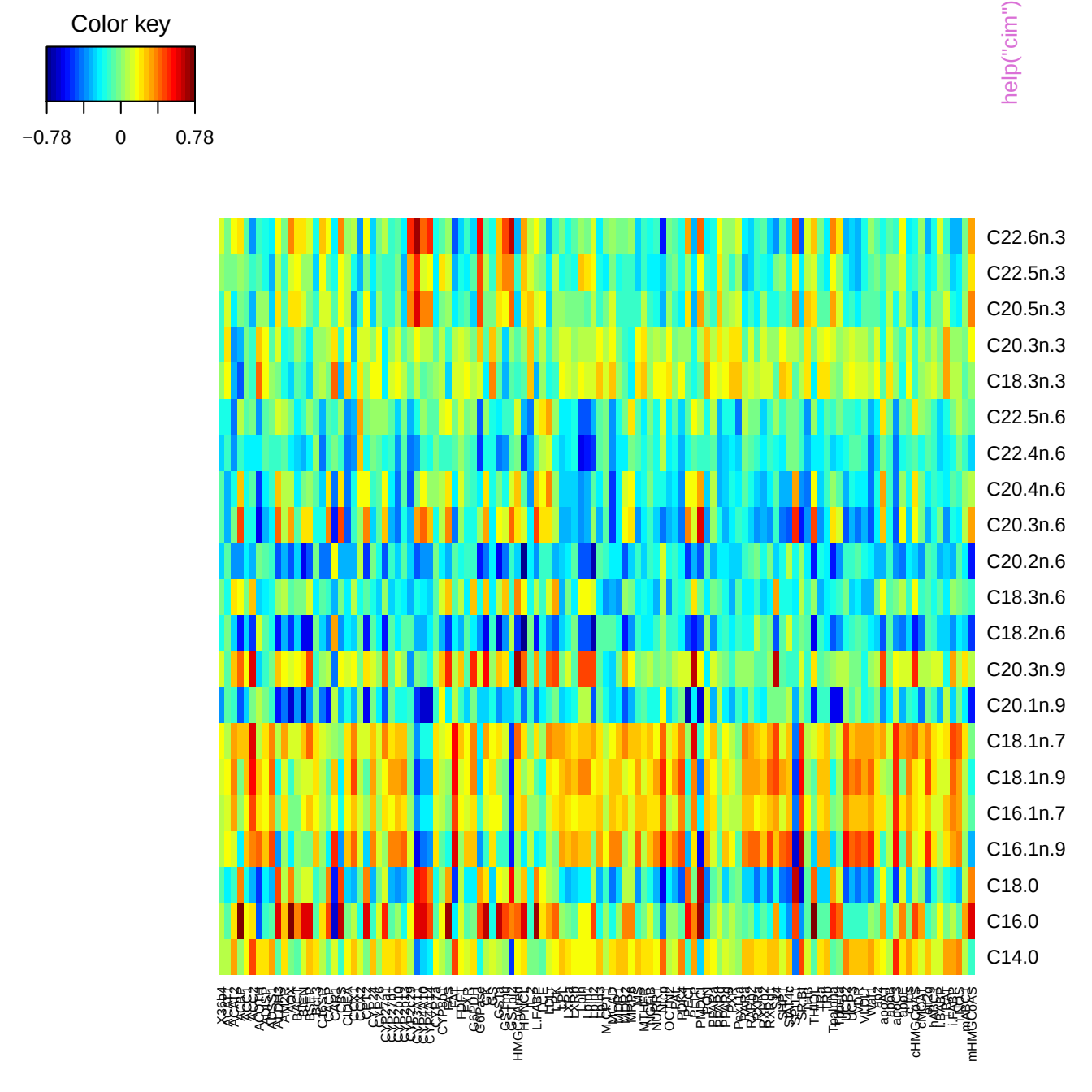
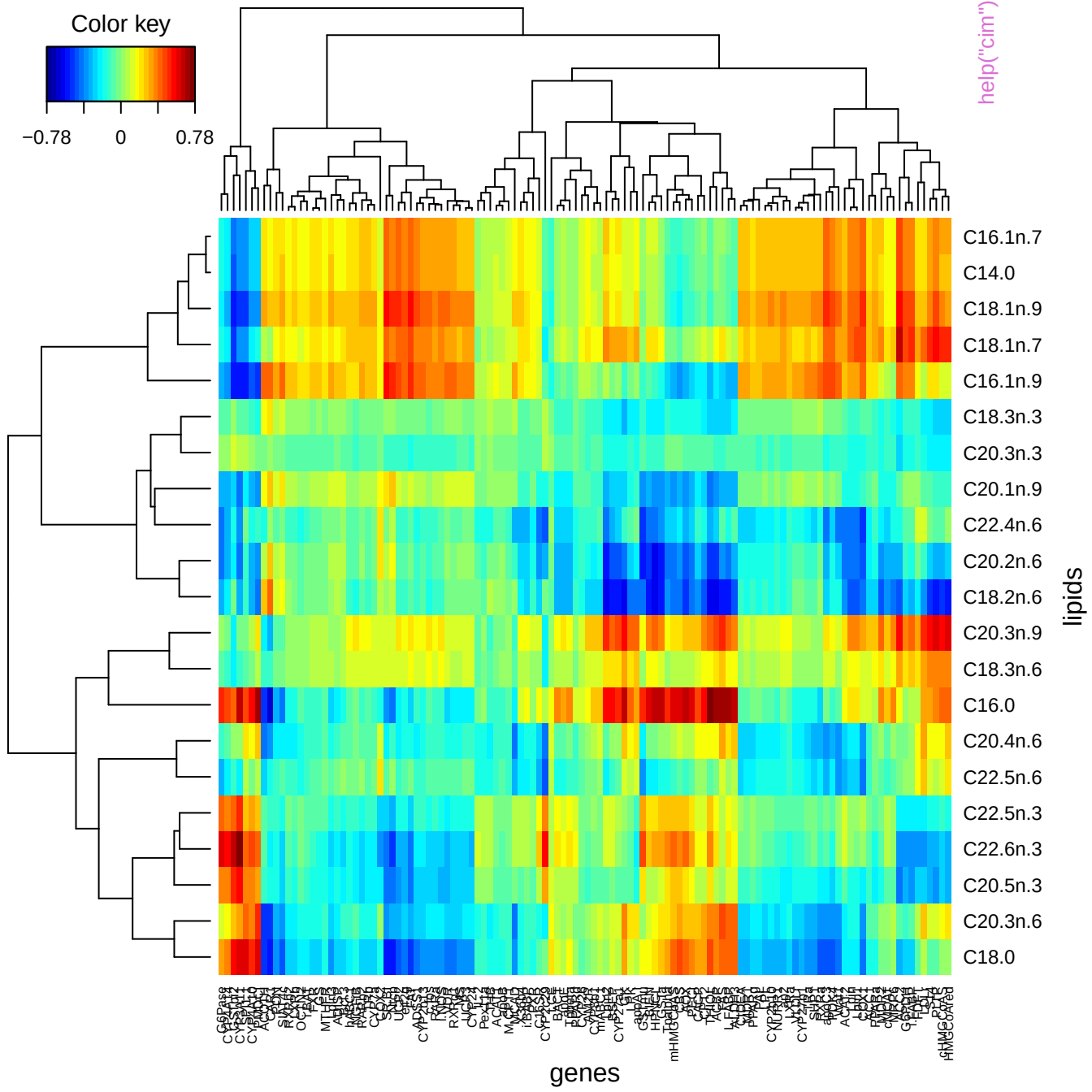
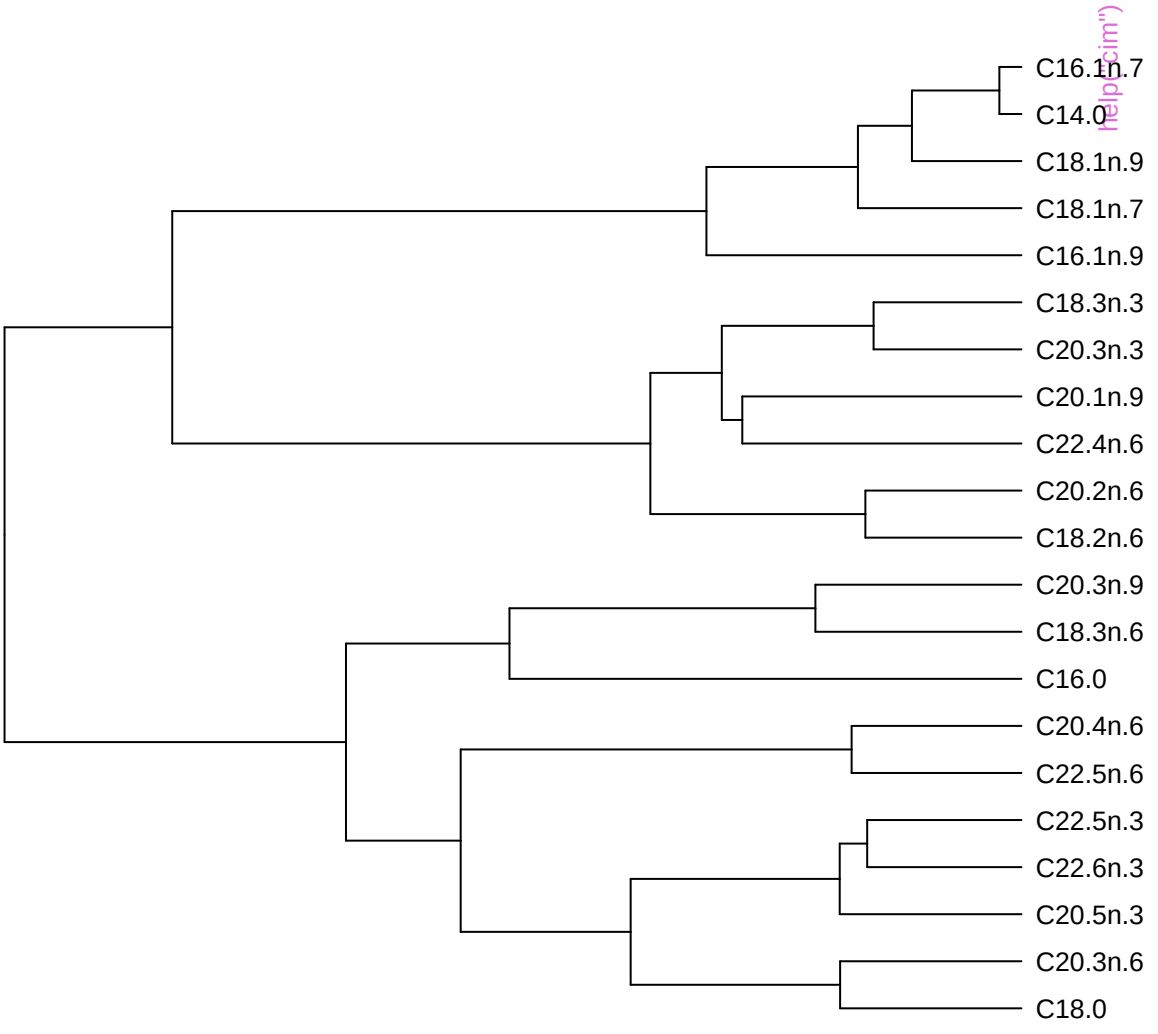
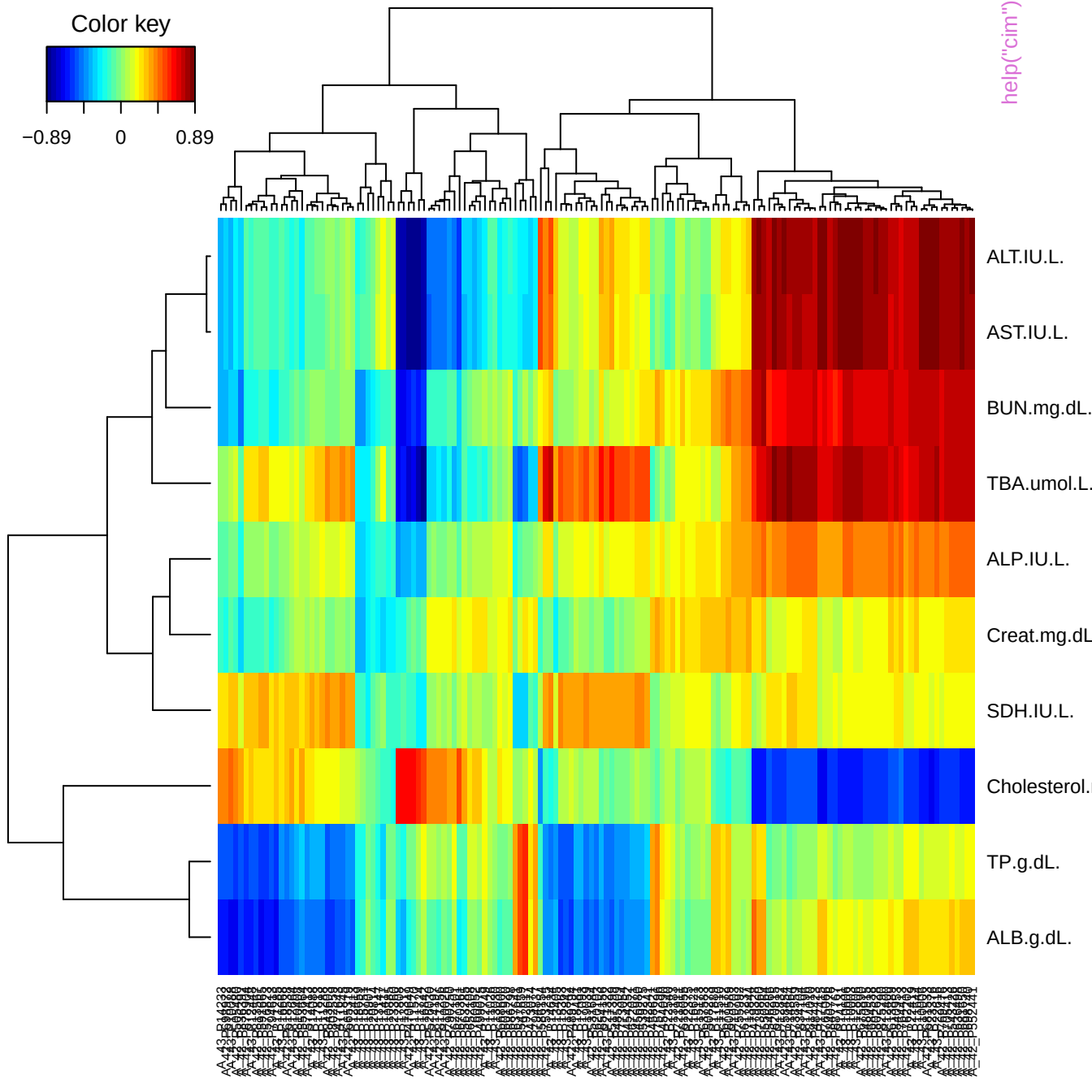
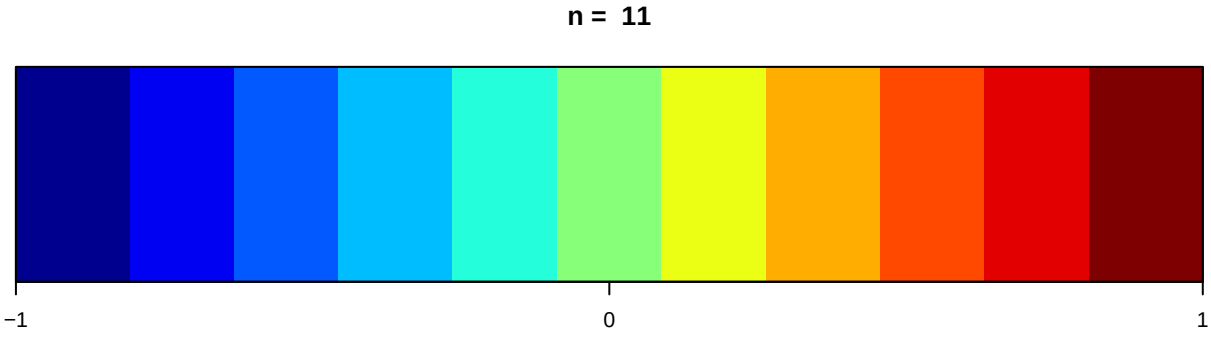
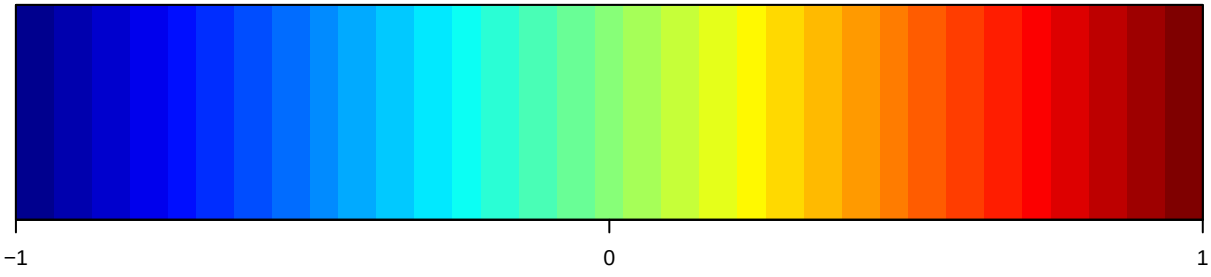

