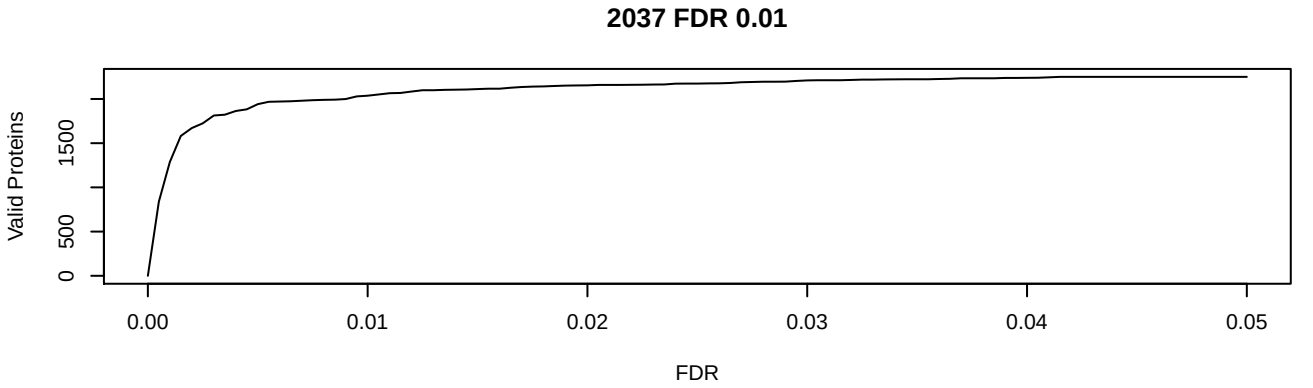
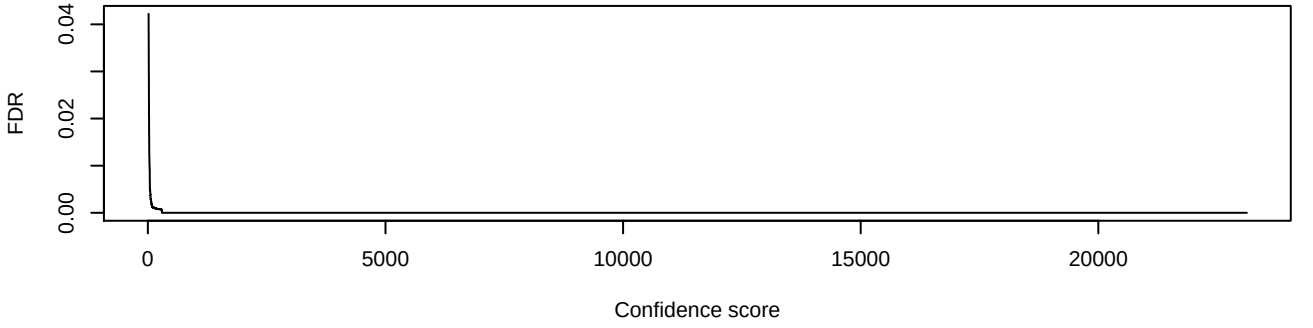
Experimental Design

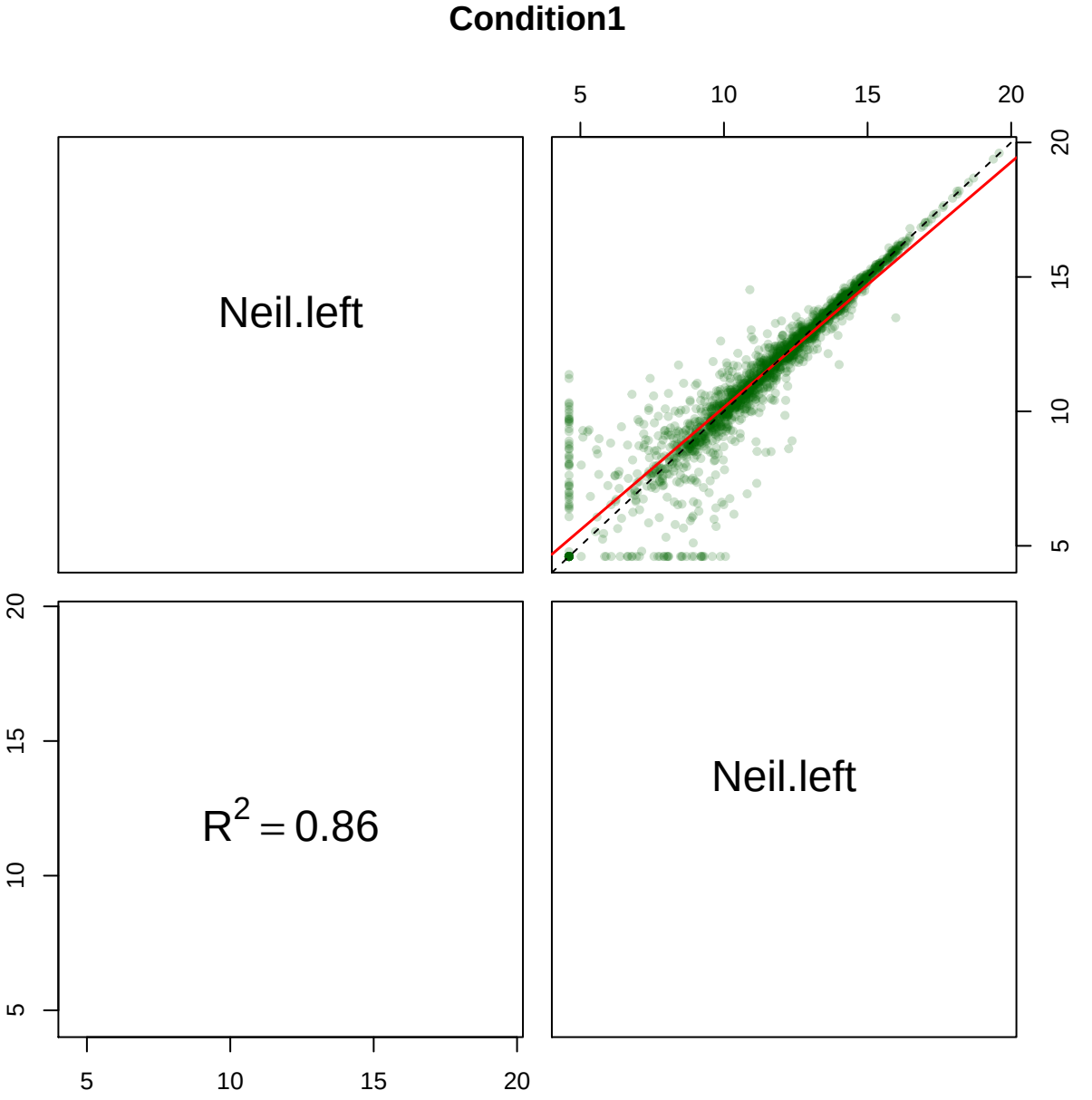
Condition5	Neil.liver.3
	Neil.liver.2
Condition4	Neil.mouse3.1
	Neil.mouse1.1
Condition3	Neil.mix.1
	Neil.mouse2.1
Condition2	Neil.right.3
	Neil.right.2
Condition1	Neil.left.3
	Neil.left.2

