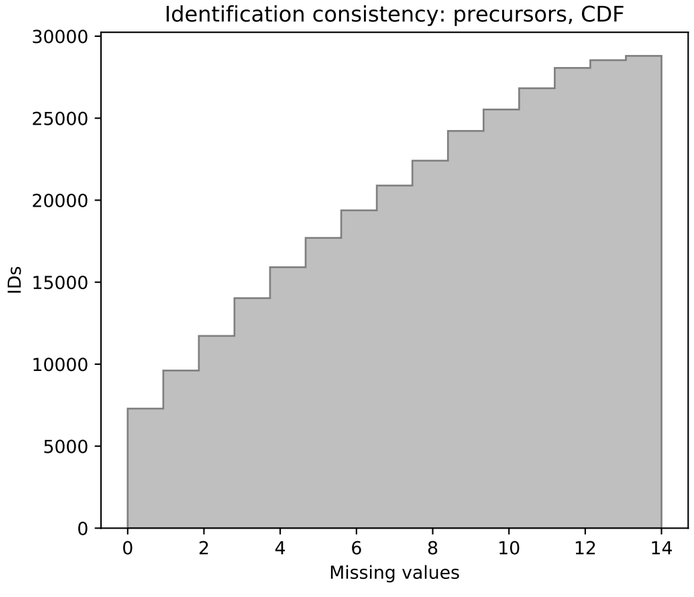
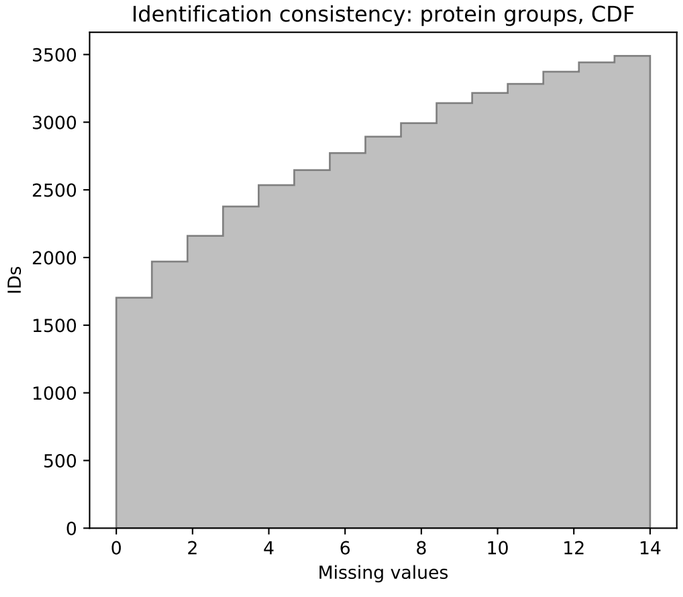
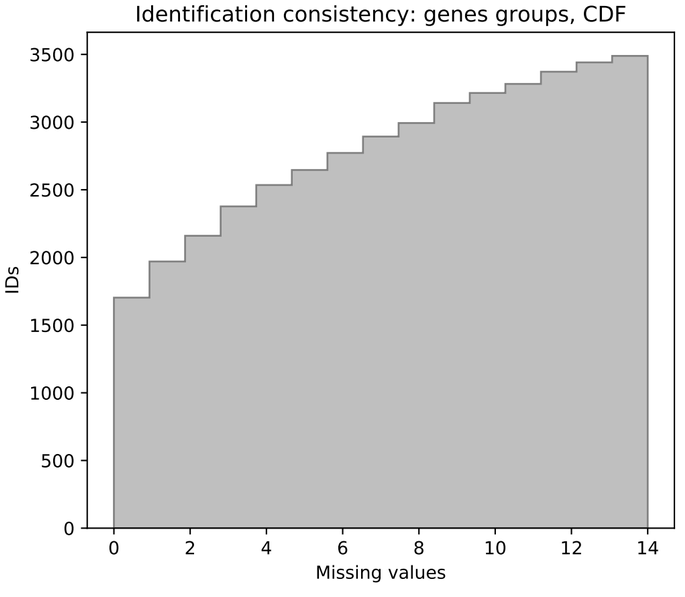
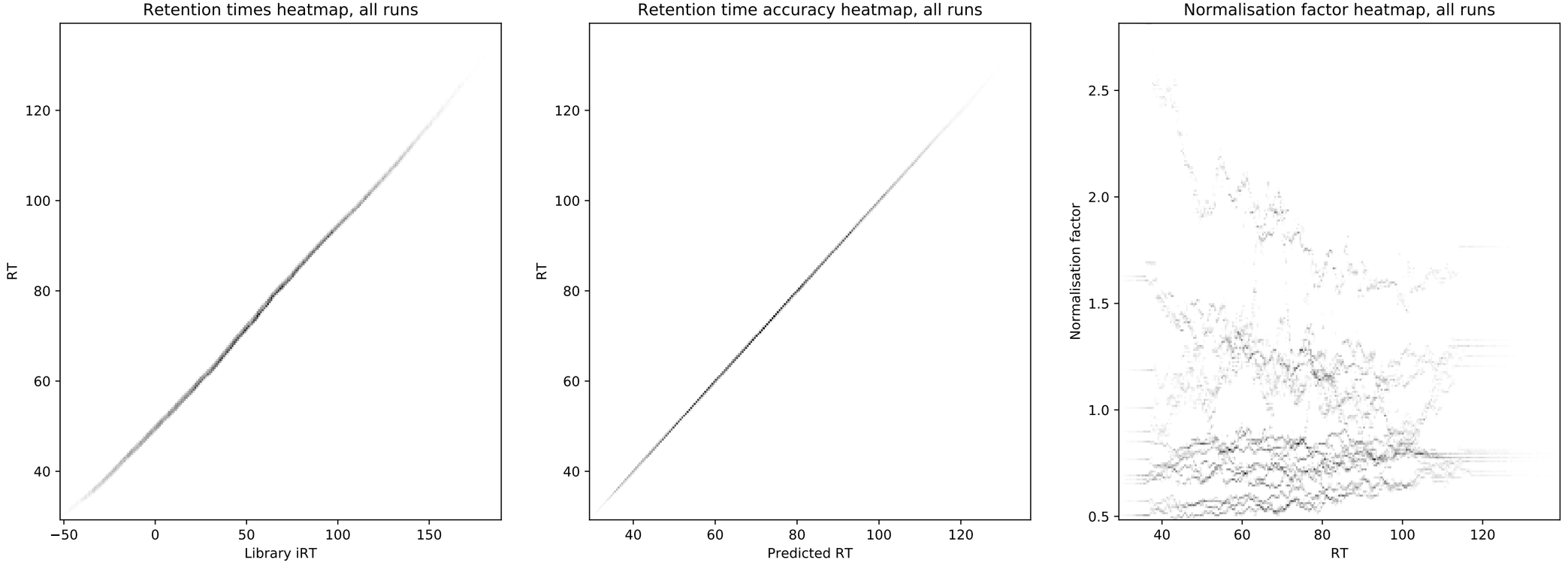
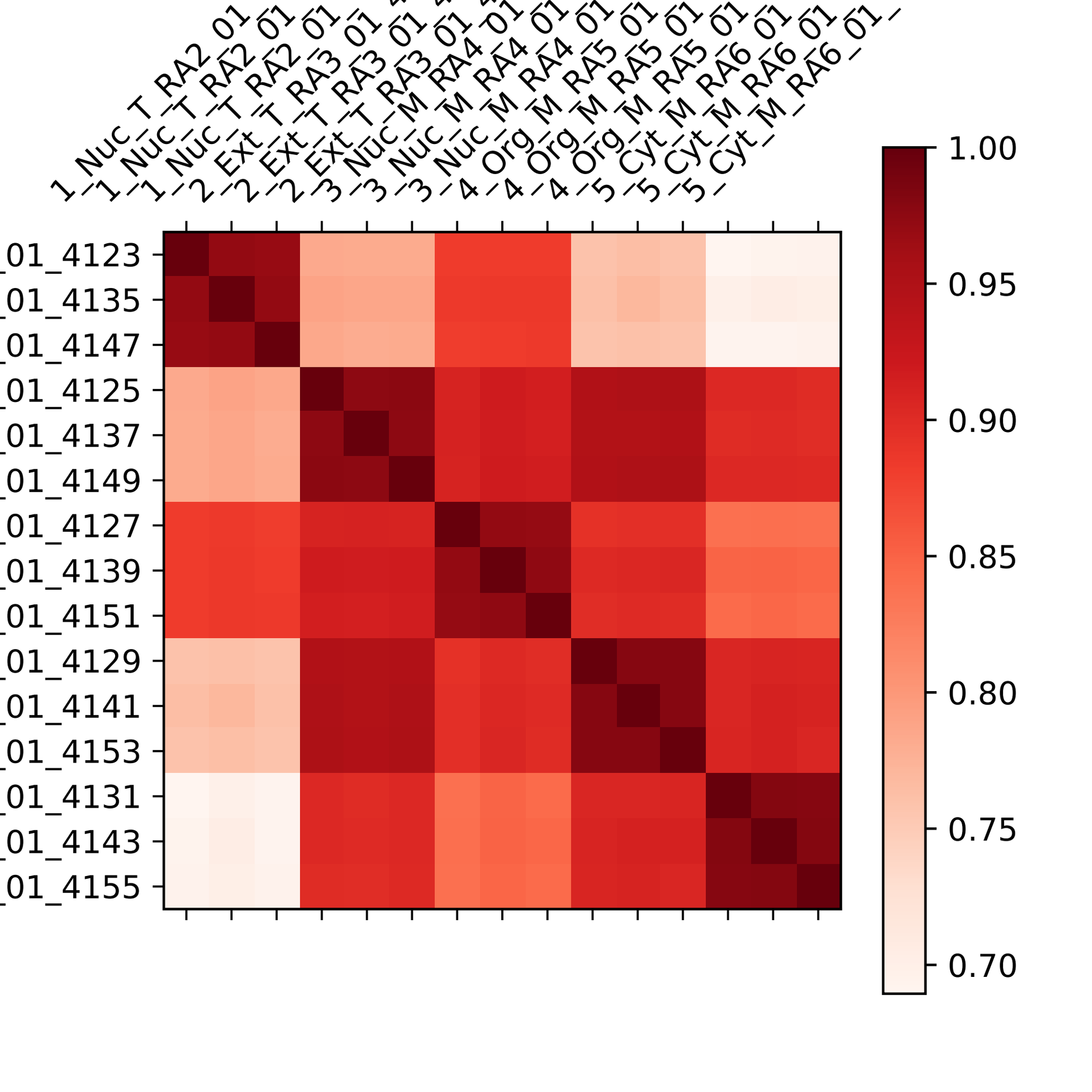
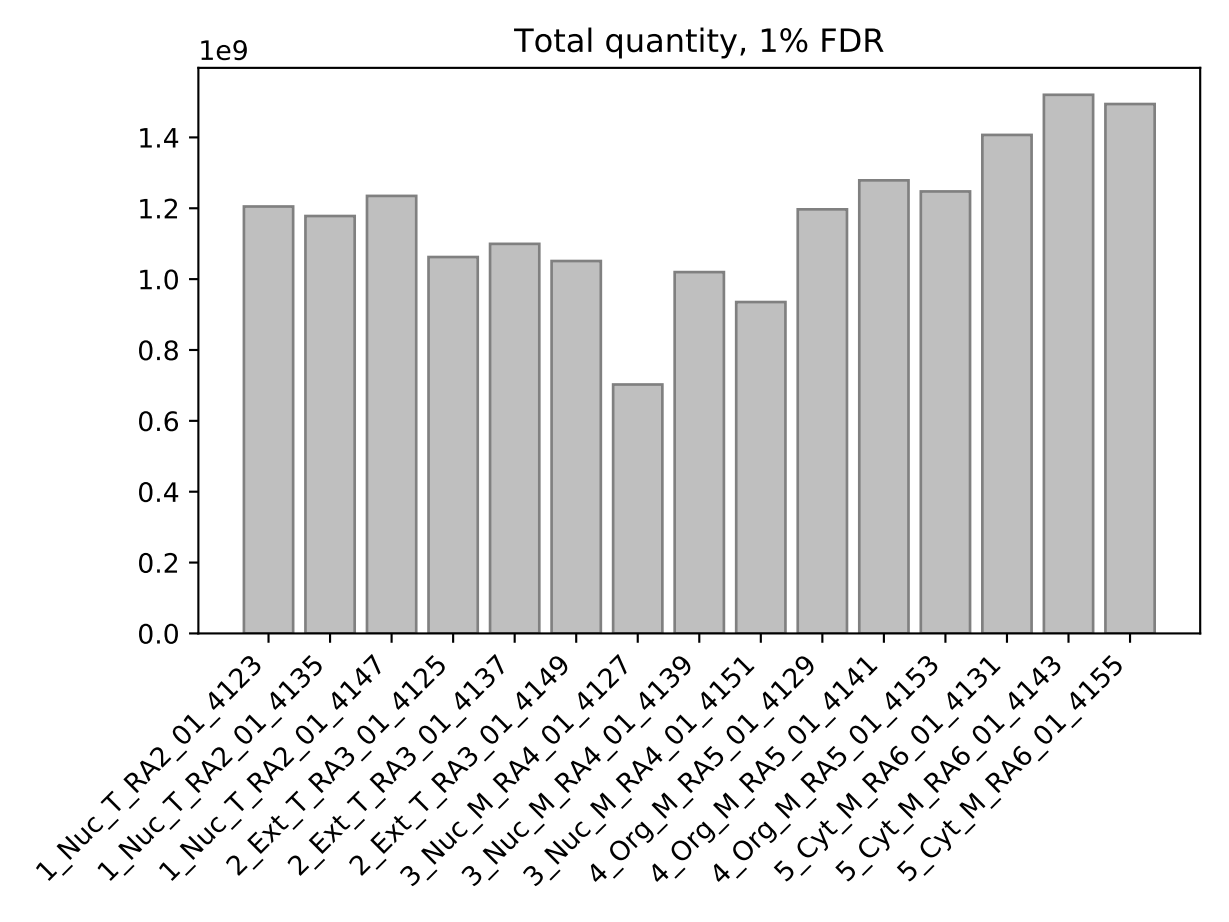