Color key
−0.78
0
0.78
help("cim")
C22.6n.3
C22.5n.3
C20.5n.3
C20.3n.3
C18.3n.3
C22.5n.6
C22.4n.6
C20.4n.6
C20.3n.6
C20.2n.6
C18.3n.6
C18.2n.6
C20.3n.9
C20.1n.9
C18.1n.7
C18.1n.9
C16.1n.7
C16.1n.9
C18.0
C16.0
C14.0

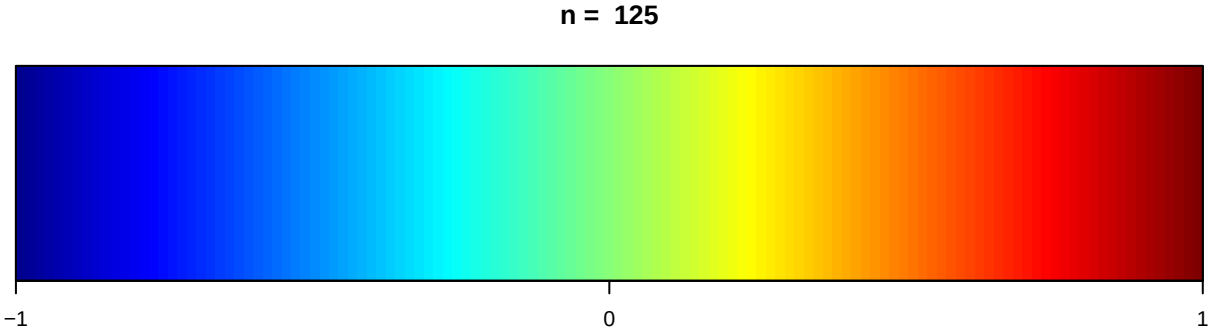

Color key
−0.78
0
0.78
help("cim")
C16.1n.7
C14.0
C18.1n.9
C18.1n.7
C16.1n.9
C18.3n.3
C20.3n.3
C20.1n.9
C22.4n.6
C20.2n.6
C18.2n.6
C20.3n.9
C18.3n.6
C16.0
C20.4n.6
C22.5n.6
C22.5n.3
C22.6n.3
C20.5n.3
C20.3n.6
C18.0
lipids
genes

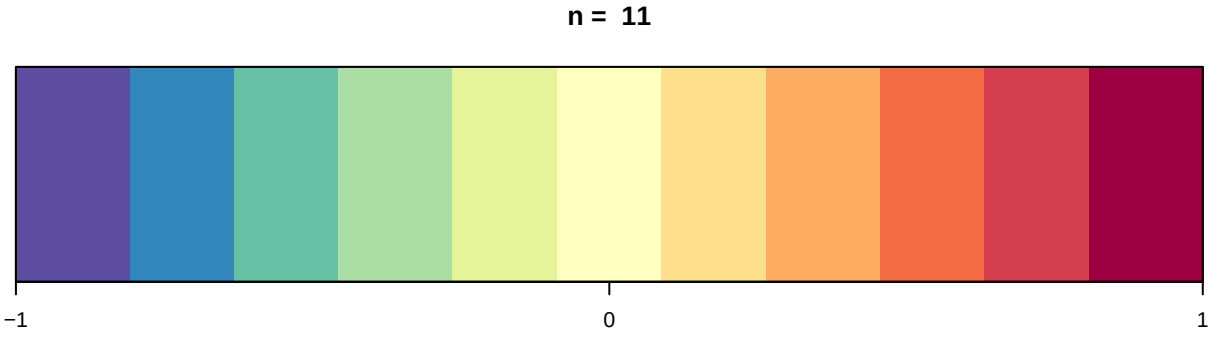

help("cim")
C16.1n.7
C14.0
C18.1n.9
C18.1n.7
C16.1n.9
C18.3n.3
C20.3n.3
C20.1n.9
C22.4n.6
C20.2n.6
C18.2n.6
C20.3n.9
C18.3n.6
C16.0
C20.4n.6
C22.5n.6
C22.5n.3
C22.6n.3
C20.5n.3
C20.3n.6
C18.0

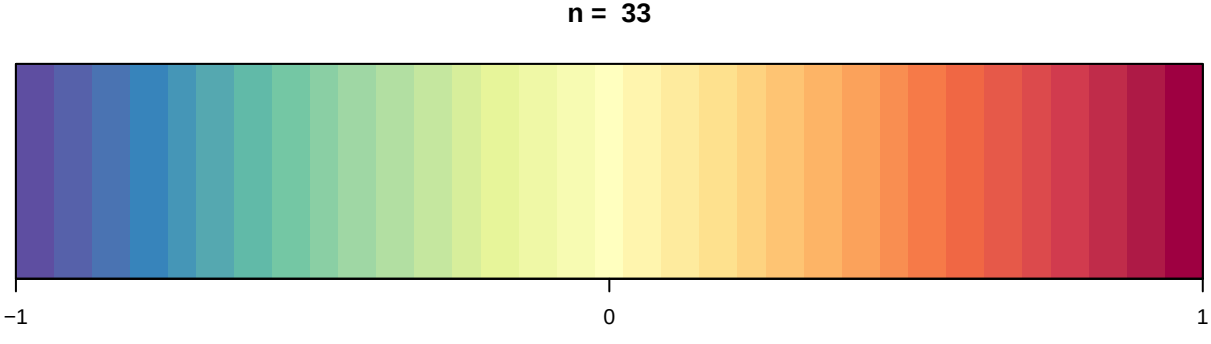

Color key
−0.89
0
0.89
help("cim")
ALT.IU.L.
AST.IU.L.
BUN.mg.dL.
TBA.umol.L.
ALP.IU.L.
Creat.mg.dL
SDH.IU.L.
Cholesterol.
TP.g.dL.
ALB.g.dL.