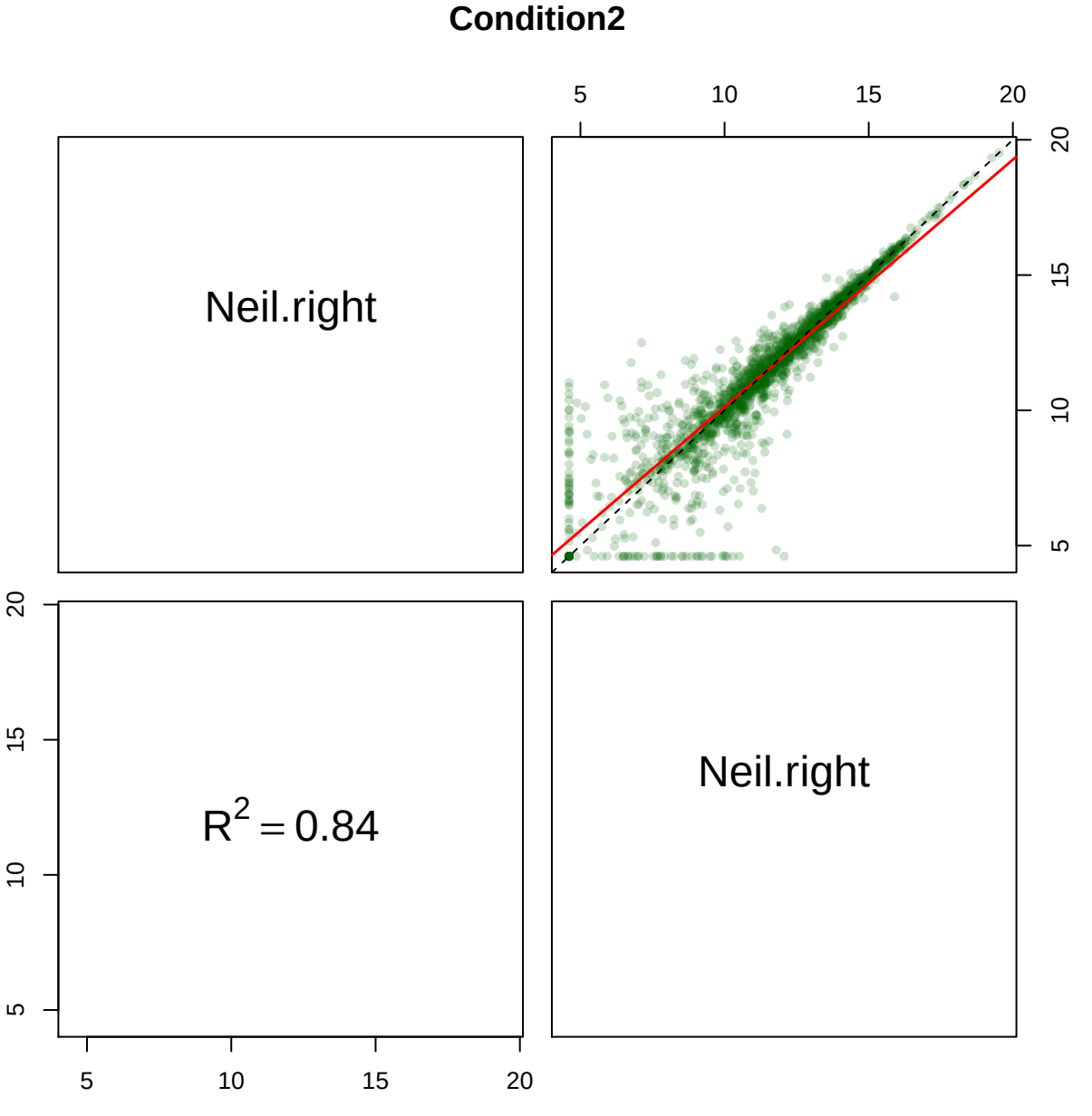
SafeQuant v. 0.2

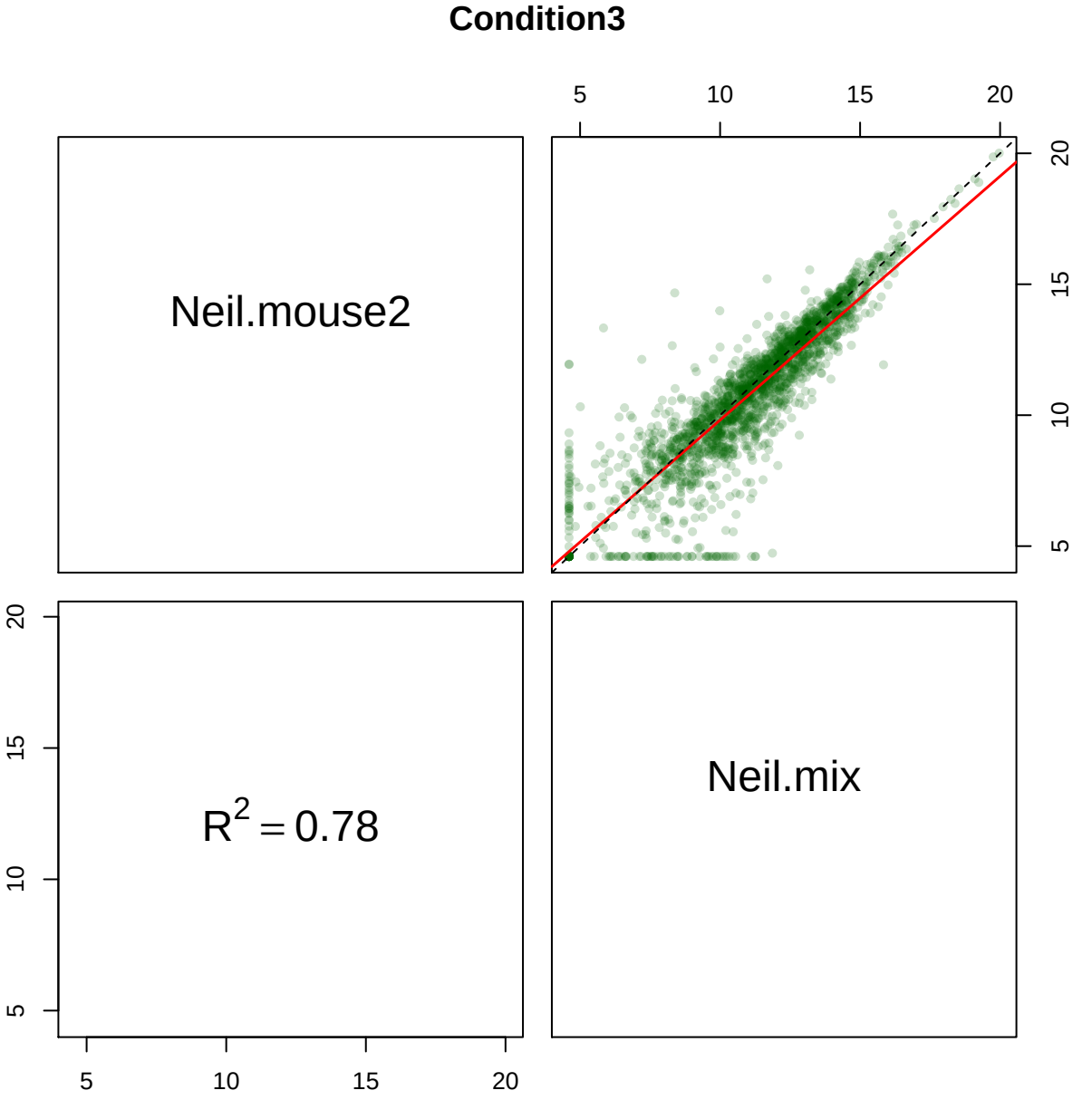
Protein Counts
0
400
800
1200
target
decoy
0
5000
10000
15000
20000
Confidence score

