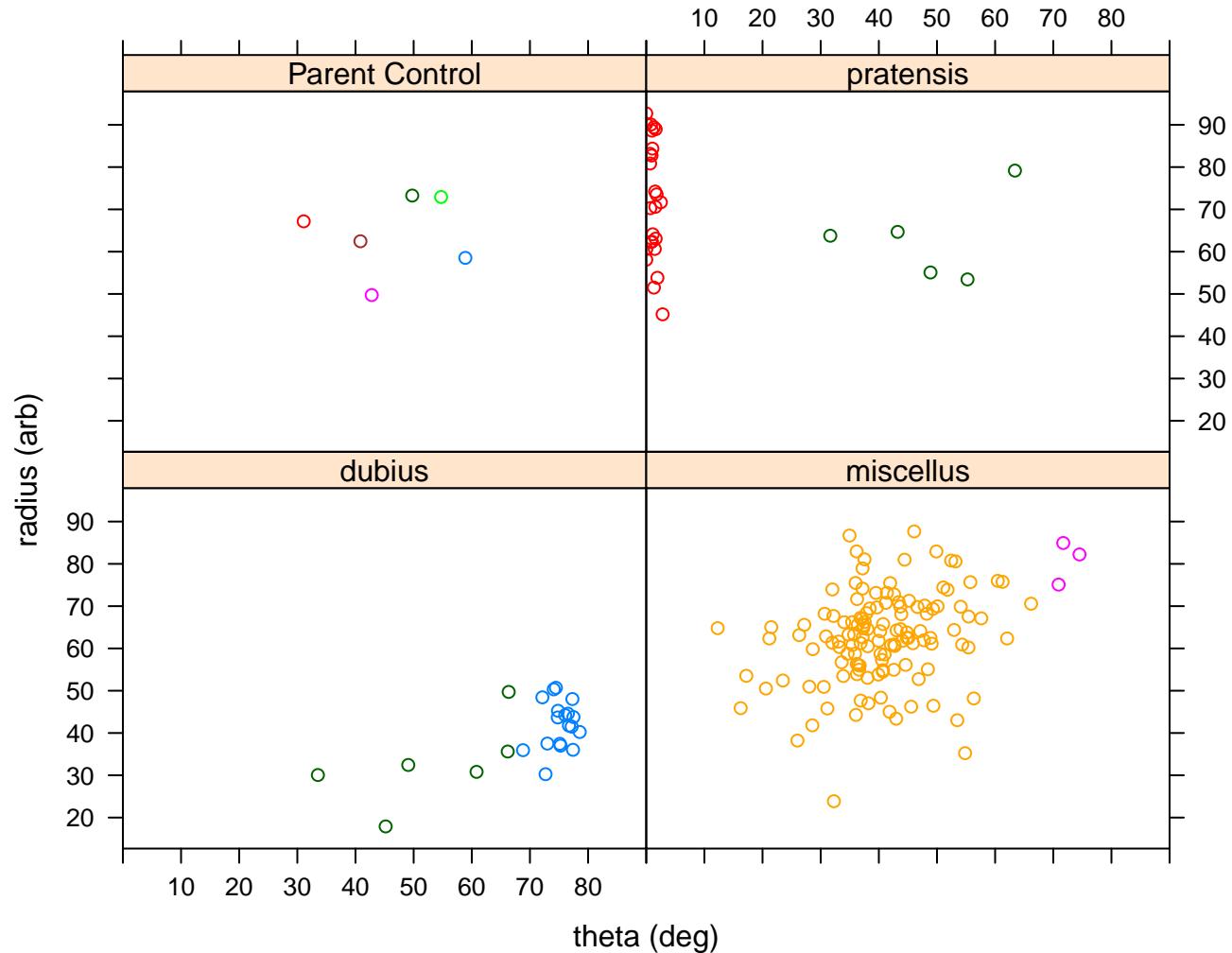
10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig20893_133 cDNA

Call

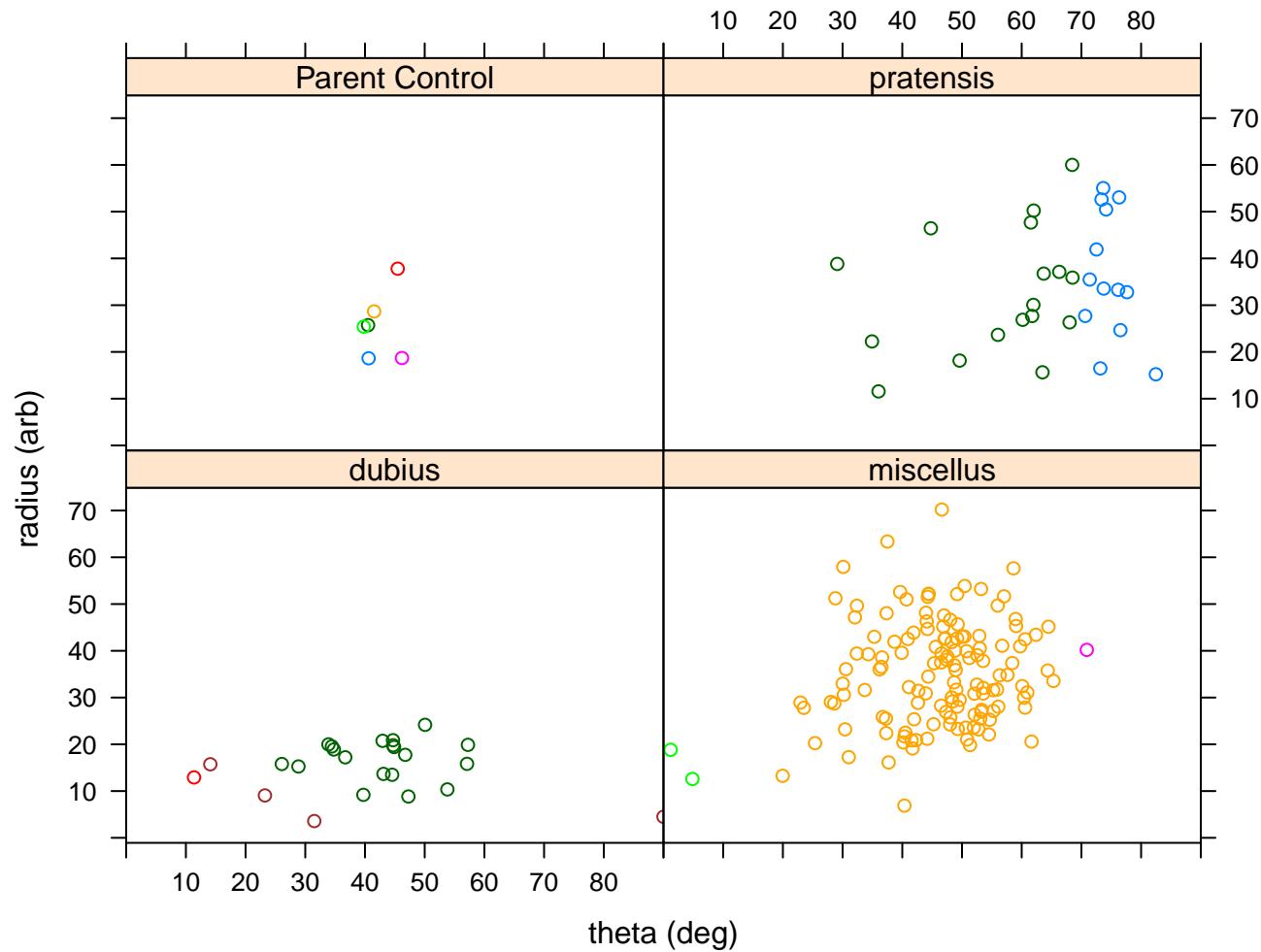
HH	○	PM3_1_2	○
HHHH	○	PM3_2_1	○
LH	○	PM4	○
LL	○	PM5	○
LLHH	○	PM6	○
PM3_1_1	○		



V_2_5_isotig20920_214 gDNA

Call

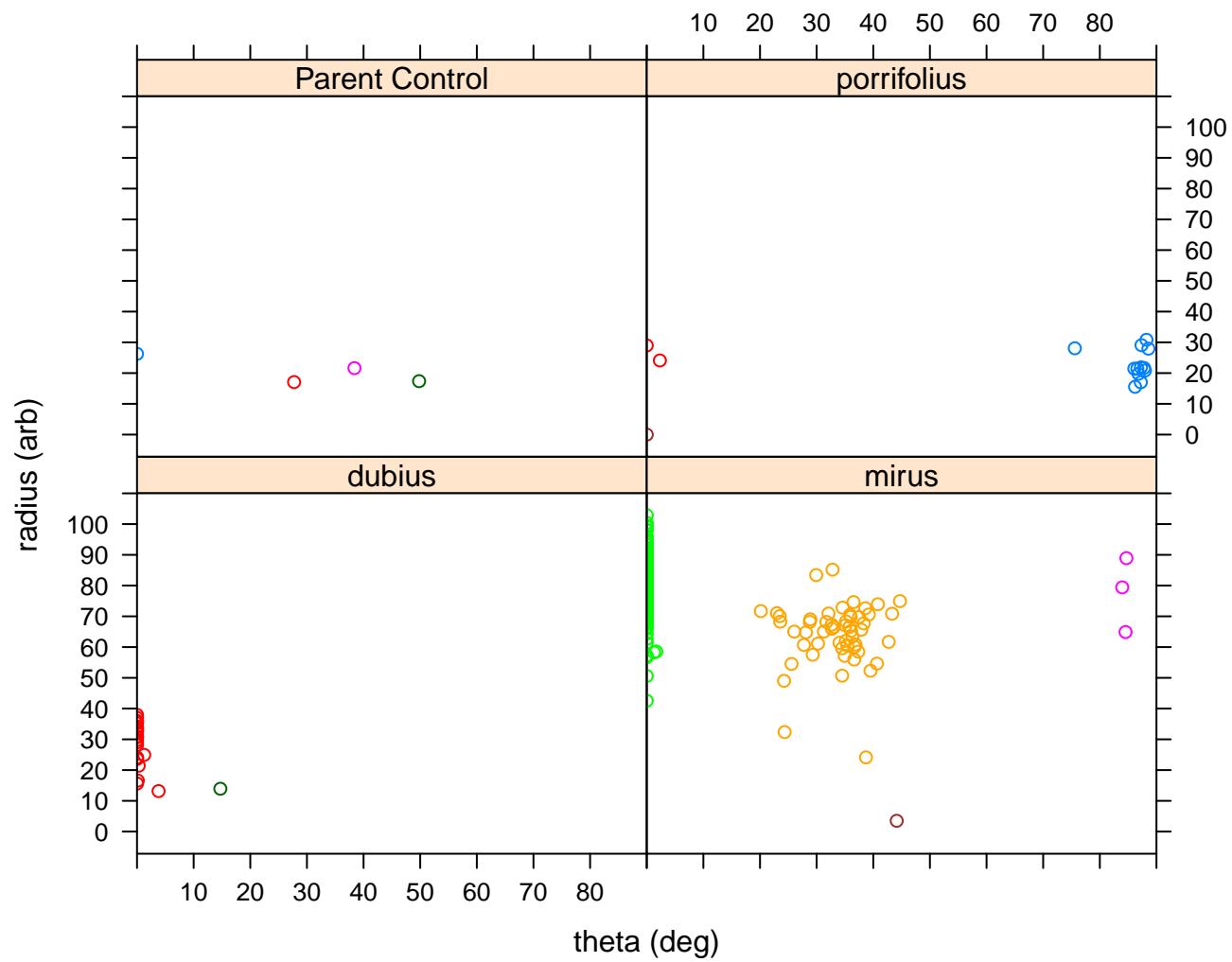
HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○
No_Alleles	○		



V_2_5_isotig20954_33 cDNA

Call

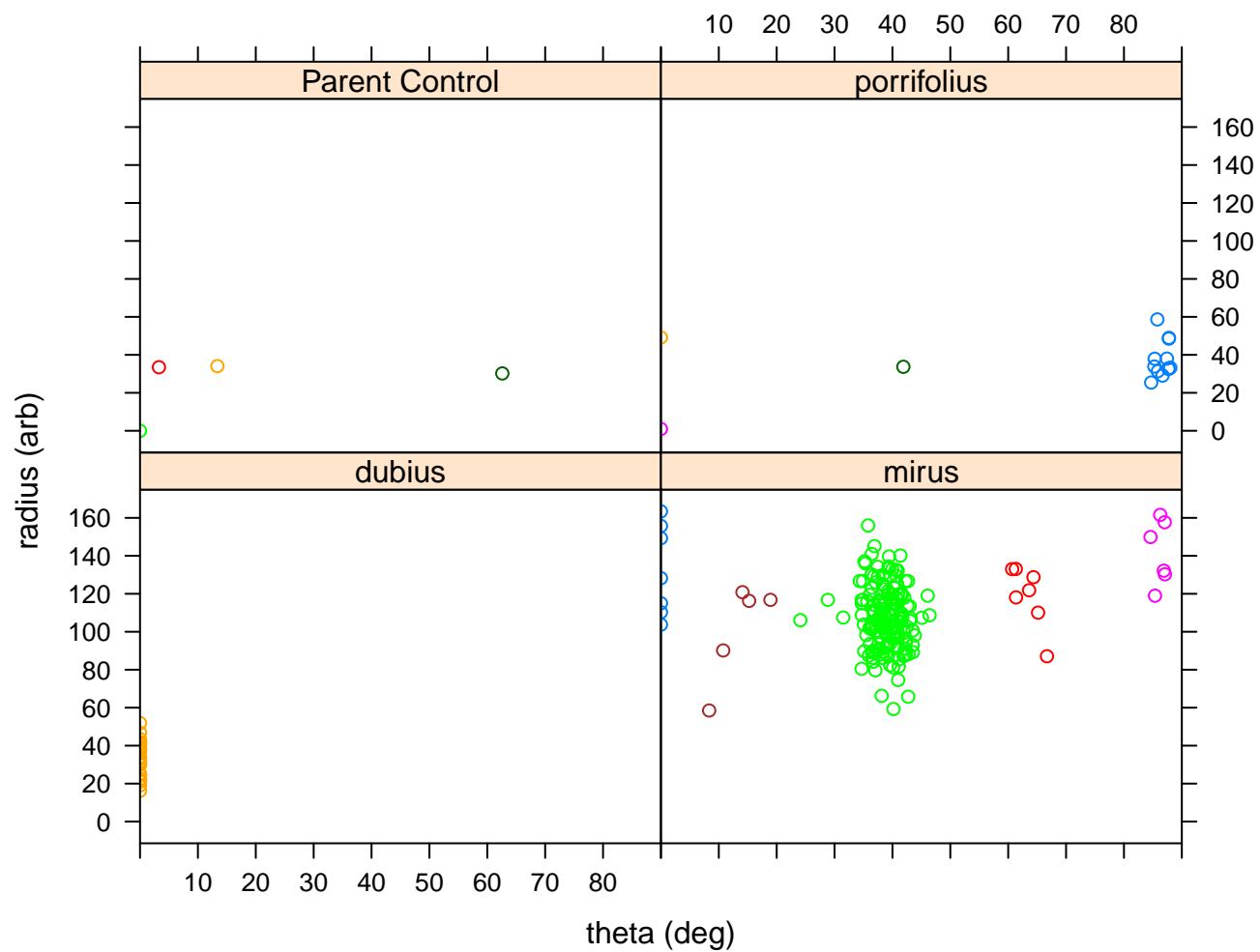
HH	○	No_Aleles
HHHH	○	PM1
LH	○	PM2_1_1
LL	○	PM2_1_2
LLHH	○	PM2_2_1
	○	