Identification consistency: precursors, CDF
IDs
Missing values
0
5000
10000
15000
20000
25000
30000
0
2
4
6
8
10
12
14

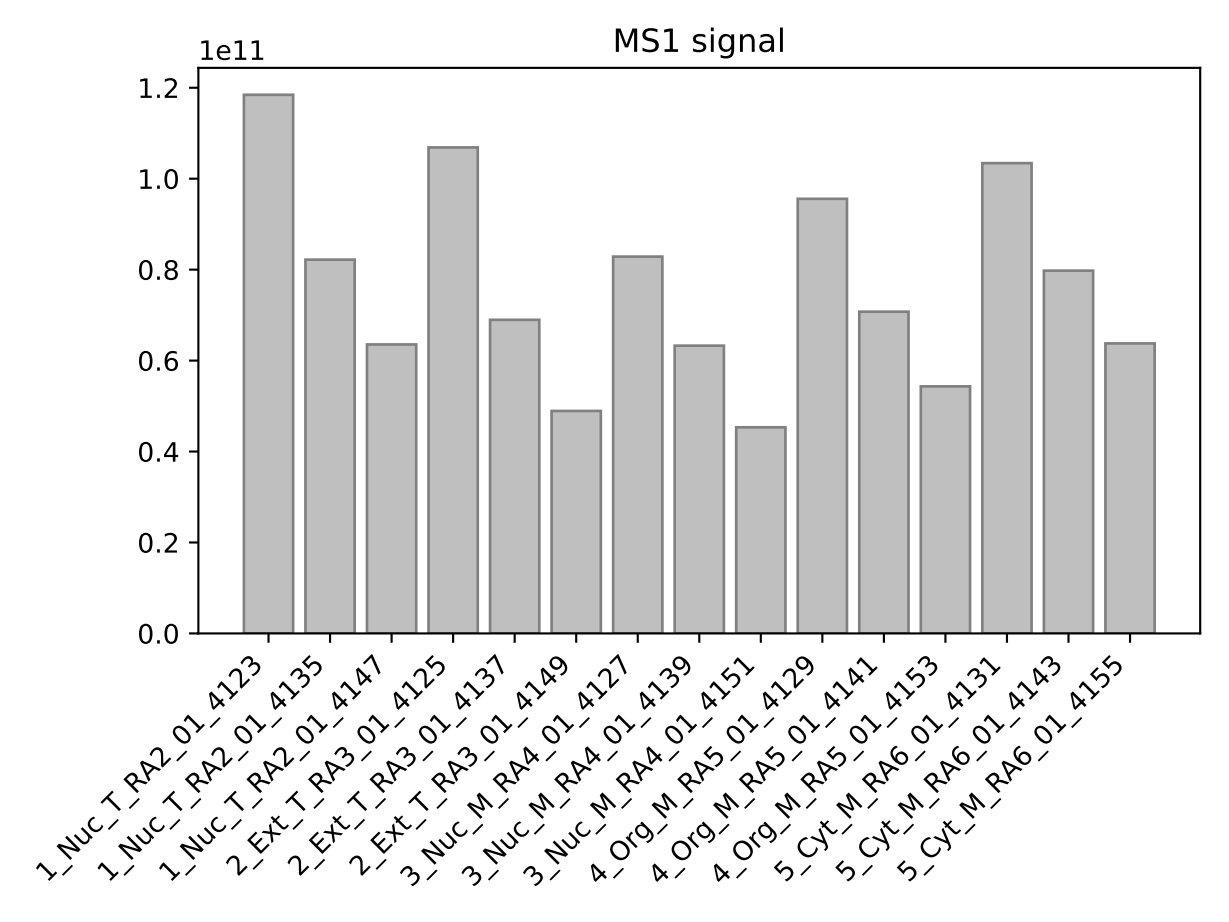

Identification consistency: protein groups, CDF
IDs
Missing values
0
500
1000
1500
2000
2500
3000
3500
0
2
4
6
8
10
12
14

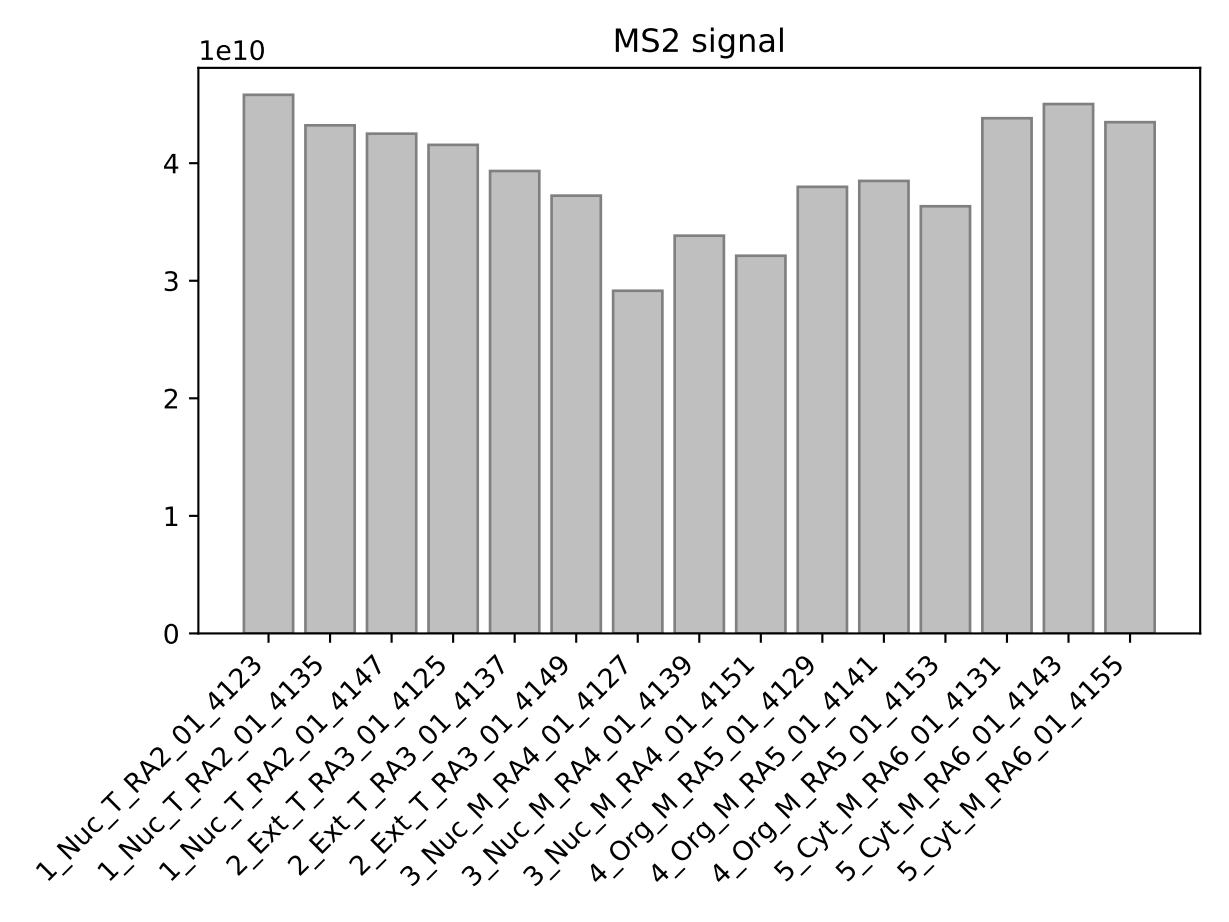

Identification consistency: genes groups, CDF
IDs
Missing values
0
500
1000
1500
2000
2500
3000
3500
0
2
4
6
8
10
12
14

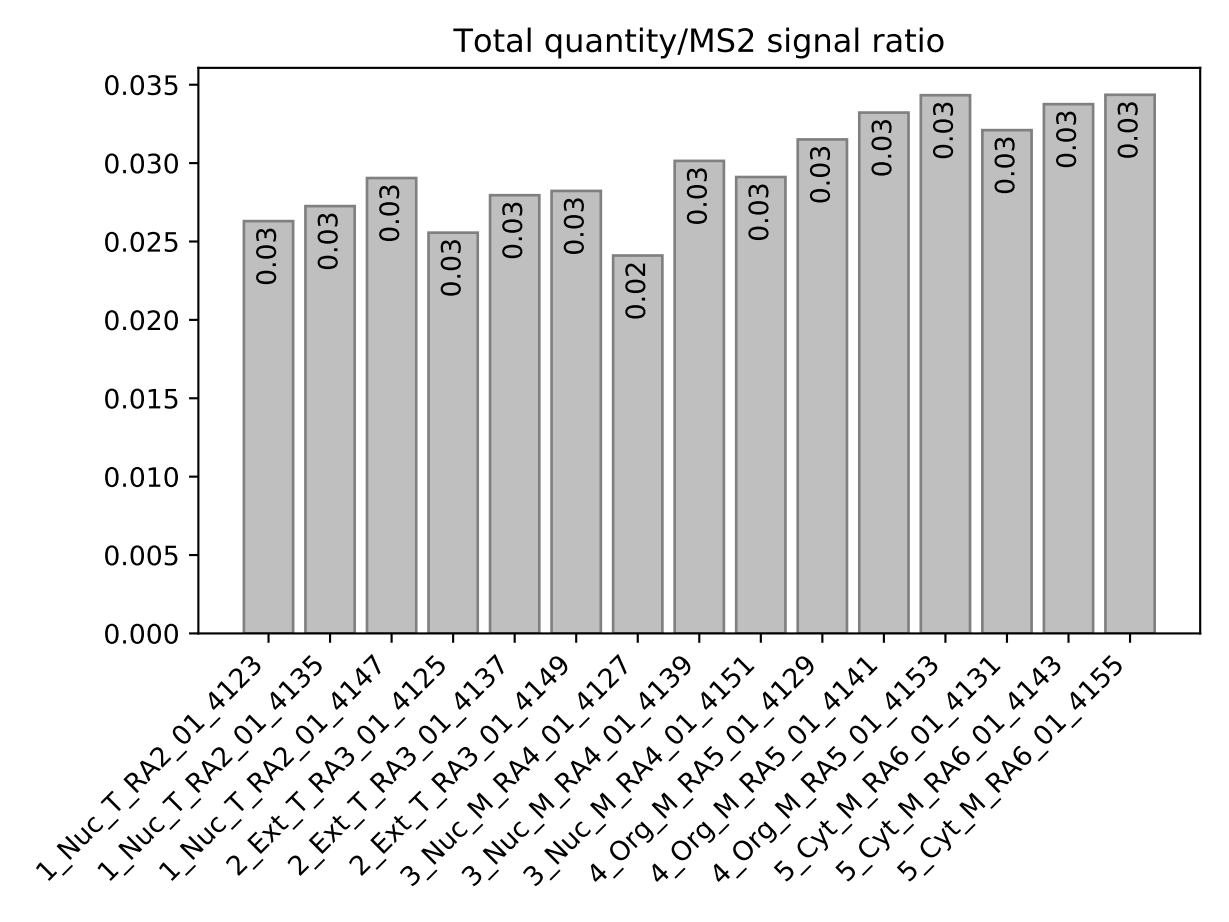

Retention times heatmap, all runs
RT
Library iRT
Retention time accuracy heatmap, all runs
RT
Predicted RT
Normalisation factor heatmap, all runs
Normalisation factor
RT