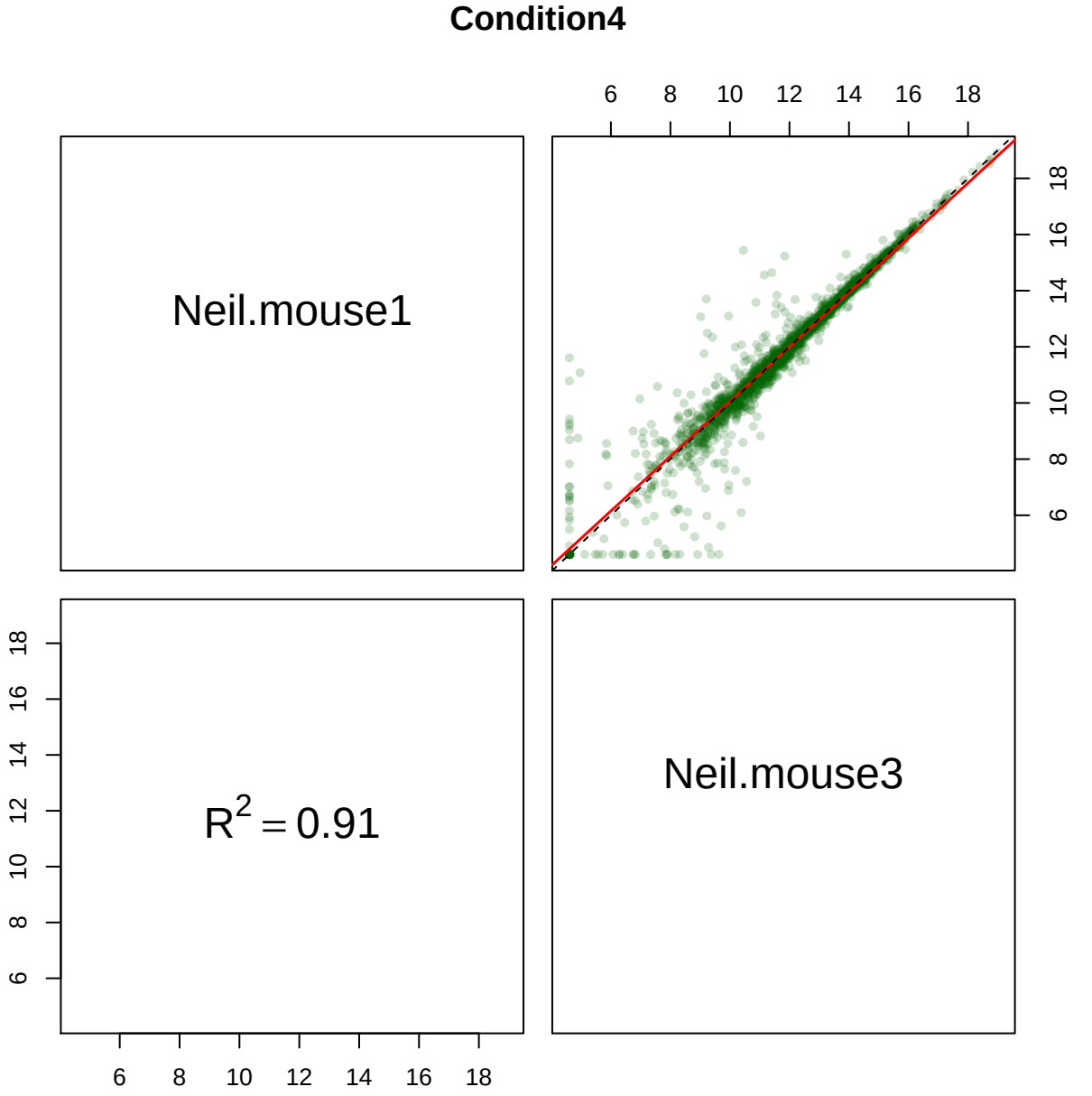

2037 FDR 0.01
Valid Proteins
0
500
1500
0.00
0.01
0.02
0.03
0.04
0.05
FDR

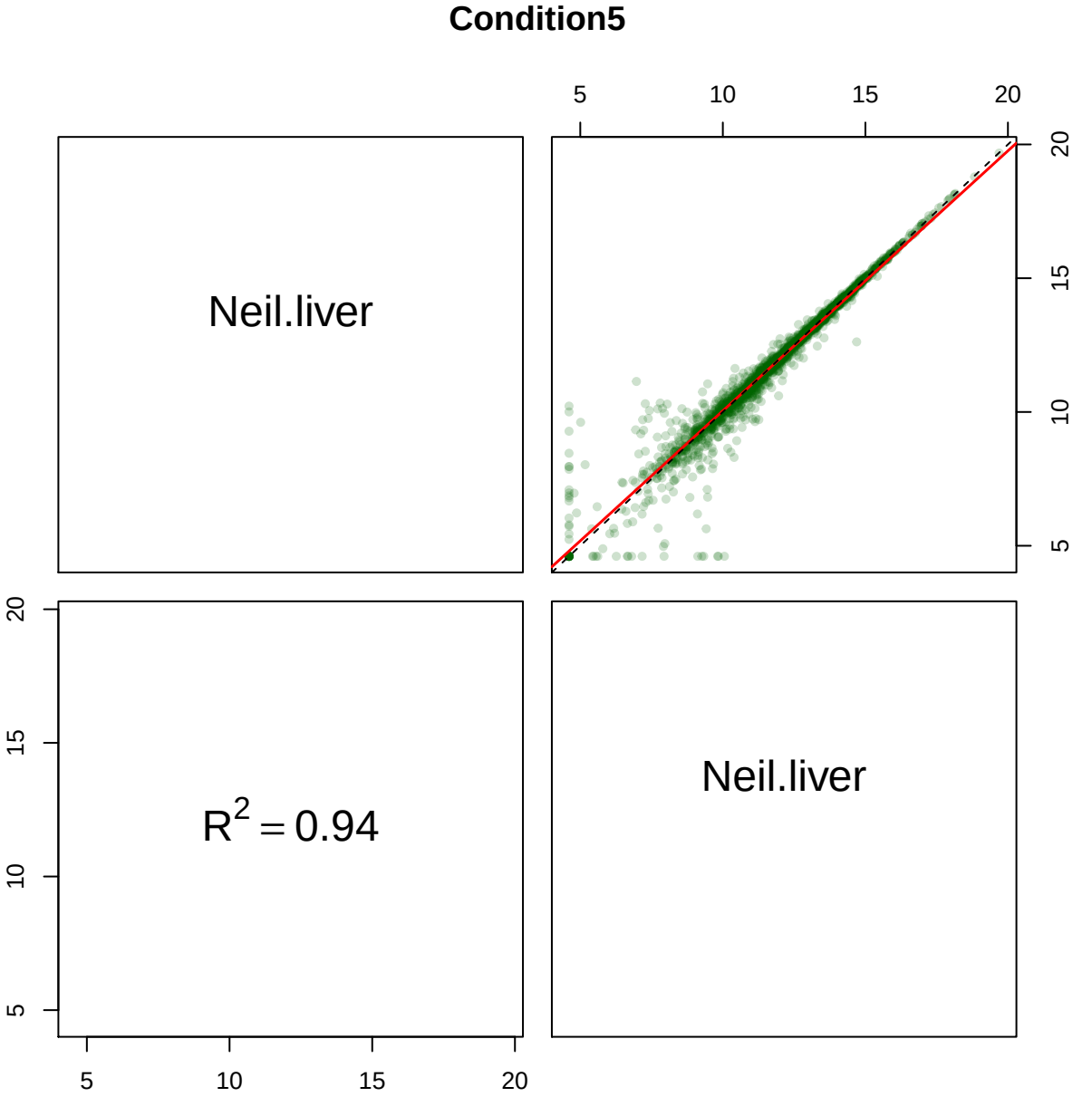

FDR
0.00
0.02
0.04
0
5000
10000
15000
20000
Confidence score

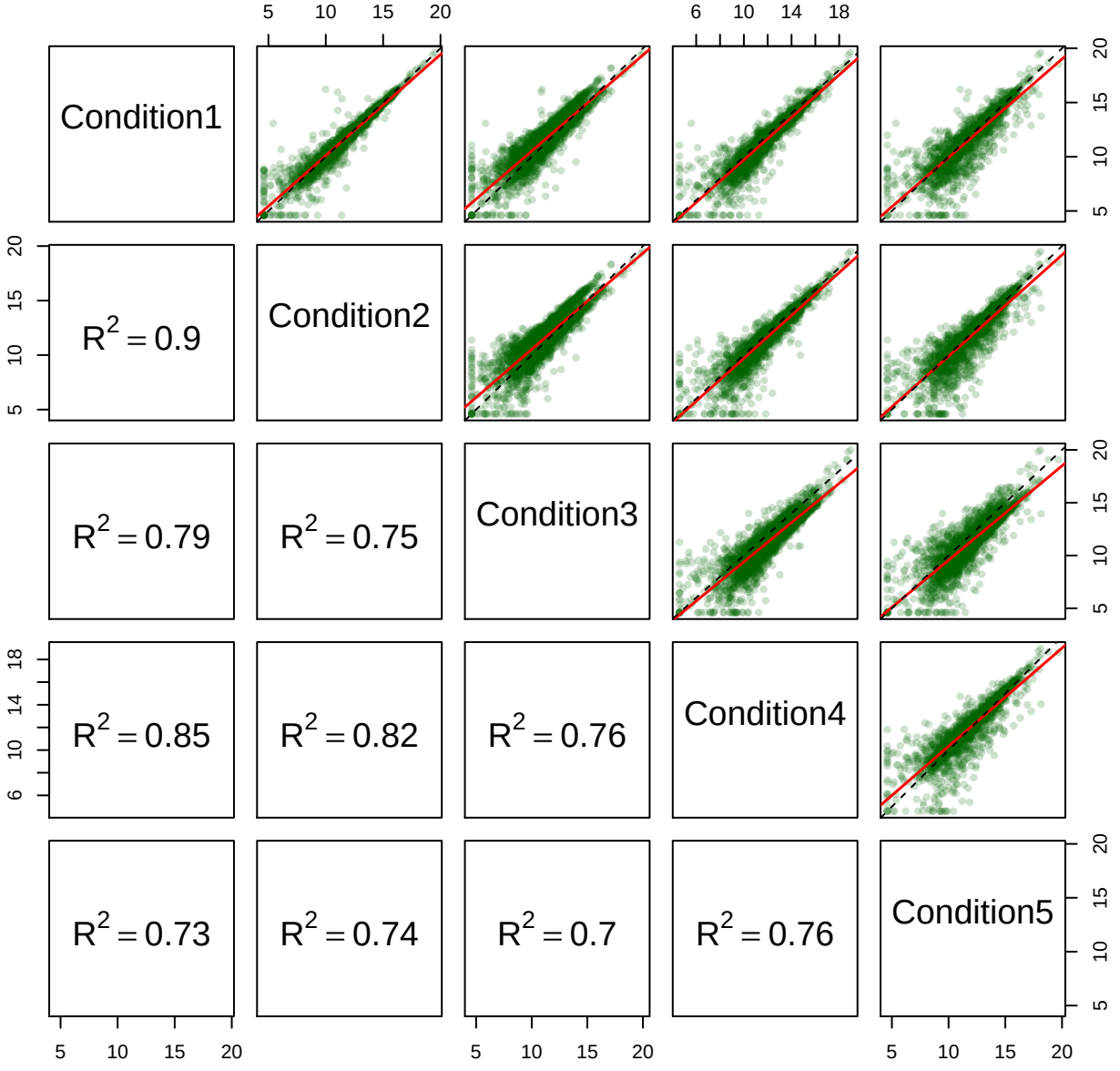

Condition1
Neil.left
5
10
15
20
$R^2 = 0.86$
Neil.left