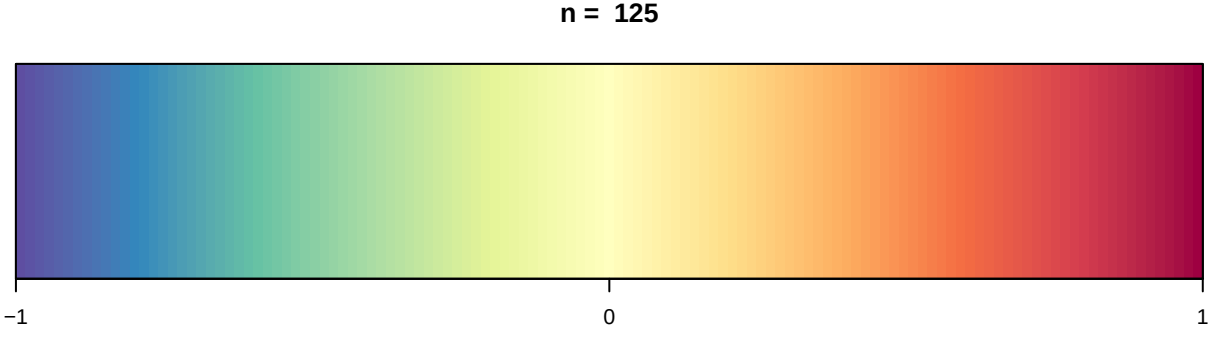

n = 11
help("color.jet")
−1
0
1

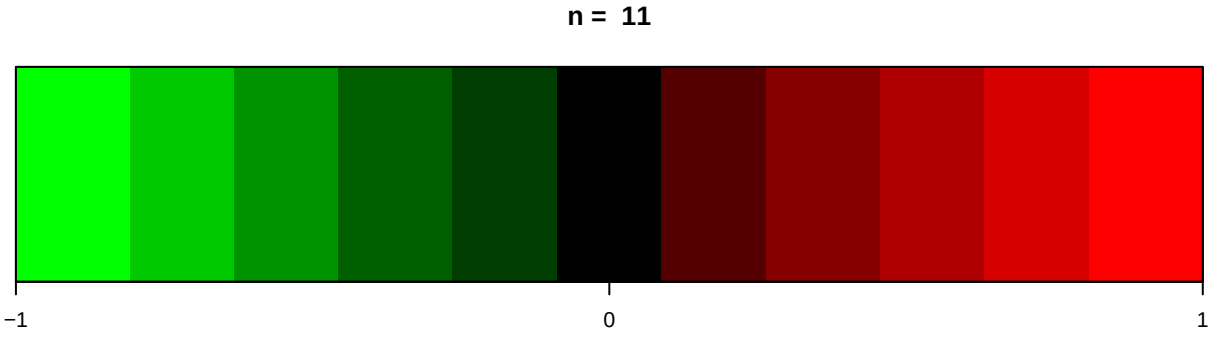

n = 33
−1
0
1

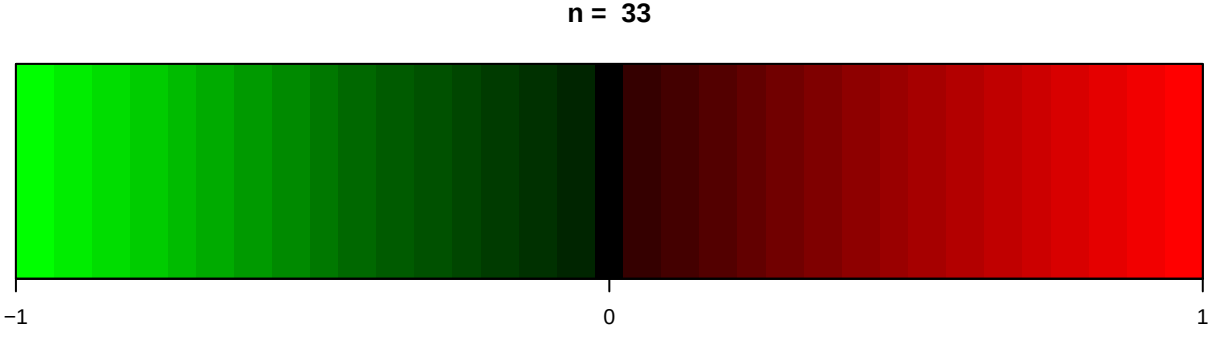

n = 125
−1
0
1

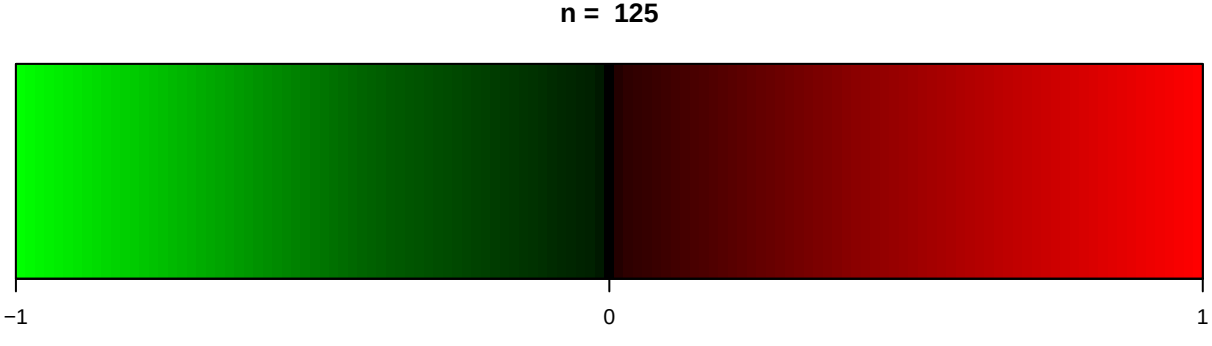

n = 11
help("color.jet")
−1
0
1

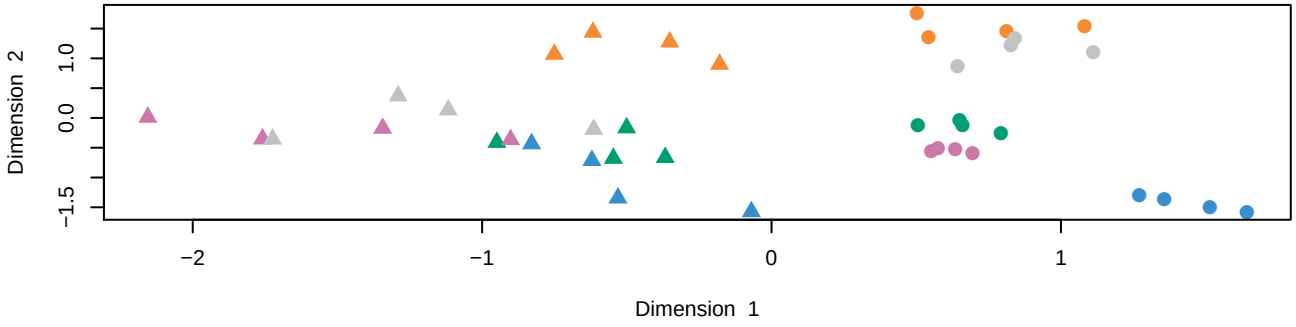

n = 33
−1
0
1

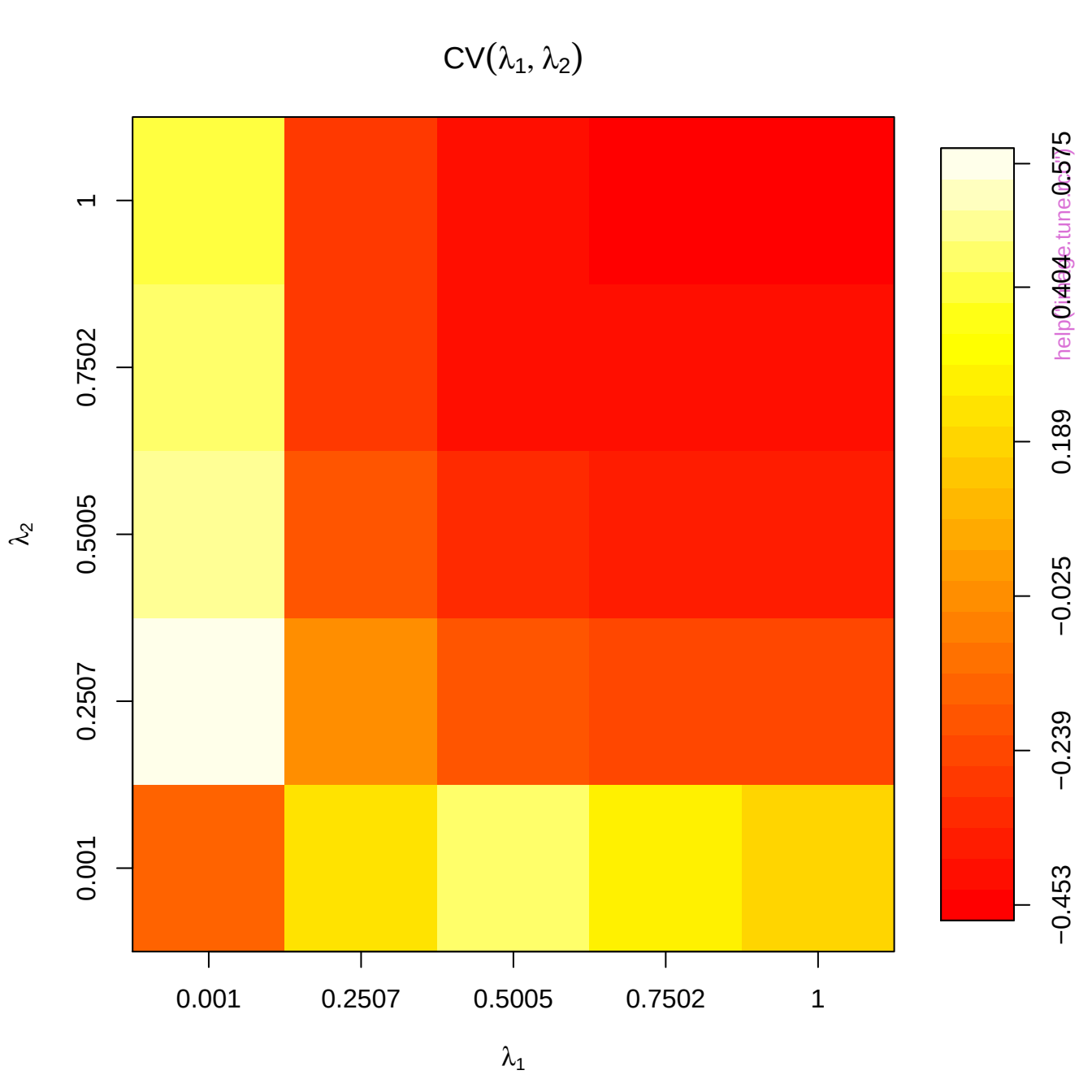

n = 125
−1
0
1

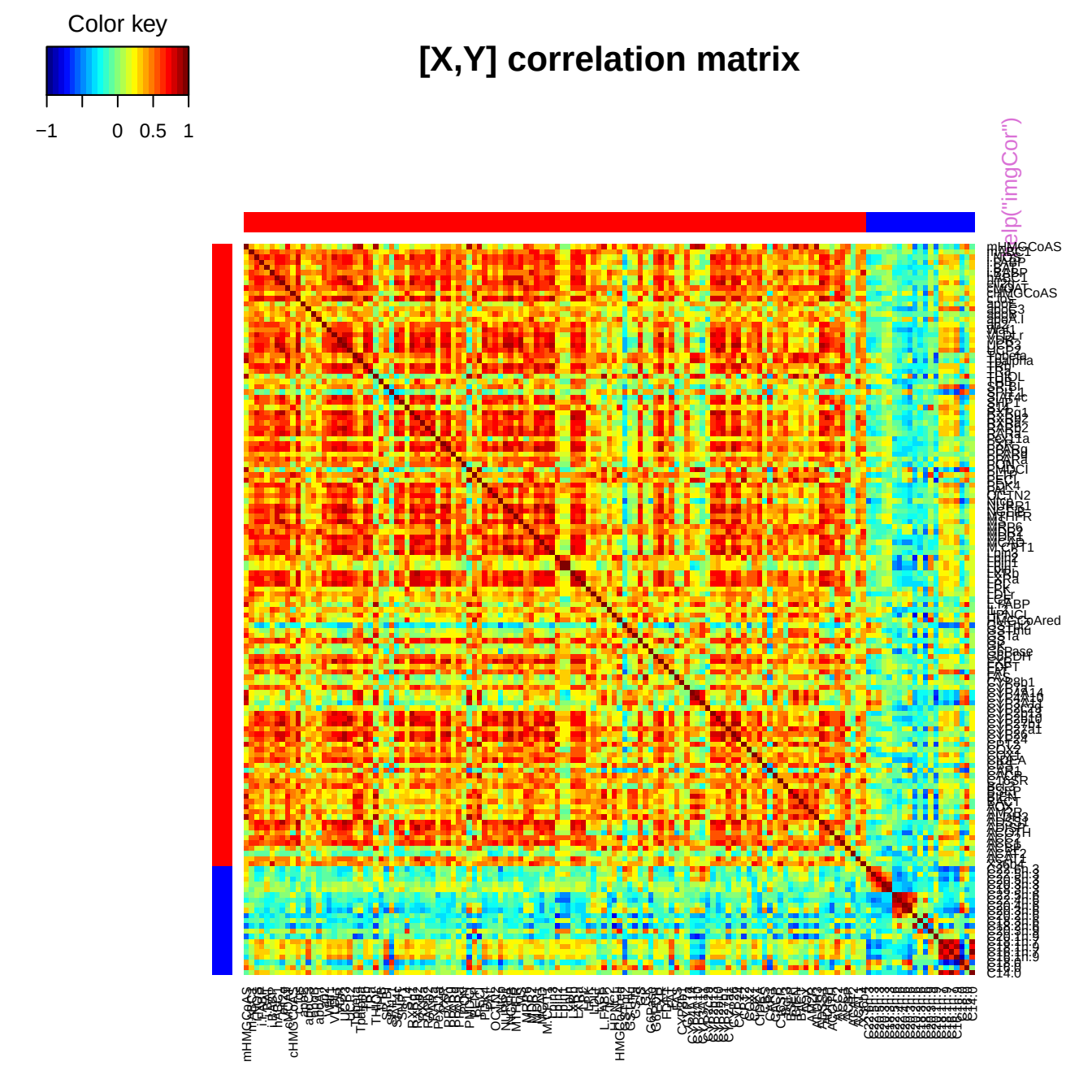

n = 11
help("color.jet")
−1
0
1

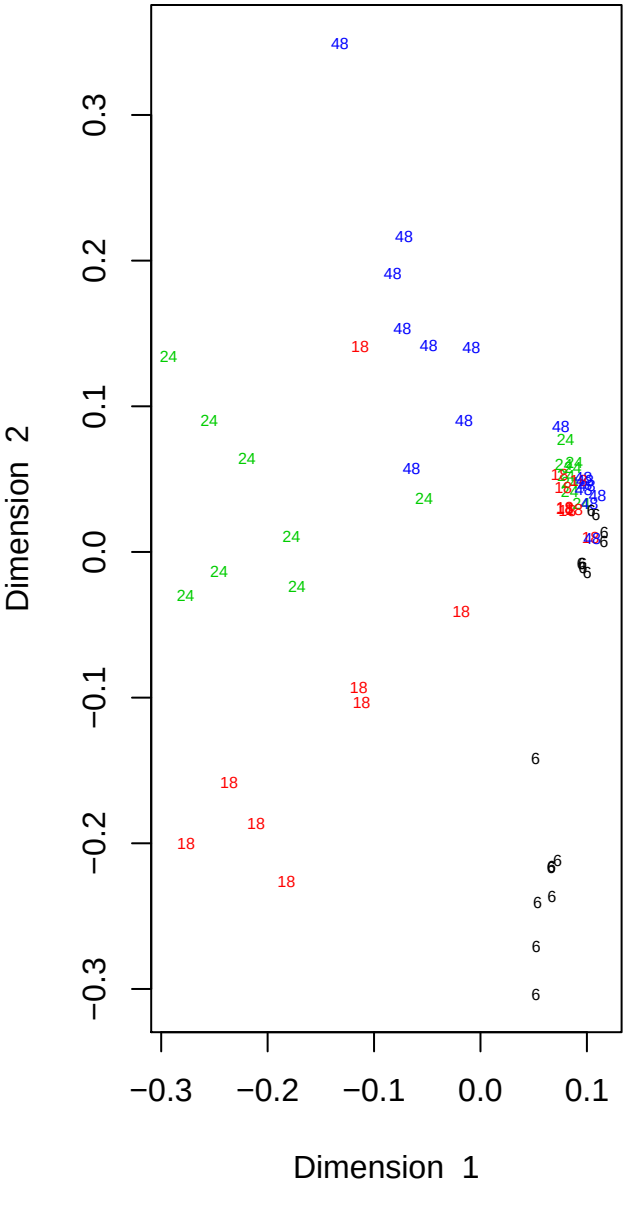

n = 33
−1
0
1

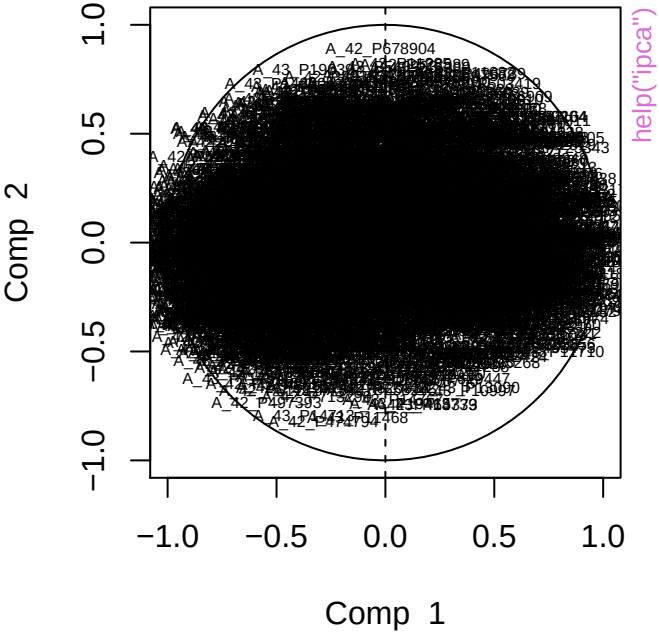

n = 125
−1
0
1

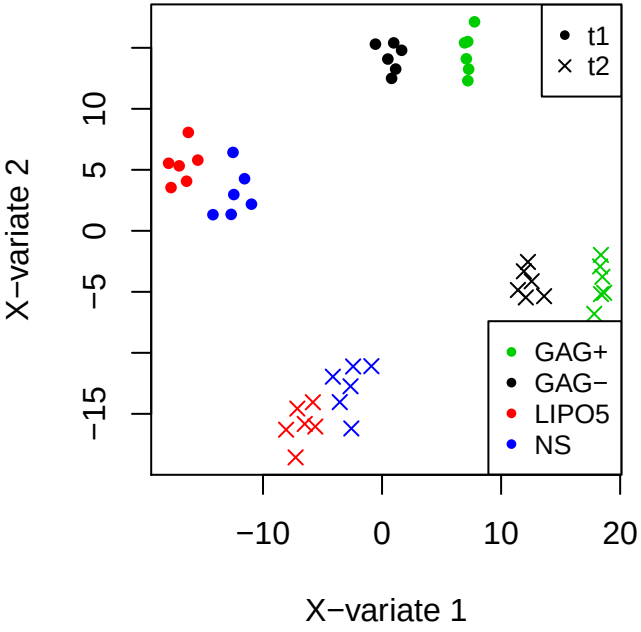

Dimension 2
1.0
0.0
−1.5
−2
−1
0
1
Dimension 1
help("color.jet")