V_2_5_isotig20991_157 gDNA

Call

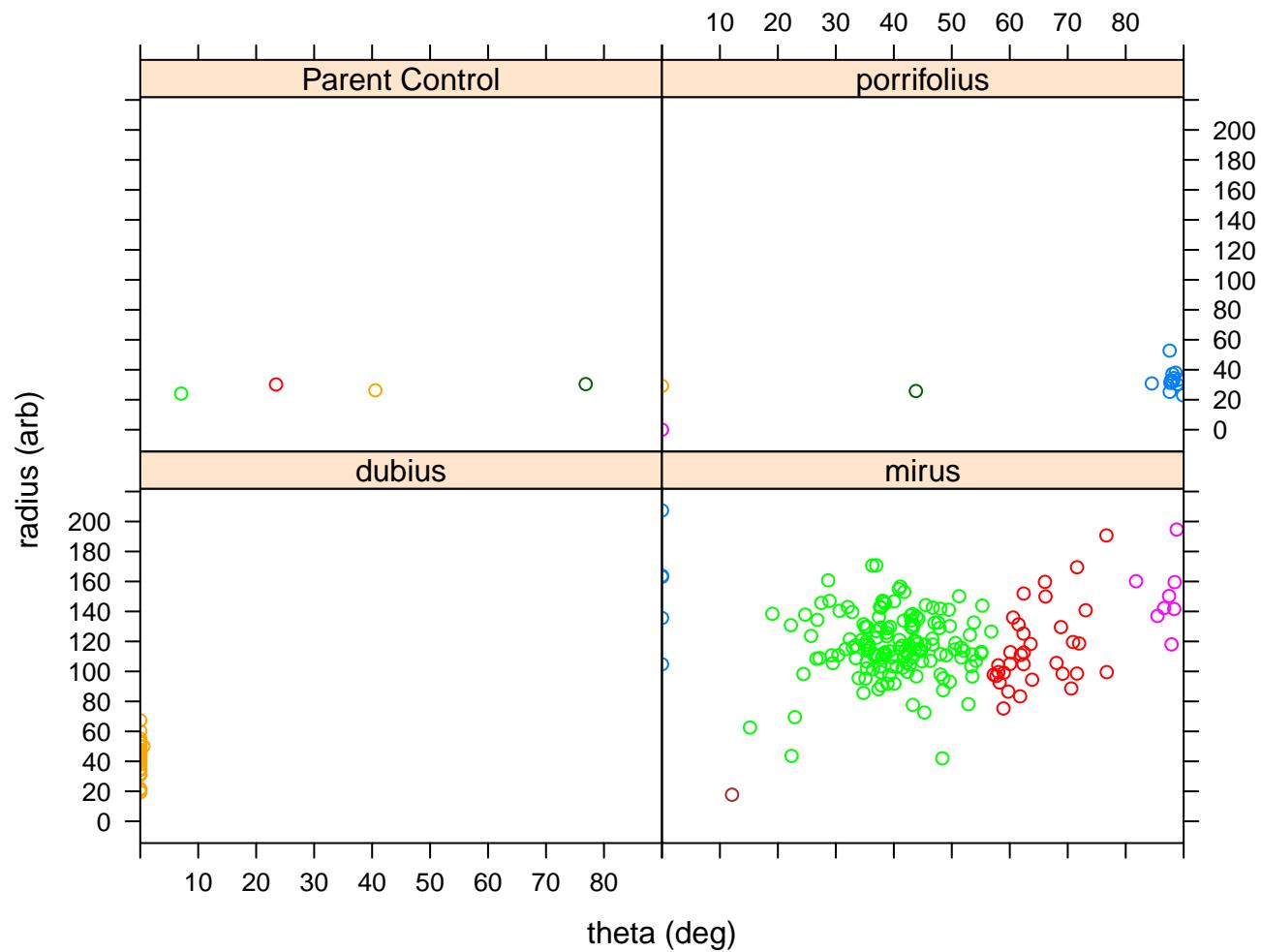
HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig20991_157 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig21004_264 gDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

60
55
50
45
40
35
30
25
20
15
10

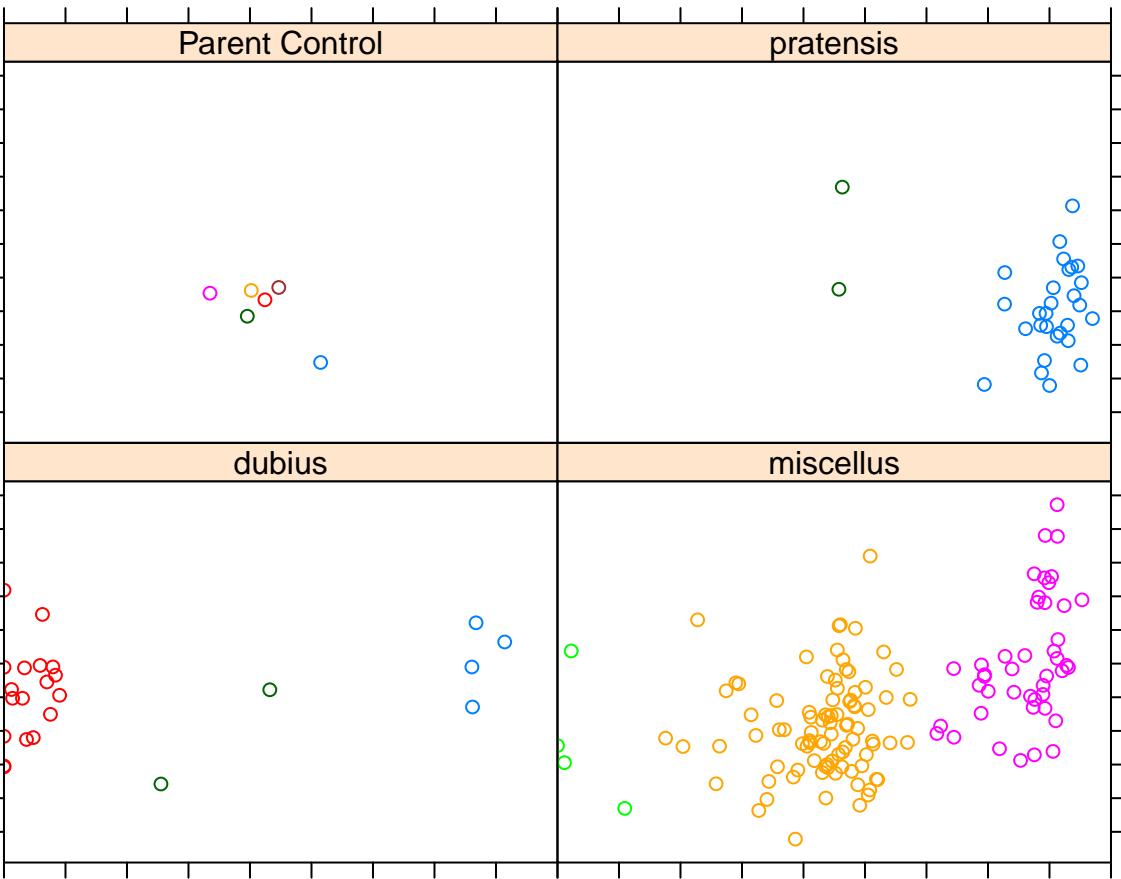
dubius

miscellus

radius (arb)

10 20 30 40 50 60 70 80

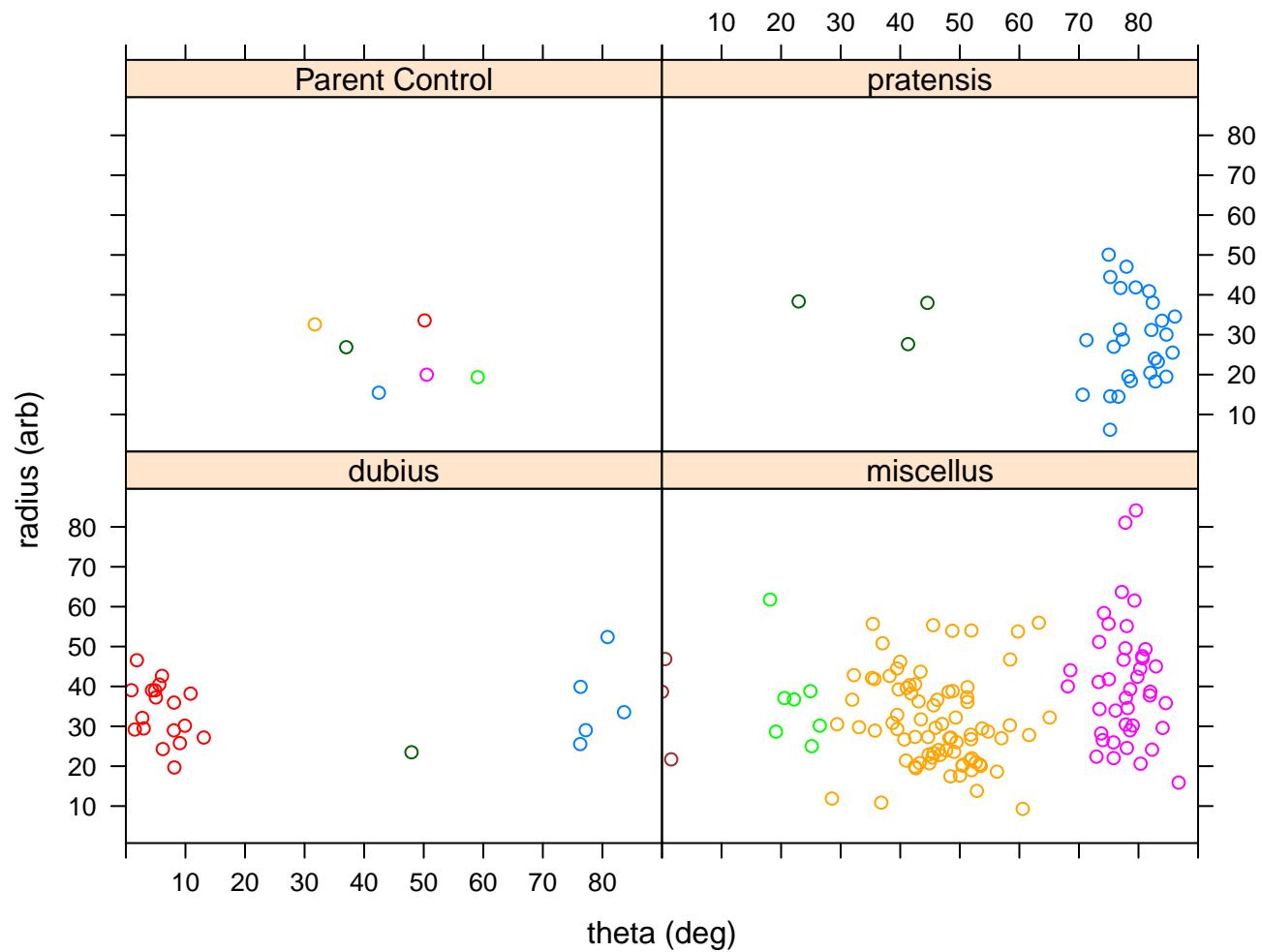
theta (deg)



V_2_5_isotig21004_264 cDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		



V_2_5_isotig21026_212 gDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLL	○		○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

120
110
100
90
80
70
60
50
40
30
20
10
0

dubius

mirus

120
110
100
90
80
70
60
50
40
30
20
10
0

radius (arb)

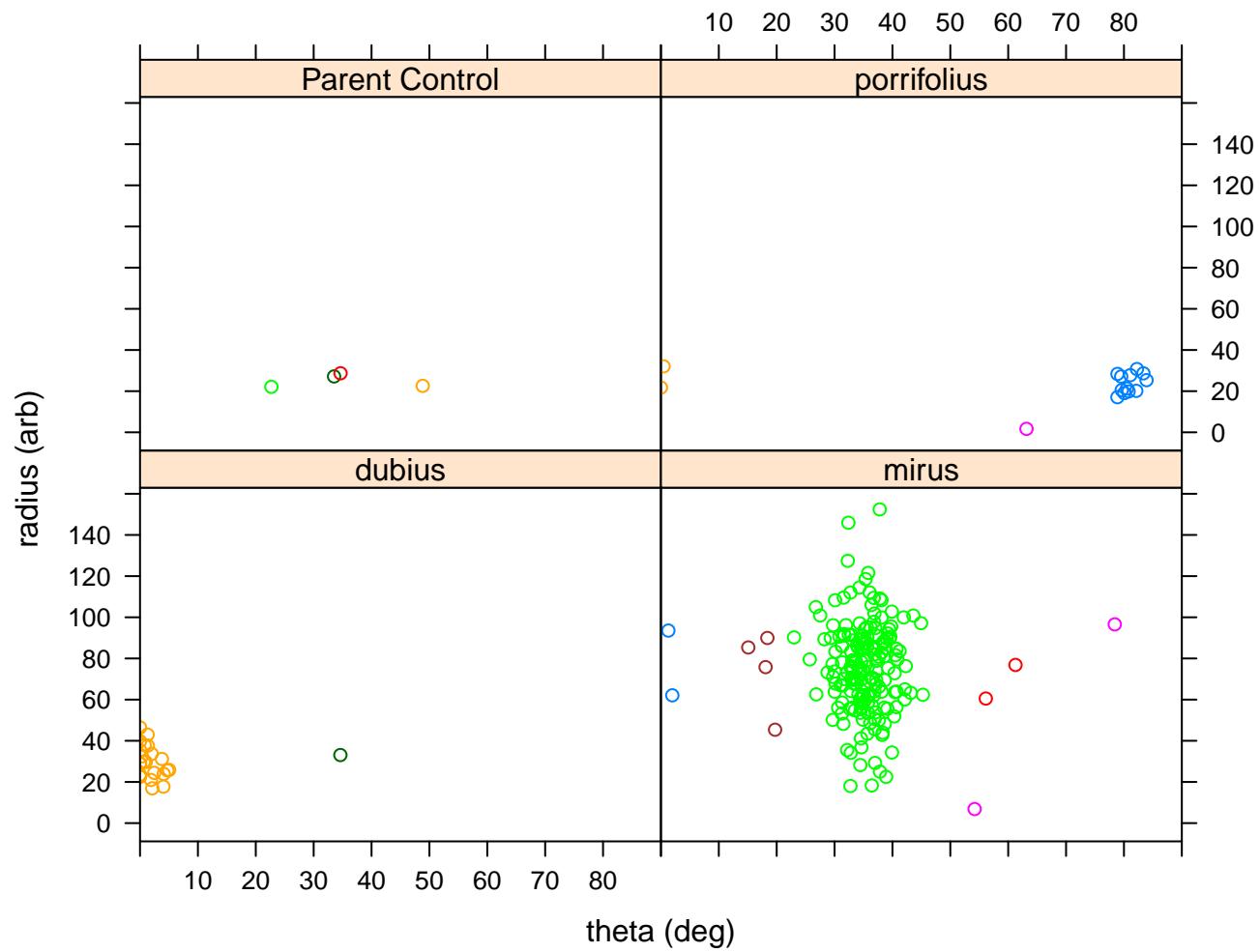
10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig21026_212 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig21027_201 gDNA