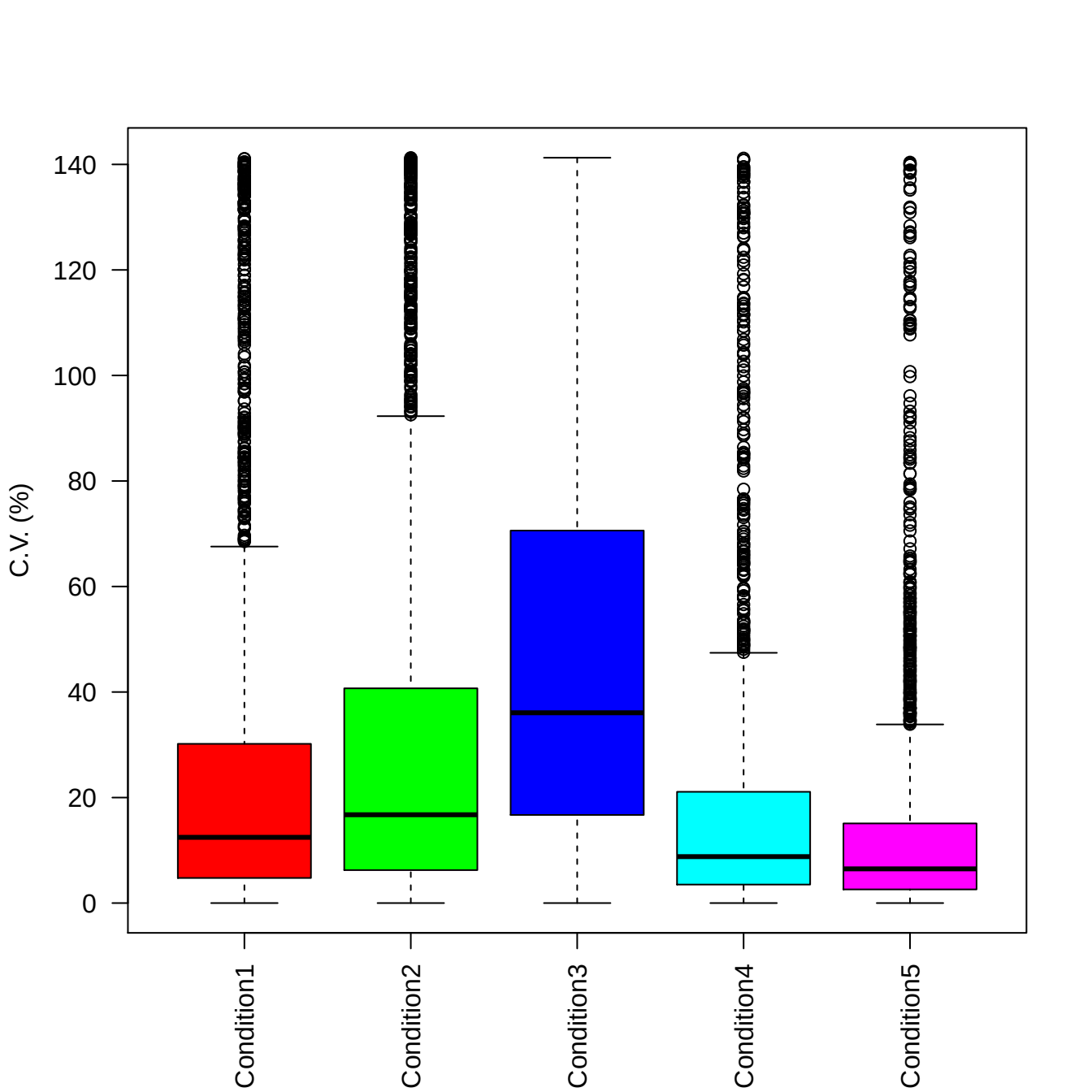

Condition2
Neil.right
5
10
15
20
$R^2 = 0.84$
Neil.right

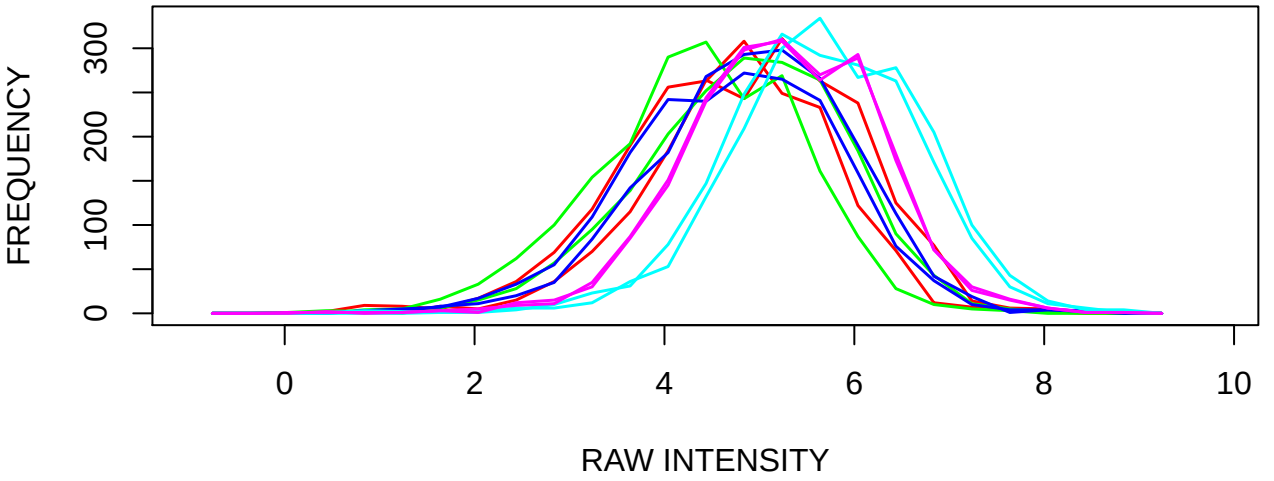

Condition3
Neil.mouse2
Neil.mix
$R^2 = 0.78$
5
10
15
20

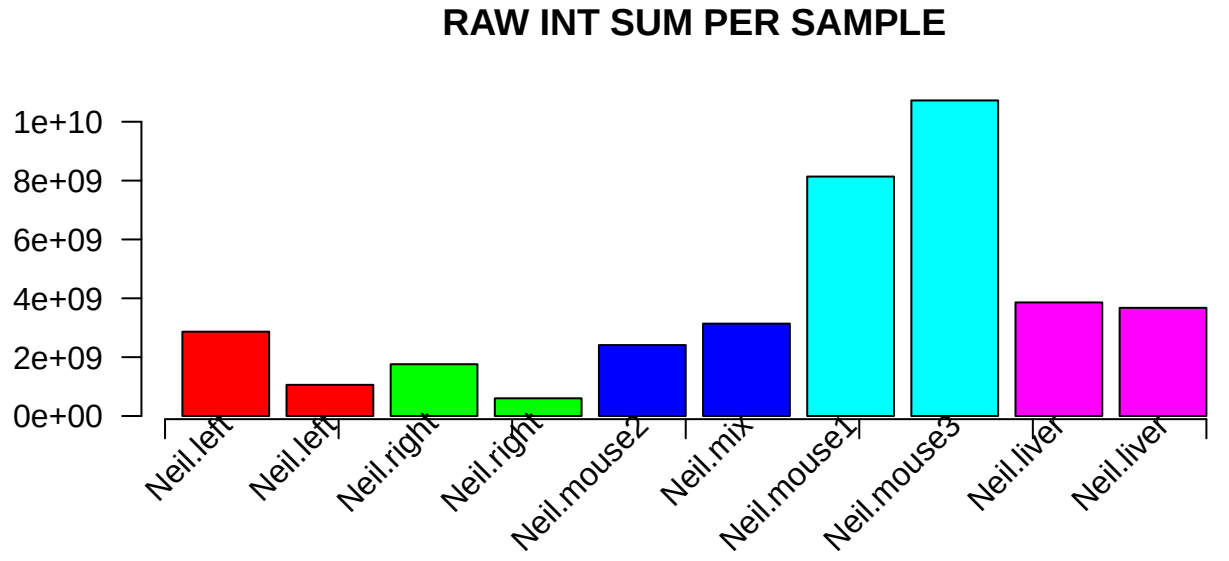

Condition4
Neil.mouse1
Neil.mouse3
$R^2 = 0.91$
6
8
10
12
14
16
18

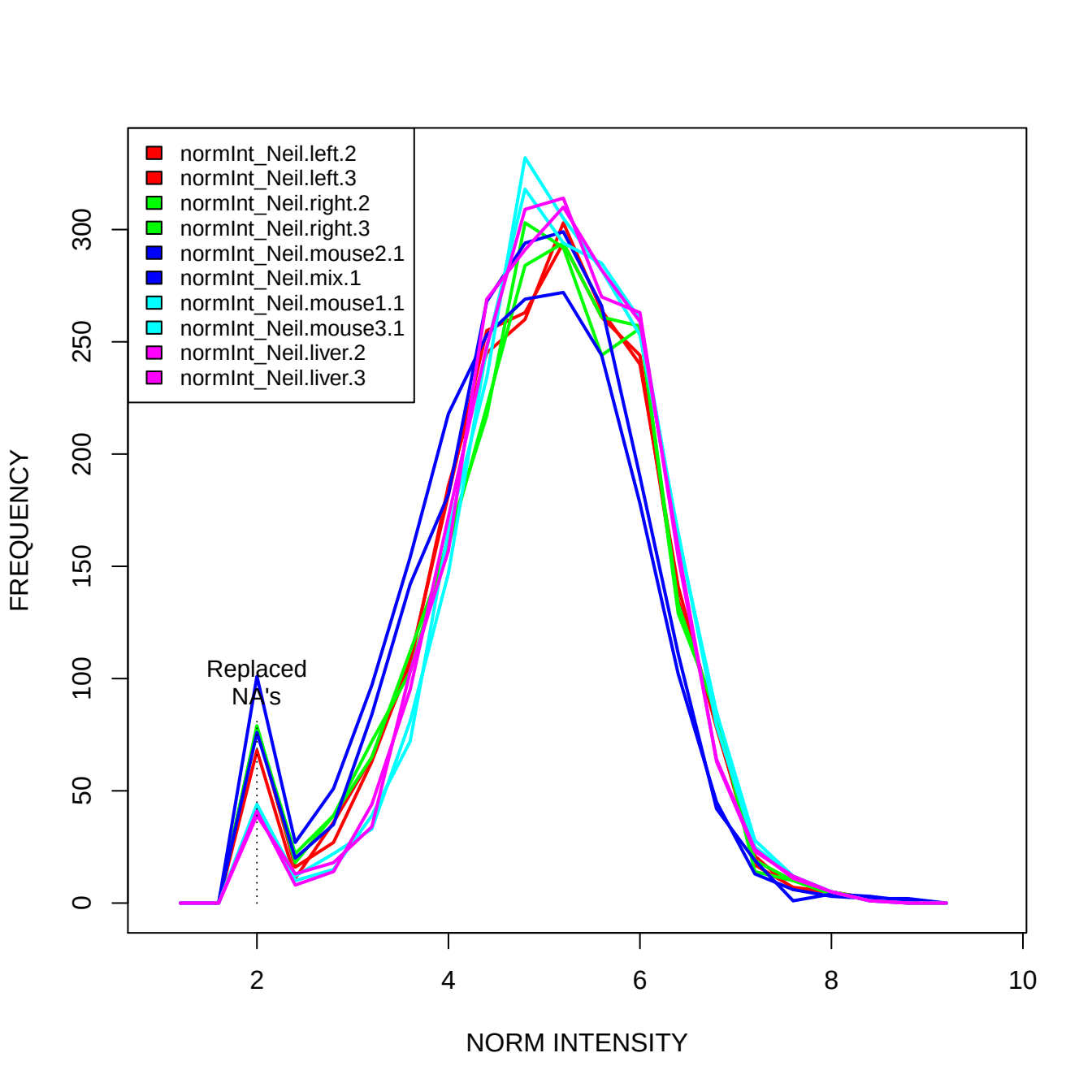

