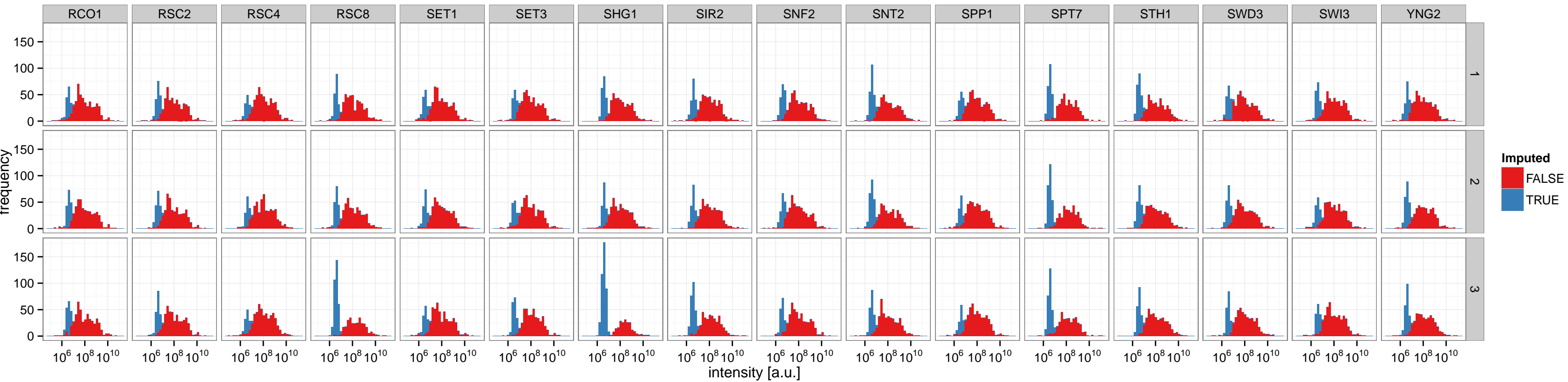
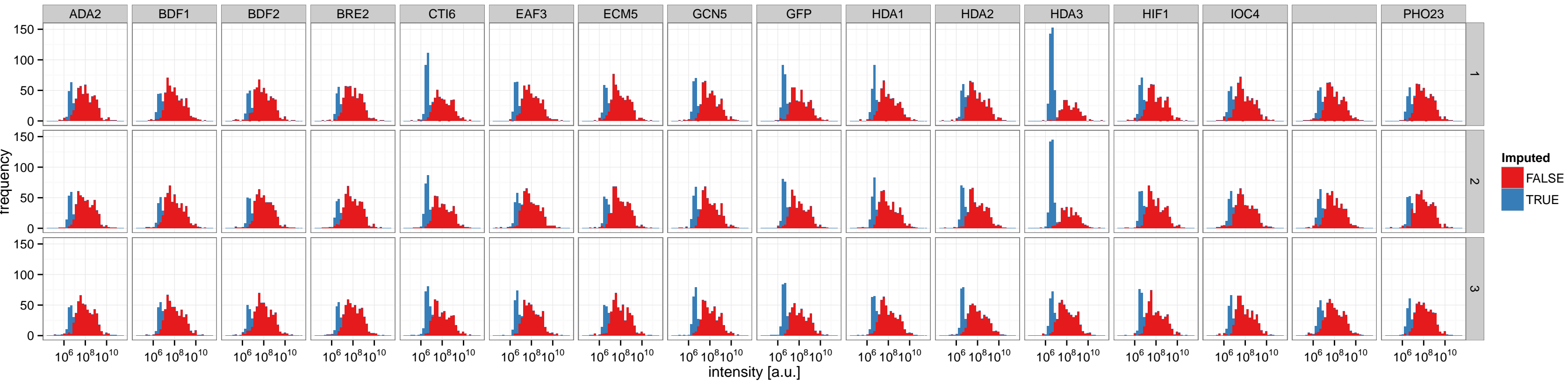


Ultra-high Throughput LC-MS/MS Protein Interaction Analysis – Processing 96 Pull-downs in a Single Day