Call

HH	○	LLLH	○
HHHH	○	LLLL	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

120
110
100
90
80
70
60
50
40
30
20

dubius

mirus

120
110
100
90
80
70
60
50
40
30
20

radius (arb)

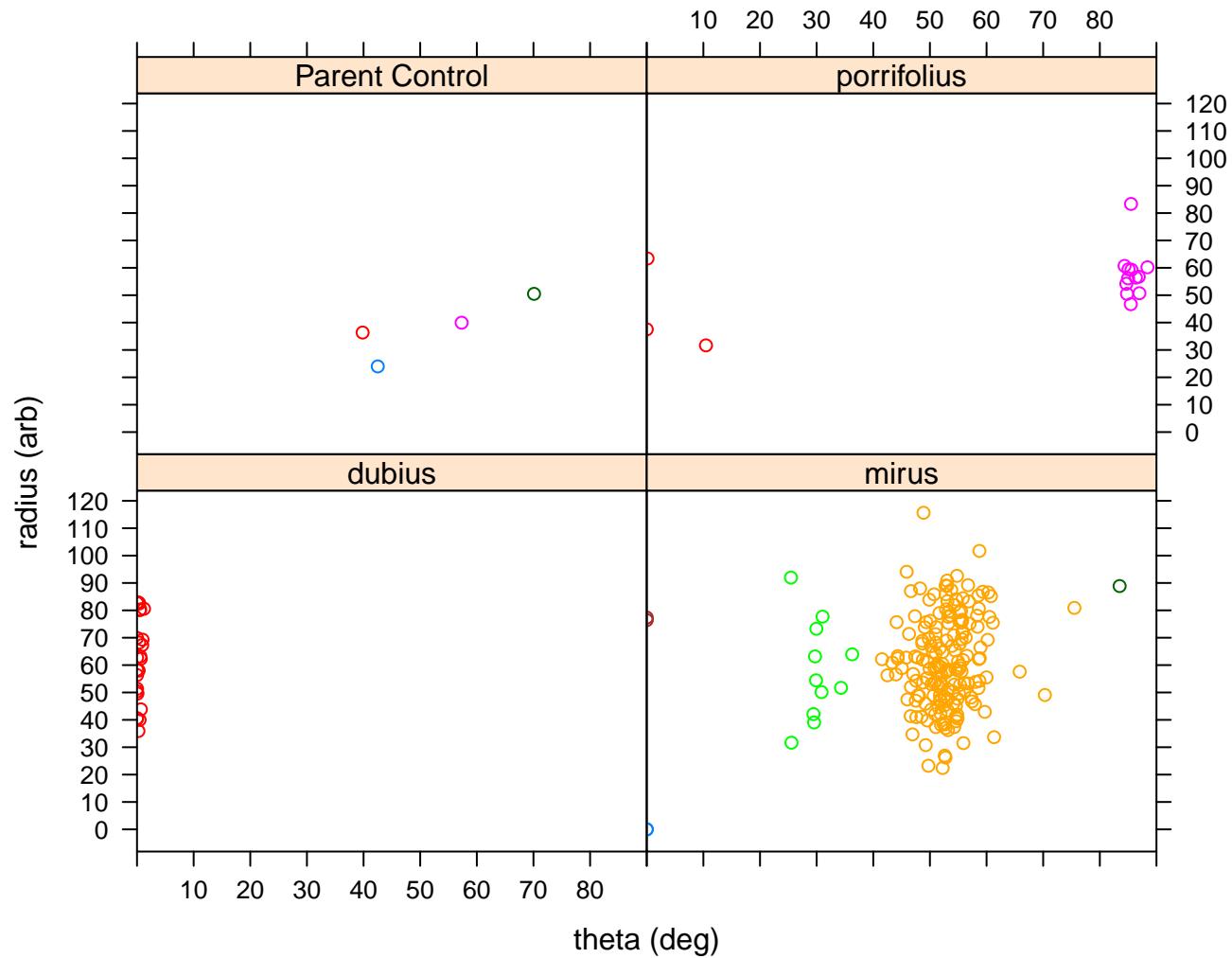
10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig21027_201 cDNA

Call

Bad_Spectrum	LLLL	○
HH	PM1	○
HHHH	PM2_1_1	○
LL	PM2_1_2	○
LLHH	PM2_2_1	○
LLLH		○



V_2_5_isotig21047_115 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		

10 20 30 40 50 60 70 80

Parent Control

porrifolius

120
110
100
90
80
70
60
50
40
30
20
10

dubius

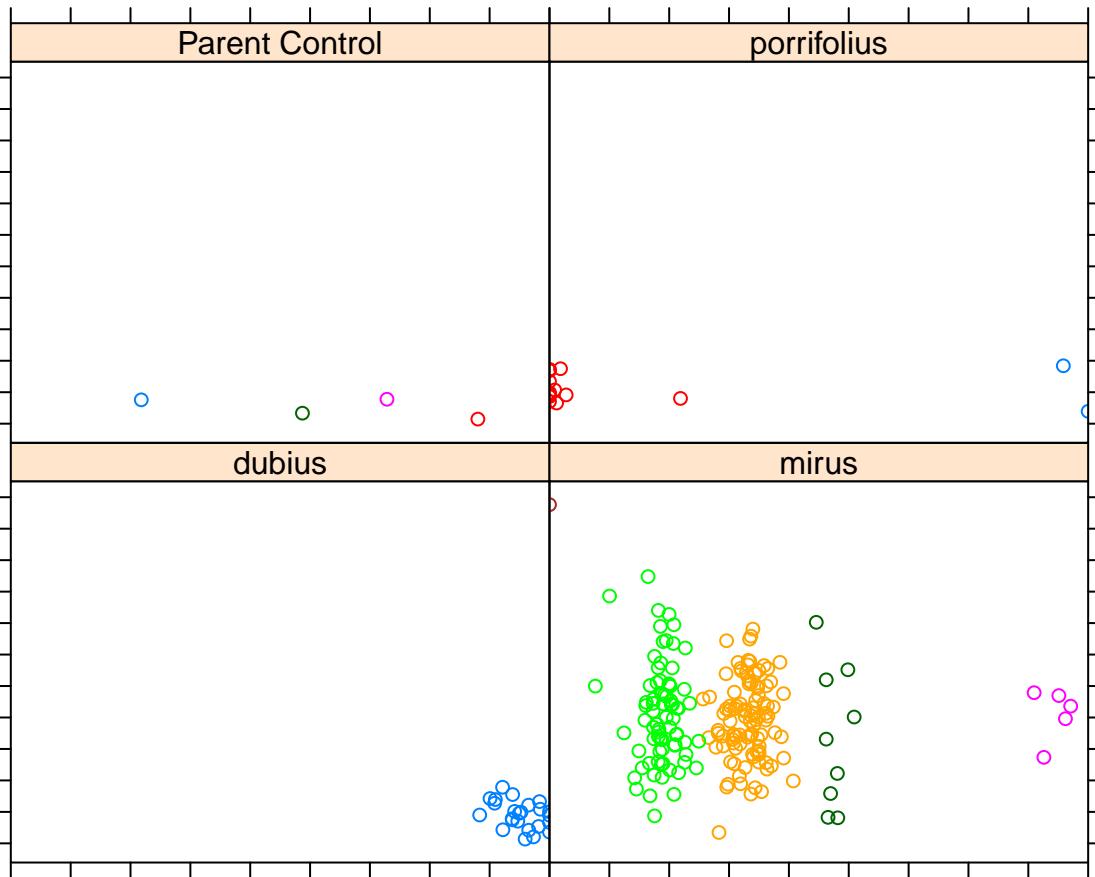
mirus

120
110
100
90
80
70
60
50
40
30
20
10

10 20 30 40 50 60 70 80

theta (deg)

radius (arb)



V_2_5_isotig21047_115 cDNA

Call

HH	○	LLLL	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

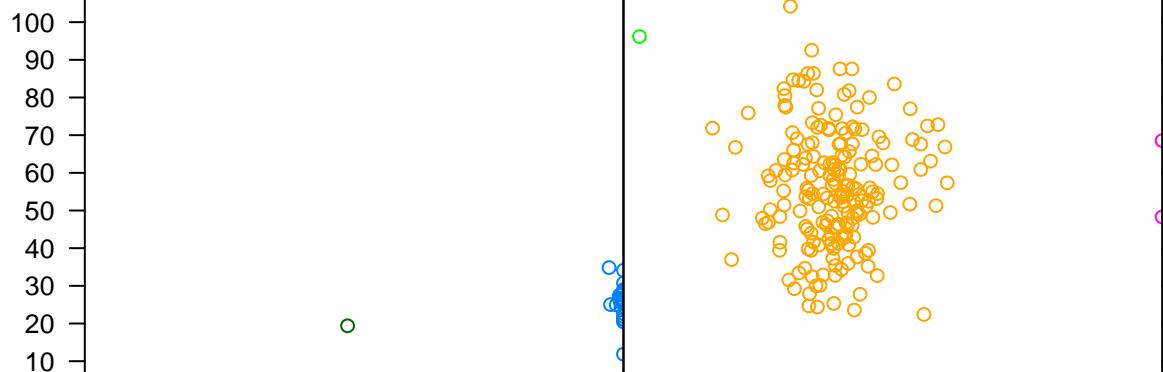
porrifolius

100
90
80
70
60
50
40
30
20
10

radius (arb)

dubius

mirus

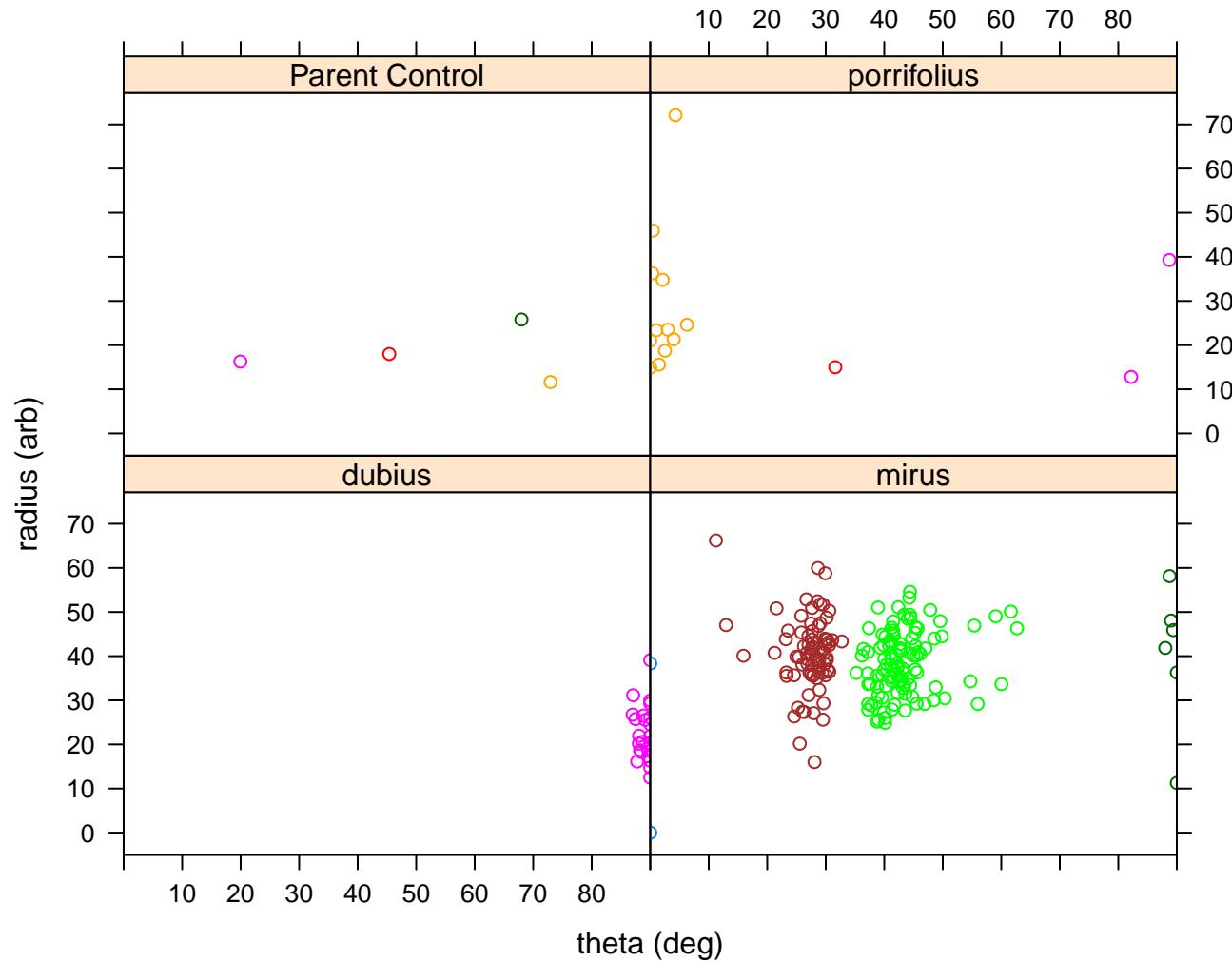


theta (deg)

V_2_5_isotig21047_61 gDNA

Call

Bad_Spectrum	LLLH	○	○
HH	LLLL	○	○
HHHH	PM1	○	○
LH	PM2_1_1	○	○
LL	PM2_1_2	○	○
LLHH	PM2_2_1	○	○