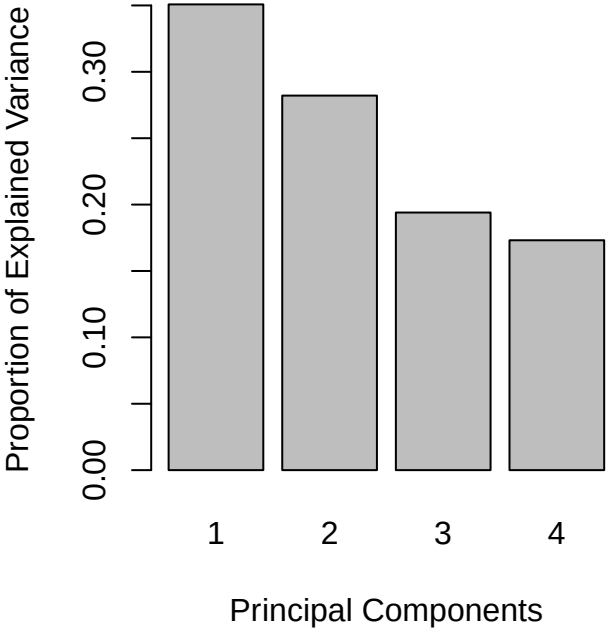

CV(λ1, λ2)
λ2
1
0.7502
0.5005
0.2507
0.001
0.001
0.2507
0.5005
0.7502
1
λ1
0.575
0.404
0.189
−0.025
−0.239
−0.453


Color key
−1
0
0.5
1
[X,Y] correlation matrix
help("imgCor")

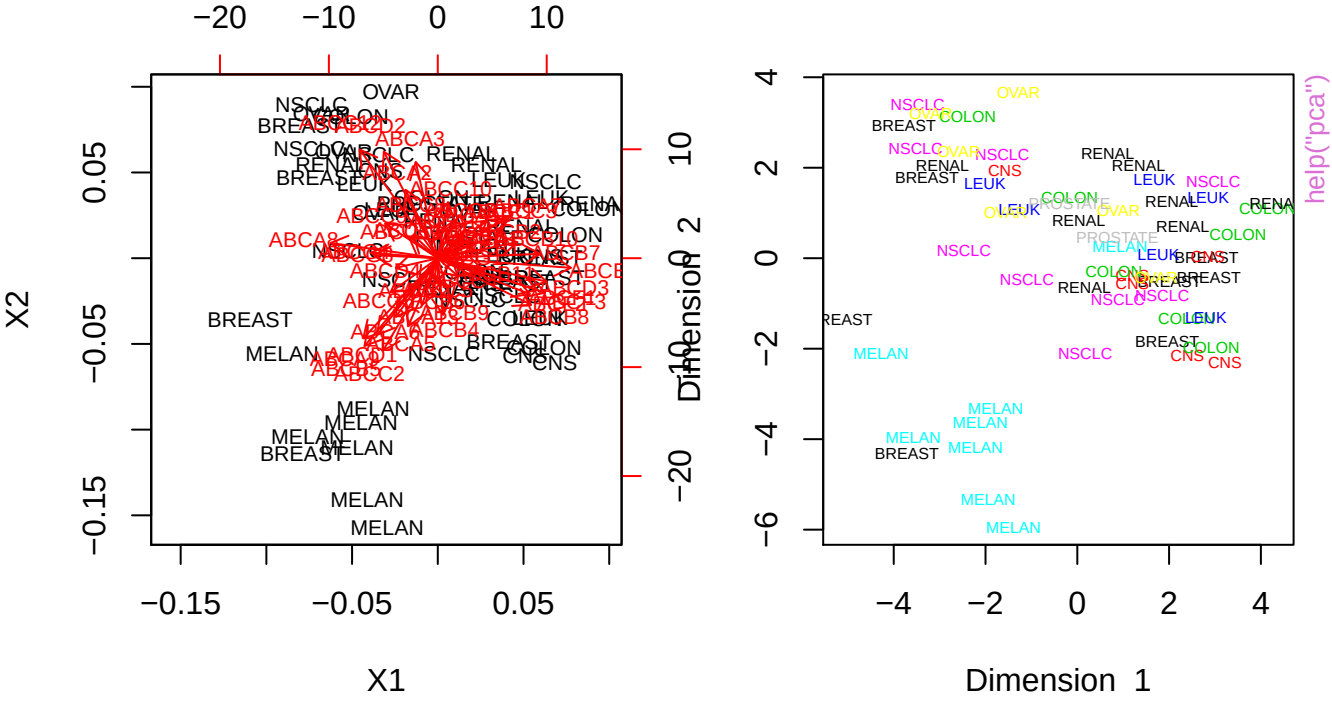

Dimension 2
Dimension 1
−0.3
−0.2
−0.1
0.0
0.1
0.2
0.3
48
24
18
6


Comp 2
Comp 1
−1.0
−0.5
0.0
0.5
1.0
A_42_P678904
help("ipca")

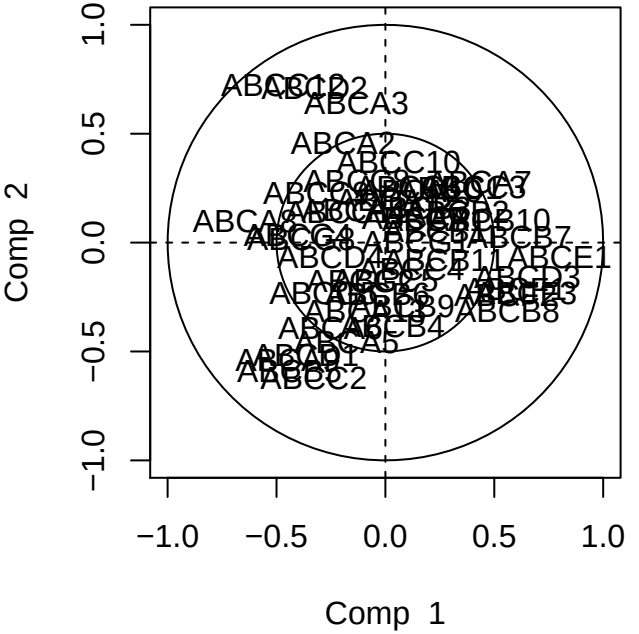

X−variate 2
10
5
0
−5
−15
−10
0
10
20
X−variate 1
t1
t2
GAG+
GAG−
LIPO5
NS

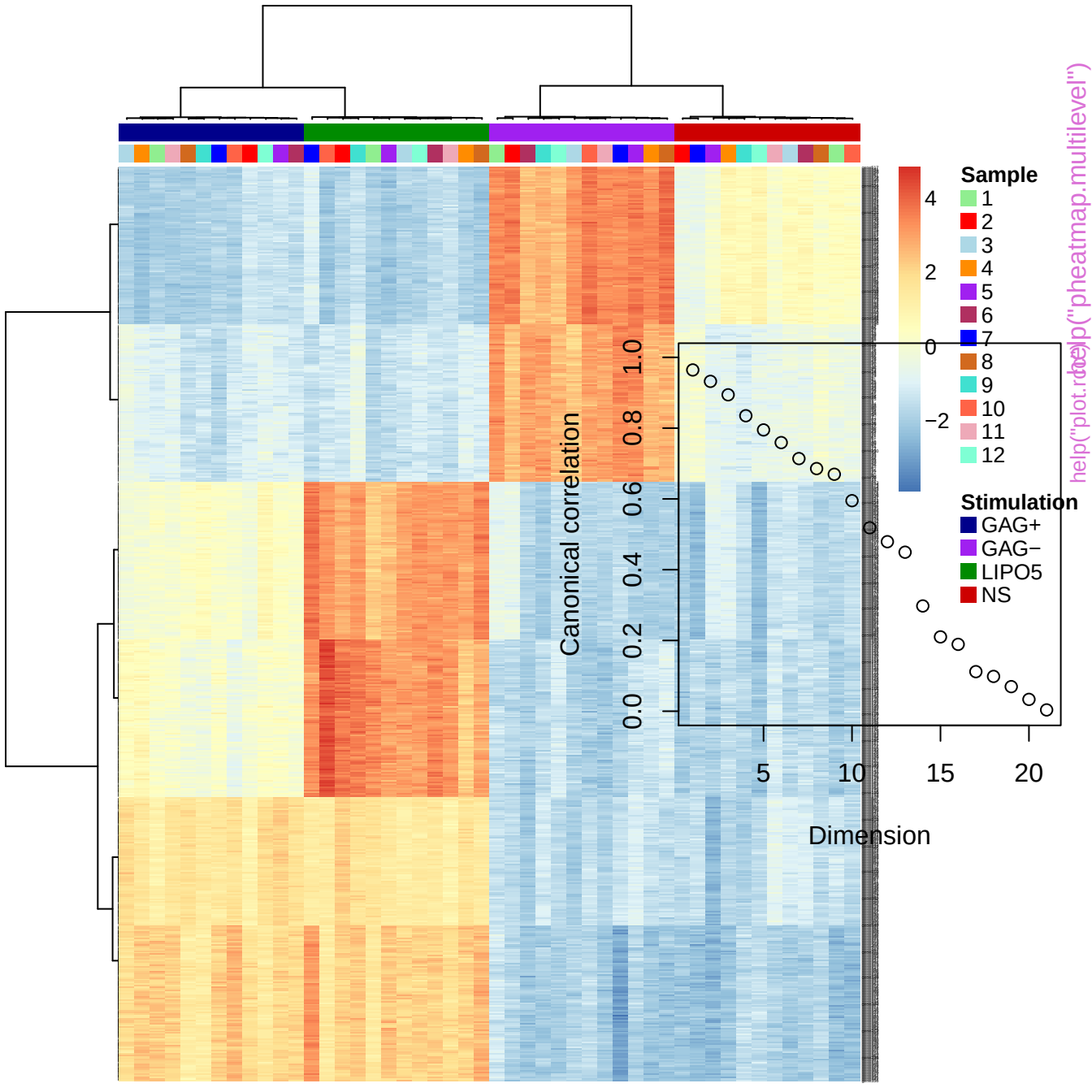

Proportion of Explained Variance
0.00
0.10
0.20
0.30
1
2
3
4
Principal Components

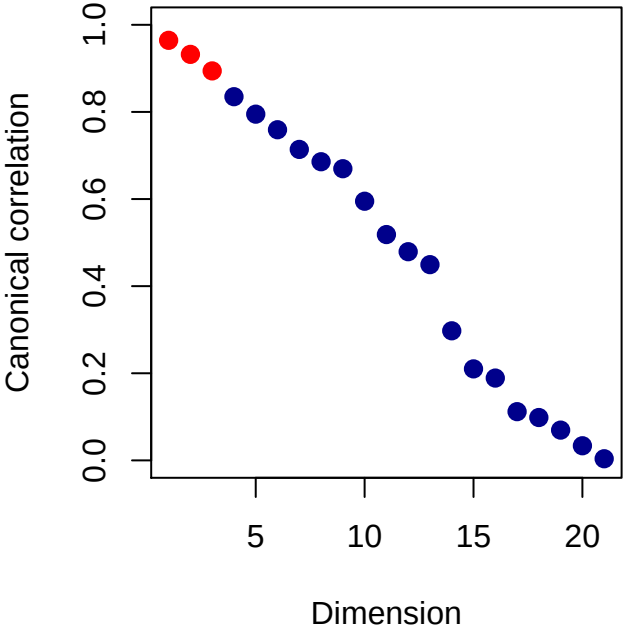
help("pca")

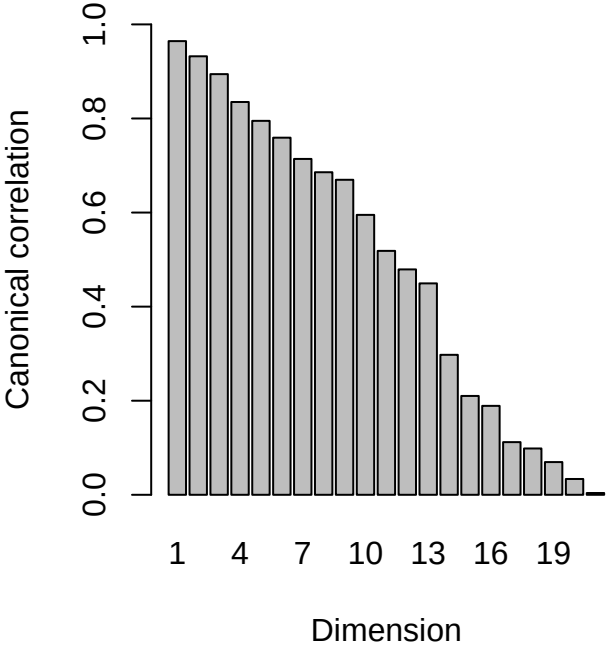


X1
X2
Dimension 1
Dimension 2
help("pca")