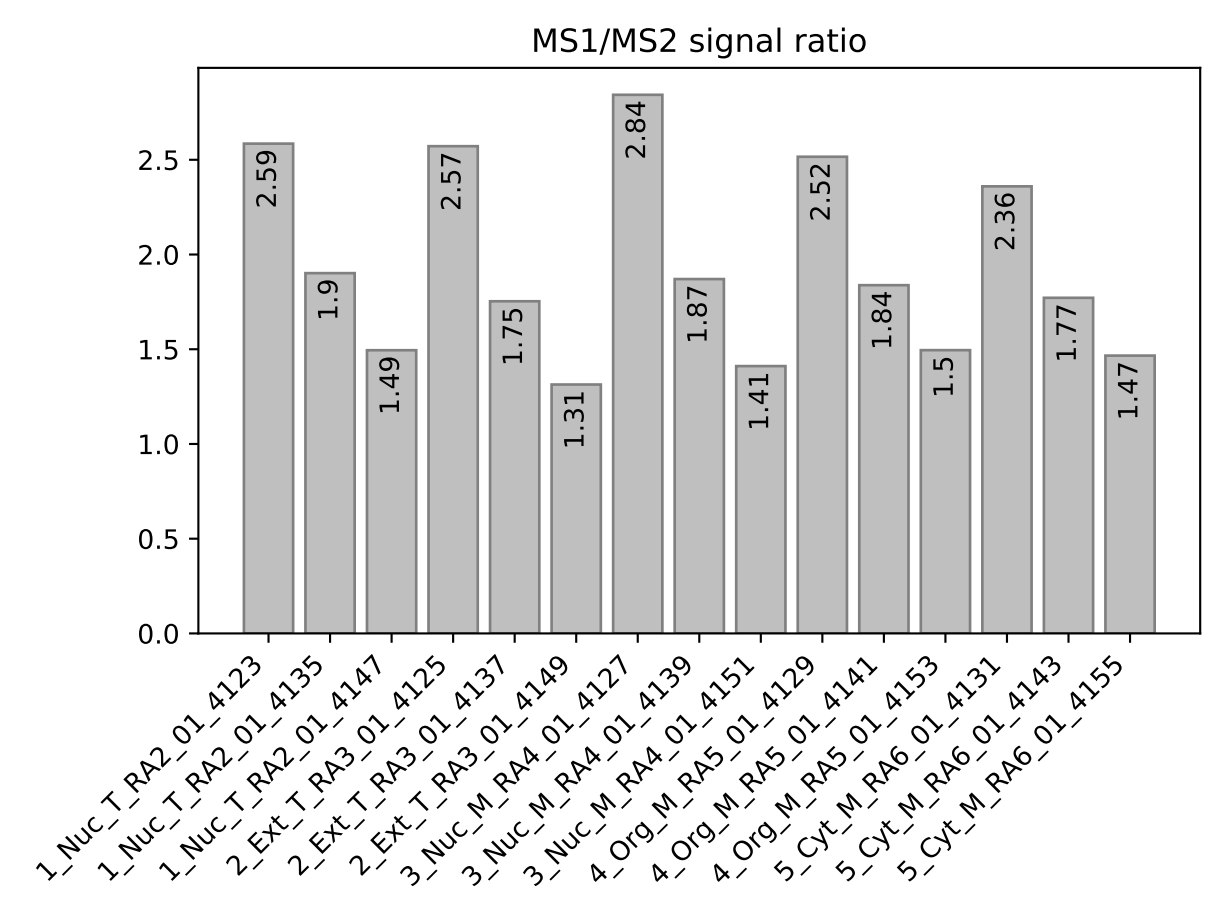

1_Nuc_T_RA2_01_4123
1_Nuc_T_RA2_01_4135
1_Nuc_T_RA2_01_4147
1_Nuc_T_RA3_01_4125
2_Ext_T_RA3_01_4137
2_Ext_T_RA3_01_4149
2_Ext_T_RA4_01_4127
3_Nuc_M_RA4_01_4139
3_Nuc_M_RA4_01_4151
3_Nuc_M_RA5_01_4129
4_Org_M_RA5_01_4141
4_Org_M_RA5_01_4153
5_Cyt_M_RA6_01_4131
5_Cyt_M_RA6_01_4143
5_Cyt_M_RA6_01_4155
1.00
0.95
0.90
0.85
0.80
0.75
0.70

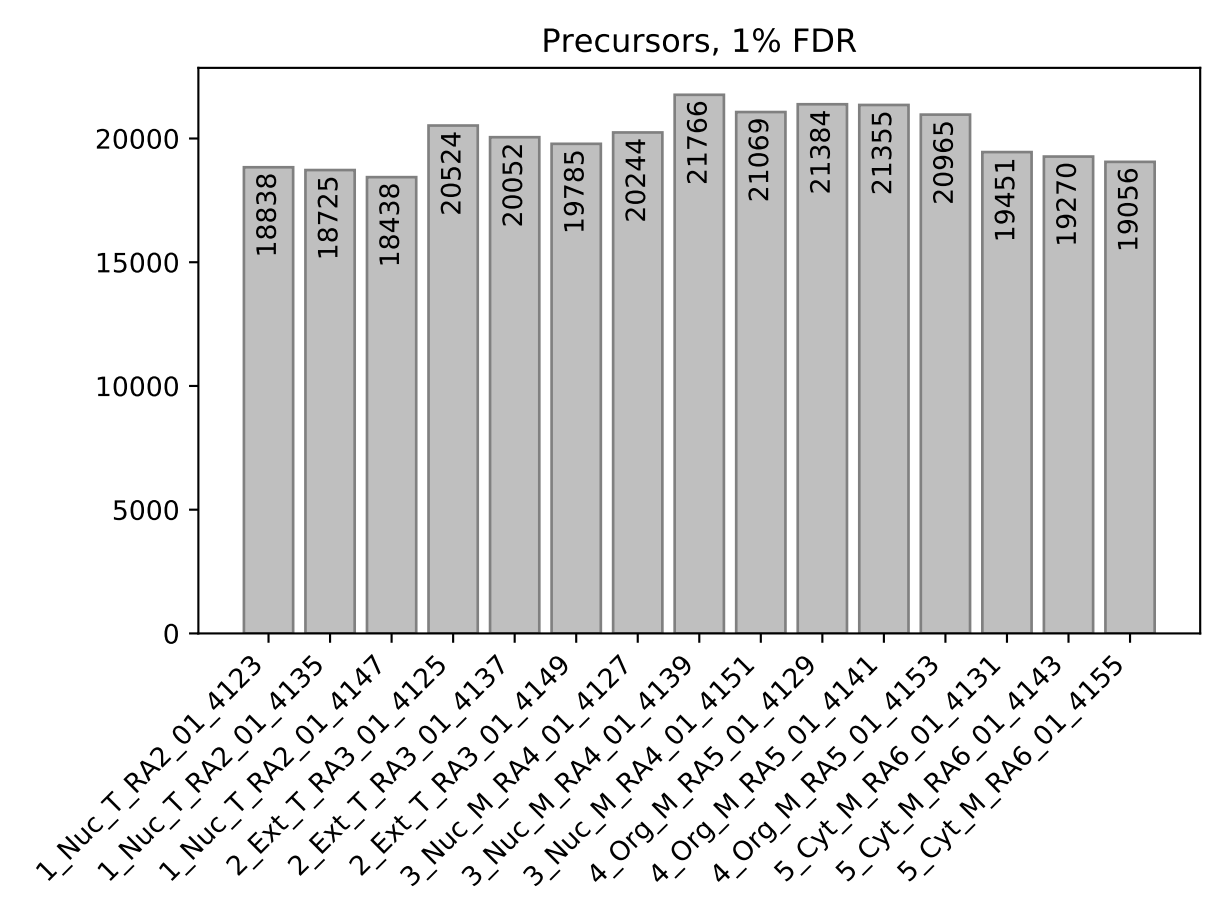

Total quantity, 1% FDR
1e9
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
1_Nuc_T_RA2_01_4123
1_Nuc_T_RA2_01_4135
1_Nuc_T_RA2_01_4147
2_Ext_T_RA3_01_4125
2_Ext_T_RA3_01_4137
2_Ext_T_RA3_01_4149
3_Nuc_M_RA4_01_4127
3_Nuc_M_RA4_01_4139
3_Nuc_M_RA4_01_4151
4_Org_M_RA5_01_4129
4_Org_M_RA5_01_4141
4_Org_M_RA5_01_4153
5_Cyt_M_RA6_01_4131
5_Cyt_M_RA6_01_4143
5_Cyt_M_RA6_01_4155