Condition5
Neil.liver
5
10
15
20
$R^2 = 0.94$
Neil.liver

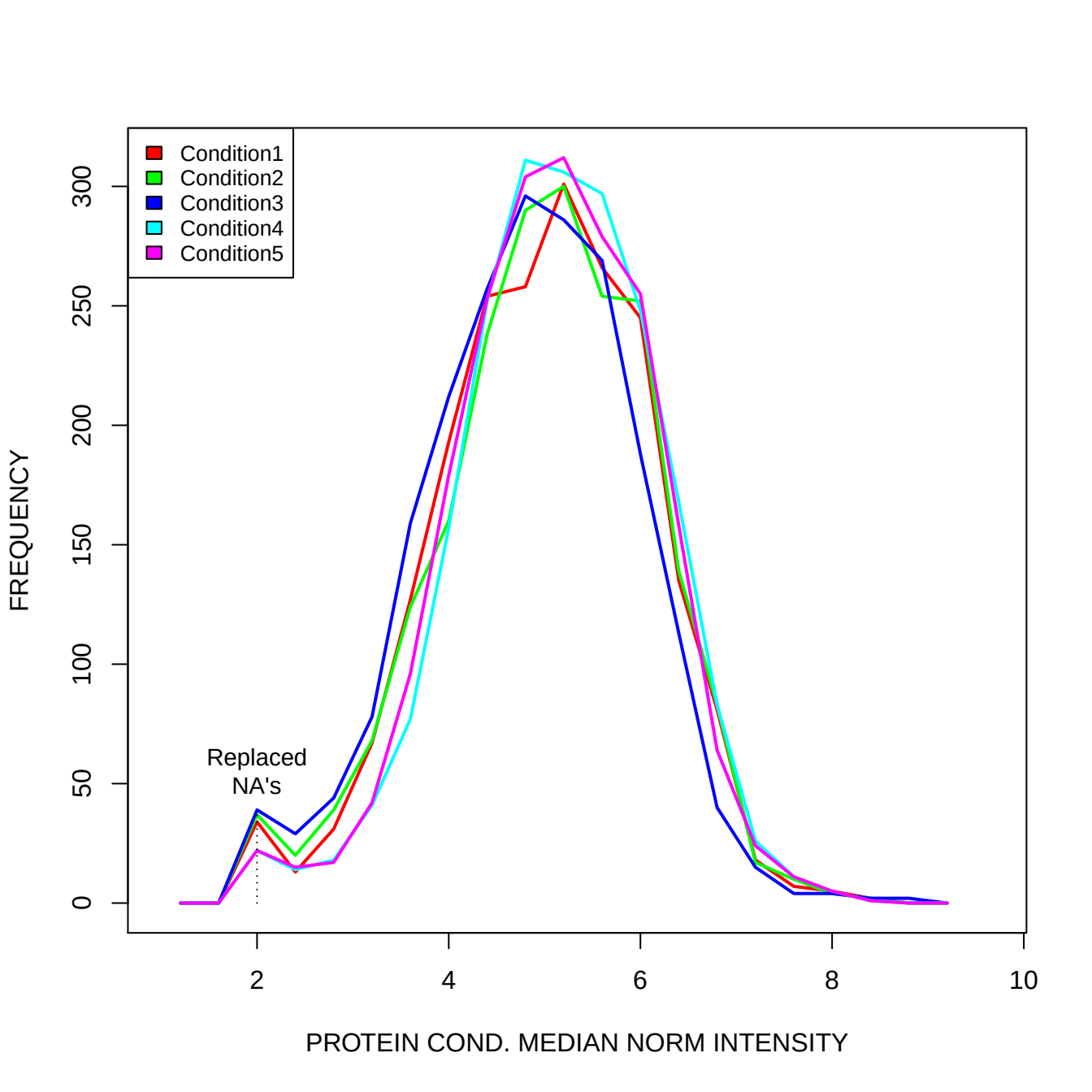

Condition1
Condition2
Condition3
Condition4
Condition5
$R^2 = 0.9$
$R^2 = 0.79$
$R^2 = 0.75$
$R^2 = 0.85$
$R^2 = 0.82$
$R^2 = 0.76$
$R^2 = 0.73$
$R^2 = 0.74$
$R^2 = 0.7$
$R^2 = 0.76$
5 10 15 20
6 10 14 18