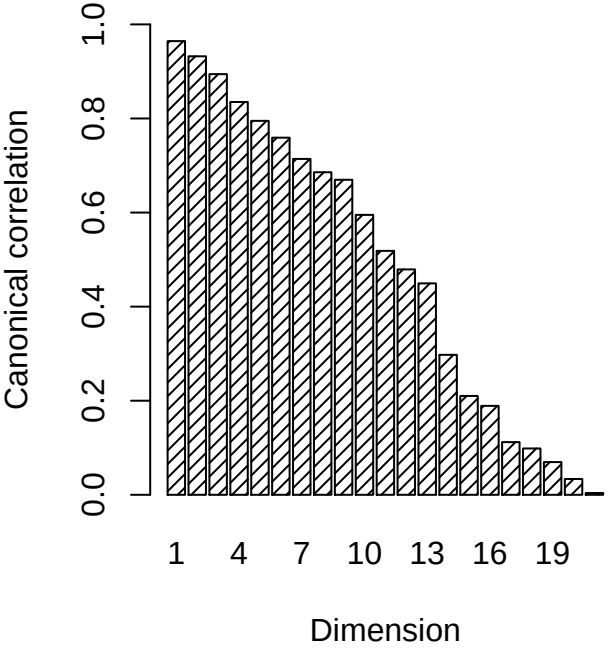

Comp 2
Comp 1
1.0
0.5
0.0
−0.5
−1.0
−1.0
−0.5
0.0
0.5
1.0
ABCA3
ABCA2
ABCC10
ABCB10
ABCB7
ABCE1
ABCB8
ABCB4
ABCC2

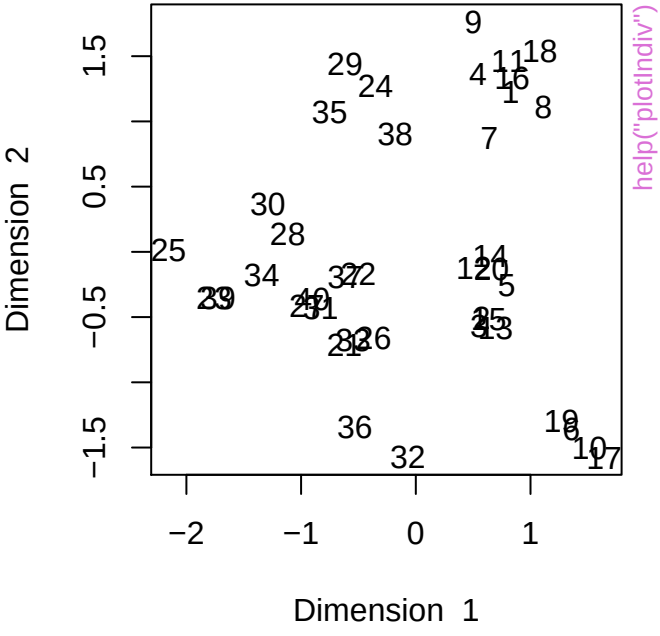

Sample
1
2
3
4
5
6
7
8
9
10
11
12
Stimulation
GAG+
GAG−
LIPO5
NS
4
2
0
−2
Canonical correlation
0.0
0.2
0.4
0.6
0.8
1.0
5
10
15
20
Dimension
help("plot.rda")
help("pheatmap.multilevel")

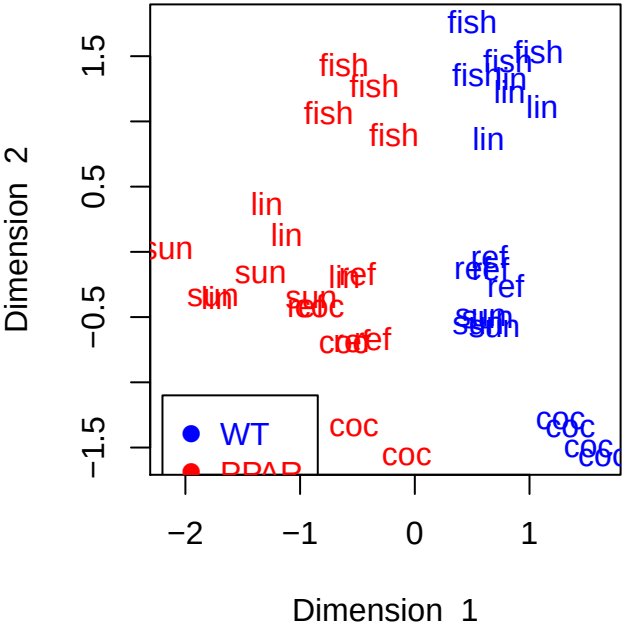


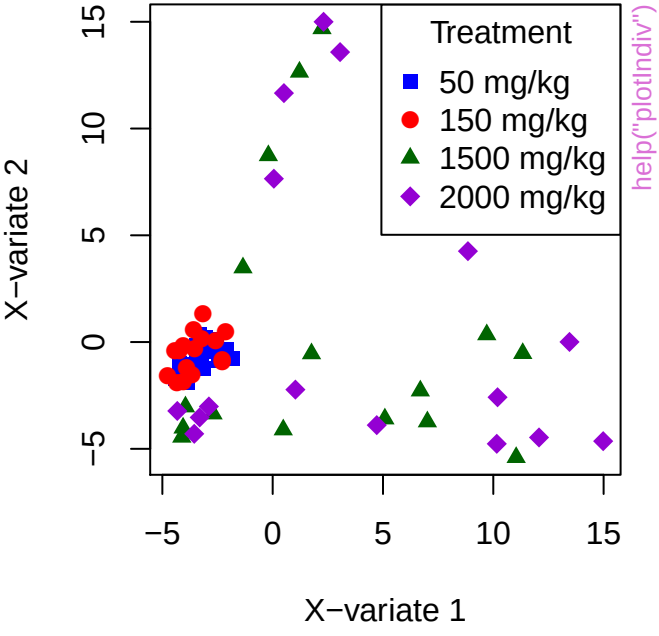


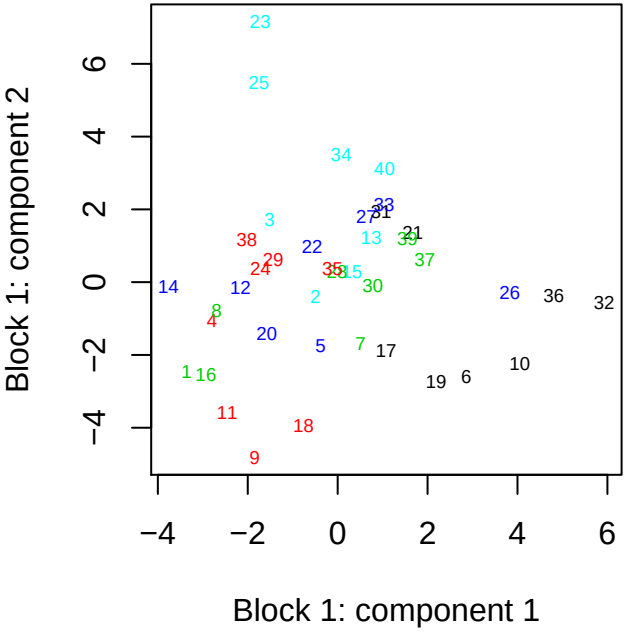
help("plot.rcc")

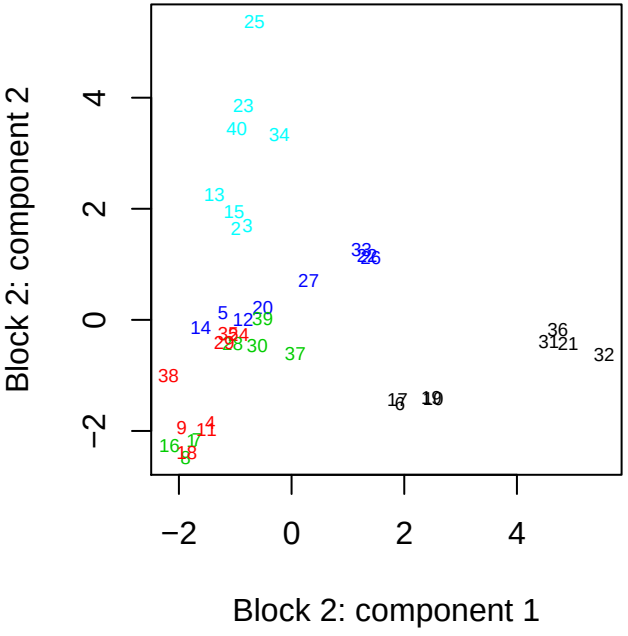

Canonical correlation
0.0
0.2
0.4
0.6
0.8
1.0
1
4
7
10
13
16
19
Dimension


Dimension 2
1.5
0.5
−0.5
−1.5
−2
−1
0
1
Dimension 1
help("plotIndiv")

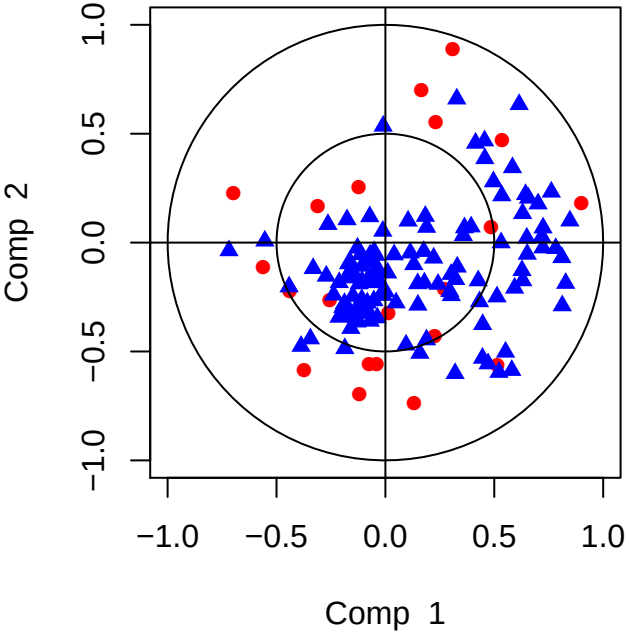

Dimension 2
Dimension 1
−2
−1
0
1
1.5
0.5
−0.5
−1.5
WT
fish
lin
sun
ref
coc

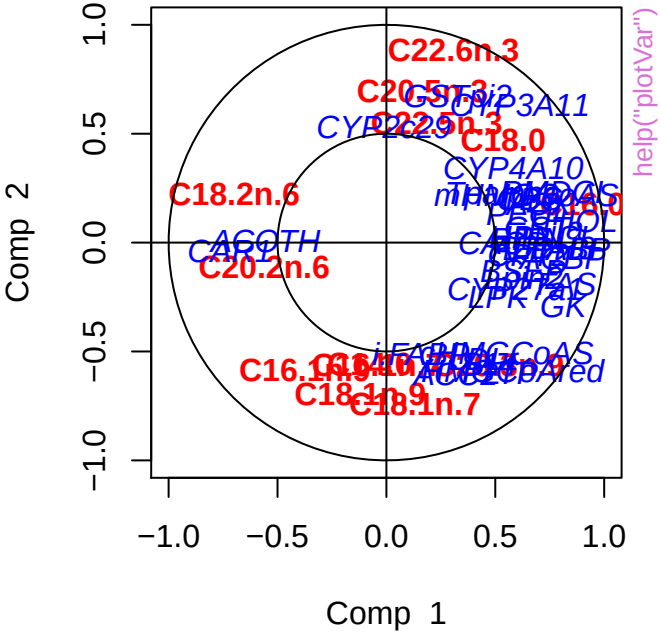

X−variate 2
X−variate 1
−5
0
5
10
15
Treatment
50 mg/kg
150 mg/kg
1500 mg/kg
2000 mg/kg
help("plotIndiv")

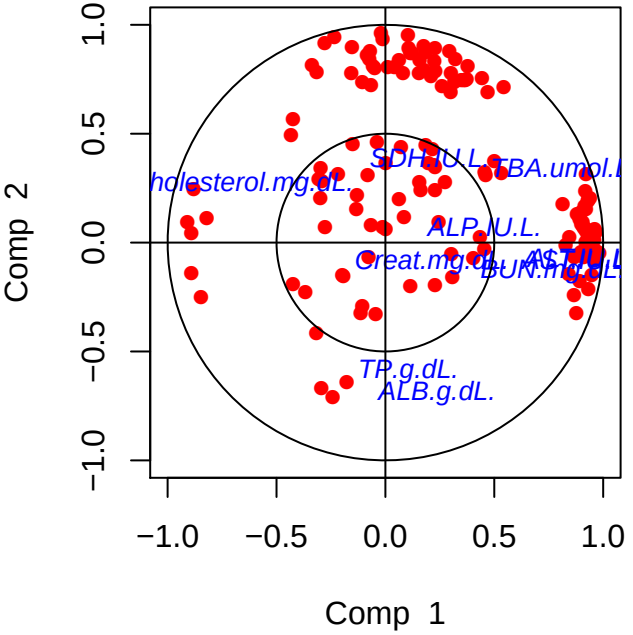


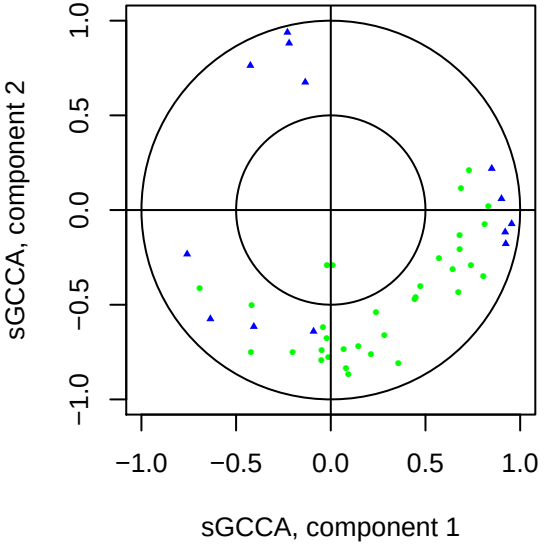


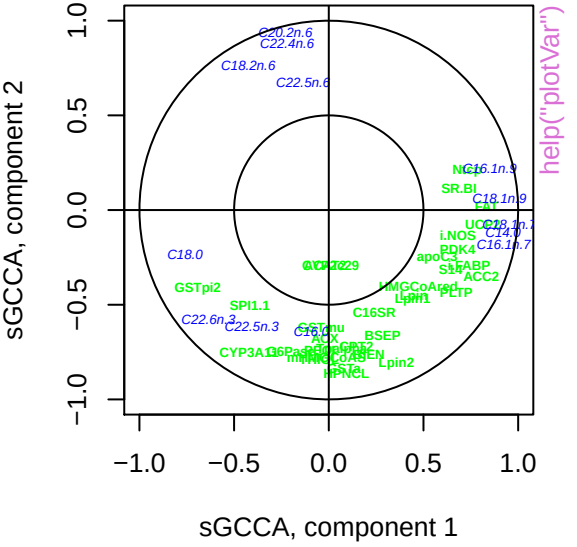
help("plotIndiv")