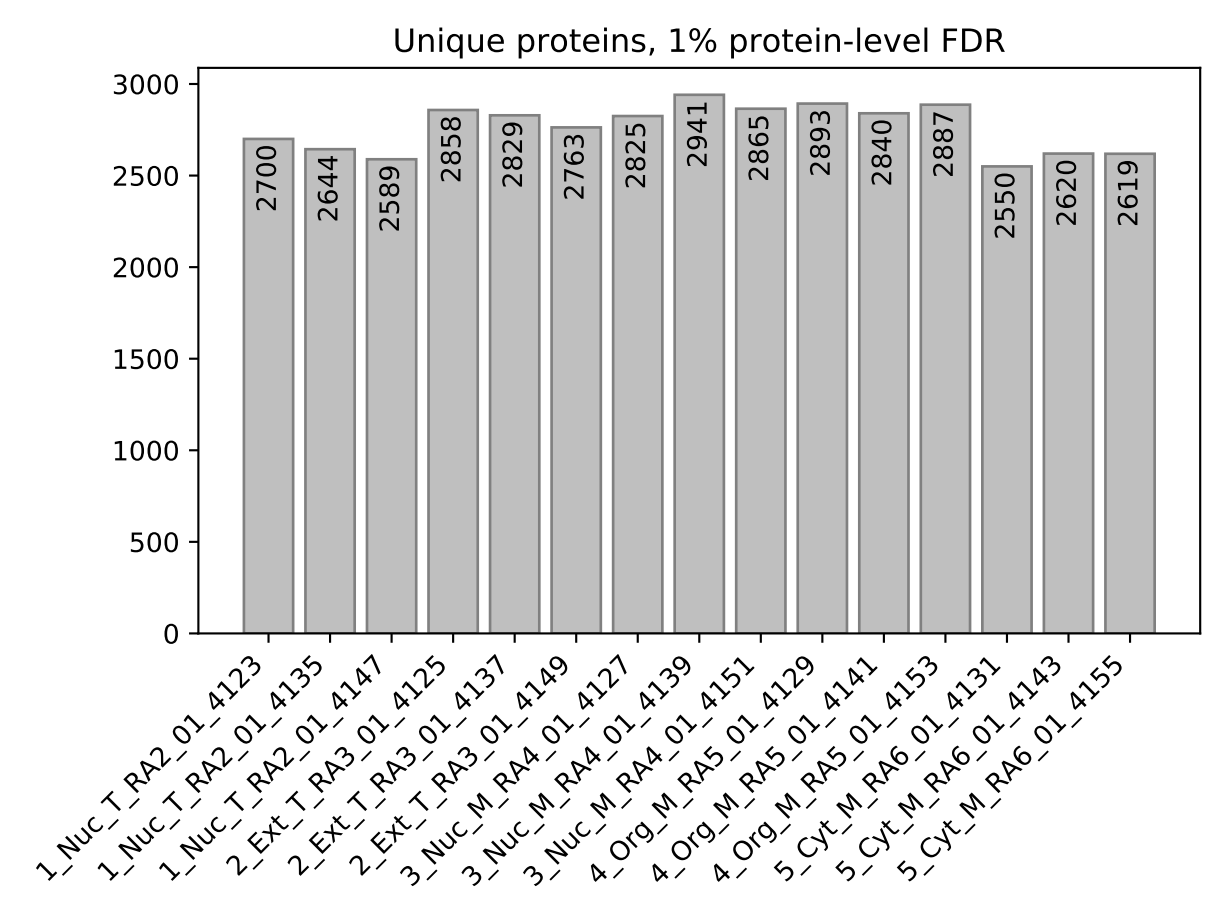

MS1 signal
1e11
1.2
1.0
0.8
0.6
0.4
0.2
0.0
1_Nuc_T_RA2_01_4123
1_Nuc_T_RA2_01_4135
1_Nuc_T_RA2_01_4147
2_Ext_T_RA3_01_4125
2_Ext_T_RA3_01_4137
2_Ext_T_RA3_01_4149
3_Nuc_M_RA4_01_4127
3_Nuc_M_RA4_01_4139
3_Nuc_M_RA4_01_4151
4_Org_M_RA5_01_4129
4_Org_M_RA5_01_4141
4_Org_M_RA5_01_4153
5_Cyt_M_RA6_01_4131
5_Cyt_M_RA6_01_4143
5_Cyt_M_RA6_01_4155

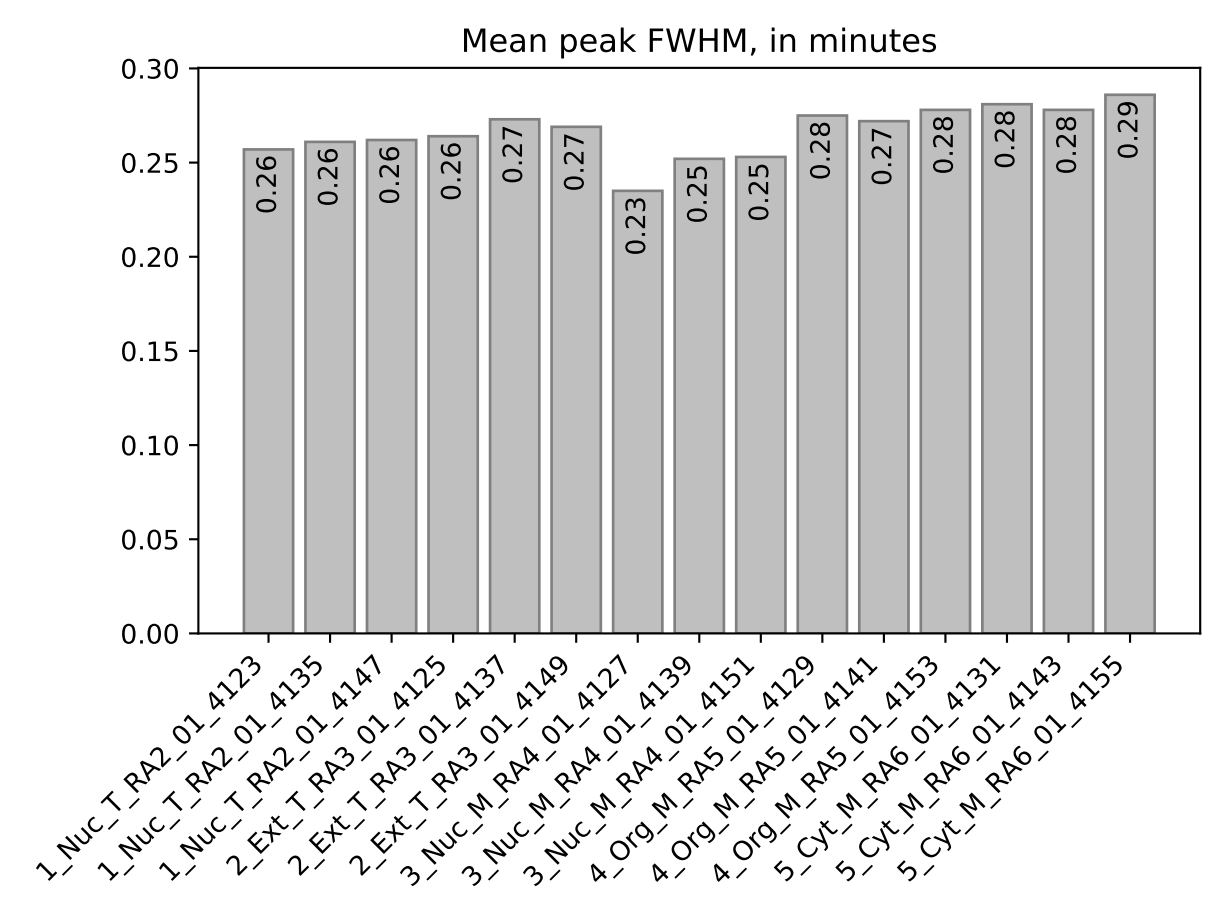

MS2 signal
1e10
0
1
2
3
4
1_Nuc_T_RA2_01_4123
1_Nuc_T_RA2_01_4135
1_Nuc_T_RA2_01_4147
2_Ext_T_RA3_01_4125
2_Ext_T_RA3_01_4137
2_Ext_T_RA3_01_4149
3_Nuc_M_RA4_01_4127
3_Nuc_M_RA4_01_4139
3_Nuc_M_RA4_01_4151
4_Org_M_RA5_01_4129
4_Org_M_RA5_01_4141
4_Org_M_RA5_01_4153
5_Cyt_M_RA6_01_4131
5_Cyt_M_RA6_01_4143
5_Cyt_M_RA6_01_4155

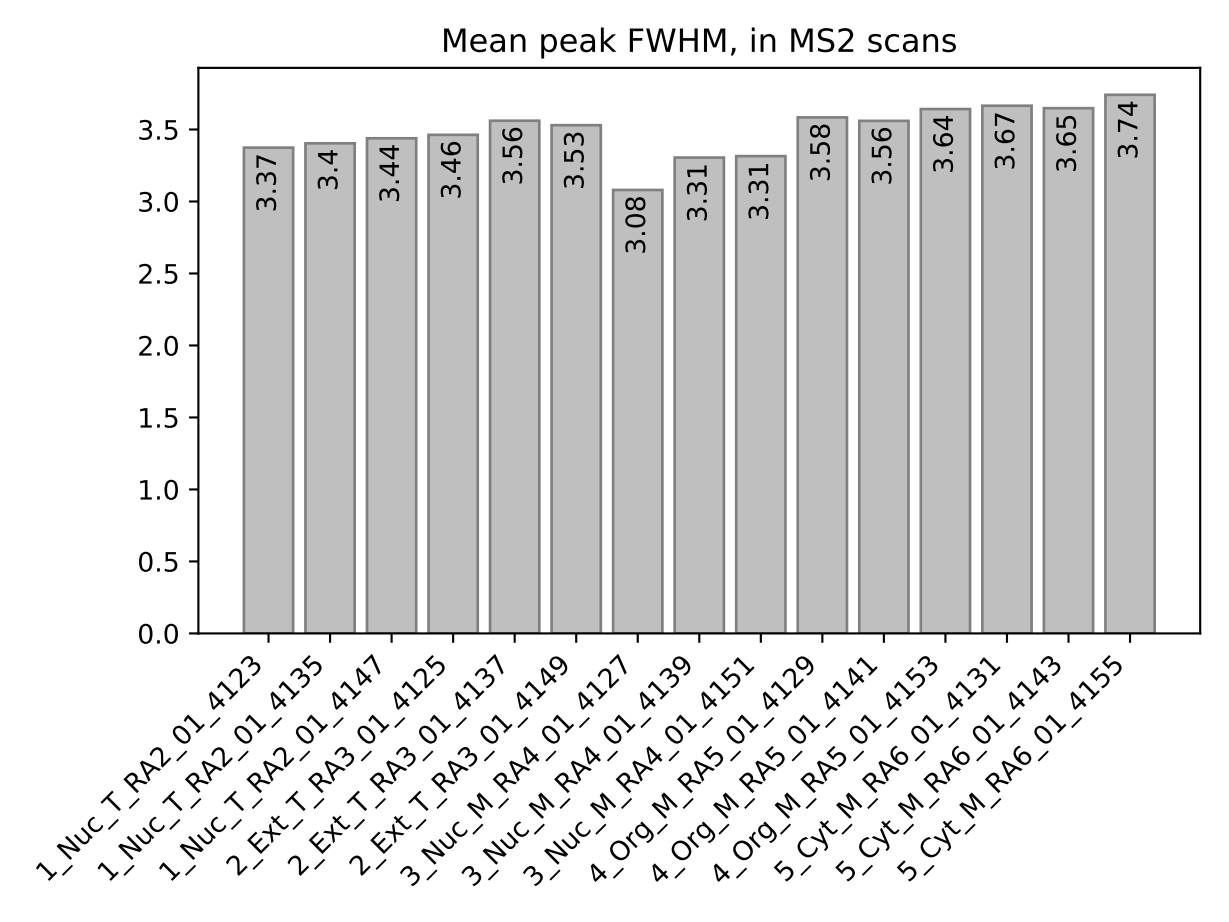

Total quantity/MS2 signal ratio
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
0.03
0.03
0.03
0.03
0.03
0.03
0.02
0.03
0.03
0.03
0.03
0.03
0.03
0.03
1_Nuc_T_RA2_01_4123
1_Nuc_T_RA2_01_4135
1_Nuc_T_RA2_01_4147
2_Ext_T_RA3_01_4125
2_Ext_T_RA3_01_4137
2_Ext_T_RA3_01_4149
3_Nuc_M_RA4_01_4127
3_Nuc_M_RA4_01_4139
3_Nuc_M_RA4_01_4151
4_Org_M_RA5_01_4129
4_Org_M_RA5_01_4141
4_Org_M_RA5_01_4153
5_Cyt_M_RA6_01_4131
5_Cyt_M_RA6_01_4143
5_Cyt_M_RA6_01_4155