Experiment: 14 minutes

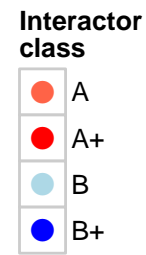
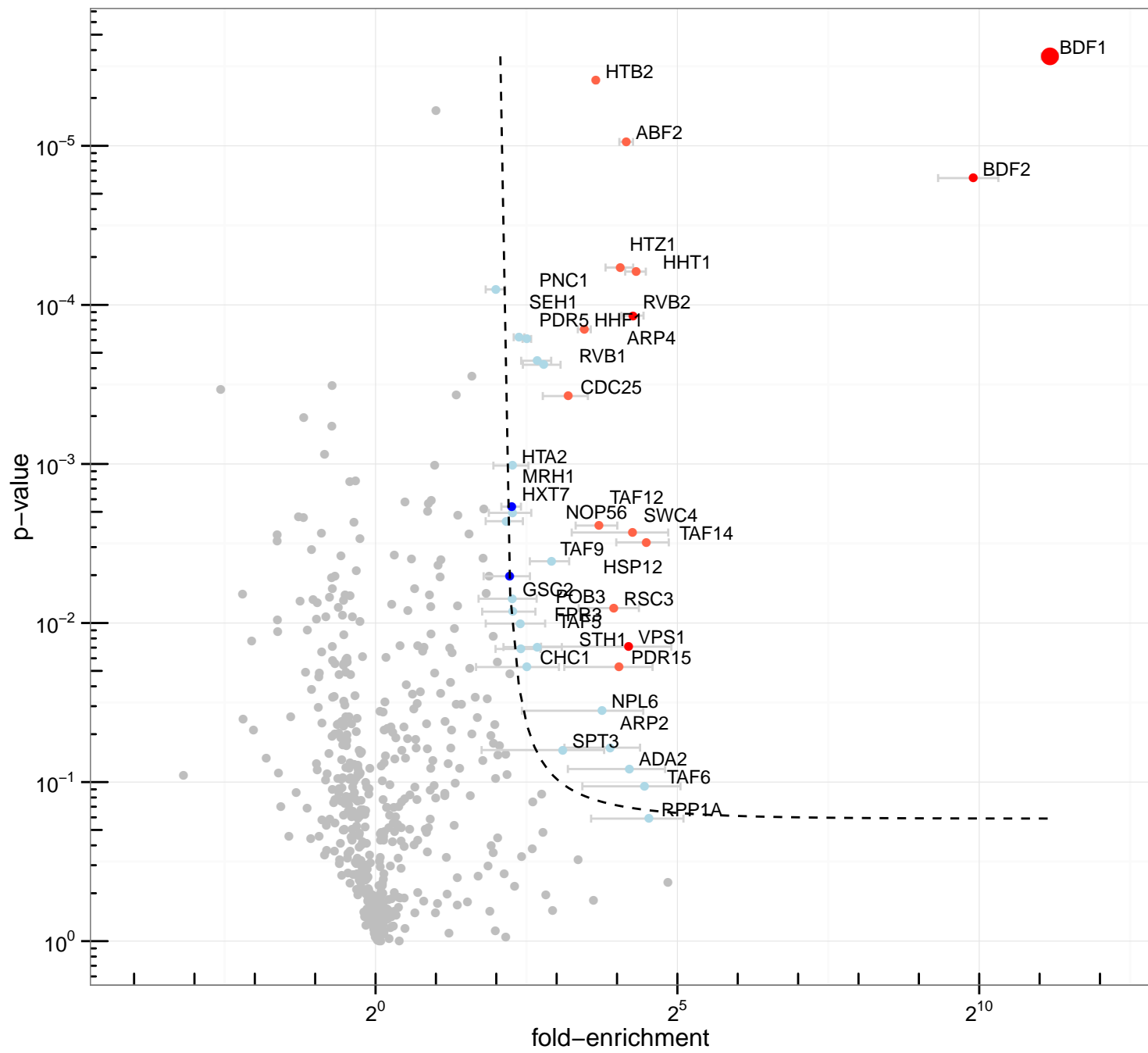
F. Hosp*, R.A. Scheltema*, H.C. Eberl*, N.A. Kulak*, E.C. Keilhauer, K. Mayr