V_2_5_isotig21047_61 cDNA

Call

HH	○	LLLL	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

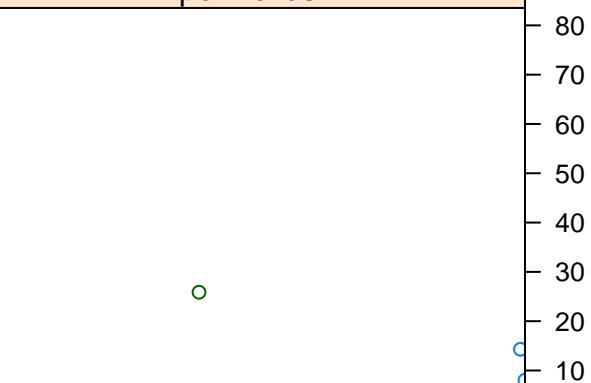
Parent Control

porrifolius

radius (arb)

dubius

mirus



theta (deg)

V_2_5_isotig21100_167 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

160
140
120
100
80
60
40
20
0

dubius

mirus

radius (arb)

160
140
120
100
80
60
40
20
0

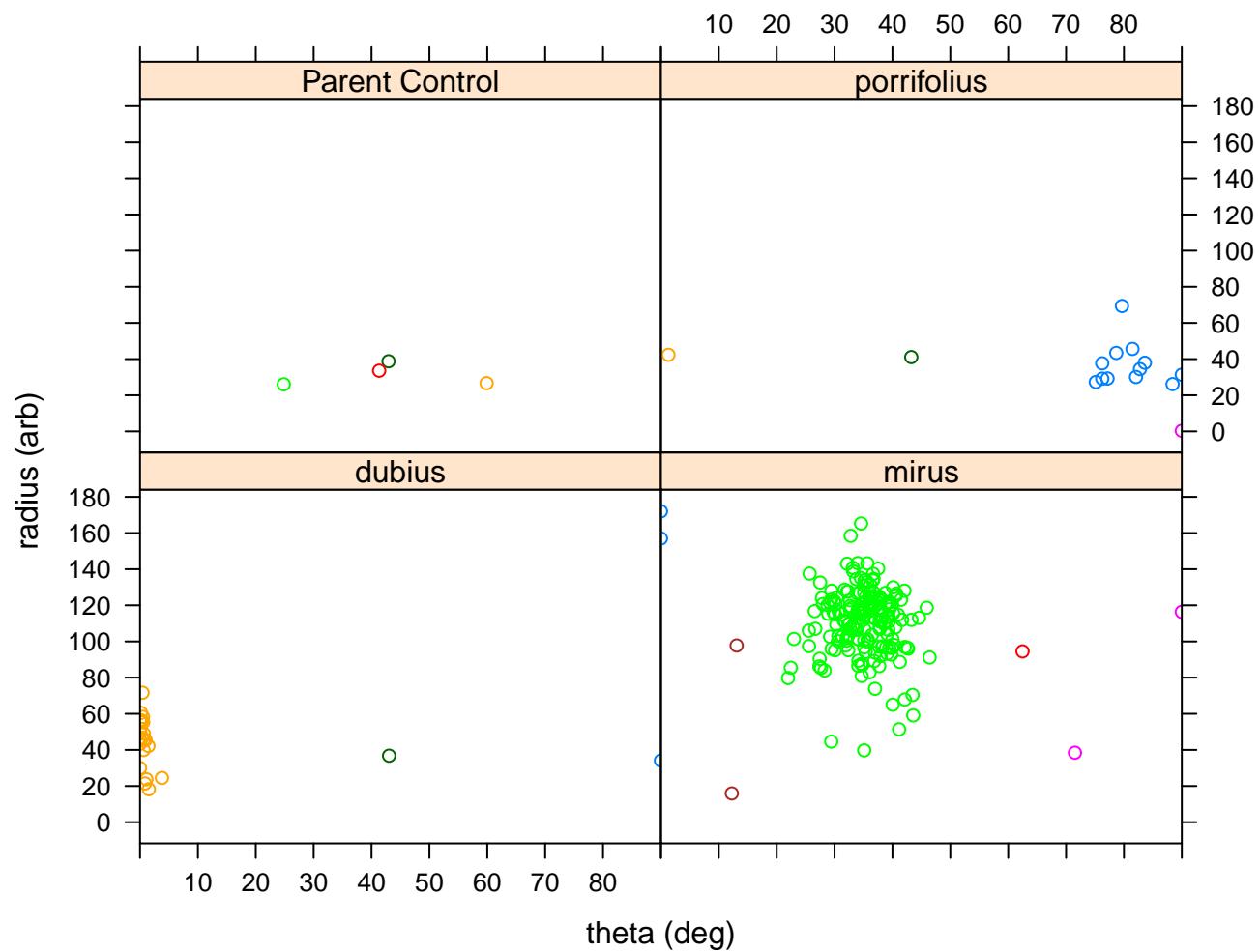
10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig21100_167 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig21149_58 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

110
100
90
80
70
60
50
40
30
20
10
0

dubius

mirus

110
100
90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

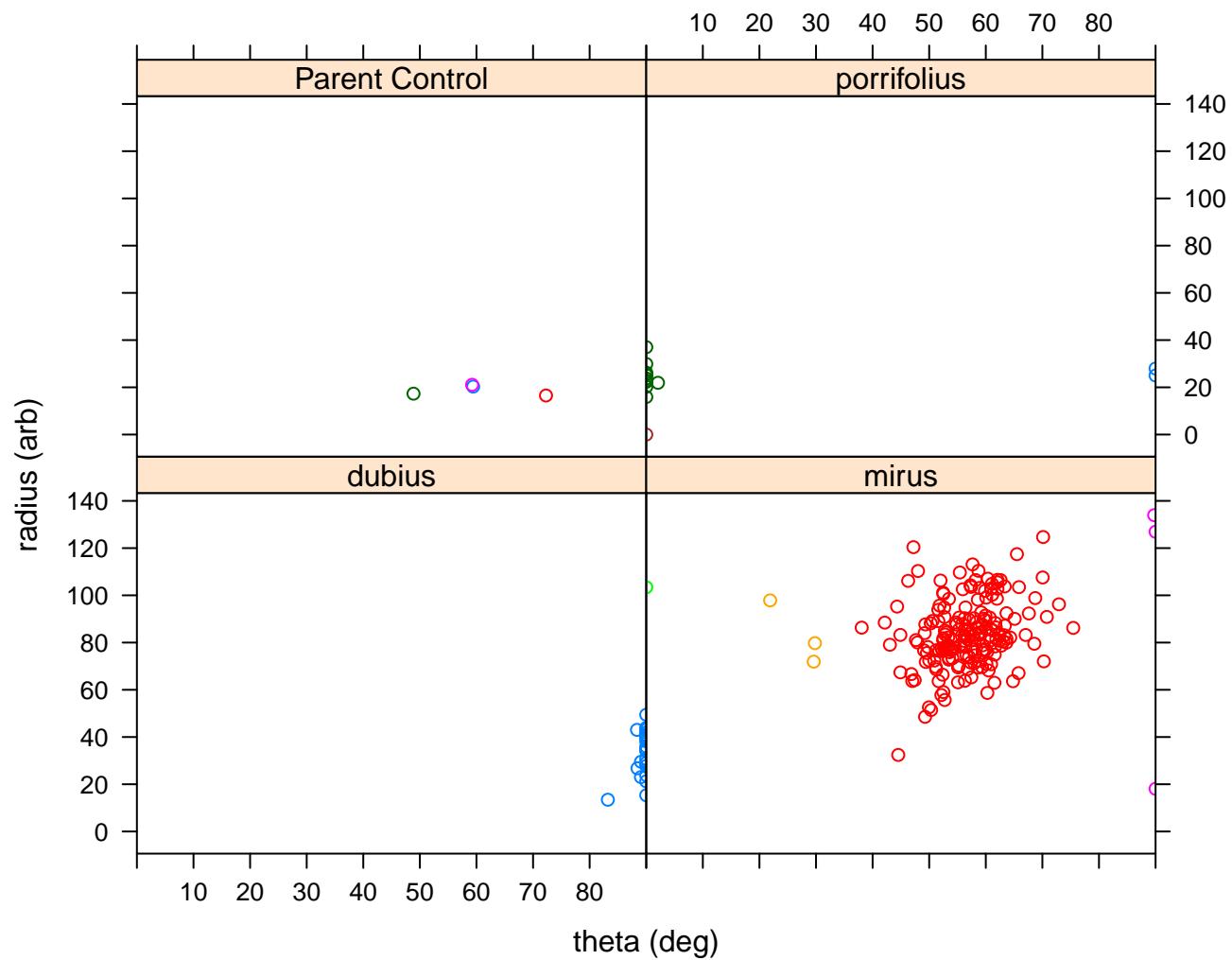
theta (deg)

radius (arb)

V_2_5_isotig21149_58 cDNA

Call

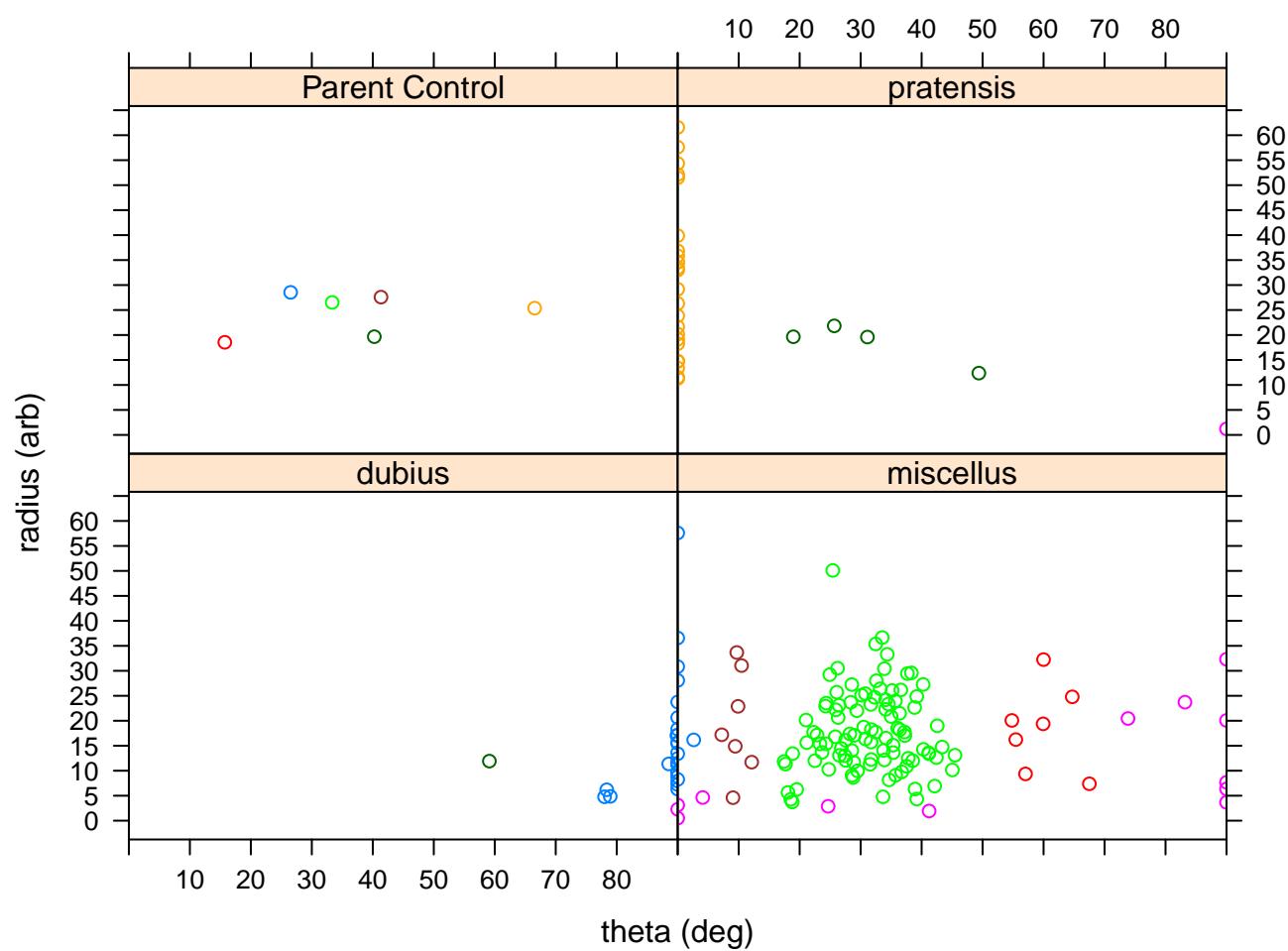
HH	○	No_Aleles	○
HHHH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○
LLLL	○		○



V_2_5_isotig21216_183 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		



V_2_5_isotig21216_207 cDNA

Call

Bad_Spectrum	LLLL
HH	No_Alleles
HHHH	PM3_1_1
LH	PM3_1_2
LHHH	PM3_2_1
LL	PM4
LLHH	PM5
LLLH	PM6