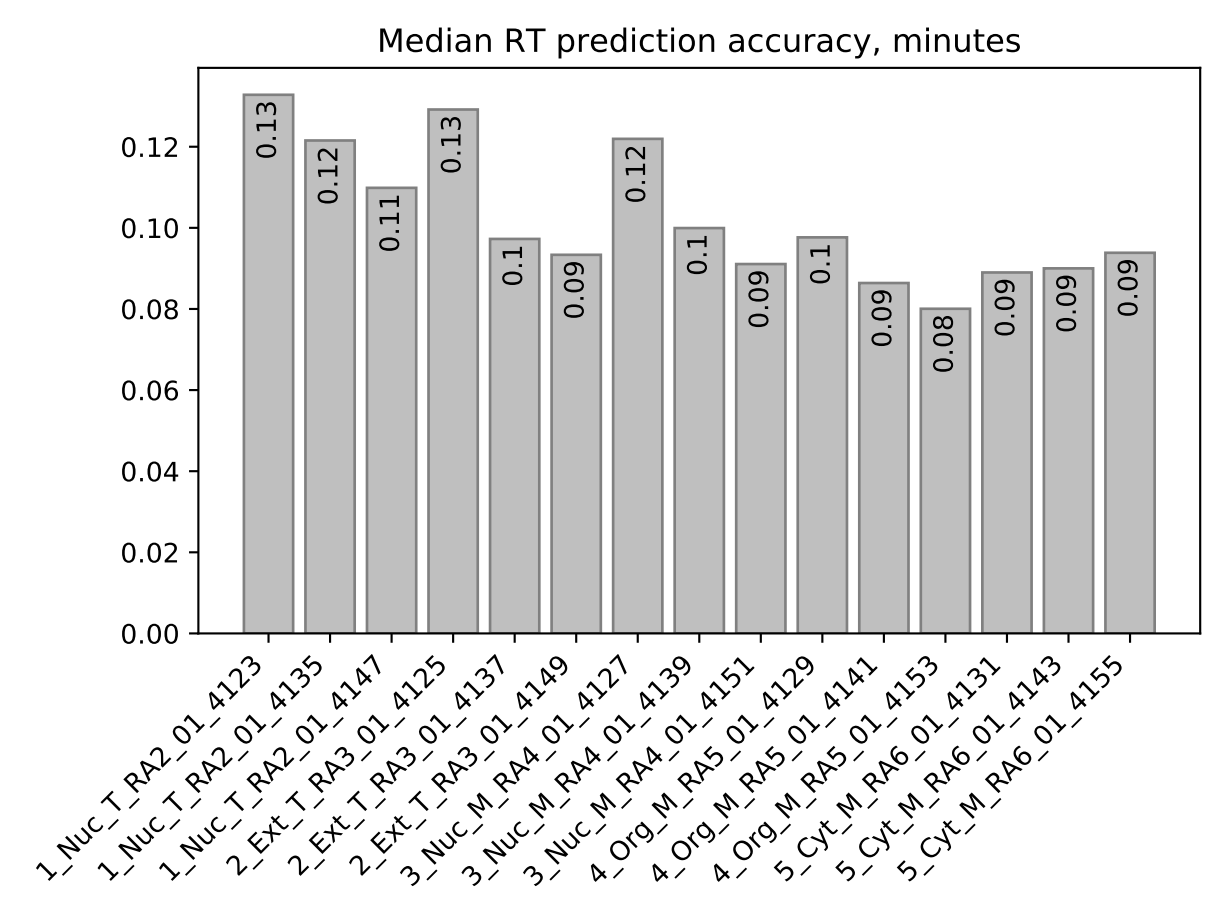

MS1/MS2 signal ratio
0.0
0.5
1.0
1.5
2.0
2.5
2.59
1.9
1.49
2.57
1.75
1.31
2.84
1.87
1.41
2.52
1.84
1.5
2.36
1.77
1.47
1_Nuc_T_RA2_01_4123
1_Nuc_T_RA2_01_4135
1_Nuc_T_RA2_01_4147
2_Ext_T_RA3_01_4125
2_Ext_T_RA3_01_4137
2_Ext_T_RA3_01_4149
3_Nuc_M_RA4_01_4127
3_Nuc_M_RA4_01_4139
3_Nuc_M_RA4_01_4151
4_Org_M_RA5_01_4129
4_Org_M_RA5_01_4141
4_Org_M_RA5_01_4153
5_Cyt_M_RA6_01_4131
5_Cyt_M_RA6_01_4143
5_Cyt_M_RA6_01_4155

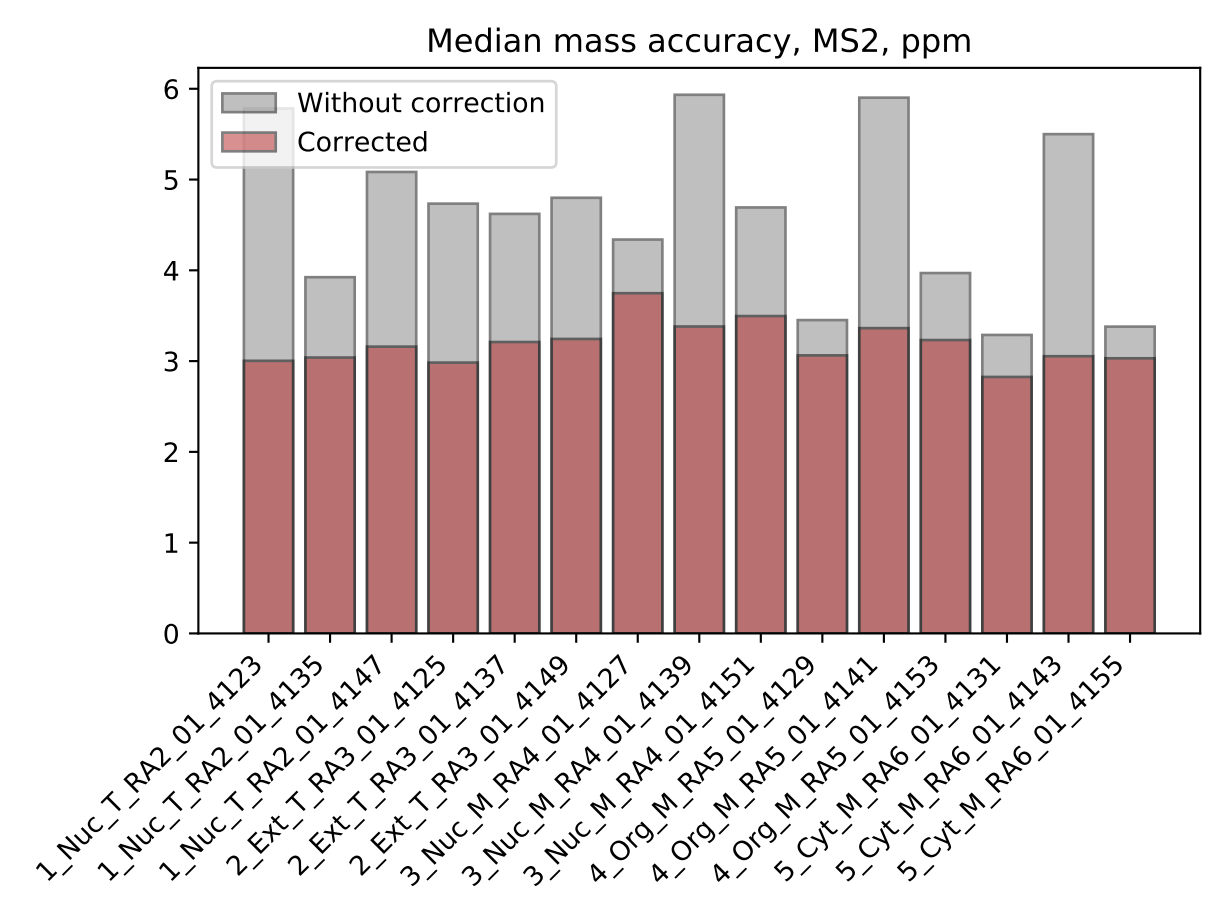

Precursors, 1% FDR
0
5000
10000
15000
20000
18838
18725
18438
20524
20052
19785
20244
21766
21069
21384
21355
20965
19451
19270
19056
1_Nuc_T_RA2_01_4123
1_Nuc_T_RA2_01_4135
1_Nuc_T_RA2_01_4147
2_Ext_T_RA3_01_4125
2_Ext_T_RA3_01_4137
2_Ext_T_RA3_01_4149
3_Nuc_M_RA4_01_4127
3_Nuc_M_RA4_01_4139
3_Nuc_M_RA4_01_4151
4_Org_M_RA5_01_4129
4_Org_M_RA5_01_4141
4_Org_M_RA5_01_4153
5_Cyt_M_RA6_01_4131
5_Cyt_M_RA6_01_4143
5_Cyt_M_RA6_01_4155

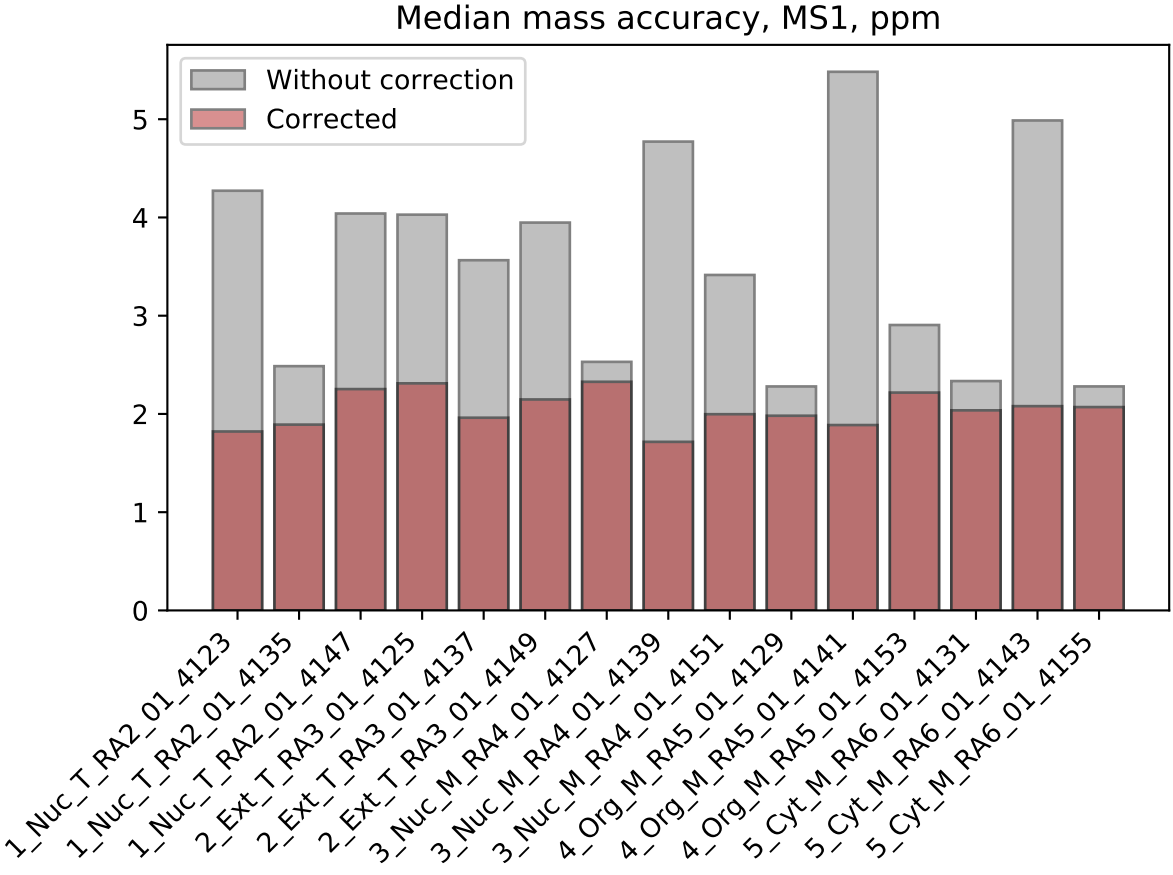

Unique proteins, 1% protein-level FDR
3000
2500
2000
1500
1000
500
0
2700
2644
2589
2858
2829
2763
2825
2941
2865
2893
2840
2887
2550
2620
2619
1_Nuc_T_RA2_01_4123
1_Nuc_T_RA2_01_4135
1_Nuc_T_RA2_01_4147
2_Ext_T_RA3_01_4125
2_Ext_T_RA3_01_4137
2_Ext_T_RA3_01_4149
3_Nuc_M_RA4_01_4127
3_Nuc_M_RA4_01_4139
3_Nuc_M_RA4_01_4151
4_Org_M_RA5_01_4129
4_Org_M_RA5_01_4141
4_Org_M_RA5_01_4153
5_Cyt_M_RA6_01_4131
5_Cyt_M_RA6_01_4143
5_Cyt_M_RA6_01_4155