and M. Mann

Missing values

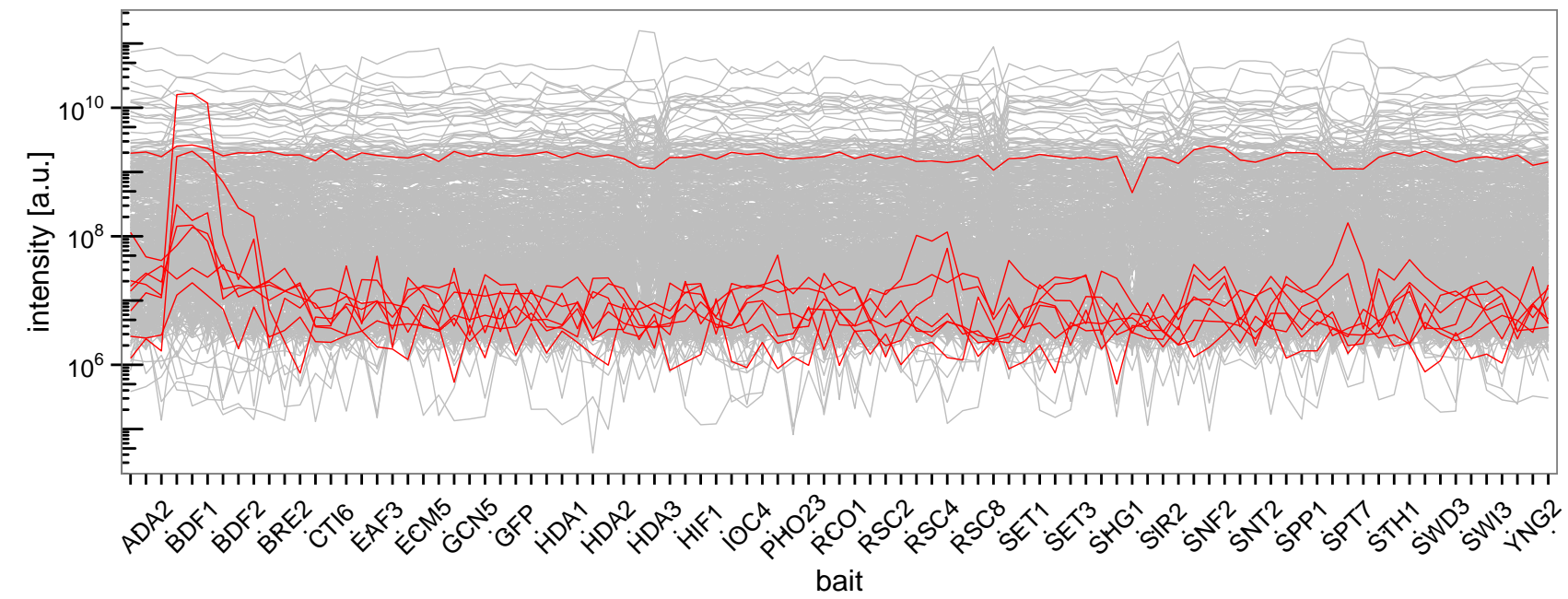
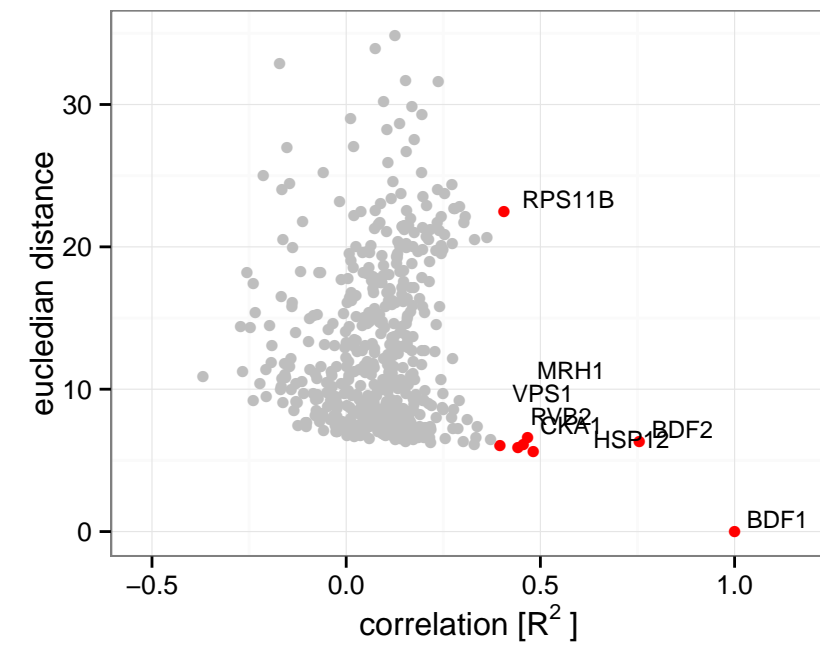
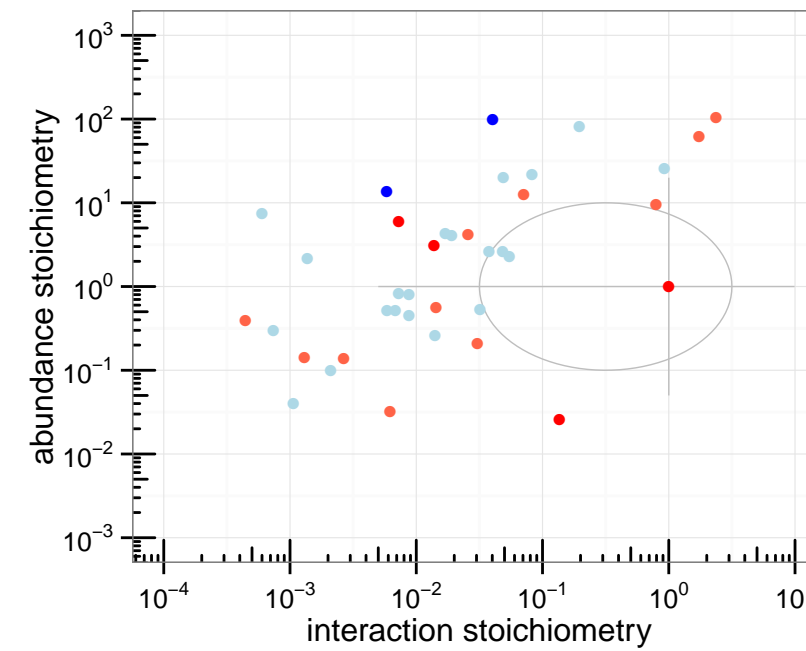
