Igor test run BSA

14 January, 2021

Contents

1 BSA

1.1 Number of detected peptides

Table 1: Number of BSA detected peptides in each sample. In 5fmol more peptides were detected in 100s-sensitive method. All methods have approximately equal number of detected BSA peptides in $5000 - 50$ fmol concentrations.

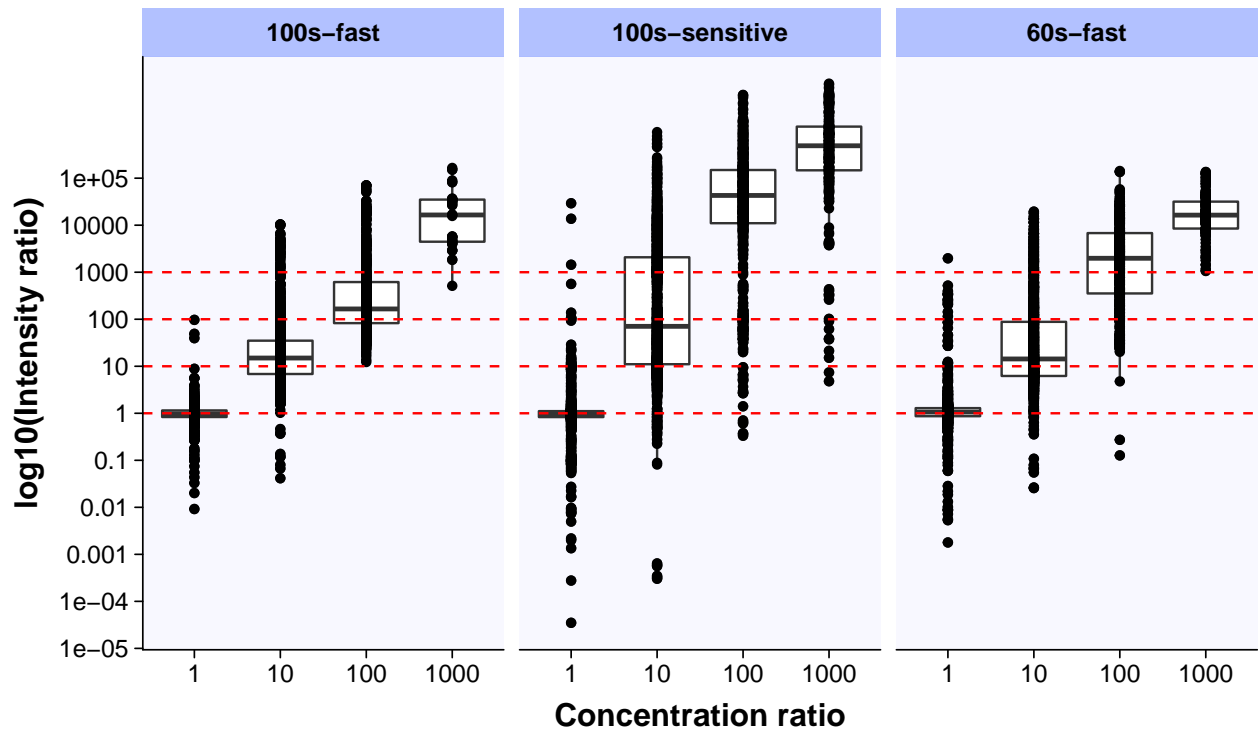| run_parameter	concentration	sample	n_peptides
100s-fast	5000fmol	1	117
100s-fast	5000fmol	2	118
100s-fast	5000fmol	3	119
100s-fast	500fmol	1	113
100s-fast	500fmol	2	114
100s-fast	500fmol	3	112
100s-fast	50fmol	1	71
100s-fast	50fmol	2	69
100s-fast	50fmol	3	77
100s-fast	5fmol	1	3
100s-fast	5fmol	2	5
100s-fast	5fmol	3	5
100s-sensitive	5000fmol	1	119
100s-sensitive	5000fmol	2	119
100s-sensitive	5000fmol	3	118
100s-sensitive	500fmol	1	109
100s-sensitive	500fmol	2	113
100s-sensitive	500fmol	3	116
100s-sensitive	50fmol	1	63
100s-sensitive	50fmol	2	70
100s-sensitive	50fmol	3	70
100s-sensitive	5fmol	1	31
100s-sensitive	5fmol	2	31
100s-sensitive	5fmol	3	33
60s-fast	5000fmol	1	120
60s-fast	5000fmol	2	118
60s-fast	5000fmol	3	118
60s-fast	500fmol	1	114
60s-fast	500fmol	2	112
60s-fast	500fmol	3	108
60s-fast	50fmol	1	53
60s-fast	50fmol	2	40
60s-fast	50fmol	3	50
60s-fast	5fmol	1	14
60s-fast	5fmol	2	12
60s-fast	5fmol	3	16