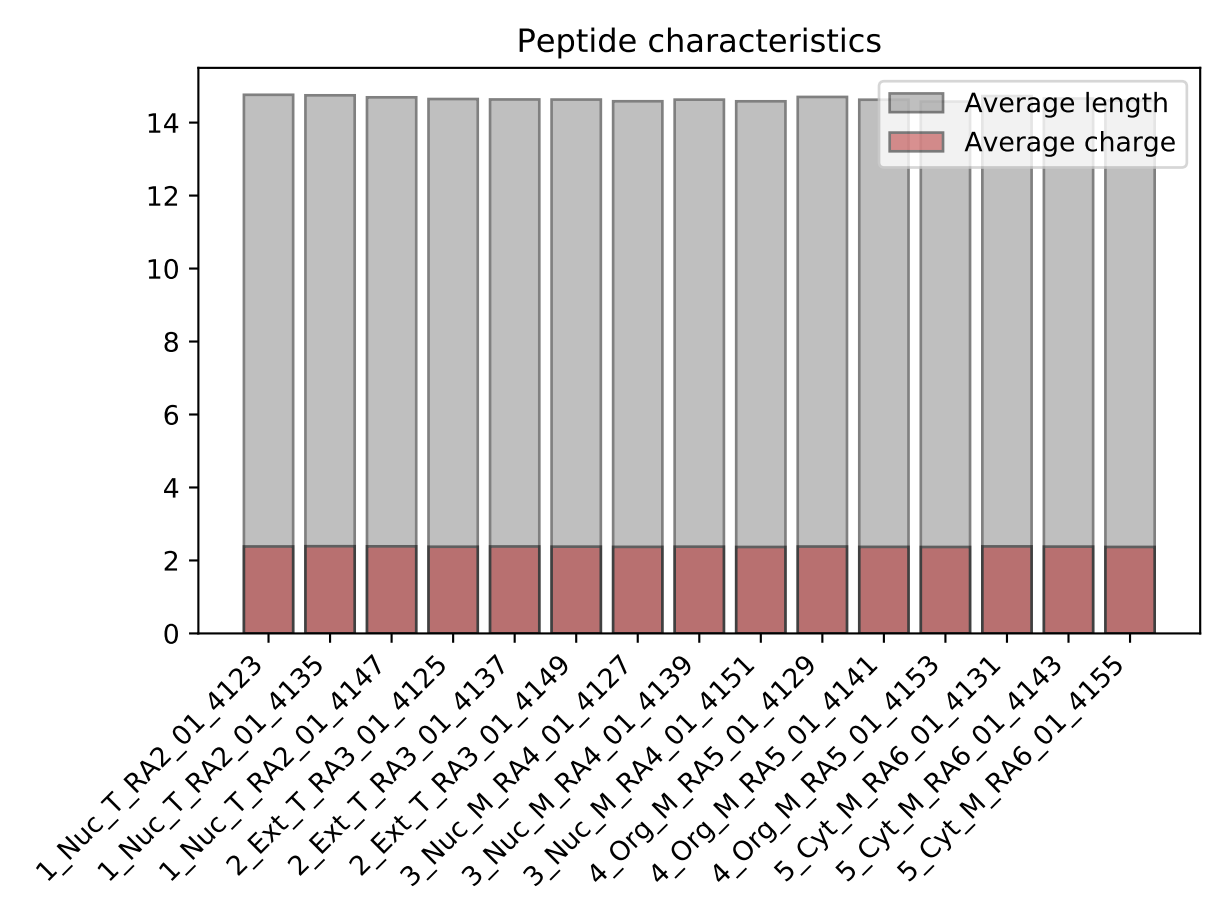

Mean peak FWHM, in minutes
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0.26
0.26
0.26
0.26
0.27
0.27
0.23
0.25
0.25
0.28
0.27
0.28
0.28
0.28
0.29
1_Nuc_T_RA2_01_4123
1_Nuc_T_RA2_01_4135
1_Nuc_T_RA2_01_4147
2_Ext_T_RA3_01_4125
2_Ext_T_RA3_01_4137
2_Ext_T_RA3_01_4149
3_Nuc_M_RA4_01_4127
3_Nuc_M_RA4_01_4139
3_Nuc_M_RA4_01_4151
4_Org_M_RA5_01_4129
4_Org_M_RA5_01_4141
4_Org_M_RA5_01_4153
5_Cyt_M_RA6_01_4131
5_Cyt_M_RA6_01_4143
5_Cyt_M_RA6_01_4155

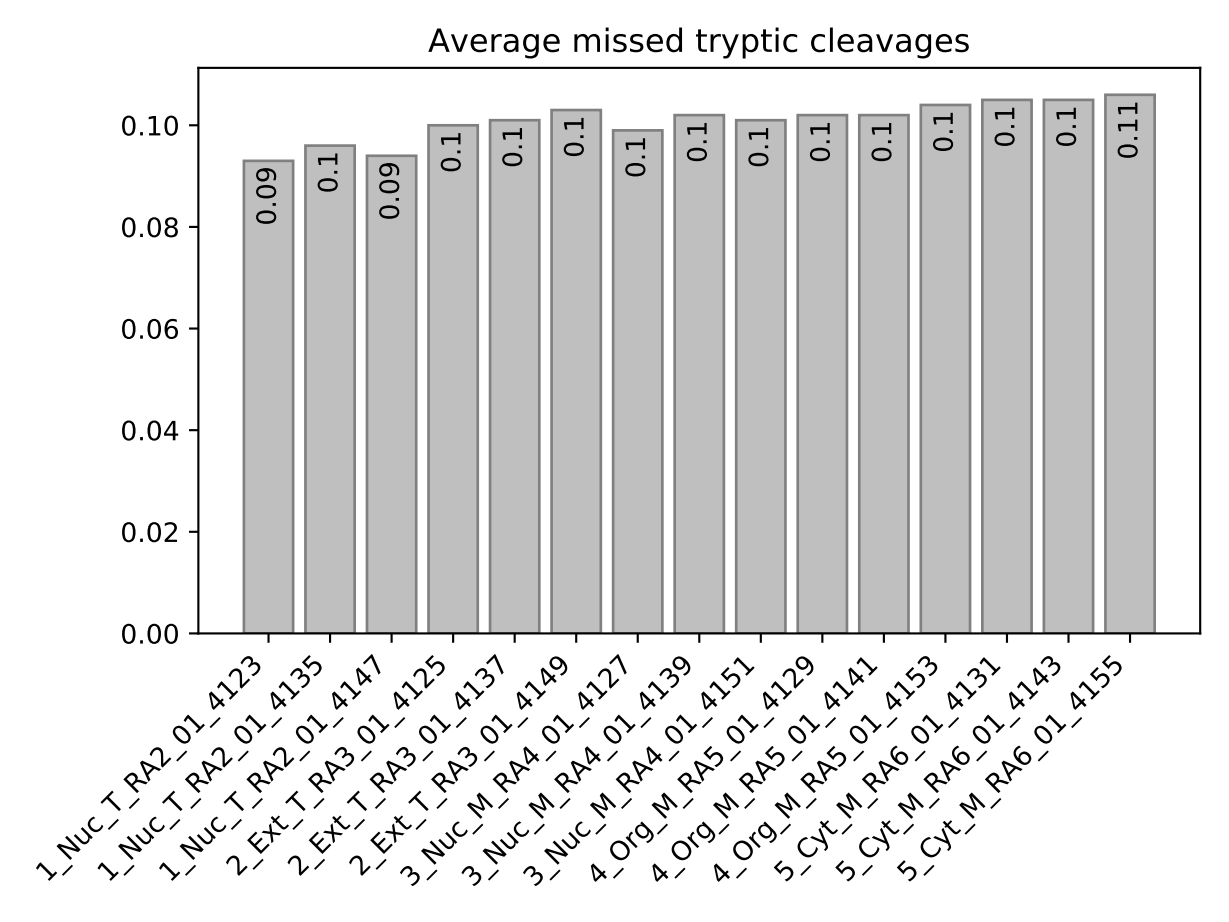

Mean peak FWHM, in MS2 scans
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
3.37
3.4
3.44
3.46
3.56
3.53
3.08
3.31
3.31
3.58
3.56
3.64
3.67
3.65
3.74
1_Nuc_T_RA2_01_4123
1_Nuc_T_RA2_01_4135
1_Nuc_T_RA2_01_4147
2_Ext_T_RA3_01_4125
2_Ext_T_RA3_01_4137
2_Ext_T_RA3_01_4149
3_Nuc_M_RA4_01_4127
3_Nuc_M_RA4_01_4139
3_Nuc_M_RA4_01_4151
4_Org_M_RA5_01_4129
4_Org_M_RA5_01_4141
4_Org_M_RA5_01_4153
5_Cyt_M_RA6_01_4131
5_Cyt_M_RA6_01_4143
5_Cyt_M_RA6_01_4155

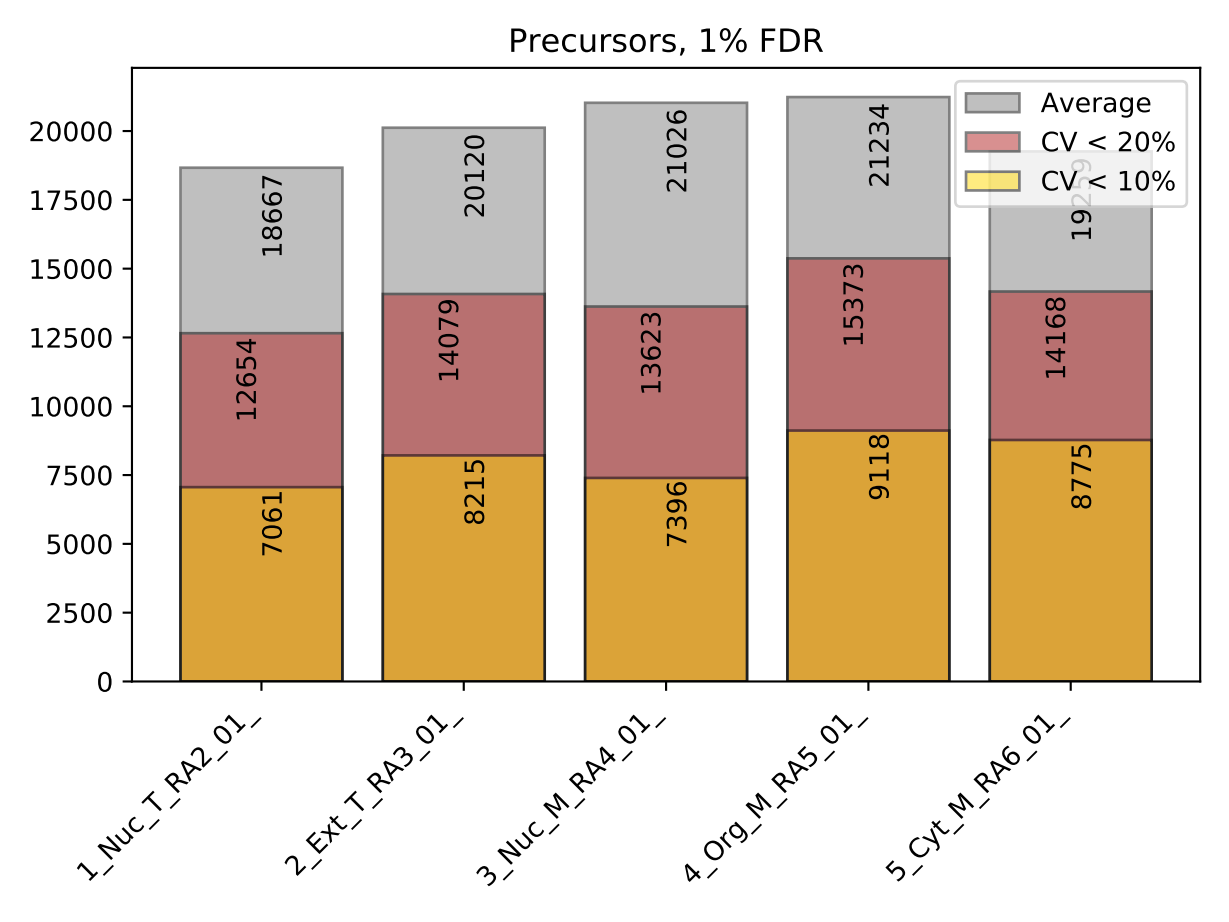

Median RT prediction accuracy, minutes
0.00
0.02
0.04
0.06
0.08
0.10
0.12
0.13
0.12
0.11
0.13
0.1
0.09
0.12
0.1
0.09
0.1
0.09
0.08
0.09
0.09
0.09
1_Nuc_T_RA2_01_4123
1_Nuc_T_RA2_01_4135
1_Nuc_T_RA2_01_4147
2_Ext_T_RA3_01_4125
2_Ext_T_RA3_01_4137
2_Ext_T_RA3_01_4149
3_Nuc_M_RA4_01_4127
3_Nuc_M_RA4_01_4139
3_Nuc_M_RA4_01_4151
4_Org_M_RA5_01_4129
4_Org_M_RA5_01_4141
4_Org_M_RA5_01_4153
5_Cyt_M_RA6_01_4131
5_Cyt_M_RA6_01_4143
5_Cyt_M_RA6_01_4155