10 20 30 40 50 60 70 80

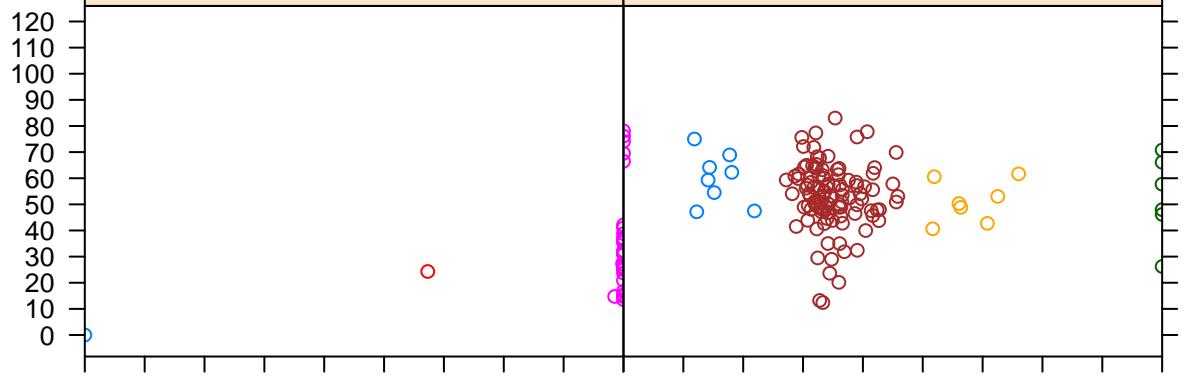
Parent Control

pratensis

120
110
100
90
80
70
60
50
40
30
20
10
0

dubius

miscellus

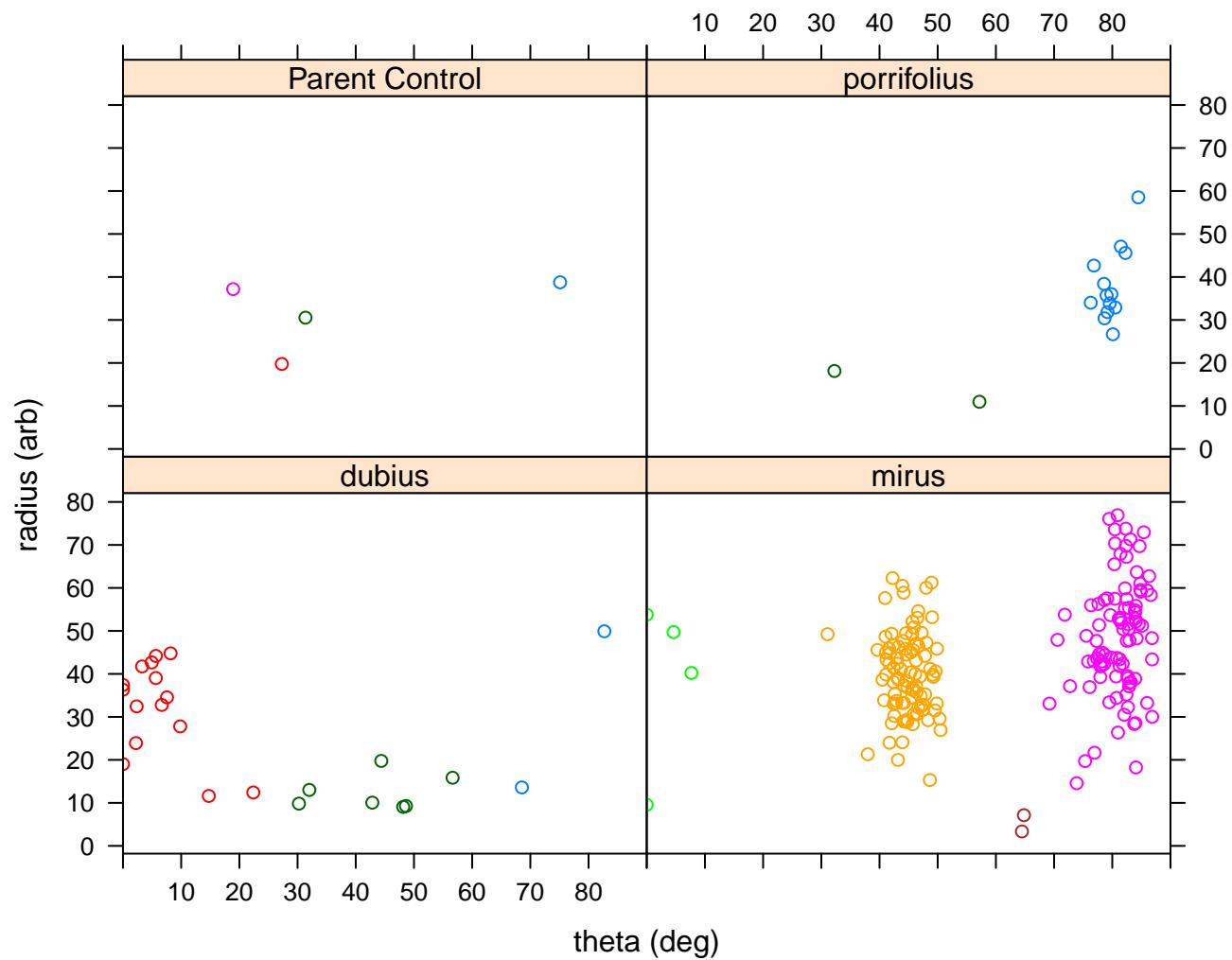


theta (deg)

V_2_5_isotig21234_166 gDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLL	○		



V_2_5_isotig21234_166 cDNA

Call

Bad_Spectrum	LLHH	○	○
HH	PM1	○	○
HHHH	PM2_1_1	○	○
LH	PM2_1_2	○	○
LL	PM2_2_1	○	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

110
100
90
80
70
60
50
40
30
20
10
0

dubius

mirus

110
100
90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

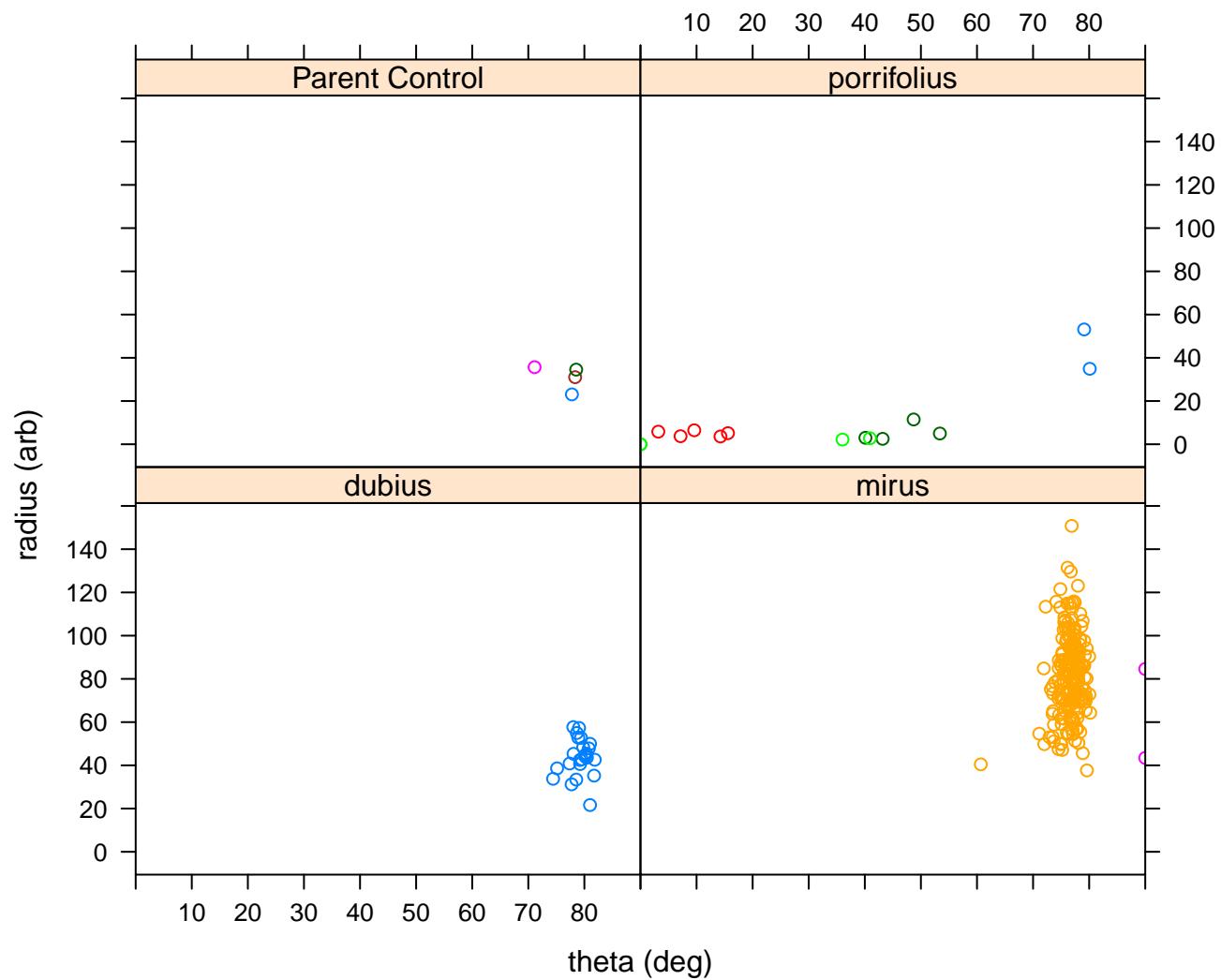
theta (deg)

radius (arb)

V_2_5_isotig21313_234 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○



V_2_5_isotig21345_96 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

Parent Control

porrifolius

35
30
25
20
15
10
5

dubius

mirus

radius (arb)

35
30
25
20
15
10
5

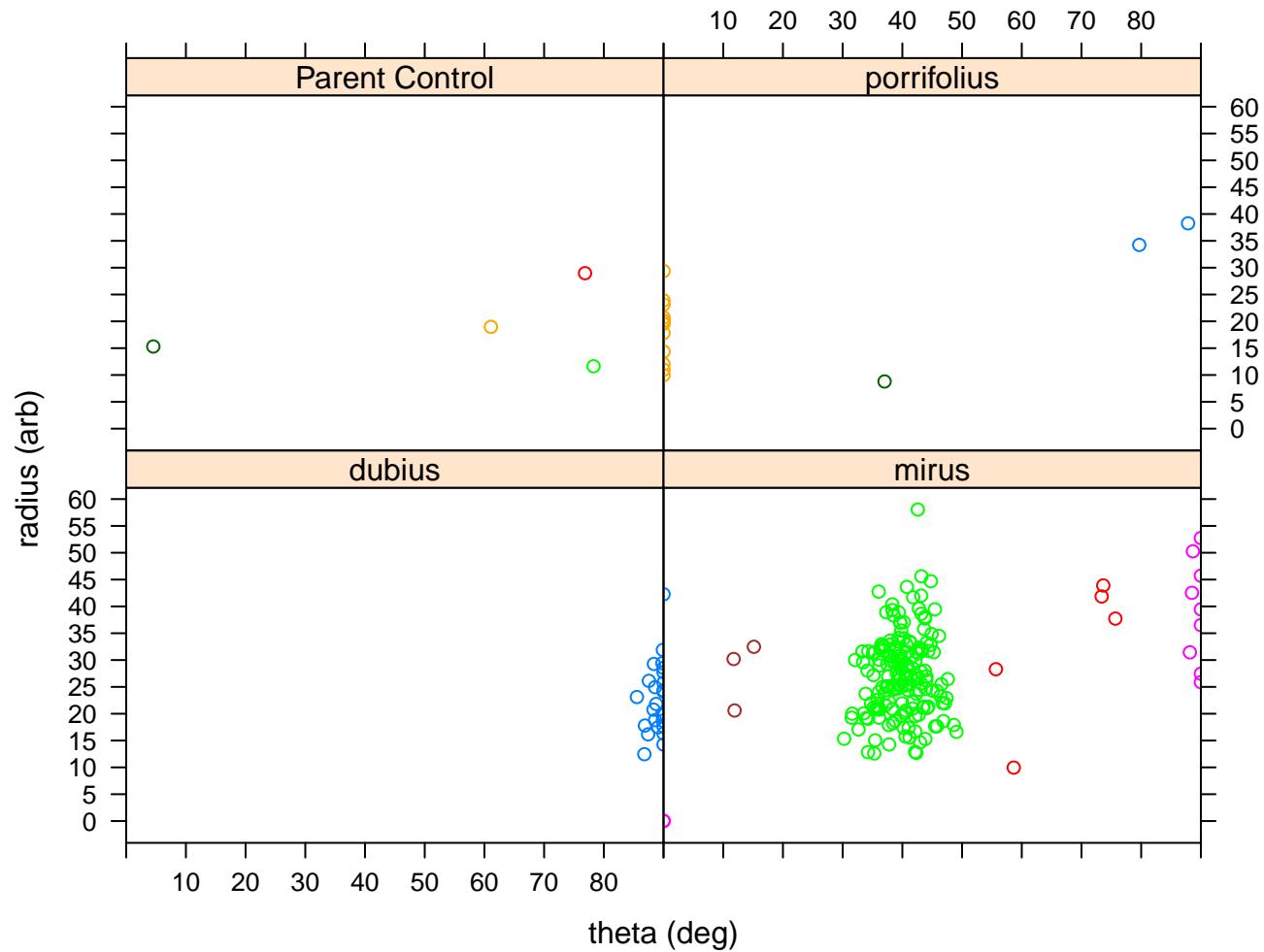
10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig21382_49 gDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LH	○	PM1	○
LHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		