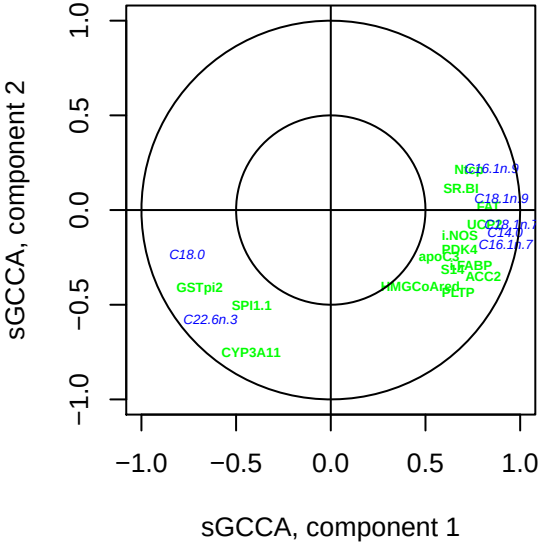

Comp 2
Comp 1
1.0
0.5
0.0
−0.5
−1.0

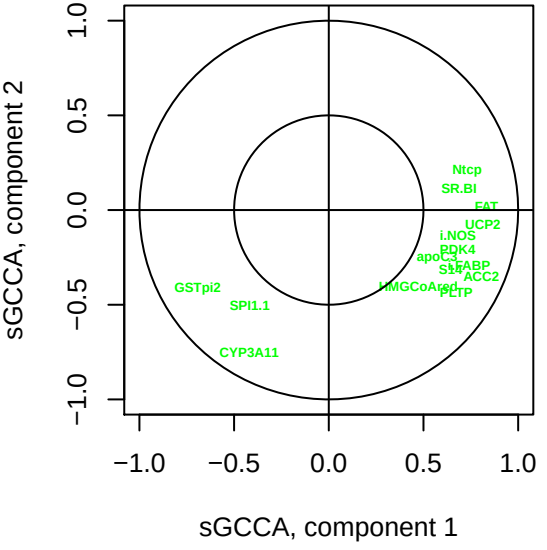

Comp 2
Comp 1
C22.6n.3
C18.0
CYP4A10
C18.2n.6
C20.2n.6
help("plotVar")

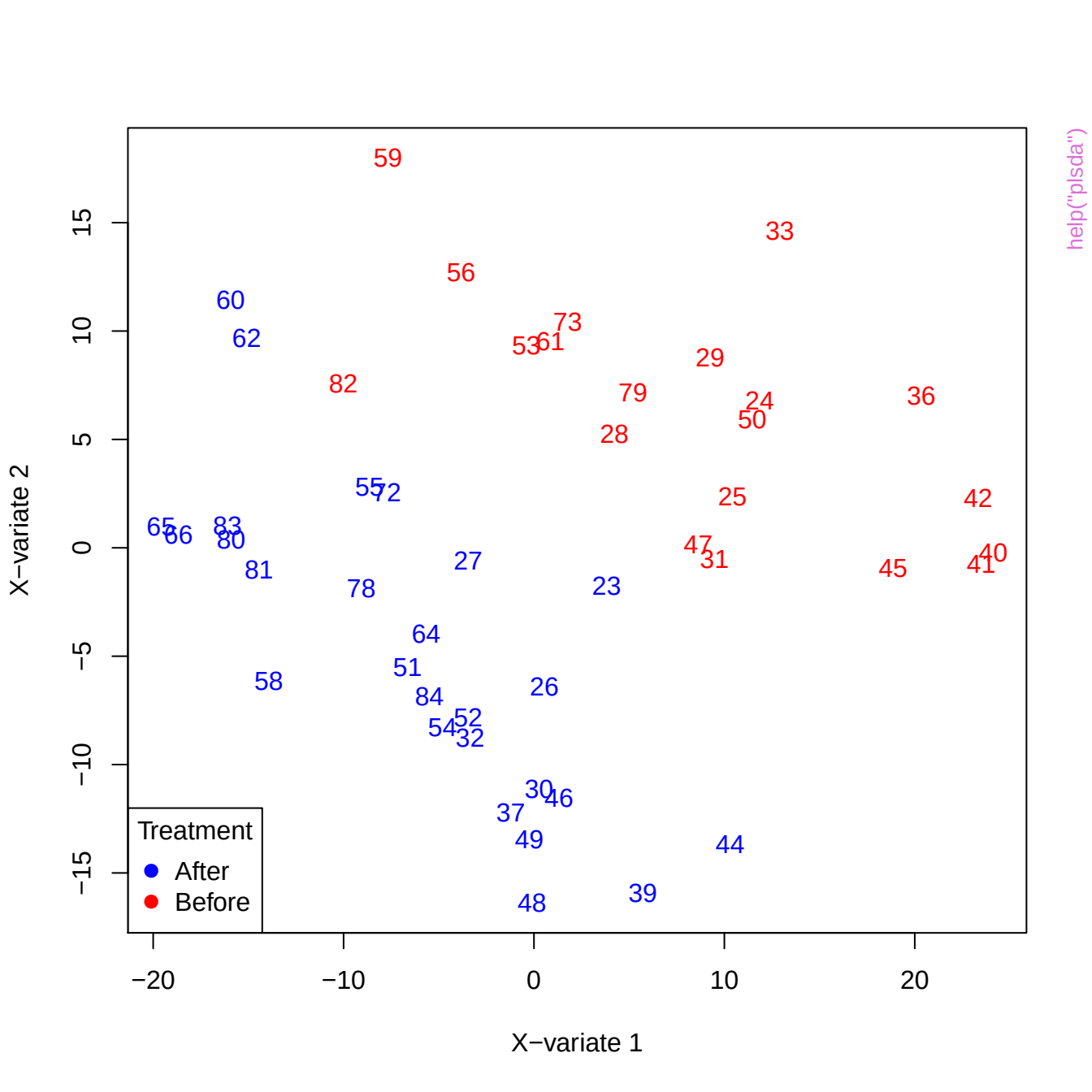

Comp 2
1.0
0.5
0.0
−0.5
−1.0
Comp 1
−1.0
−0.5
0.0
0.5
1.0
SDH.IU.L.
TBA.umol.L
holesterol.mg.dL.
ALP.IU.L.
Creat.mg.dL.
ALT.IU.L.
BUN.mg.dL.
TP.g.dL.
ALB.g.dL.

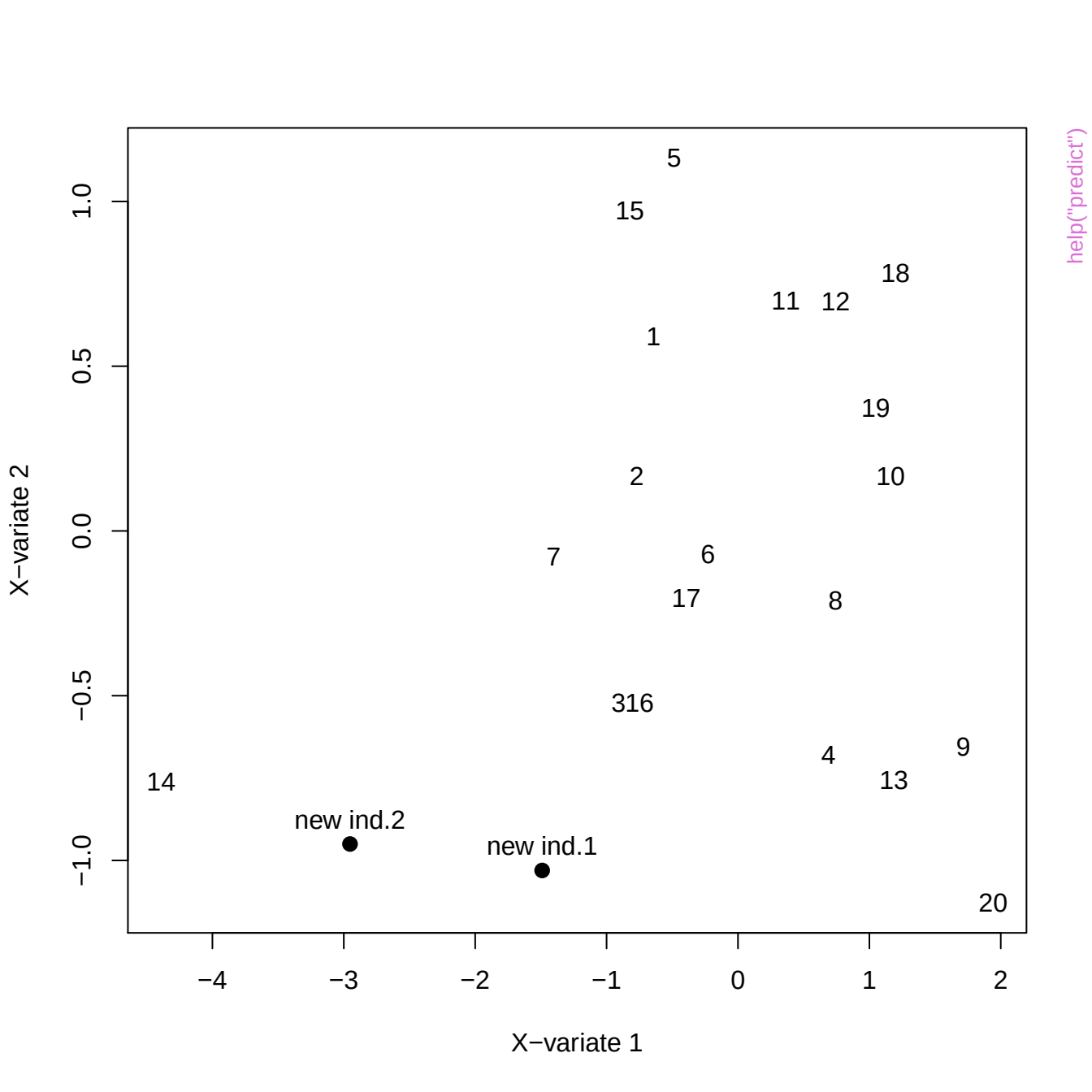

sGCCA, component 2
sGCCA, component 1
1.0
0.5
0.0
−0.5
−1.0


sGCCA, component 2
sGCCA, component 1
help("plotVar")
C20.2n.6
C22.4n.6
C18.2n.6
C22.5n.6
C16.1n.9
SR.BI
C18.1n.9
FAT
UCP2
i.NOS
C14.0
C16.1n.7
PDK4
apoC3
S-FABP
ACC2
C18.0
GSTpi2
HMGCoAred
PLTP
SPI1.1
C16SR
C22.6n.3
C22.5n.3
BSEP
Lpin2
CYP3A11

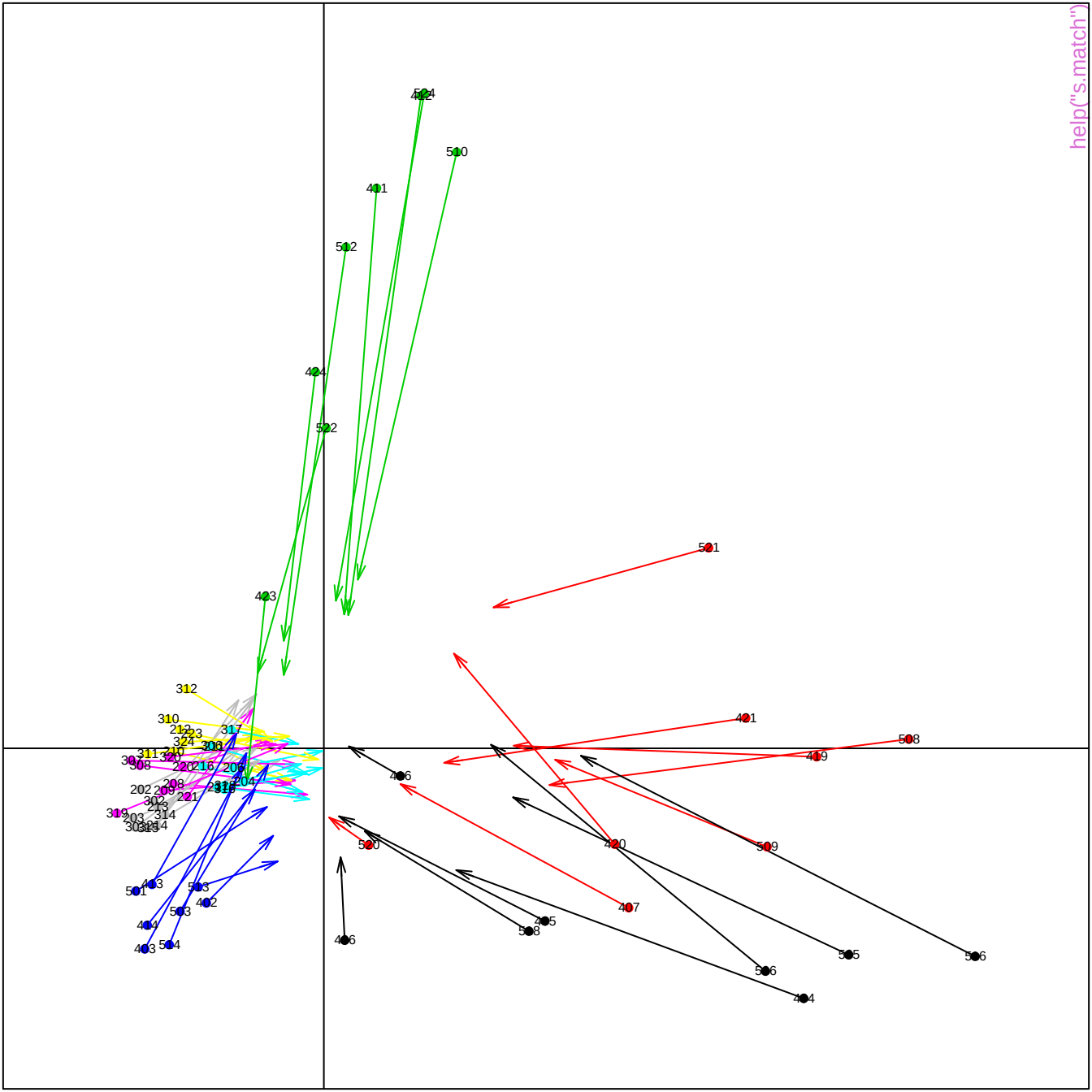

sGCCA, component 2
sGCCA, component 1
C16.1n.9
SR.BI
C18.1n.9
FAT
UCP2
i.NOS
C14.0
C16.1n.7
PDK4
apoC3
S-FABP
ACC2
C18.0
GSTpi2
HMGCoAred
PLTP
SPI1.1
C22.6n.3
CYP3A11