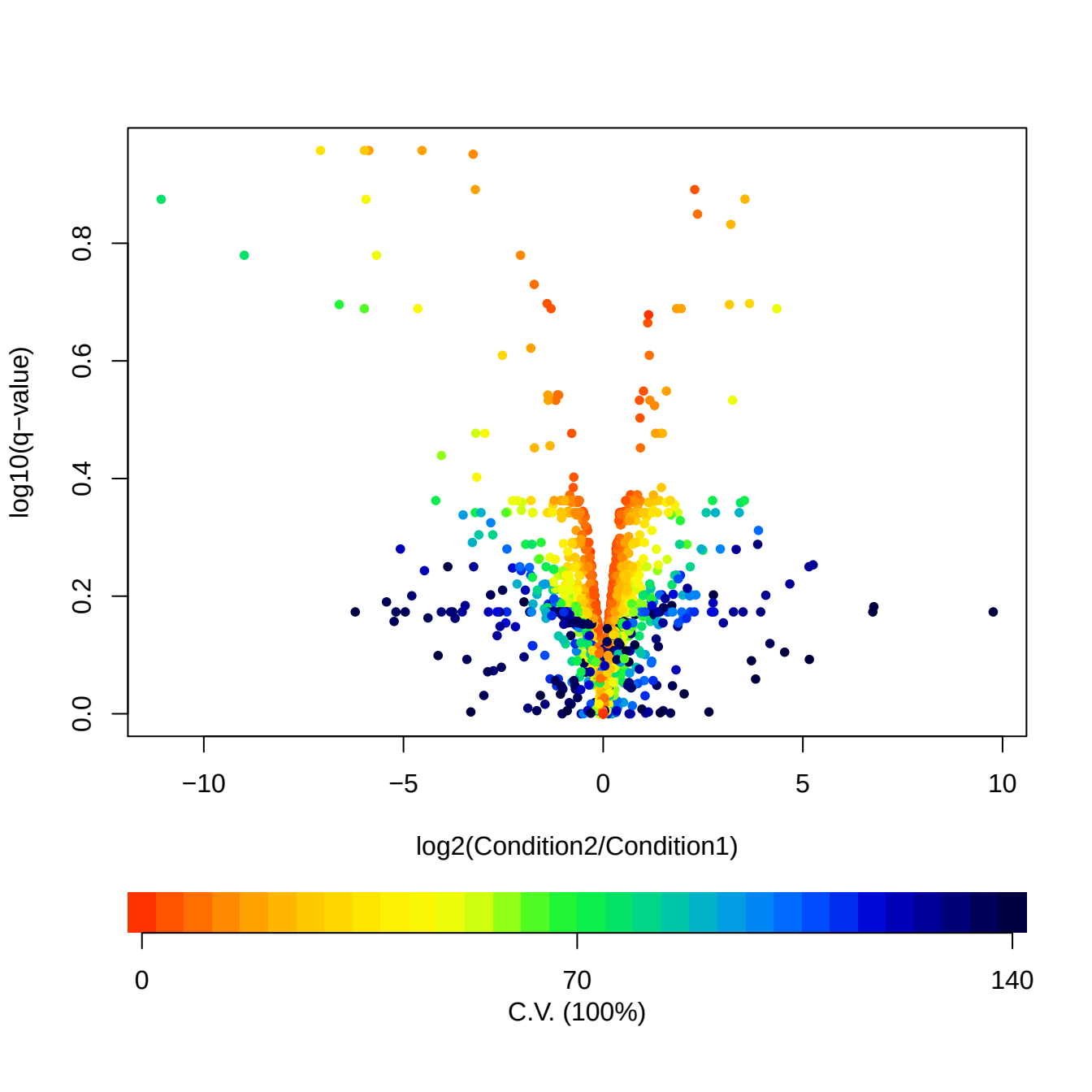

C.V. (%)
0
20
40
60
80
100
120
140
Condition1
Condition2
Condition3
Condition4
Condition5