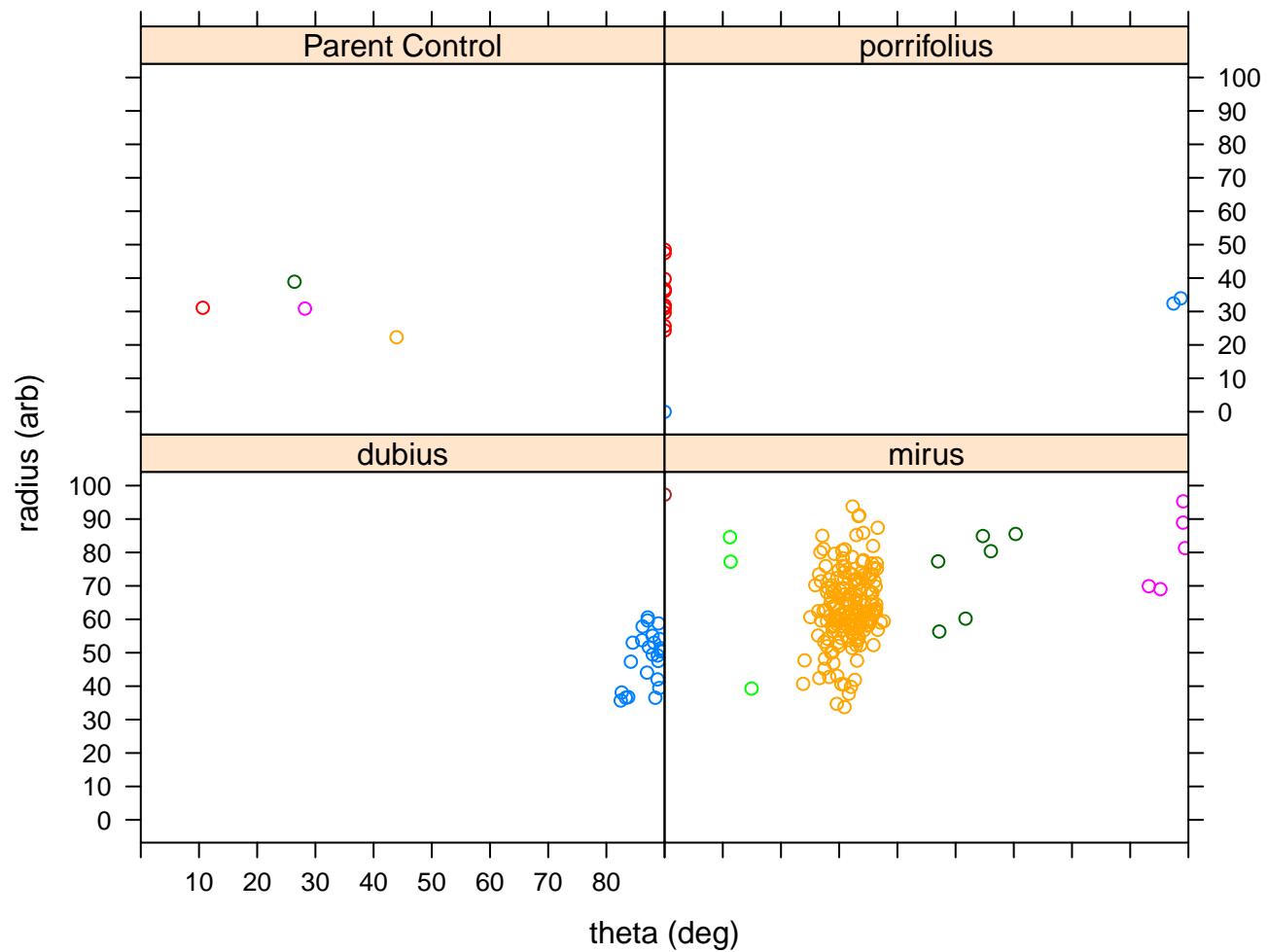


V_2_5_isotig21382_49 cDNA

Call

HH	○	LLLL	○
HHHH	○	No_Aleles	○
LHHH	○	PM1	○
LL	○	PM2_1_1	○
LLHH	○	PM2_1_2	○
LLLH	○	PM2_2_1	○

10 20 30 40 50 60 70 80

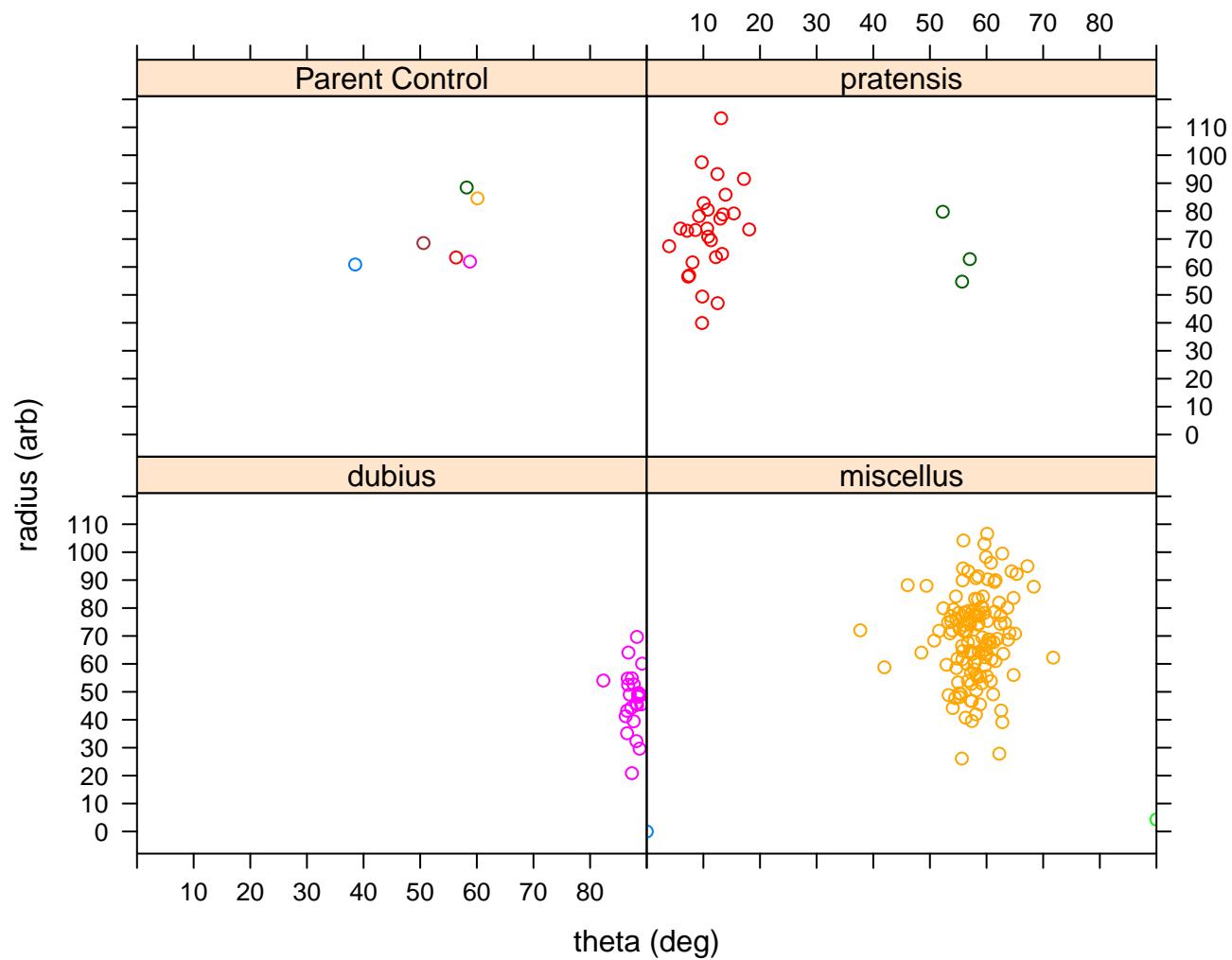


V_2_5_isotig21402_70 gDNA

Call

Bad_Spectrum
HH
LH
LL
LLHH
No_Alleles

PM3_1_1
PM3_1_2
PM3_2_1
PM4
PM5
PM6



V_2_5_isotig21402_70 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LL	○	PM3_2_1	○
LLHH	○	PM4	○
LLLH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

130
120
110
100
90
80
70
60
50
40
30
20
10
0

dubius

miscellus

130
120
110
100
90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

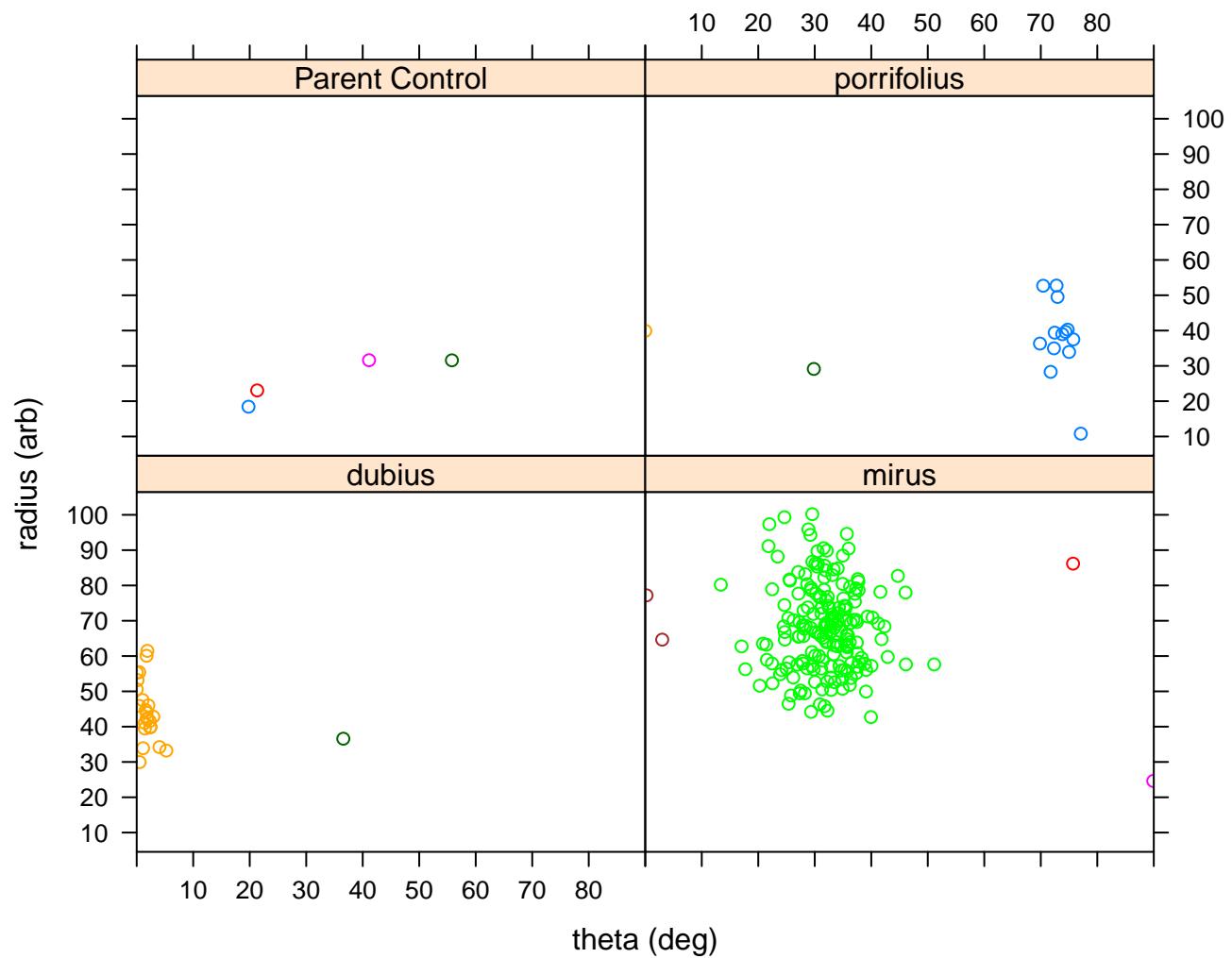
theta (deg)

radius (arb)

V_2_5_isotig21407_189 cDNA

Call

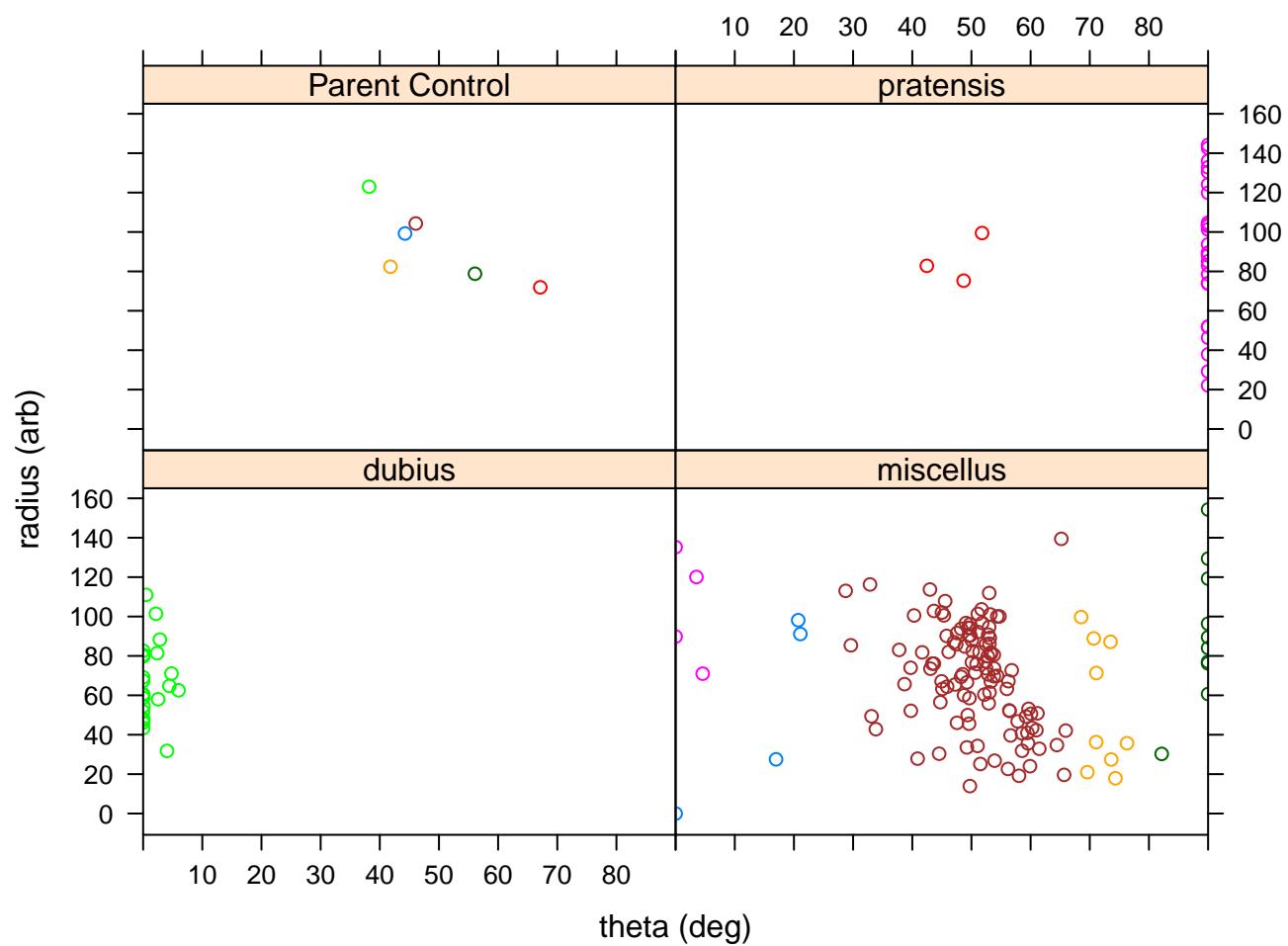
HH	○	LLLL	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LHHH	○	PM2_1_2	○
LL	○	PM2_2_1	○
LLHH	○		



V_2_5_isotig21491_99 gDNA

Call

Bad_Spectrum	LLLL	Bad_Spectrum	LLLL
HH	PM3_1_1	HH	PM3_1_1
HHHH	PM3_1_2	HHHH	PM3_1_2
LH	PM3_2_1	LH	PM3_2_1
LHHH	PM4	LHHH	PM4
LL	PM5	LL	PM5
LLHH	PM6	LLHH	PM6
LLLH		LLLH	



V_2_5_isotig21491_99 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

pratensis

radius (arb)