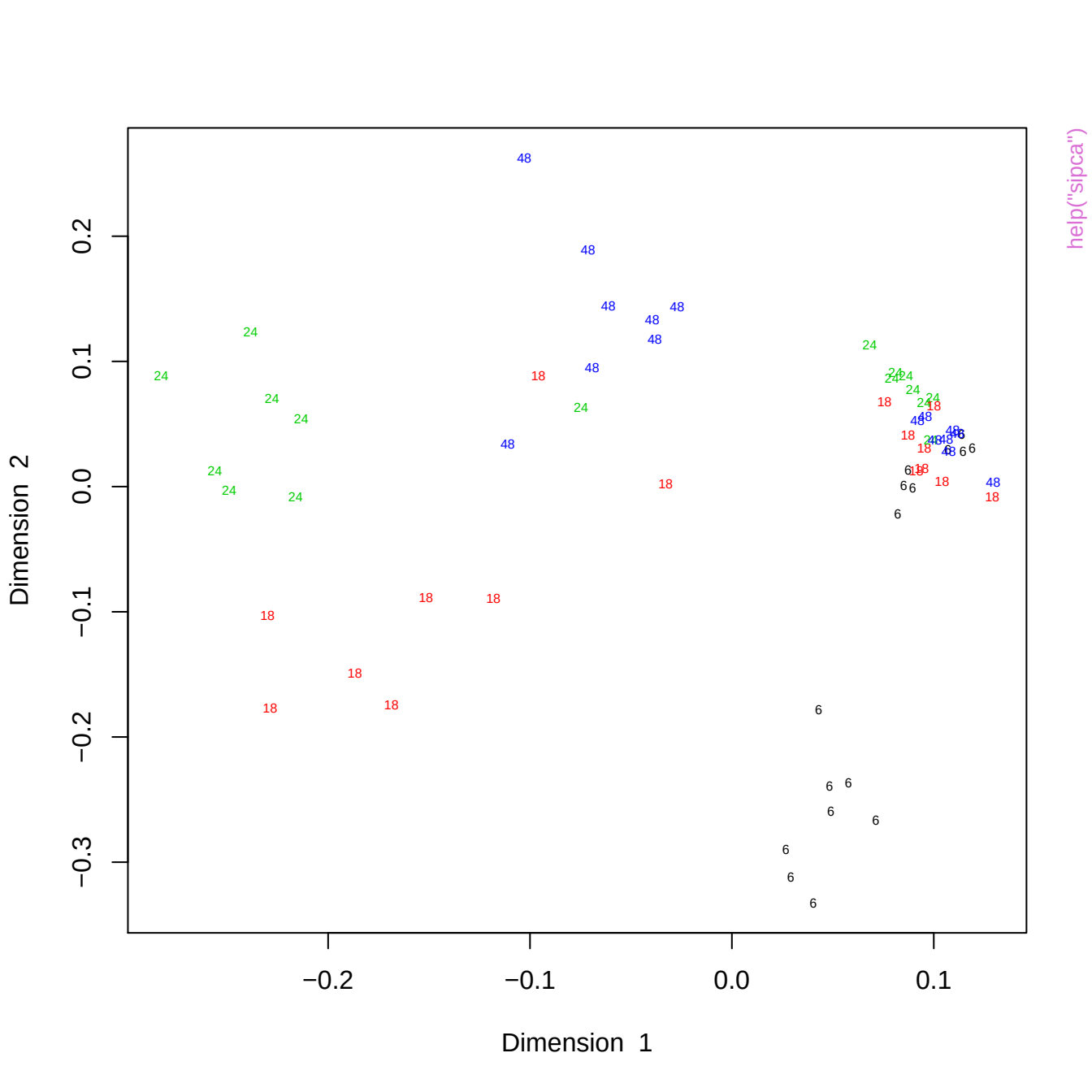

sGCCA, component 2
sGCCA, component 1
Ntcp
SR.BI
FAT
UCP2
i.NOS
PDK4
apoC3
S-FABP
ACC2
GSTpi2
HMGCoAred
PLTP
SPI1.1
CYP3A11

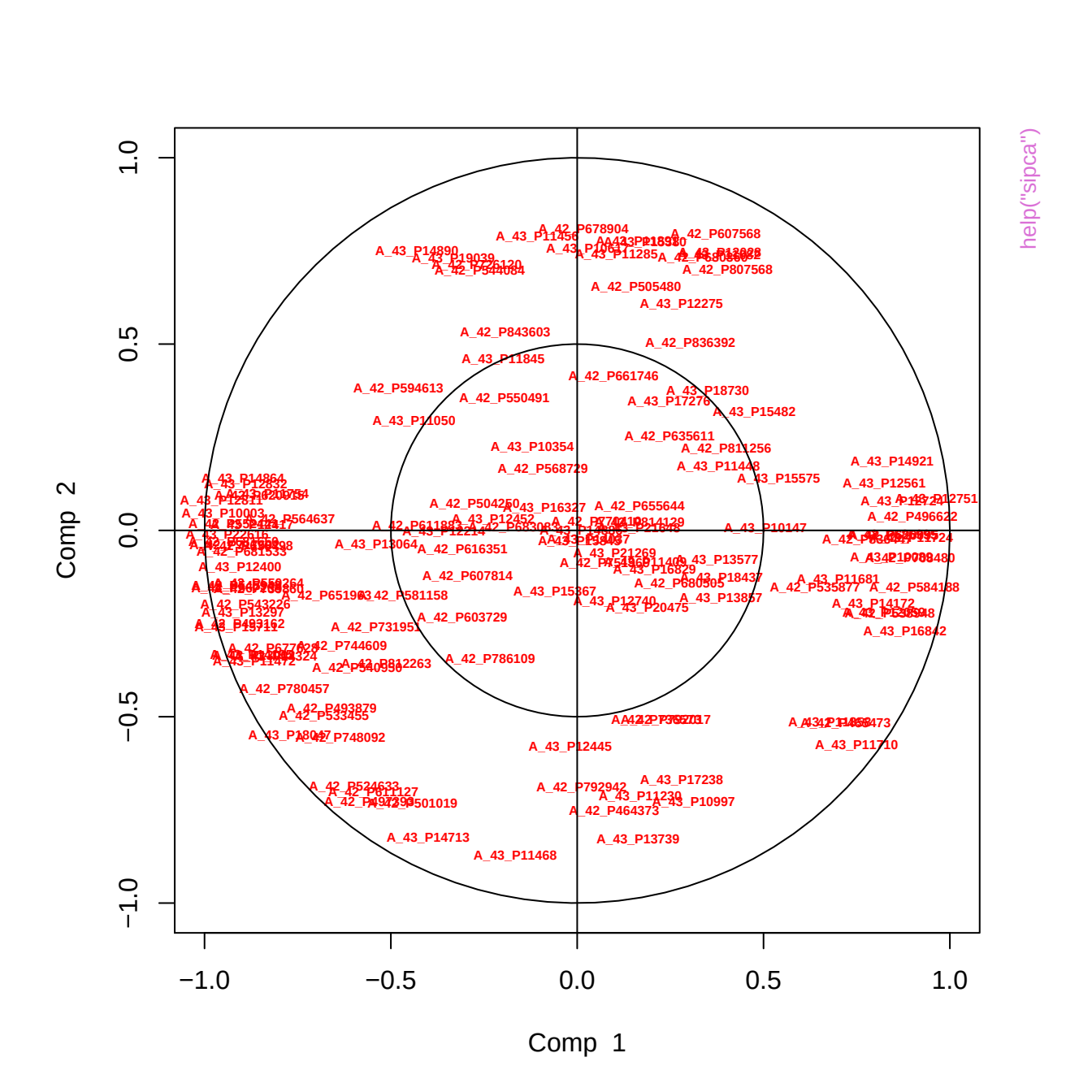

help("plsda")
X−variate 2
X−variate 1
−20
−10
0
10
20
15
10
5
0
−5
−10
−15
Treatment
After
Before
59
33
56
60
73
62
53
61
29
82
79
24
36
50
28
55
72
25
42
65
66
83
80
47
31
40
27
45
41
81
78
23
64
51
58
84
26
52
54
32
30
46
37
49
44
39
48

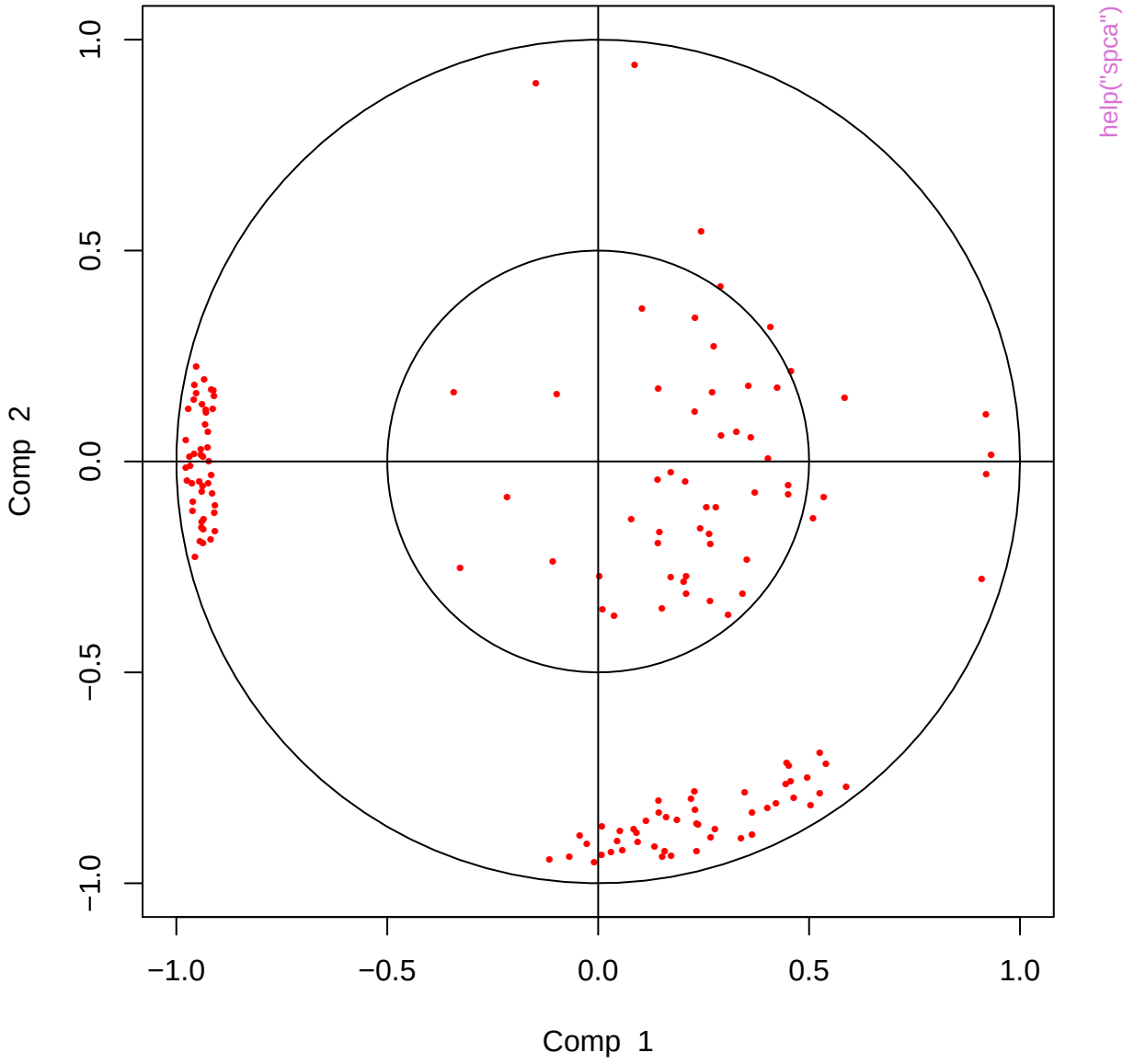


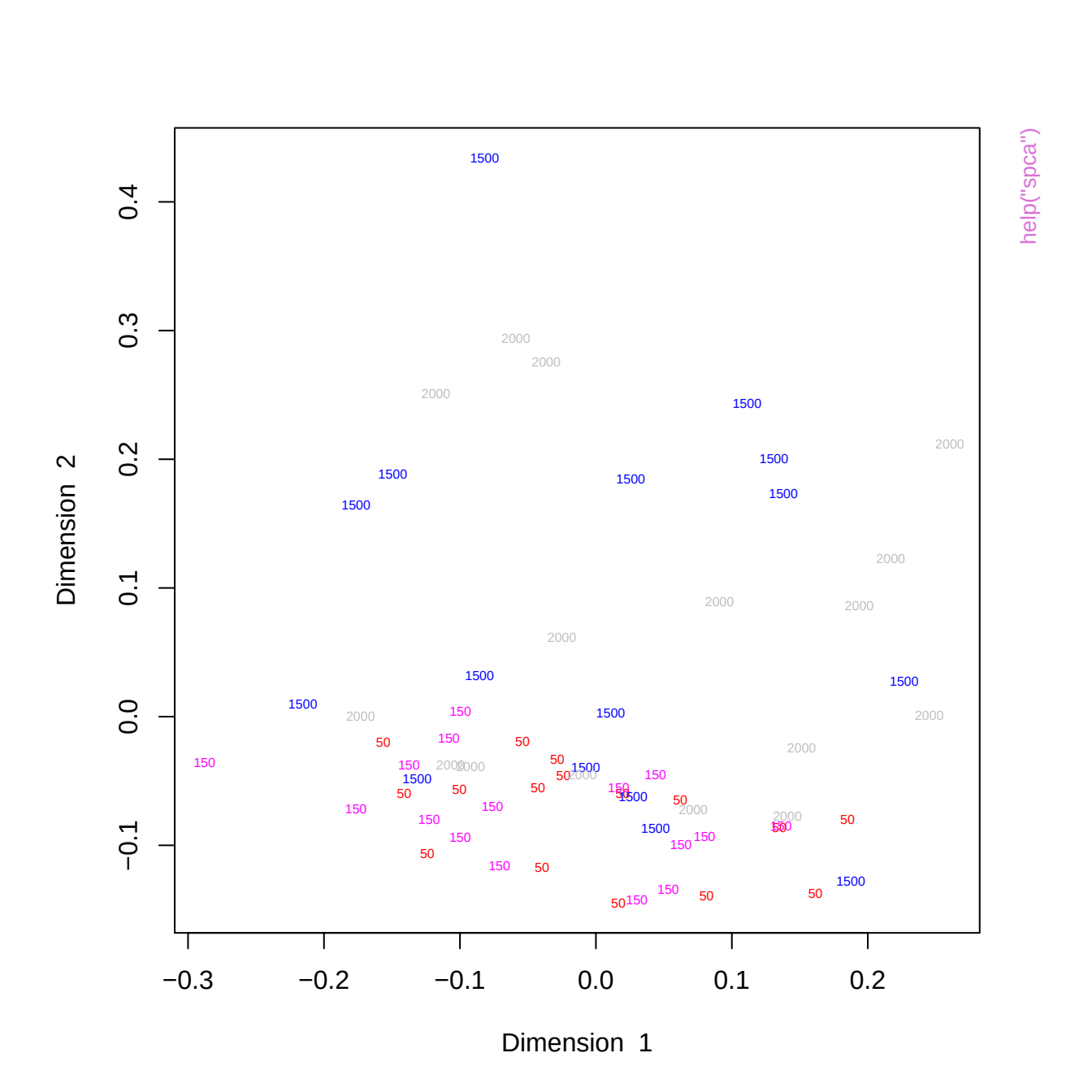
help("predict")