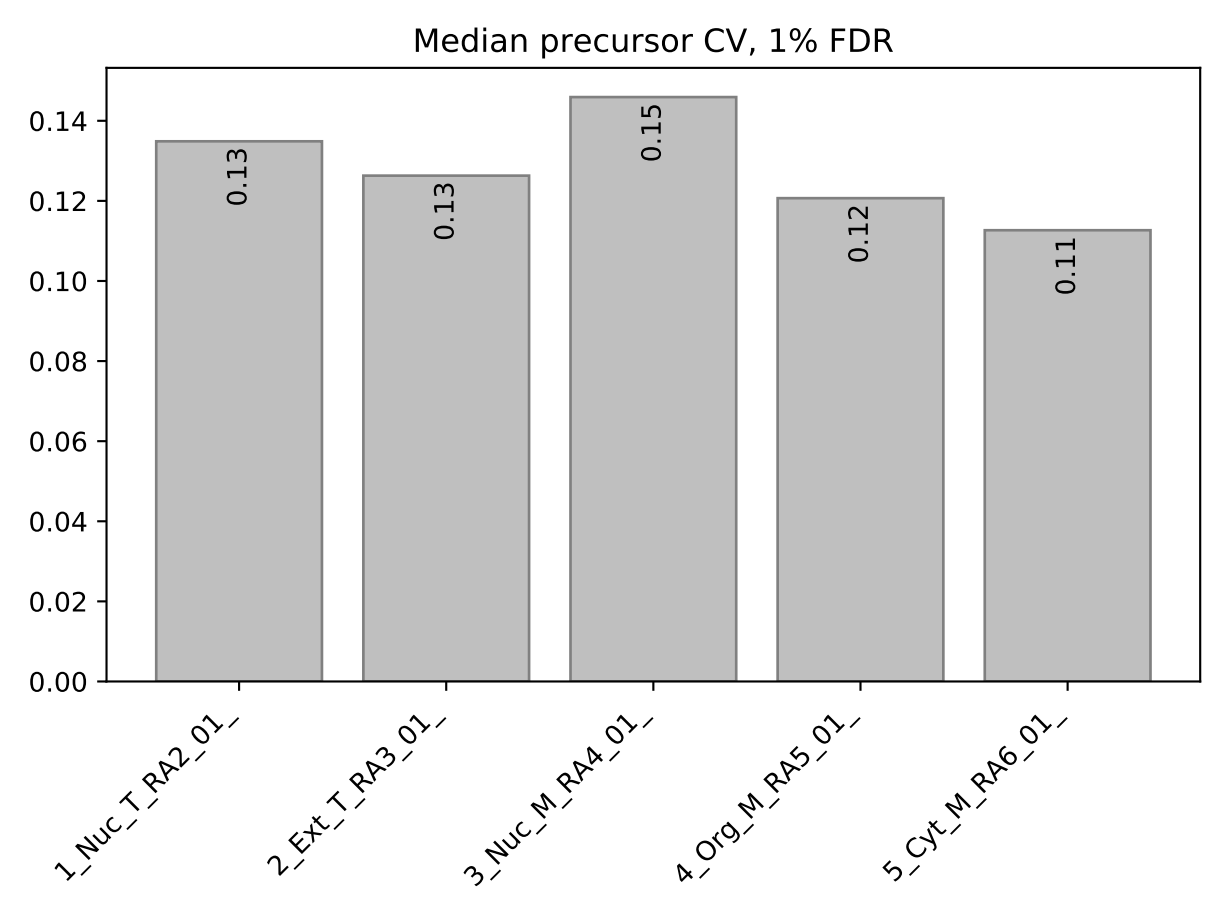

Median mass accuracy, MS2, ppm
Without correction
Corrected
0
1
2
3
4
5
6
1_Nuc_T_RA2_01_4123
1_Nuc_T_RA2_01_4135
1_Nuc_T_RA2_01_4147
2_Ext_T_RA3_01_4125
2_Ext_T_RA3_01_4137
2_Ext_T_RA3_01_4149
3_Nuc_M_RA4_01_4127
3_Nuc_M_RA4_01_4139
3_Nuc_M_RA4_01_4151
4_Org_M_RA5_01_4129
4_Org_M_RA5_01_4141
4_Org_M_RA5_01_4153
5_Cyt_M_RA6_01_4131
5_Cyt_M_RA6_01_4143
5_Cyt_M_RA6_01_4155

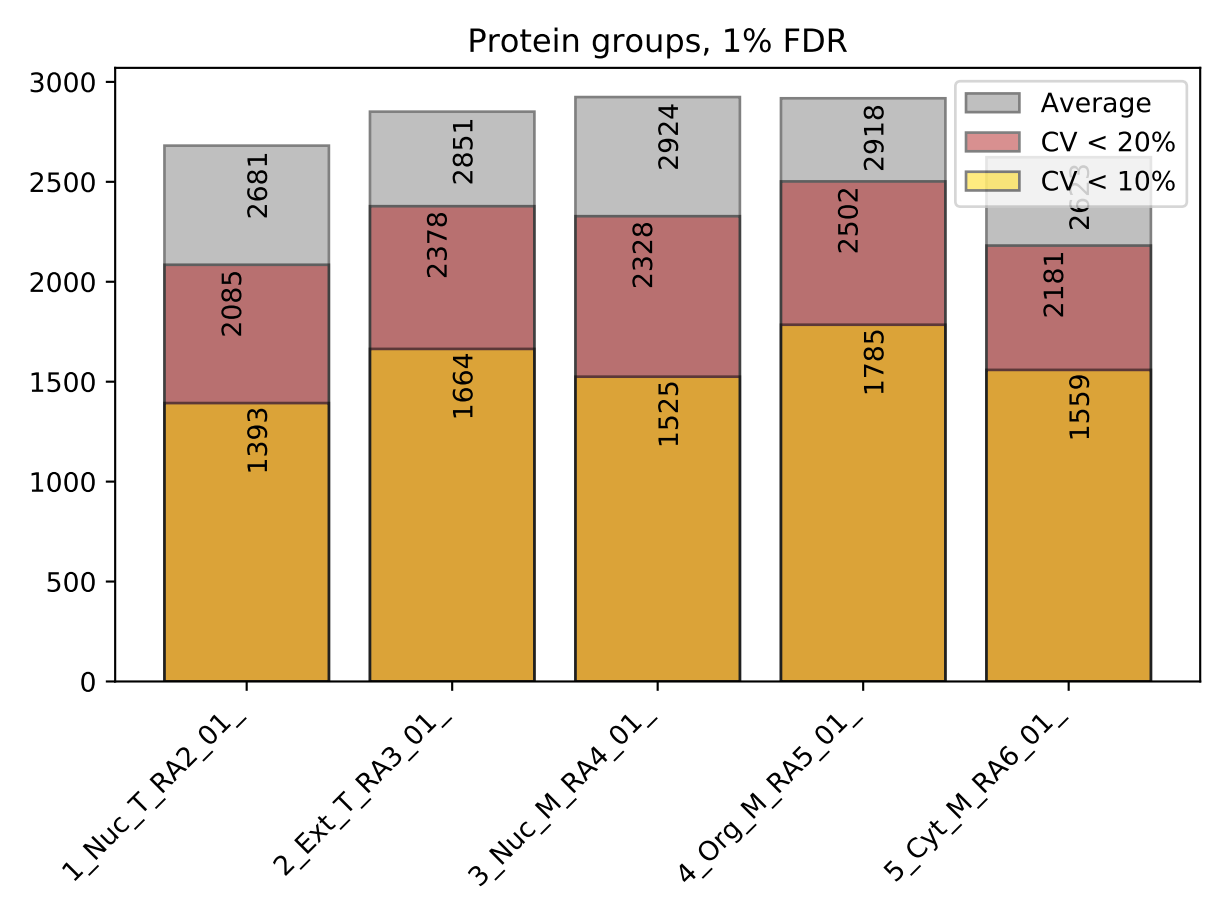

Median mass accuracy, MS1, ppm
Without correction
Corrected
0
1
2
3
4
5
1_Nuc_T_RA2_01_4123
1_Nuc_T_RA2_01_4135
1_Nuc_T_RA2_01_4147
2_Ext_T_RA3_01_4125
2_Ext_T_RA3_01_4137
2_Ext_T_RA3_01_4149
3_Nuc_M_RA4_01_4127
3_Nuc_M_RA4_01_4139
3_Nuc_M_RA4_01_4151
4_Org_M_RA5_01_4129
4_Org_M_RA5_01_4141
4_Org_M_RA5_01_4153
5_Cyt_M_RA6_01_4131
5_Cyt_M_RA6_01_4143
5_Cyt_M_RA6_01_4155

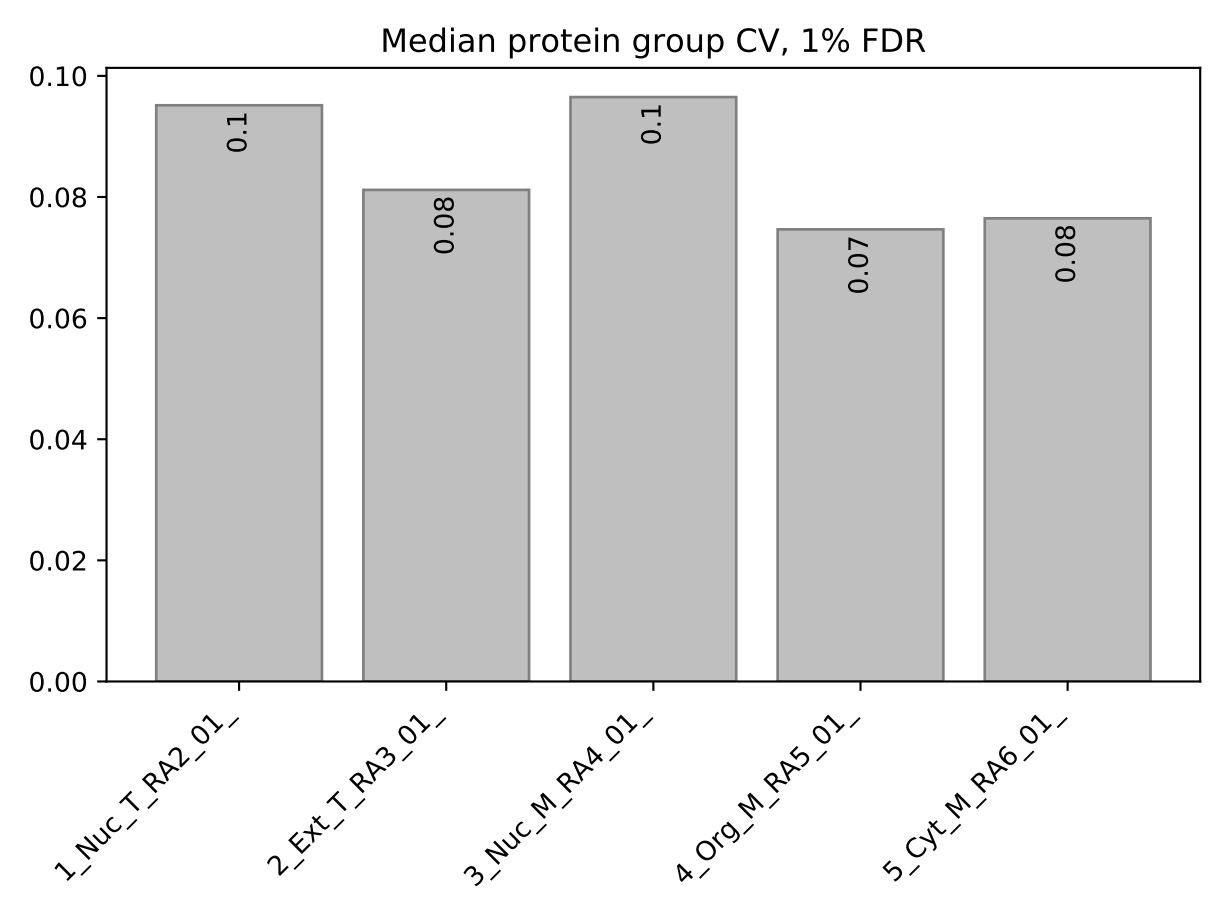

Peptide characteristics
Average length
Average charge
0
2
4
6
8
10
12
14
1_Nuc_T_RA2_01_4123
1_Nuc_T_RA2_01_4135
1_Nuc_T_RA2_01_4147
2_Ext_T_RA3_01_4125
2_Ext_T_RA3_01_4137
2_Ext_T_RA3_01_4149
3_Nuc_M_RA4_01_4127
3_Nuc_M_RA4_01_4139
3_Nuc_M_RA4_01_4151
4_Org_M_RA5_01_4129
4_Org_M_RA5_01_4141
4_Org_M_RA5_01_4153
5_Cyt_M_RA6_01_4131
5_Cyt_M_RA6_01_4143
5_Cyt_M_RA6_01_4155