10 20 30 40 50 60 70 80

theta (deg)

dubius

miscellus

10

20

30

40

50

60

70

80

90

100

110

120

130

140

150

160

170

180

190

200

210

220

230

240

250

260

270

280

290

300

310

320

330

340

350

360

370

380

390

400

410

420

430

440

450

460

470

480

490

500

510

520

530

540

550

560

570

580

590

600

610

620

630

640

650

660

670

680

690

700

710

720

730

740

750

760

770

780

790

800

810

820

830

840

850

860

870

880

890

900

910

920

930

940

950

960

970

980

990

1000

1010

1020

1030

1040

1050

1060

1070

1080

1090

1100

1110

1120

1130

1140

1150

1160

1170

1180

1190

1200

1210

1220

1230

1240

1250

1260

1270

1280

1290

1300

1310

1320

1330

1340

1350

1360

1370

1380

1390

1400

1410

1420

1430

1440

1450

1460

1470

1480

1490

1500

1510

1520

1530

1540

1550

1560

1570

1580

1590

1600

1610

1620

1630

1640

1650

1660

1670

1680

1690

1700

1710

1720

1730

1740

1750

1760

1770

1780

1790

1800

1810

1820

1830

1840

1850

1860

1870

1880

1890

1900

1910

1920

1930

1940

1950

1960

1970

1980

1990

2000

2010

2020

2030

2040

2050

2060

2070

2080

2090

2100

2110

2120

2130

2140

2150

2160

2170

2180

2190

2200

2210

2220

2230

2240

2250

2260

2270

2280

2290

2300

2310

2320

2330

2340

2350

2360

2370

2380

2390

2400

2410

2420

2430

2440

2450

2460

2470

2480

2490

2500

2510

2520

2530

2540

2550

2560

2570

2580

2590

2600

2610

2620

2630

2640

2650

2660

2670

2680

2690

2700

2710

2720

2730

2740

2750

2760

2770

2780

2790

2800

2810

2820

2830

2840

2850

2860

2870

2880

2890

2900

2910

2920

2930

2940

2950

2960

2970

V_2_5_isotig21492_200 gDNA

Call

HH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

90
80
70
60
50
40

dubius

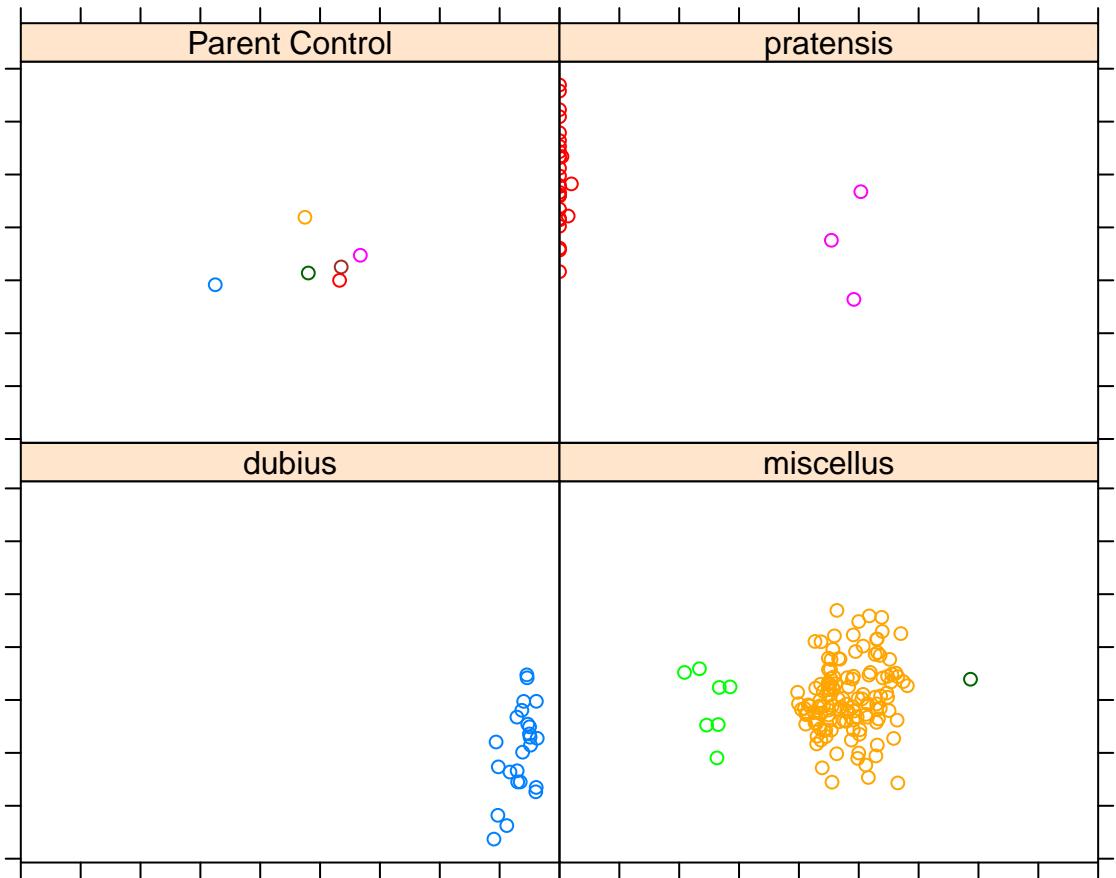
miscellus

90
80
70
60
50
40

radius (arb)

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig21492_200 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

90
80
70
60
50
40
30
20
10
0

dubius

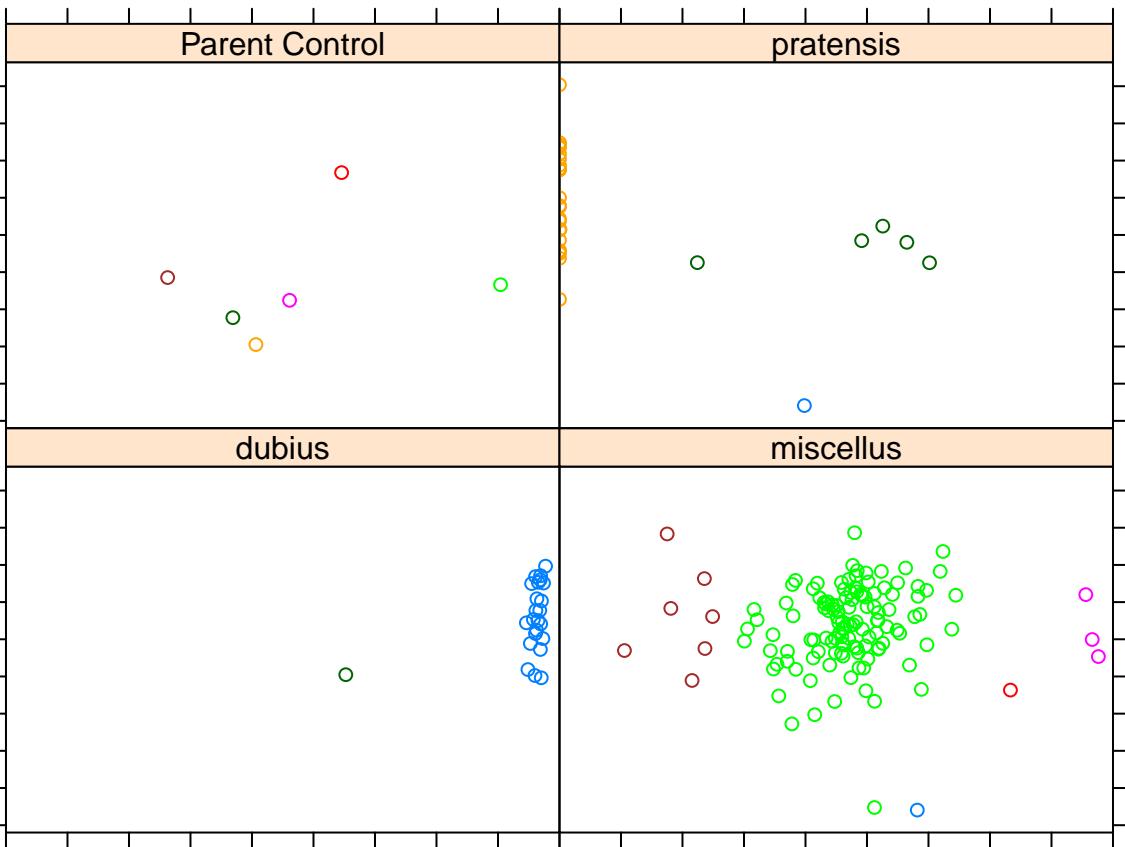
miscellus

radius (arb)

90
80
70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)



V_2_5_isotig21507_97 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

60
50
40
30
20
10
0

radius (arb)

dubius

miscellus

60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)

60
50
40
30
20
10
0

V_2_5_isotig21507_97 cDNA

Call

HH	○	No_Aleles	○
HHHH	○	PM3_1_1	○
LHHH	○	PM3_1_2	○
LL	○	PM3_2_1	○
LLHH	○	PM4	○
LLLH	○	PM5	○
LLLL	○	PM6	○

10 20 30 40 50 60 70 80

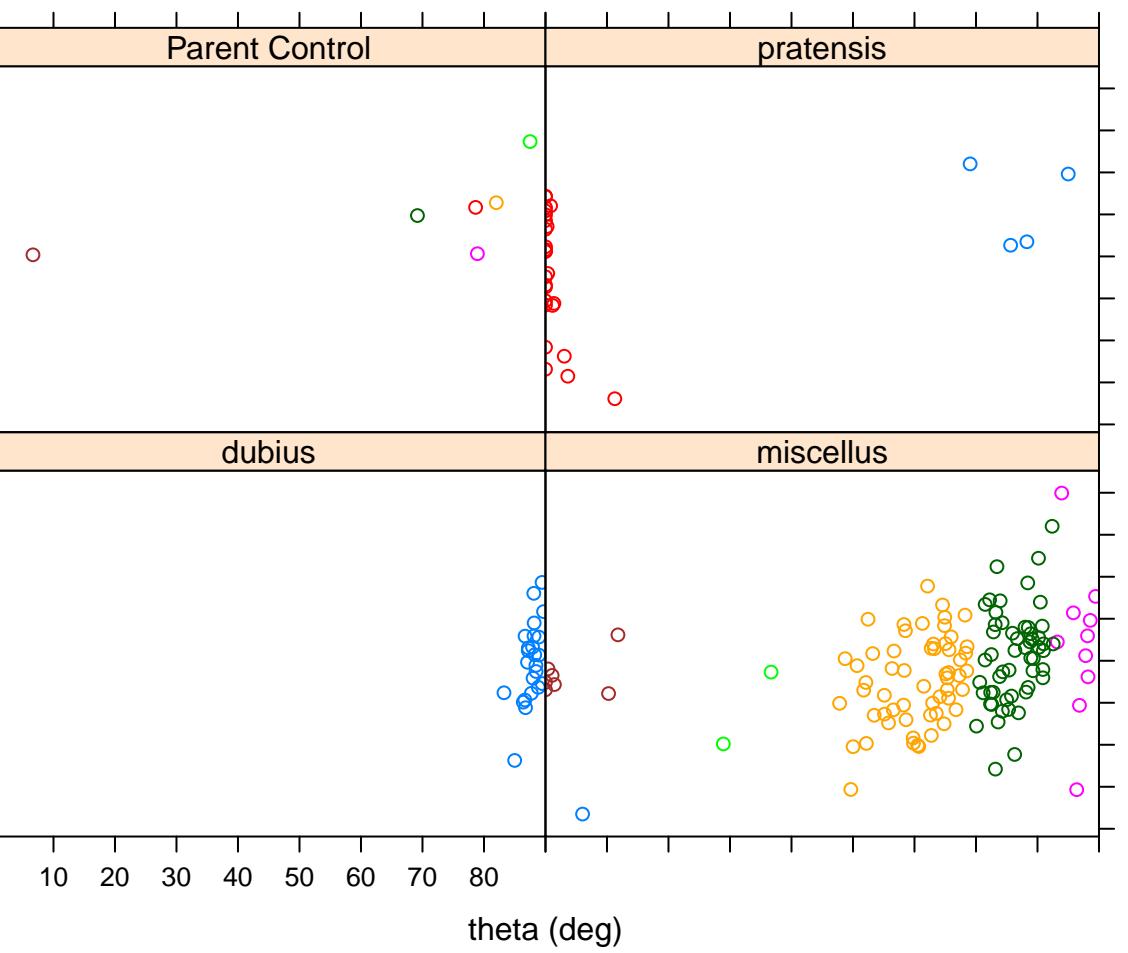
Parent Control

pratensis

radius (arb)

dubius

miscellus



V_2_5_isotig21525_90 cDNA

Call

HH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LL	○	PM3_2_1	○
LLHH	○	PM4	○
LLLL	○	PM5	○
No_Alleles	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

radius (arb)

70
60
50
40
30
20
10
0

dubius

miscellus

70
60
50
40
30
20
10
0

10 20 30 40 50 60 70 80

theta (deg)

V_2_5_isotig21557_100 gDNA

Call

Bad_Spectrum
HH
HHHH
LH
LHHH
LL
LLHH
LLLH

LLLL
PM3_1_1
PM3_1_2
PM3_2_1
PM4
PM5
PM6

purple

green

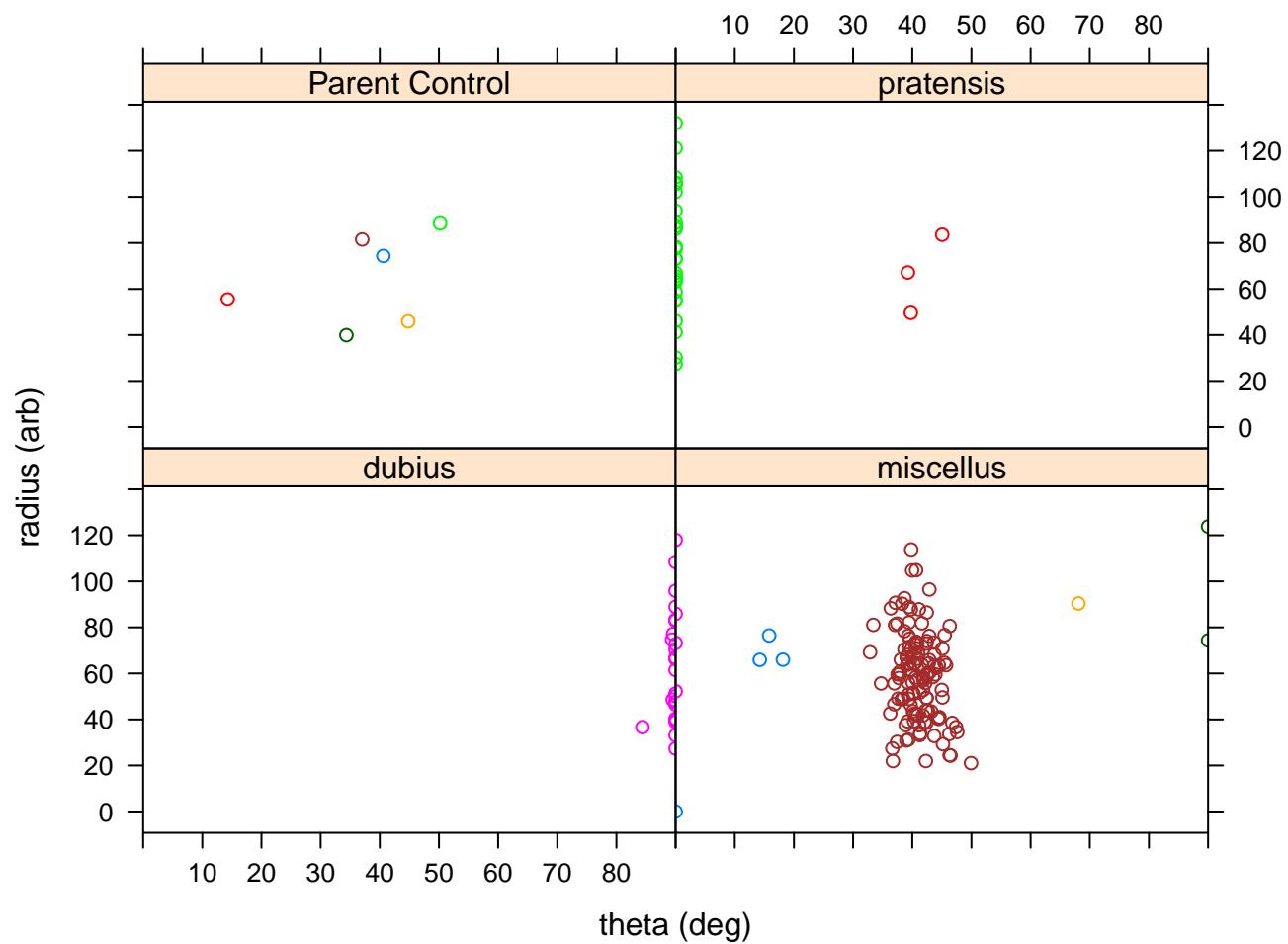
red

orange

green

red

blue



V_2_5_isotig21557_100 cDNA

Call

HH	○	LLLL	○
HHHH	○	PM3_1_1	○
LH	○	PM3_1_2	○
LHHH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
LLLH	○	PM6	○