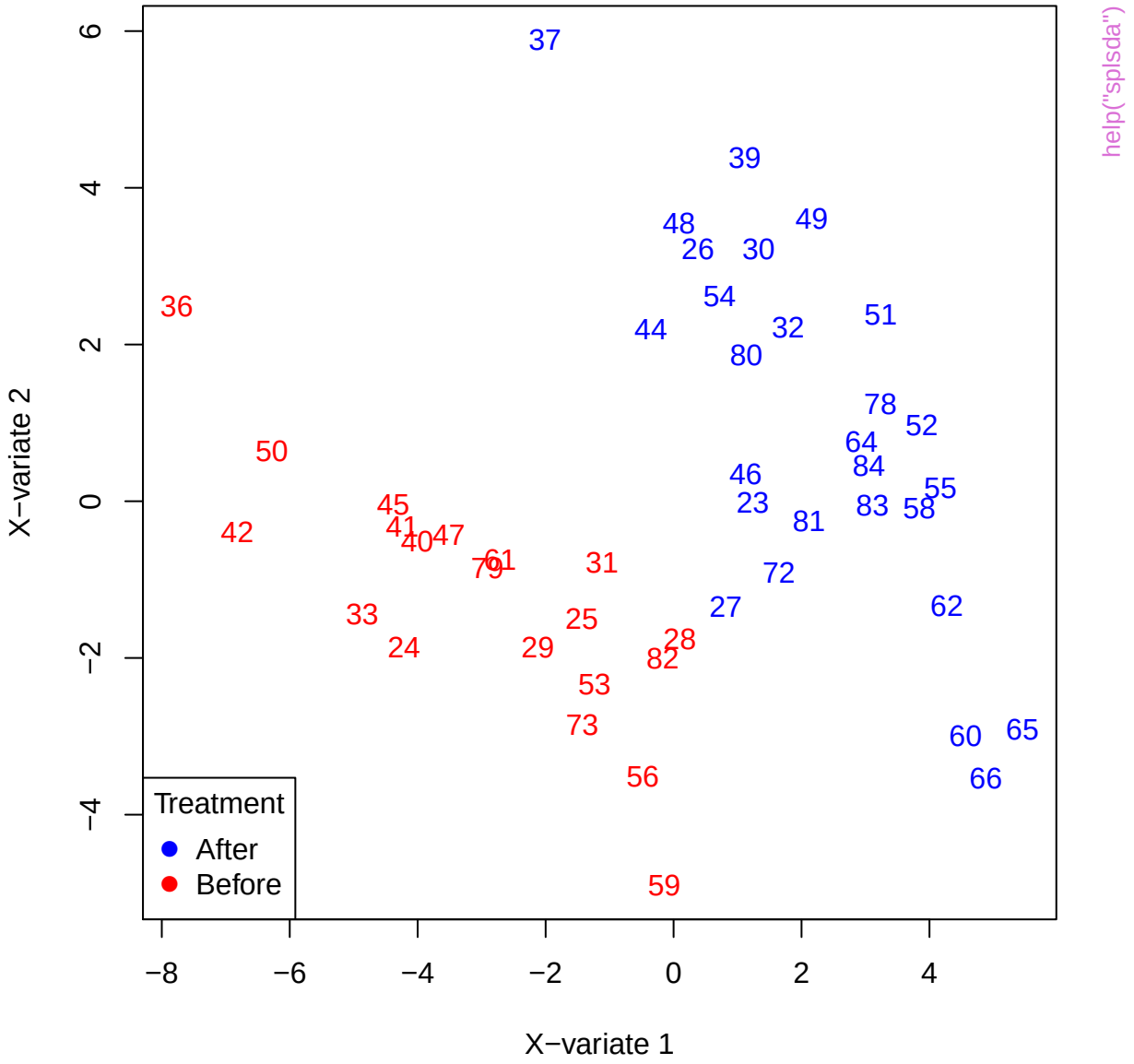

help("s.match")


help("sipca")
Dimension 2
Dimension 1
0.2
0.1
0.0
−0.1
−0.2
−0.3
−0.2
−0.1
0.0
0.1


help("sipca")
Comp 2
Comp 1
1.0
0.5
0.0
−0.5
−1.0
−1.0
−0.5
0.0
0.5
1.0
A_42_P678904
A_43_P14890
A_42_P607568
A_42_P807568
A_42_P505480
A_43_P12275
A_42_P843603
A_42_P836392
A_43_P11845
A_42_P661746
A_42_P594613
A_42_P550491
A_43_P18730
A_43_P17276
A_43_P15482
A_43_P11050
A_42_P635611
A_42_P811256
A_43_P10354
A_43_P11448
A_43_P14921
A_42_P568729
A_43_P15575
A_43_P12561
A_42_P504250
A_43_P16327
A_42_P655644
A_42_P496622
A_43_P10147
A_43_P13064
A_42_P616351
A_43_P13577
A_43_P12400
A_42_P607814
A_43_P16829
A_43_P18437
A_42_P680505
A_42_P535877
A_42_P584188
A_43_P11681
A_43_P15367
A_42_P581158
A_43_P12740
A_43_P13857
A_43_P20475
A_43_P14172
A_42_P603729
A_43_P16842
A_42_P731951
A_42_P744609
A_42_P786109
A_42_P780457
A_42_P493879
A_42_P533455
A_43_P12445
A_43_P11710
A_42_P748092
A_43_P17238
A_42_P792942
A_43_P11230
A_43_P10997
A_42_P464373
A_42_P524633
A_43_P14713
A_43_P13739
A_43_P11468


help("spca")
Comp 2
Comp 1
1.0
0.5
0.0
−0.5
−1.0
−1.0
−0.5
0.0
0.5
1.0


help("spca")
Dimension 2
0.4
0.3
0.2
0.1
0.0
−0.1
−0.3
−0.2
−0.1
0.0
0.1
0.2
Dimension 1
1500
2000
150
50


help("splsda")
X−variate 1
X−variate 2
−8
−6
−4
−2
0
2
4
6
Treatment
After
Before
37
39
48
49
26
30
36
54
44
32
51
80
78
52
50
64
84
46
55
45
23
83
58
42
41
81
40
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72
33
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27
62
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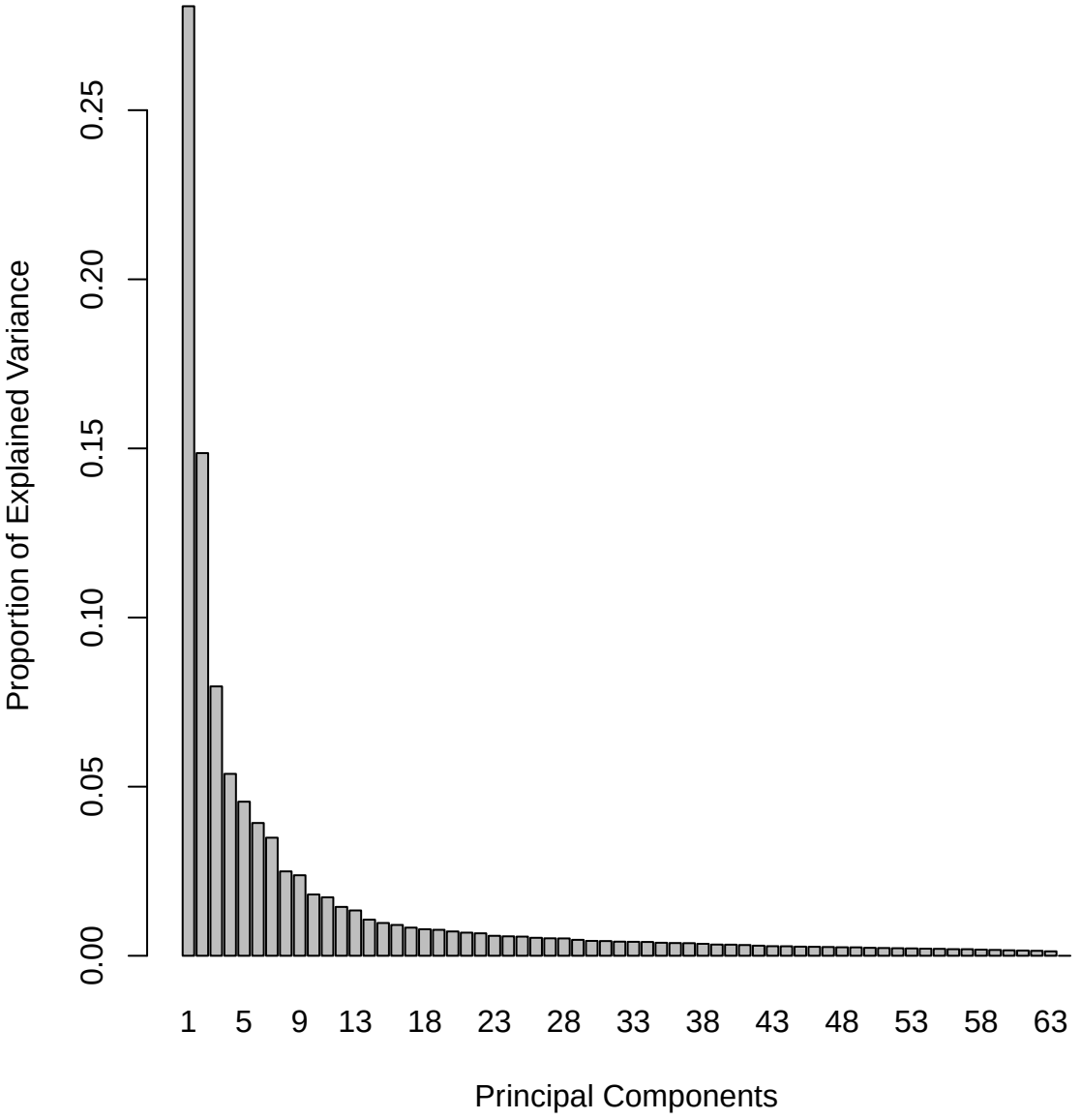
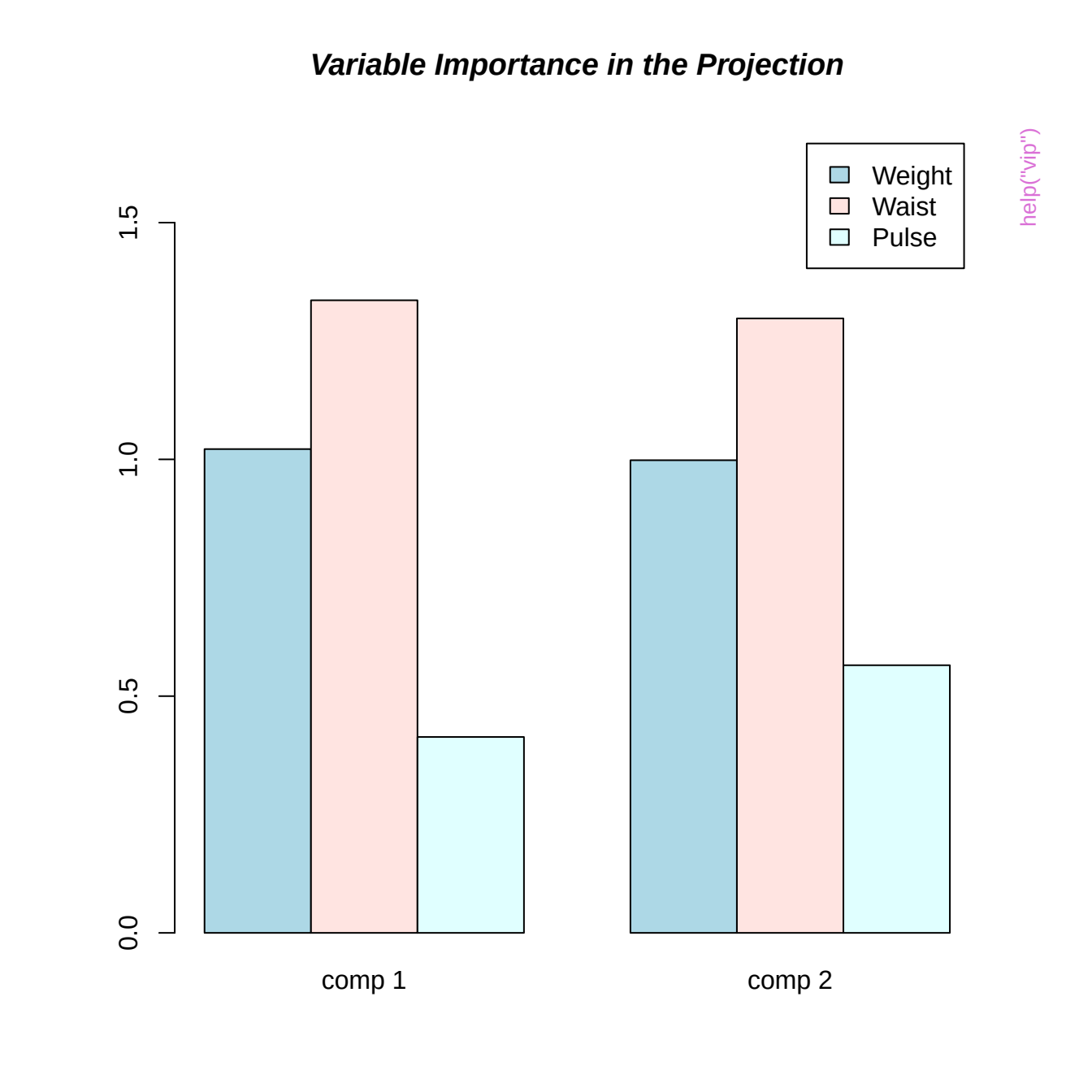
28
82
53
73
60
65
56
66
59



help("tune.pca")


Variable Importance in the Projection
help("vip")
Weight
Waist
Pulse
1.5
1.0
0.5
0.0
comp 1
comp 2