1.2 Intensity ratio

Figure 1: Intensity ratio between BSA peptides detected with each method. 100-s sensitive method has the least accurate intencity ratios.
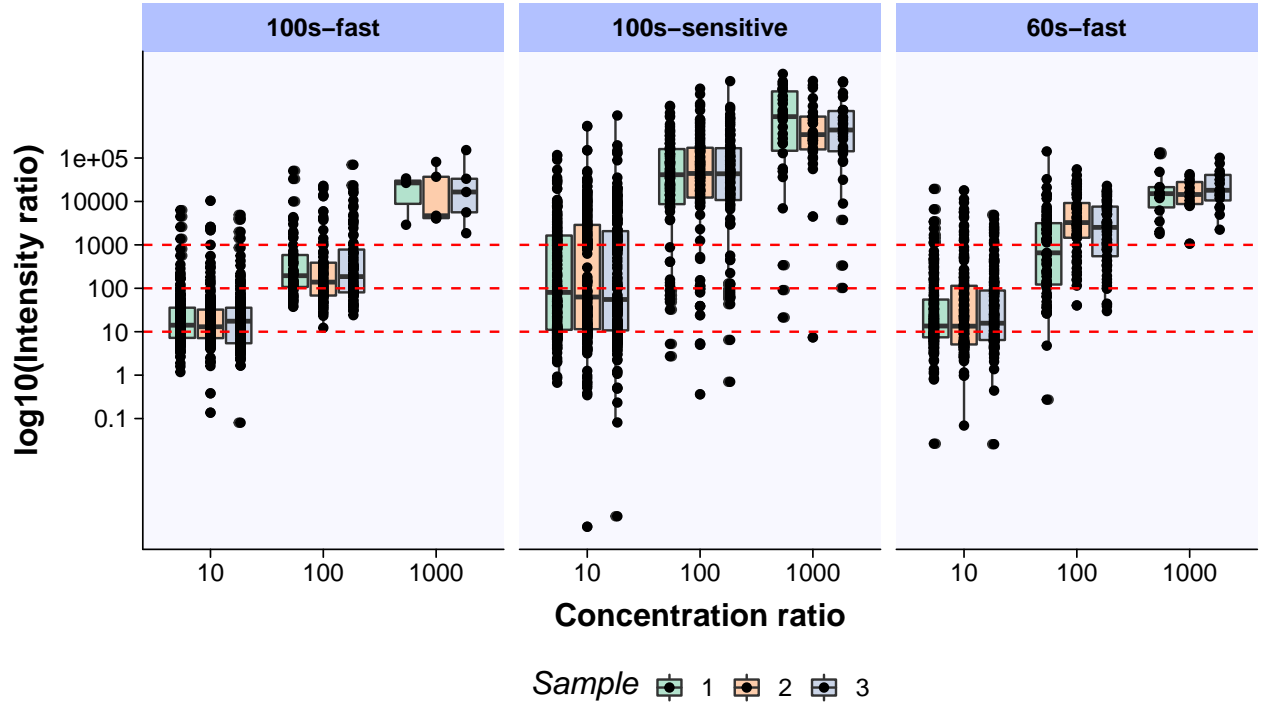
Figure 2: (Supplementary) Intensity ratio between BSA peptides detected with each method within one sample.

2 BSA + HeLa

2.1 Number of detected peptides

Table 2: Number of BSA peptides detected in each sample.

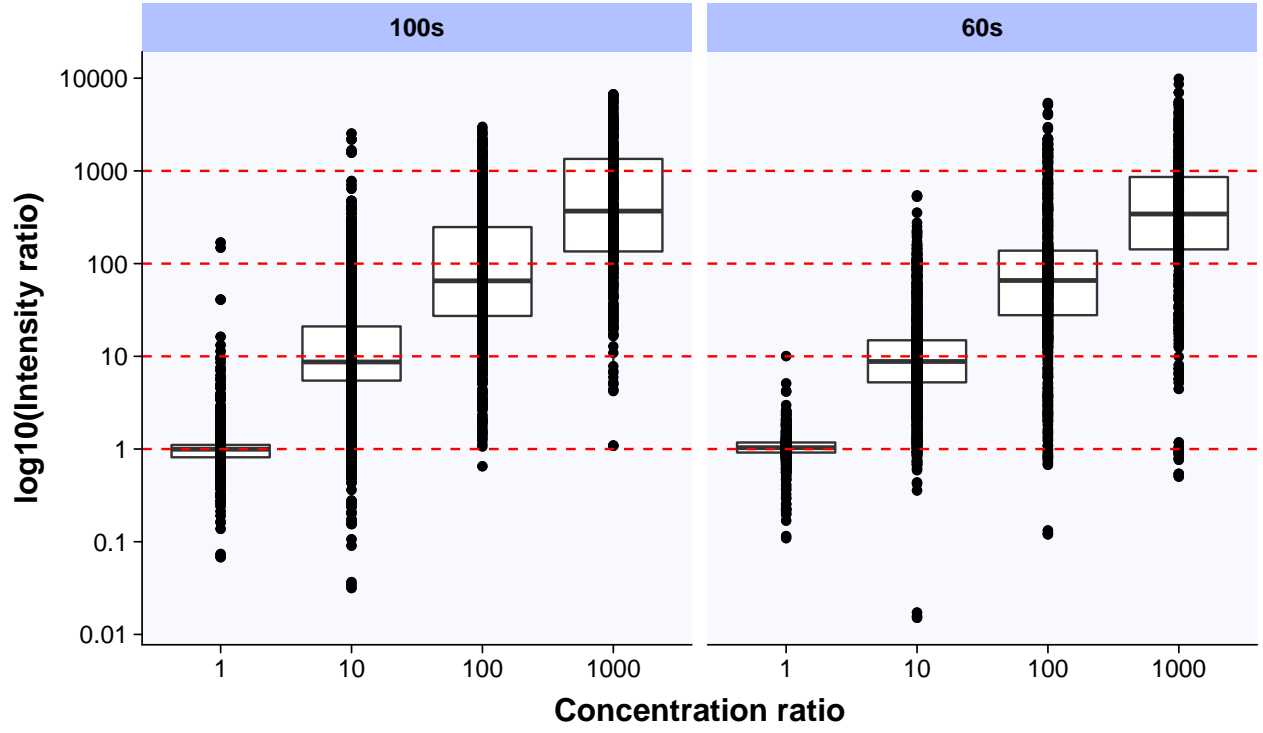| run_parameter	concentration	sample	n_peptides
100s	5000fmol	1	115
100s	5000fmol	2	115
100s	5000fmol	3	114
100s	500fmol	1	99
100s	500fmol	2	99
100s	500fmol	3	103
100s	50fmol	1	65
100s	50fmol	2	65
100s	50fmol	3	70
100s	5fmol	1	58
100s	5fmol	2	46
100s	5fmol	3	53
60s	5000fmol	1	120
60s	5000fmol	2	121
60s	5000fmol	3	119
60s	500fmol	1	112
60s	500fmol	2	108
60s	500fmol	3	109
60s	50fmol	1	79
60s	50fmol	2	77
60s	50fmol	3	76
60s	5fmol	1	60
60s	5fmol	2	60
60s	5fmol	3	57