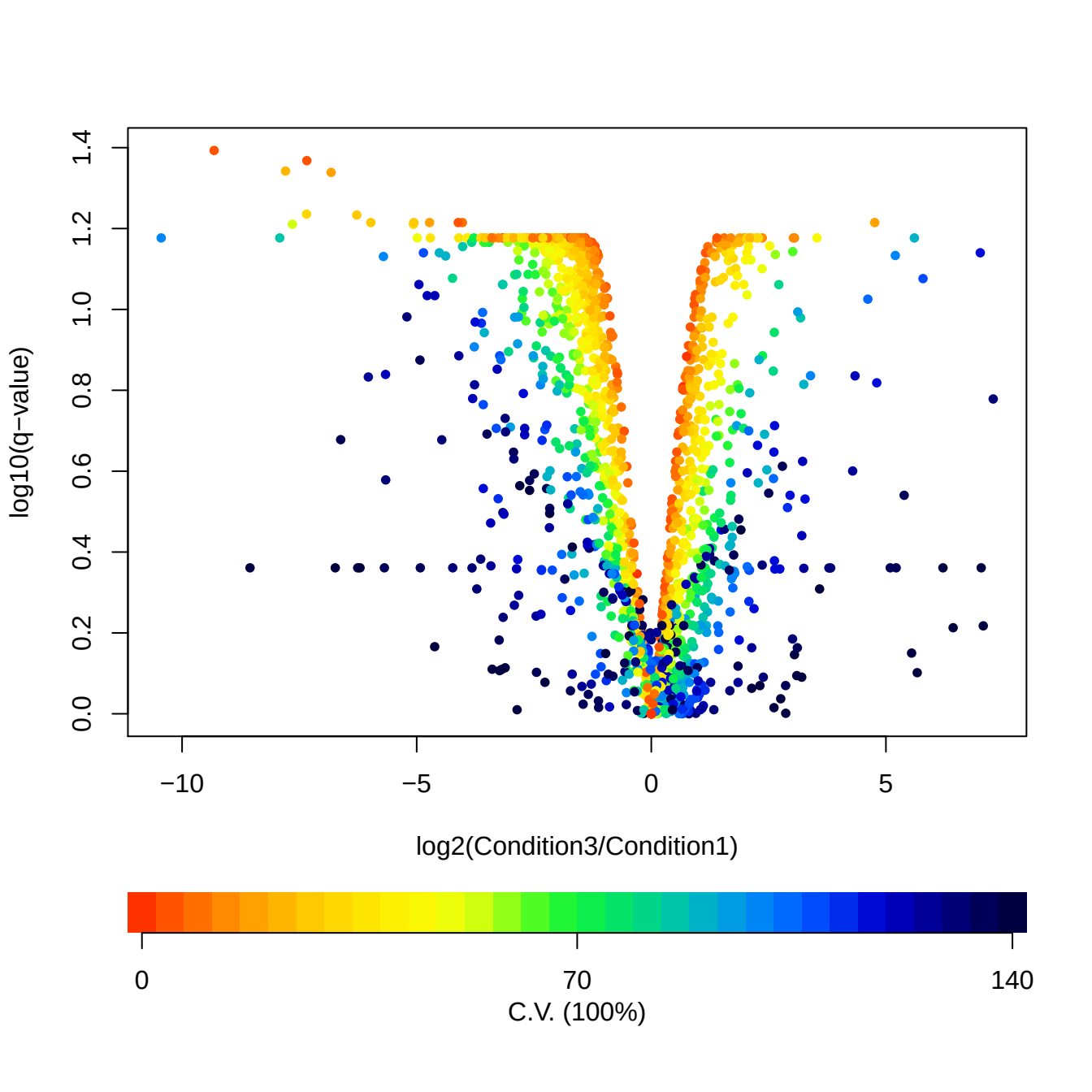

FREQUENCY
0
100
200
300
0
2
4
6
8
10
RAW INTENSITY

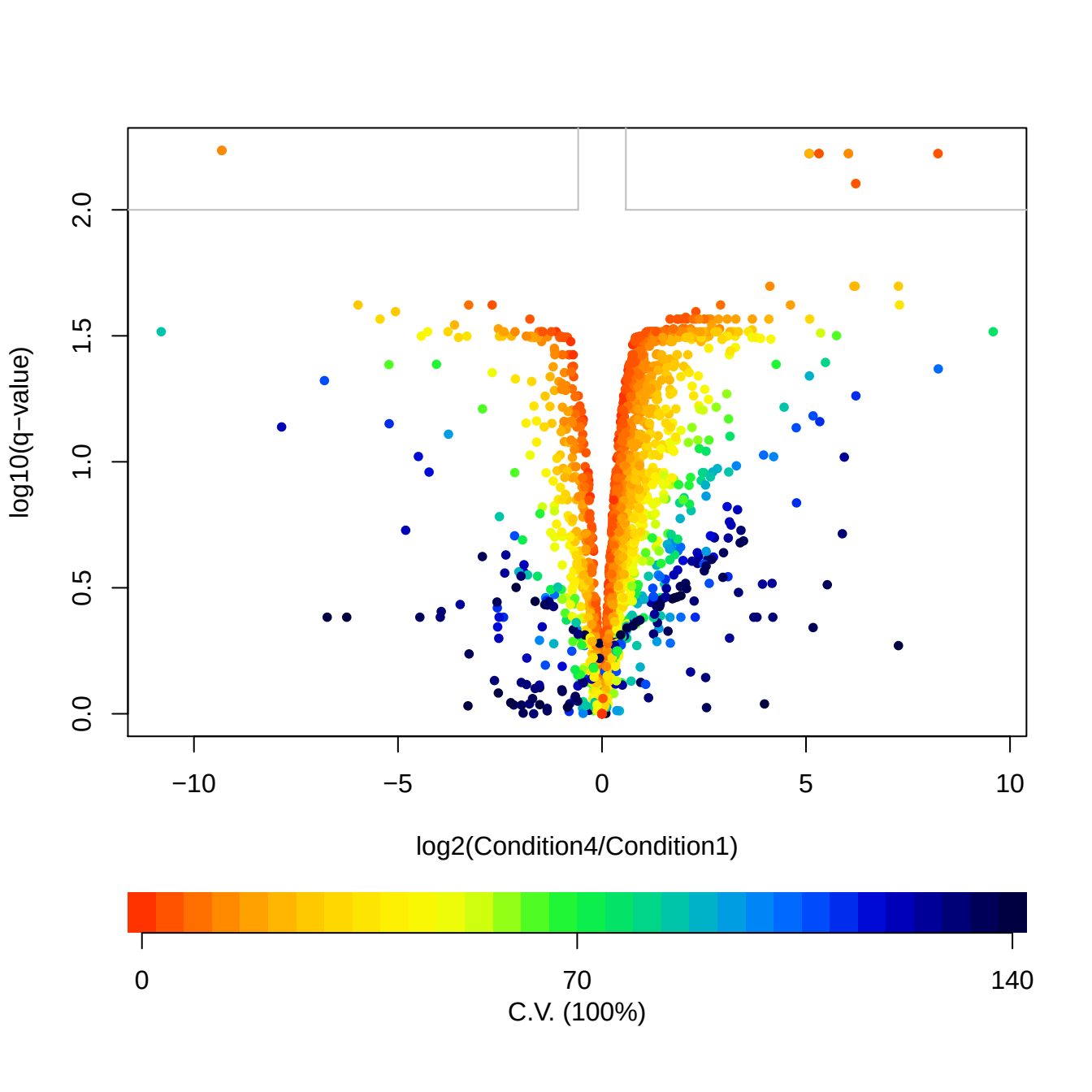

RAW INT SUM PER SAMPLE
1e+10
8e+09
6e+09
4e+09
2e+09
0e+00
Neil.left
Neil.left
Neil.right
Neil.right
Neil.mouse2
Neil.mix
Neil.mouse1
Neil.mouse3
Neil.liver
Neil.liver

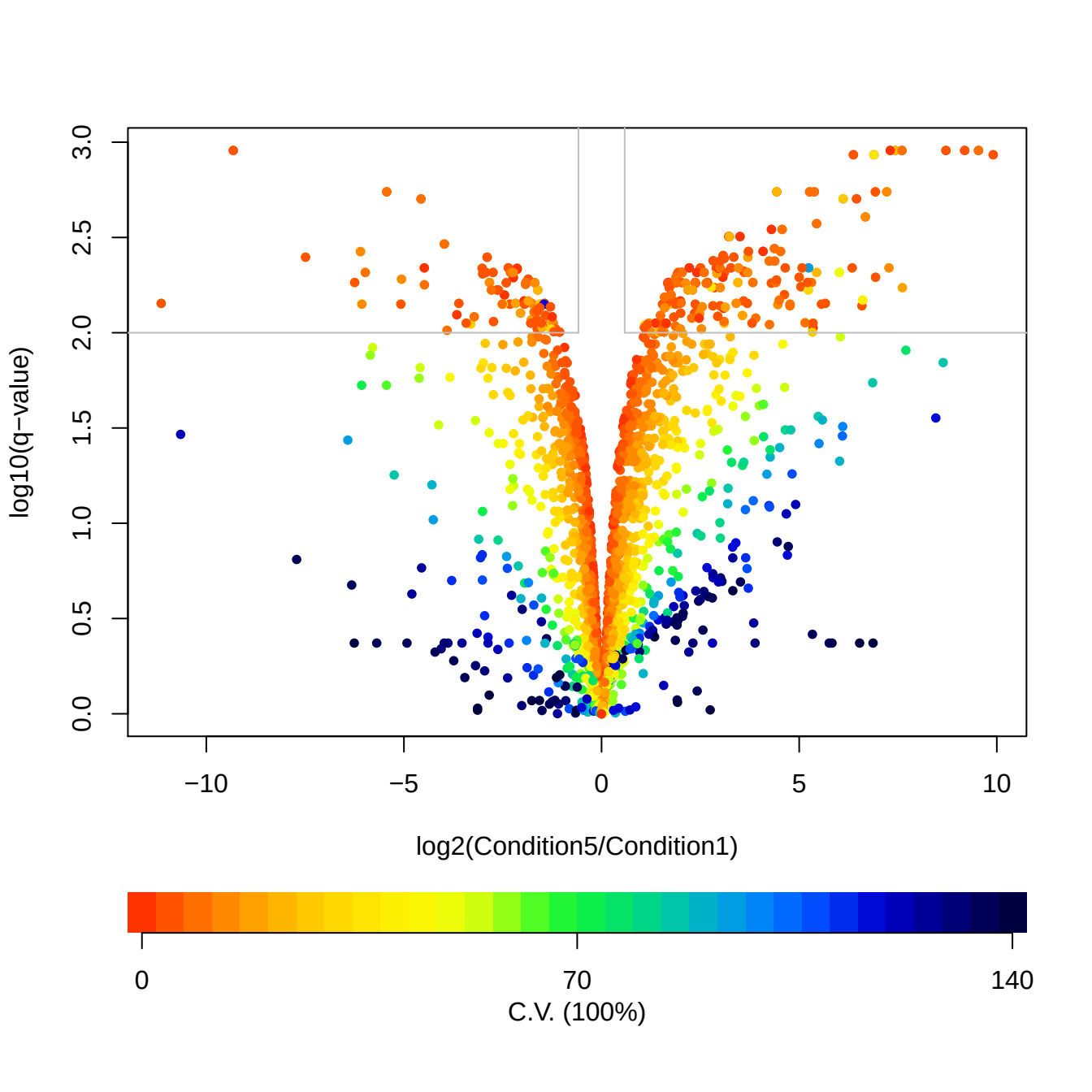

normInt_Neil.left.2
normInt_Neil.left.3
normInt_Neil.right.2
normInt_Neil.right.3
normInt_Neil.mouse2.1
normInt_Neil.mix.1
normInt_Neil.mouse1.1
normInt_Neil.mouse3.1
normInt_Neil.liver.2
normInt_Neil.liver.3
Replaced
NA's
FREQUENCY
0
50
100
150
200
250
300
2
4
6
8
10
NORM INTENSITY