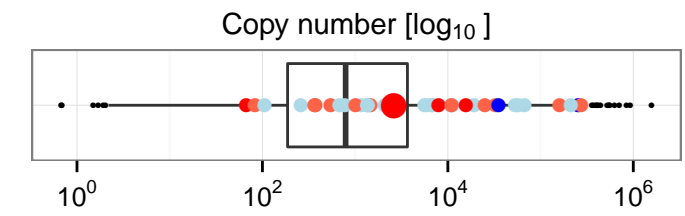
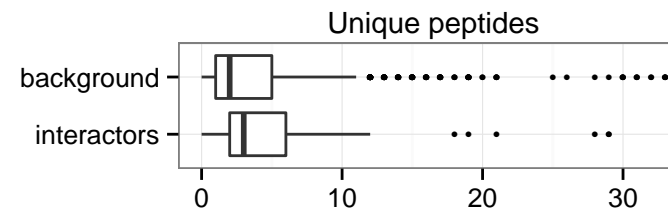


bait	BDF1
experiment	14 minutes

interactors	38
recovery	31 %

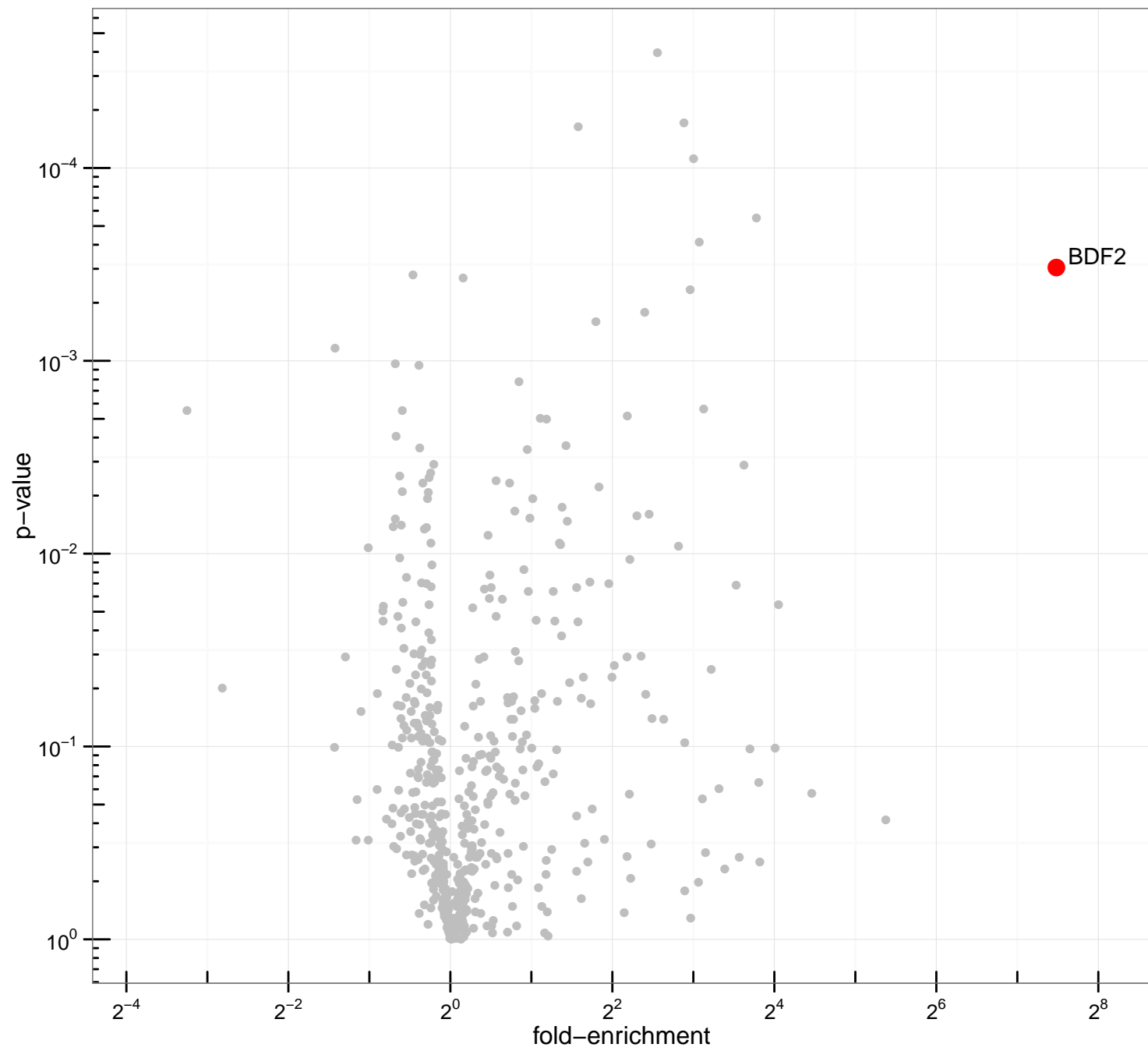