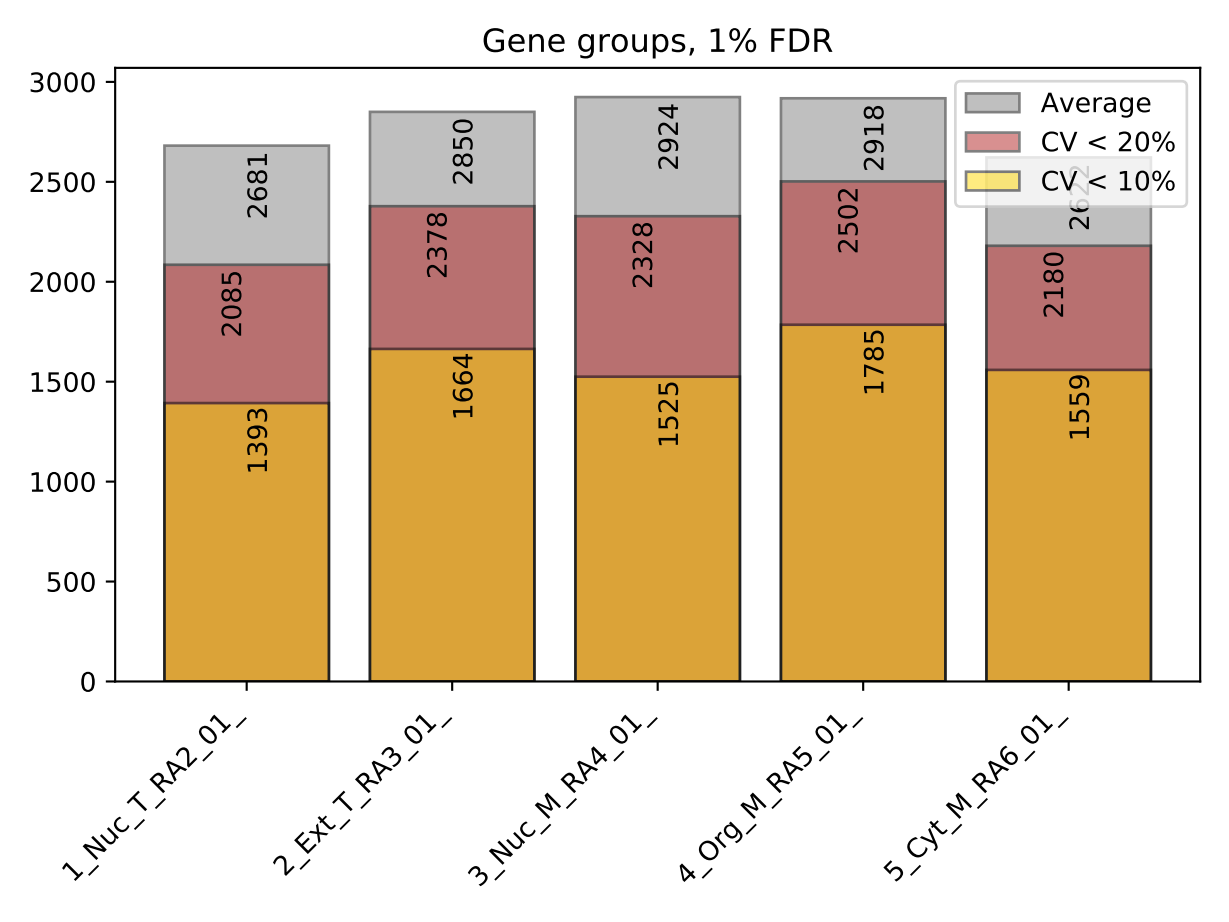

Average missed tryptic cleavages
0.00
0.02
0.04
0.06
0.08
0.10
0.09
0.1
0.09
0.1
0.1
0.1
0.1
0.1
0.1
0.1
0.1
0.1
0.1
0.11
1_Nuc_T_RA2_01_4123
1_Nuc_T_RA2_01_4135
1_Nuc_T_RA2_01_4147
2_Ext_T_RA3_01_4125
2_Ext_T_RA3_01_4137
2_Ext_T_RA3_01_4149
3_Nuc_M_RA4_01_4127
3_Nuc_M_RA4_01_4139
3_Nuc_M_RA4_01_4151
4_Org_M_RA5_01_4129
4_Org_M_RA5_01_4141
4_Org_M_RA5_01_4153
5_Cyt_M_RA6_01_4131
5_Cyt_M_RA6_01_4143
5_Cyt_M_RA6_01_4155

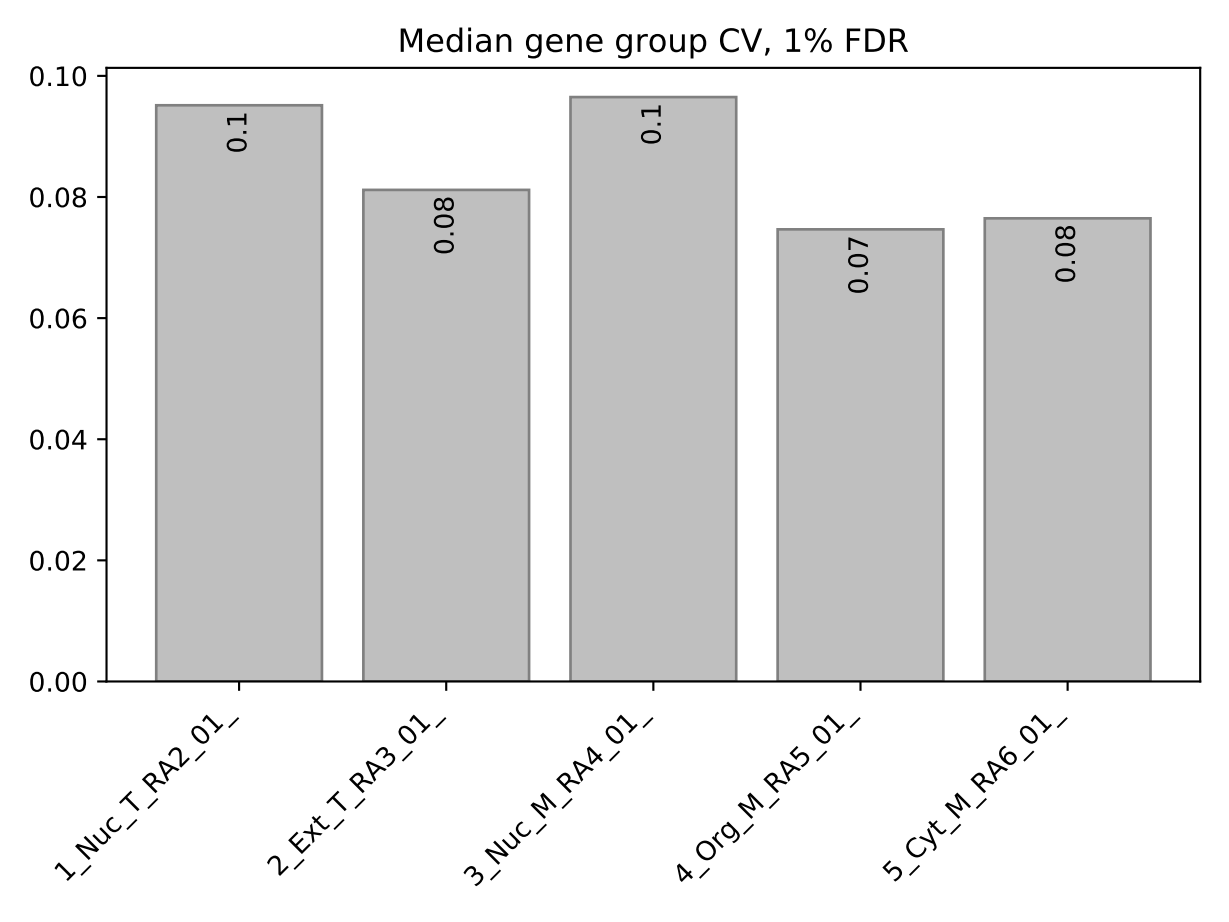

Precursors, 1% FDR
Average
CV < 20%
CV < 10%
20000
17500
15000
12500
10000
7500
5000
2500
0
18667
12654
7061
20120
14079
8215
21026
13623
7396
21234
15373
9118
14168
8775
1_Nuc_T_RA2_01_
2_Ext_T_RA3_01_
3_Nuc_M_RA4_01_
4_Org_M_RA5_01_
5_Cyt_M_RA6_01_


Median precursor CV, 1% FDR
0.14
0.12
0.10
0.08
0.06
0.04
0.02
0.00
0.13
0.13
0.15
0.12
0.11
1_Nuc_T_RA2_01_
2_Ext_T_RA3_01_
3_Nuc_M_RA4_01_
4_Org_M_RA5_01_
5_Cyt_M_RA6_01_


Protein groups, 1% FDR
Average
CV < 20%
CV < 10%
3000
2500
2000
1500
1000
500
0
2681
2085
1393
2851
2378
1664
2924
2328
1525
2918
2502
1785
2181
1559
1_Nuc_T_RA2_01_
2_Ext_T_RA3_01_
3_Nuc_M_RA4_01_
4_Org_M_RA5_01_
5_Cyt_M_RA6_01_


Median protein group CV, 1% FDR
0.10
0.08
0.06
0.04
0.02
0.00
0.1
0.08
0.1
0.07
0.08
1_Nuc_T_RA2_01_
2_Ext_T_RA3_01_
3_Nuc_M_RA4_01_
4_Org_M_RA5_01_
5_Cyt_M_RA6_01_


Gene groups, 1% FDR
Average
CV < 20%
CV < 10%
3000
2500
2000
1500
1000
500
0
2681
2085
1393
2850
2378
1664
2924
2328
1525
2918
2502
1785
2180
1559
1_Nuc_T_RA2_01_
2_Ext_T_RA3_01_
3_Nuc_M_RA4_01_
4_Org_M_RA5_01_
5_Cyt_M_RA6_01_


Median gene group CV, 1% FDR
0.10
0.08
0.06
0.04
0.02
0.00
0.1
0.08
0.1
0.07
0.08
1_Nuc_T_RA2_01_
2_Ext_T_RA3_01_
3_Nuc_M_RA4_01_
4_Org_M_RA5_01_
5_Cyt_M_RA6_01_