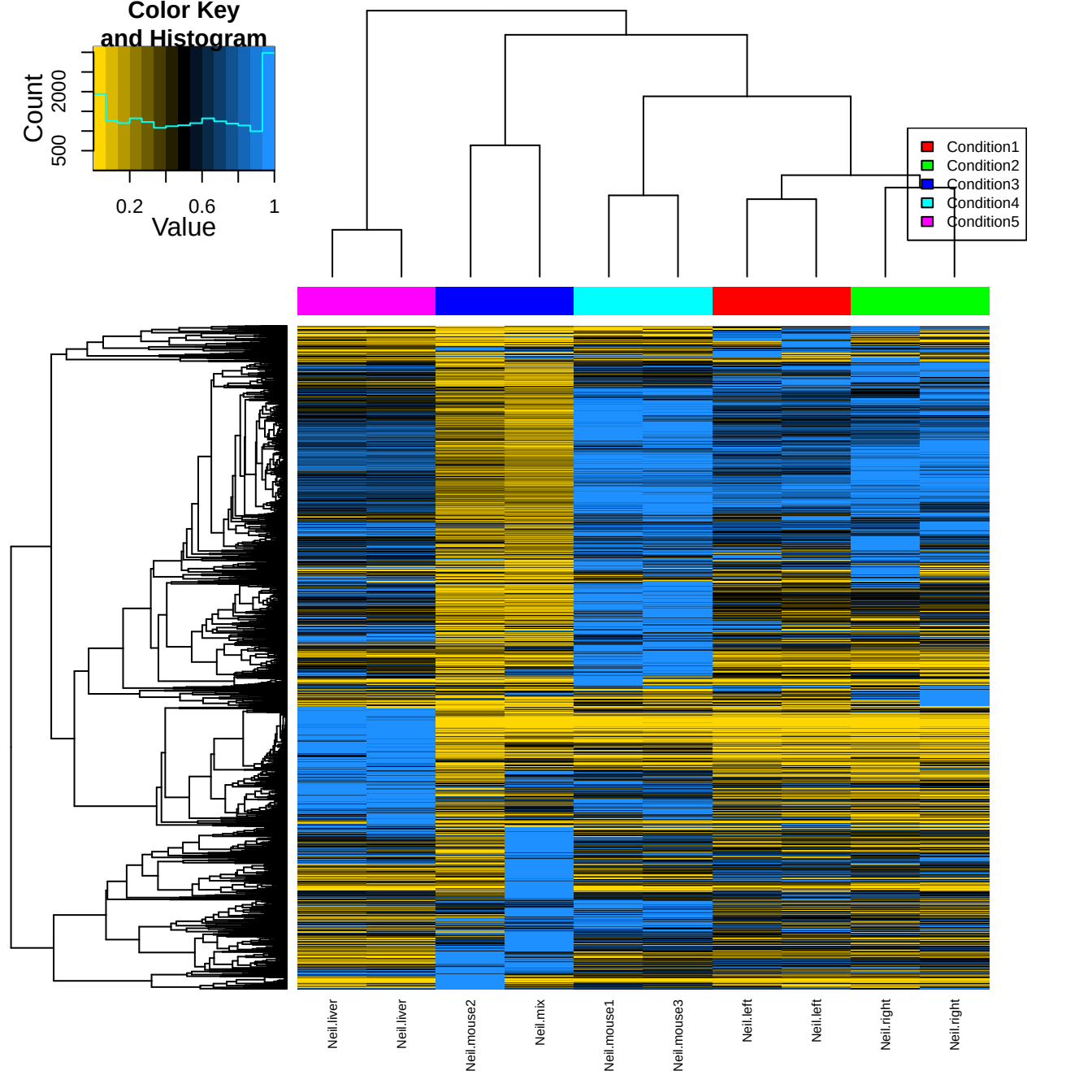

Condition1
Condition2
Condition3
Condition4
Condition5
Replaced
NA's
FREQUENCY
0
50
100
150
200
250
300
2
4
6
8
10
PROTEIN COND. MEDIAN NORM INTENSITY

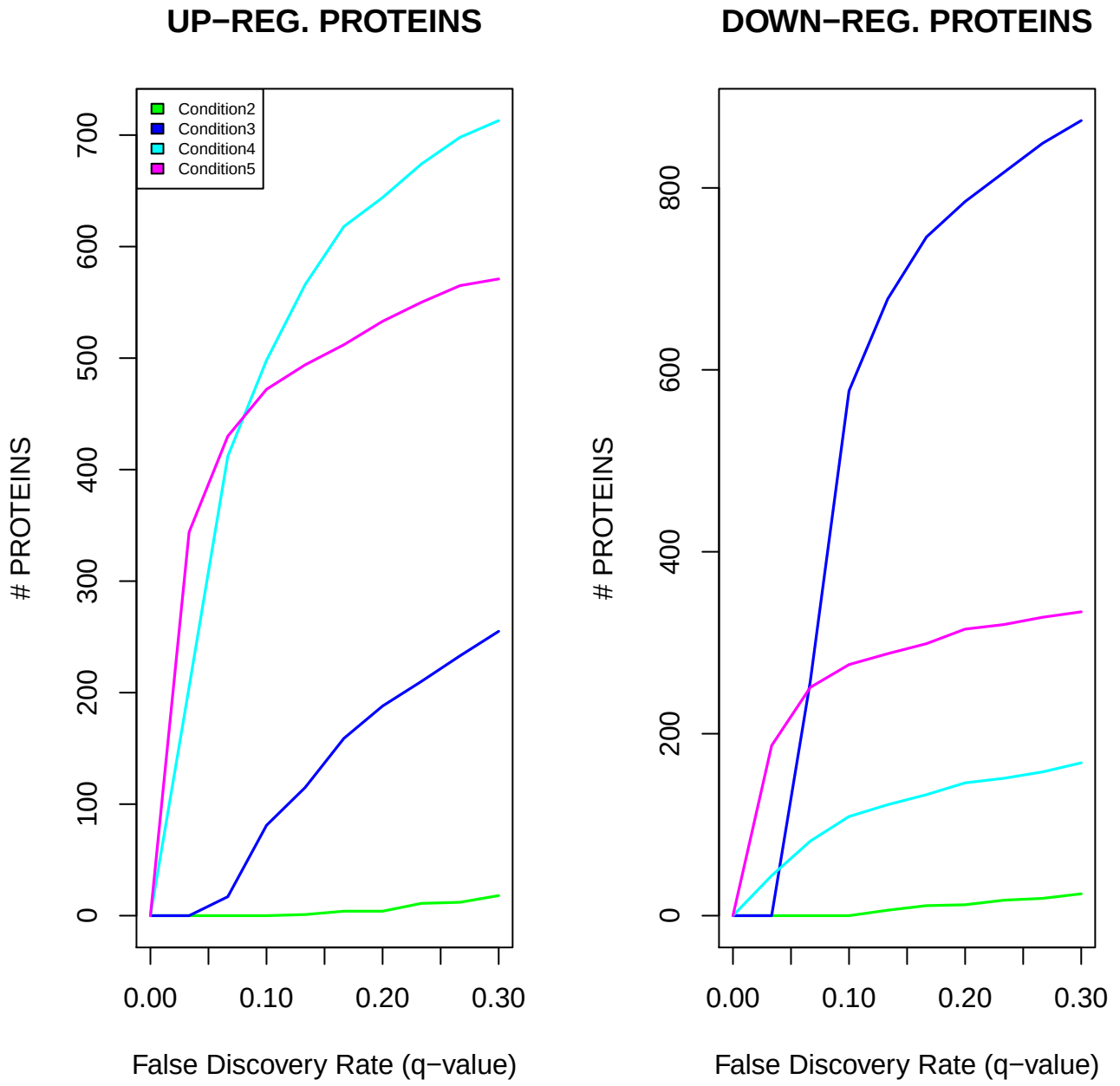

log10(q−value)
0.0
0.2
0.4
0.6
0.8
−10
−5
0
5
10
log2(Condition2/Condition1)
0
70
140
C.V. (100%)


log10(q−value)
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
−10
−5
0
5
log2(Condition3/Condition1)
0
70
140
C.V. (100%)


log10(q−value)
0.0
0.5
1.0
1.5
2.0
−10
−5
0
5
10
log2(Condition4/Condition1)
0
70
140
C.V. (100%)


log10(q−value)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
−10
−5
0
5
10
log2(Condition5/Condition1)
0
70
140
C.V. (100%)


Color Key
and Histogram
Count
2000
500
0.2
0.6
1
Value
Condition1
Condition2
Condition3
Condition4
Condition5
Neil.liver
Neil.liver
Neil.mouse2
Neil.mix
Neil.mouse1
Neil.mouse3
Neil.left
Neil.left
Neil.right
Neil.right


UP−REG. PROTEINS
DOWN−REG. PROTEINS
Condition2
Condition3
Condition4
Condition5
PROTEINS
0
100
200
300
400
500
600
700
800
0.00
0.10
0.20
0.30
False Discovery Rate (q−value)