	ABF2	BDF1	BDF2	CDC25	HHP1	HHT1	HSP12	HTB2	HTZ1	MRH1	PDR15	RSC3	RVB2	SWC4	TAF12	TAF14	VPS1
<i>significance</i>	5.9	12.0	10.0	4.1	4.6	5.4	2.6	6.0	5.2	3.0	3.5	3.6	5.1	4.2	3.8	4.3	3.7
<i>interactor class</i>	A	A+	A+	A	A	A	B+	A	A	B+	A	A	A+	A	A	A	A+



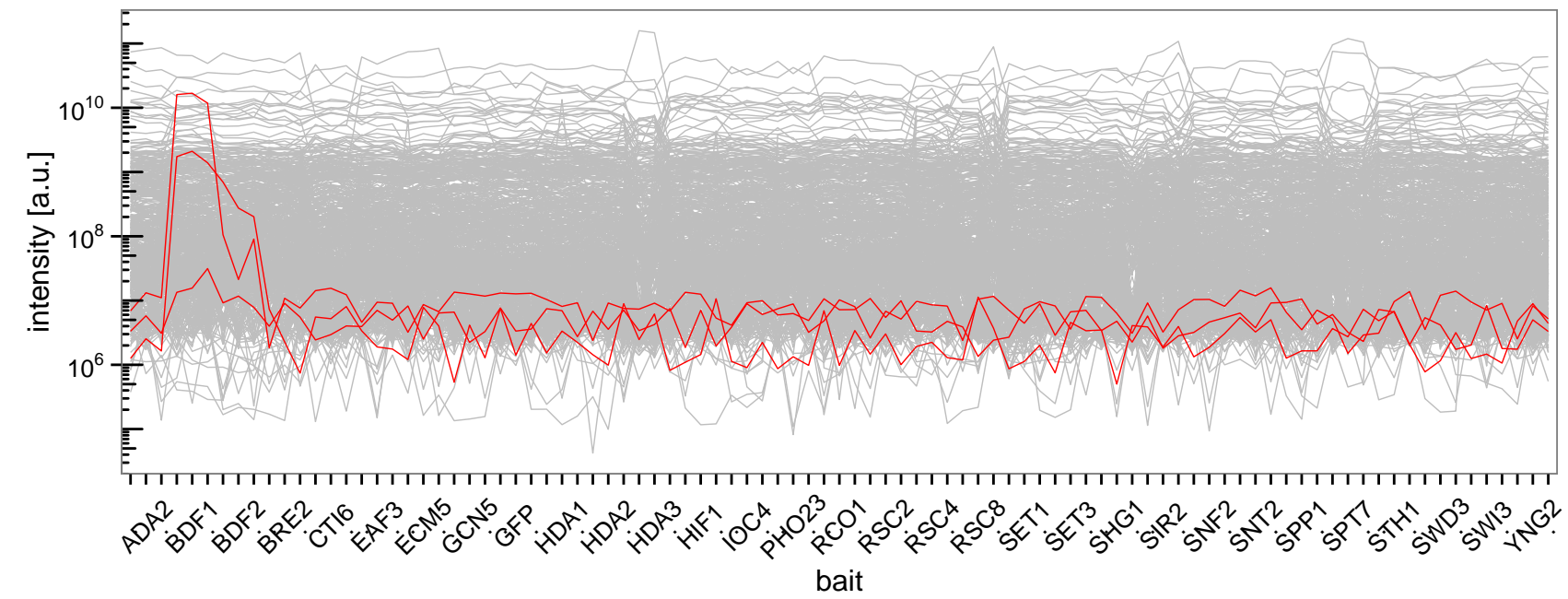
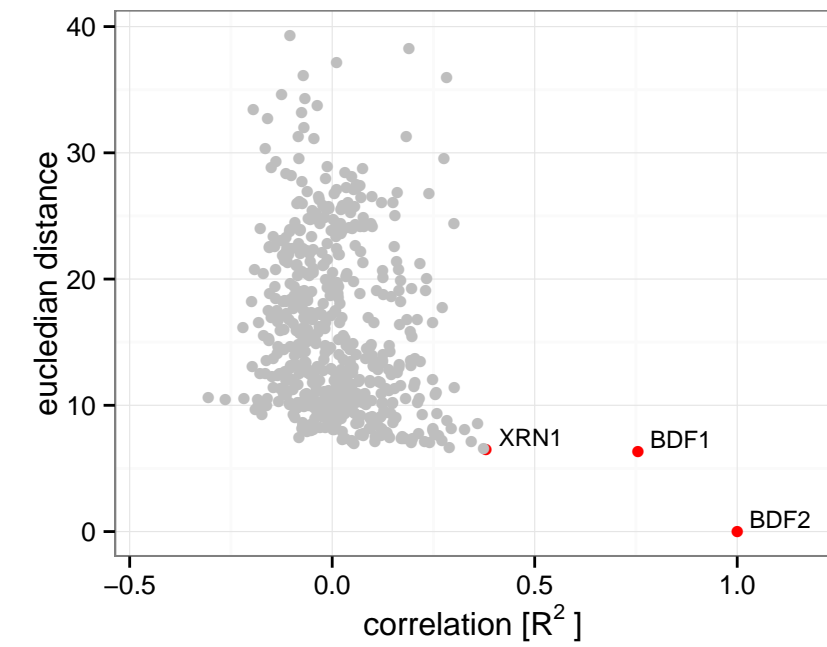