10 20 30 40 50 60 70 80

Parent Control

pratensis

140
120
100
80
60
40
20
0

dubius

miscellus

radius (arb)

140
120
100
80
60
40
20
0

10 20 30 40 50 60 70 80

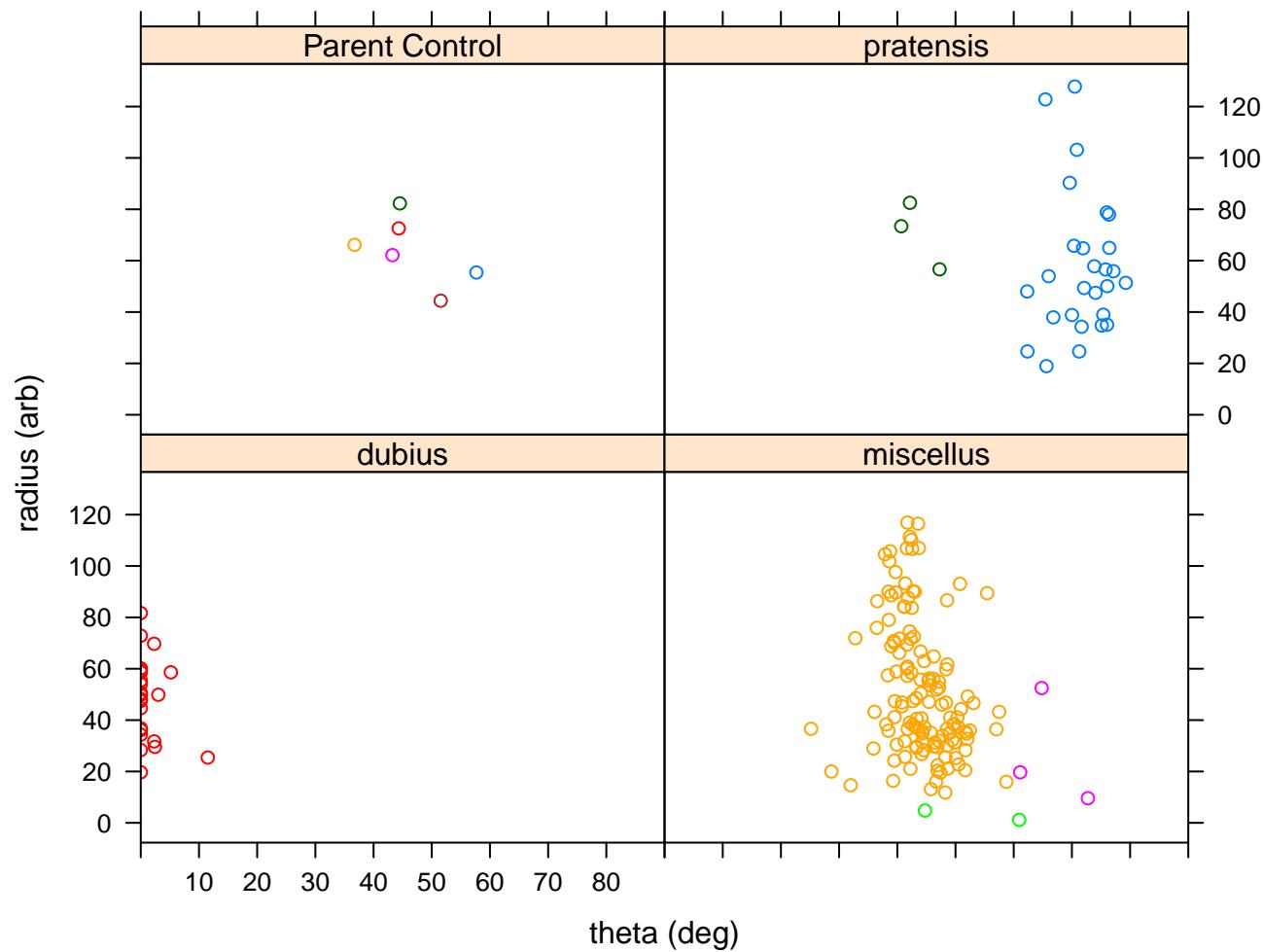
theta (deg)

V_2_5_isotig21624_104 gDNA

Call

HH	○	PM3_1_1	○
HHHH	○	PM3_1_2	○
LH	○	PM3_2_1	○
LL	○	PM4	○
LLHH	○	PM5	○
No_Alleles	○	PM6	○

10 20 30 40 50 60 70 80

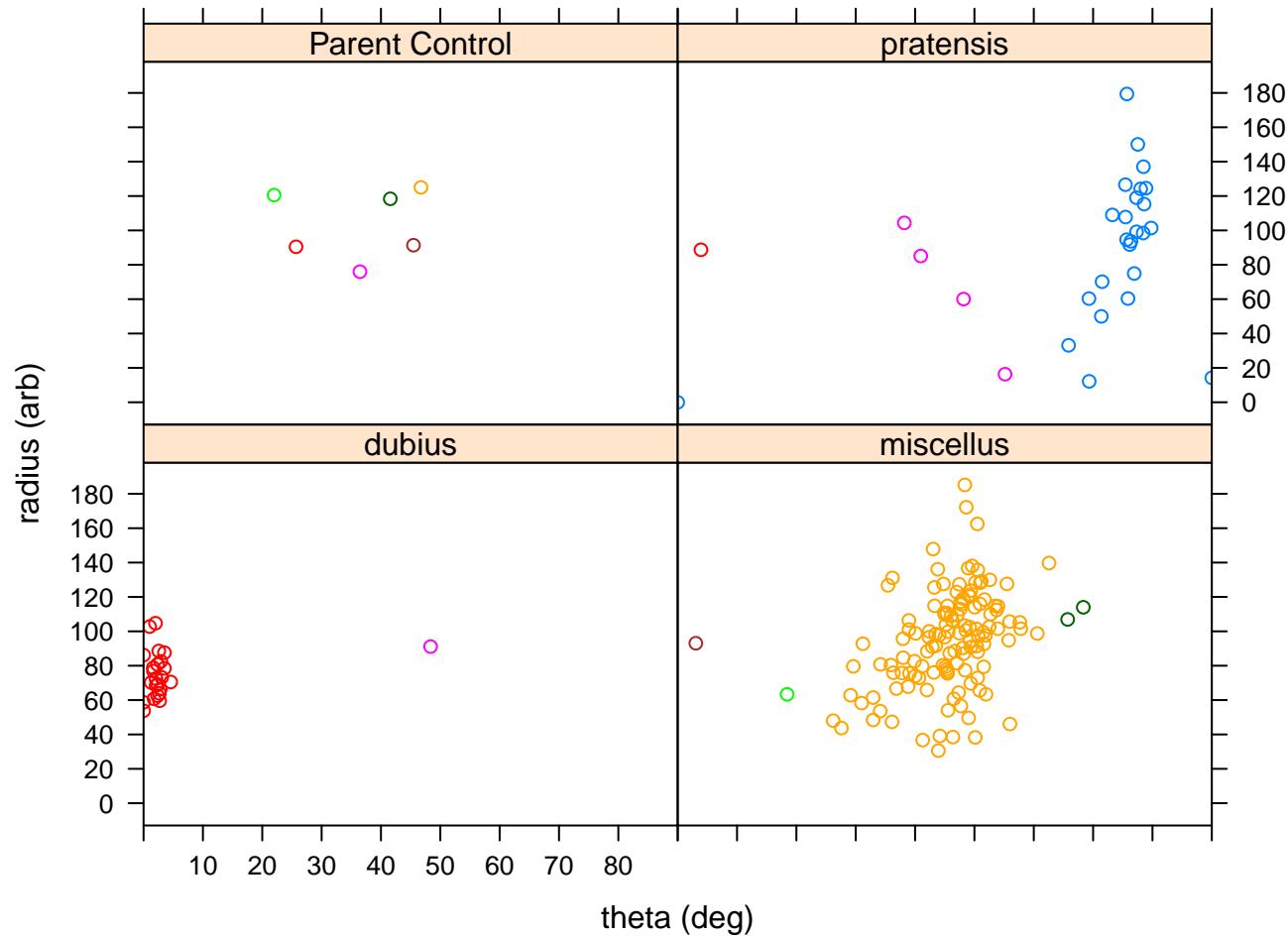


V_2_5_isotig21624_104 cDNA

Call

HH	○	No_Aleles	○
LH	○	PM3_1_1	○
LHHH	○	PM3_1_2	○
LL	○	PM3_2_1	○
LLHH	○	PM4	○
LLLH	○	PM5	○
LLLL	○	PM6	○

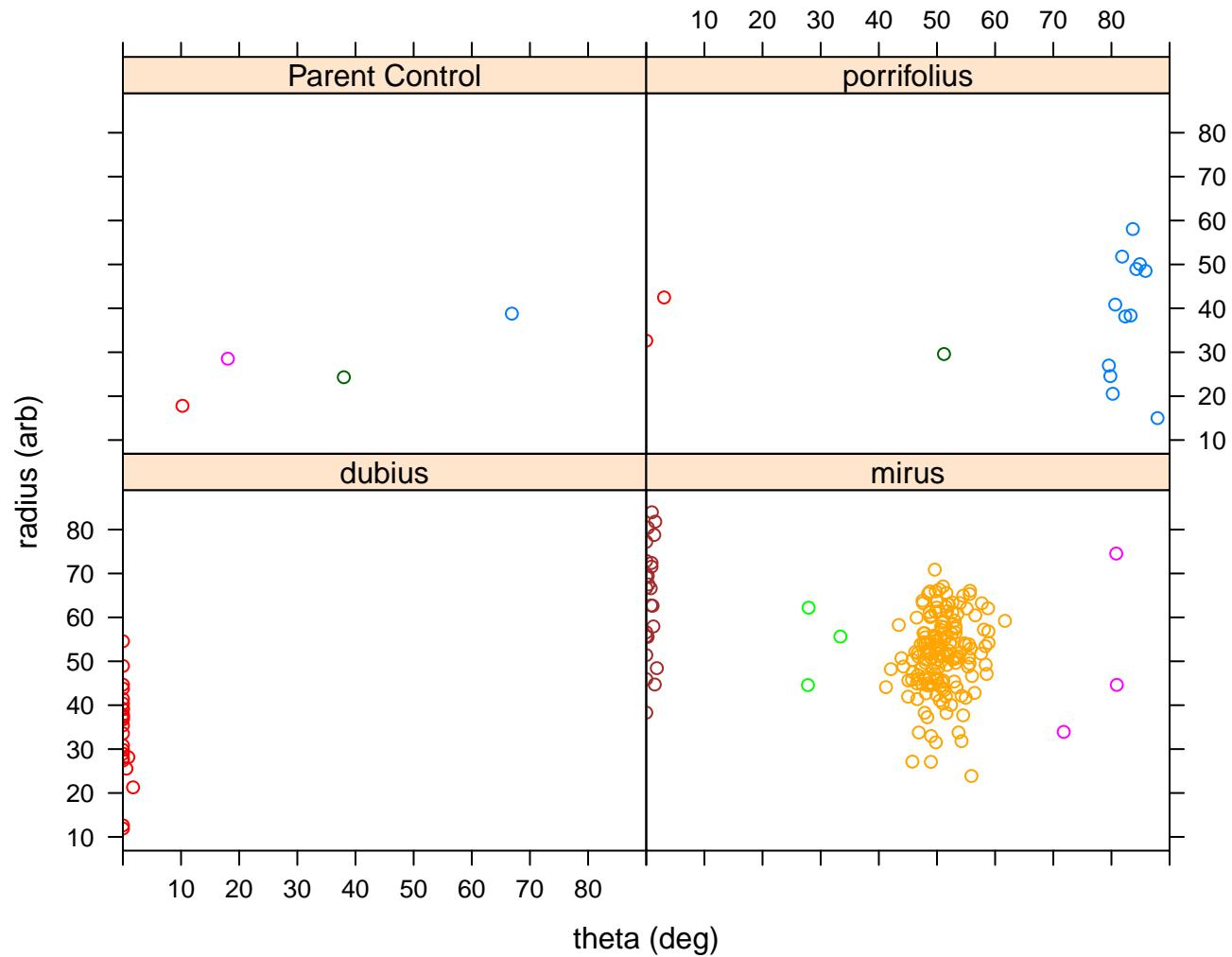
10 20 30 40 50 60 70 80



V_2_5_isotig21630_104 gDNA

Call

HH	○	LLLL	○
HHHH	○	PM1	○
LH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLH	○		



V_2_5_isotig21630_104 cDNA

Call

HH	○	PM1	○
HHHH	○	PM2_1_1	○
LL	○	PM2_1_2	○
LLHH	○	PM2_2_1	○
LLLL	○		

10 20 30 40 50 60 70 80

Parent Control

porrifolius

100
90
80
70
60
50
40
30
20

dubius

mirus

100
90
80
70
60
50
40
30
20

radius (arb)

10 20 30 40 50 60 70 80

theta (deg)