2.2 Intensity ratio

Figure 3: Intensity ratio between BSA peptides detected with each method. Intensity ratio in BSA+HeLa experiments are less biased than in BSA only experiments.
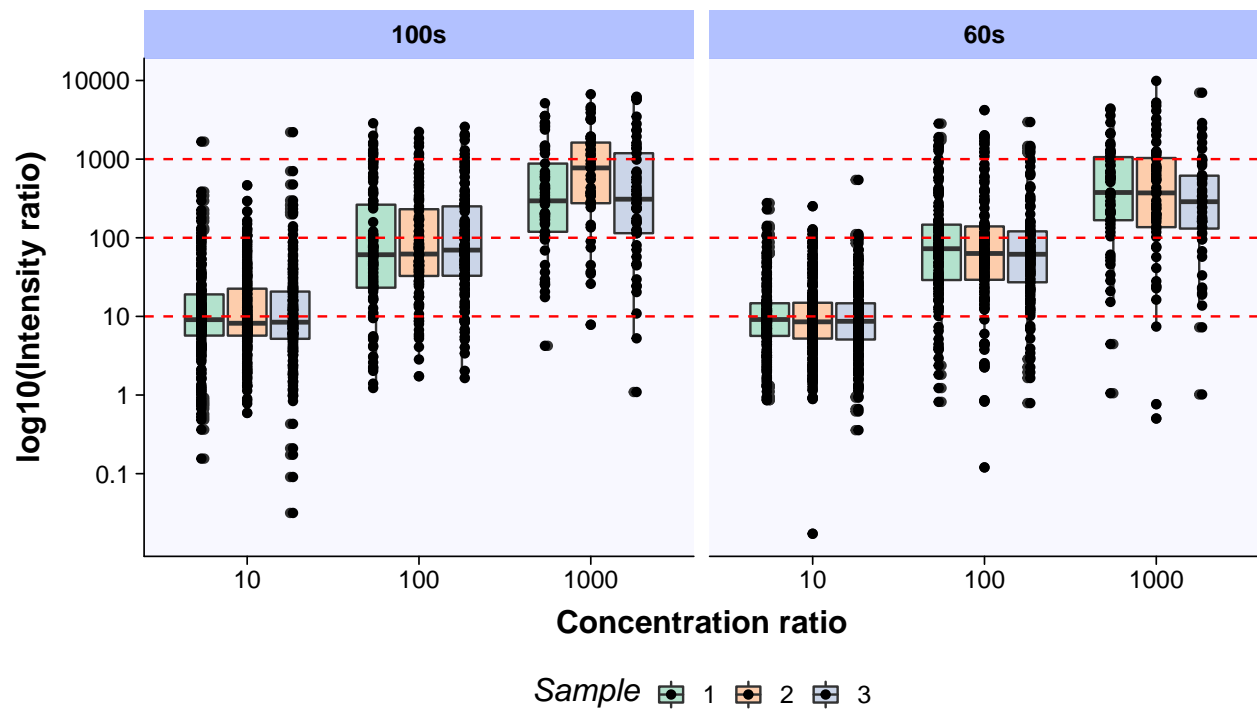
Figure 4: (Supplementary) Intensity ratio between BSA peptides detected with each method within one sample.