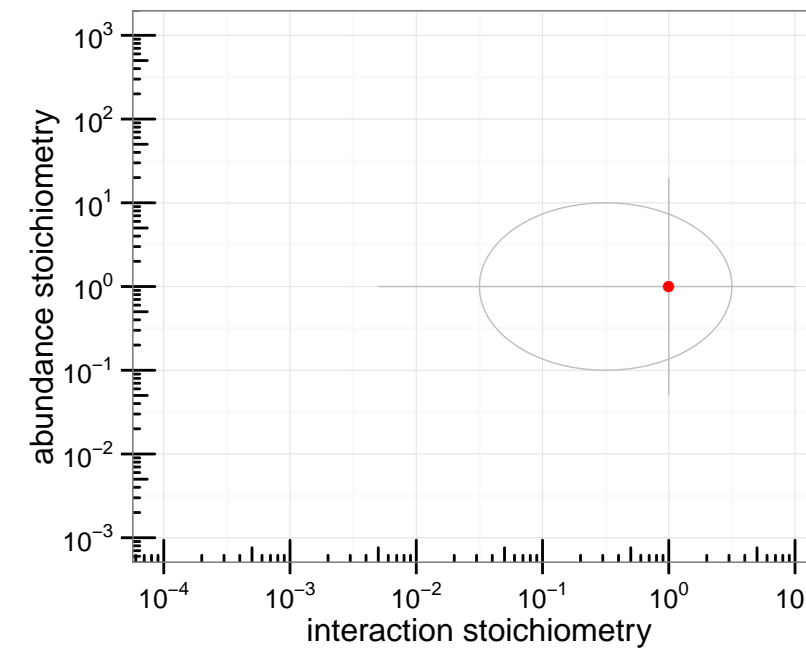
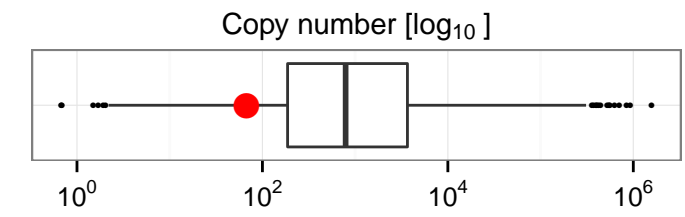
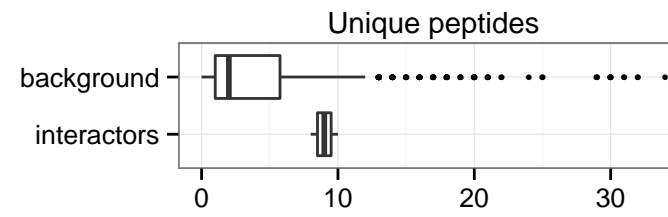
bait	BDF2
experiment	14 minutes

interactors	1
recovery	0 %



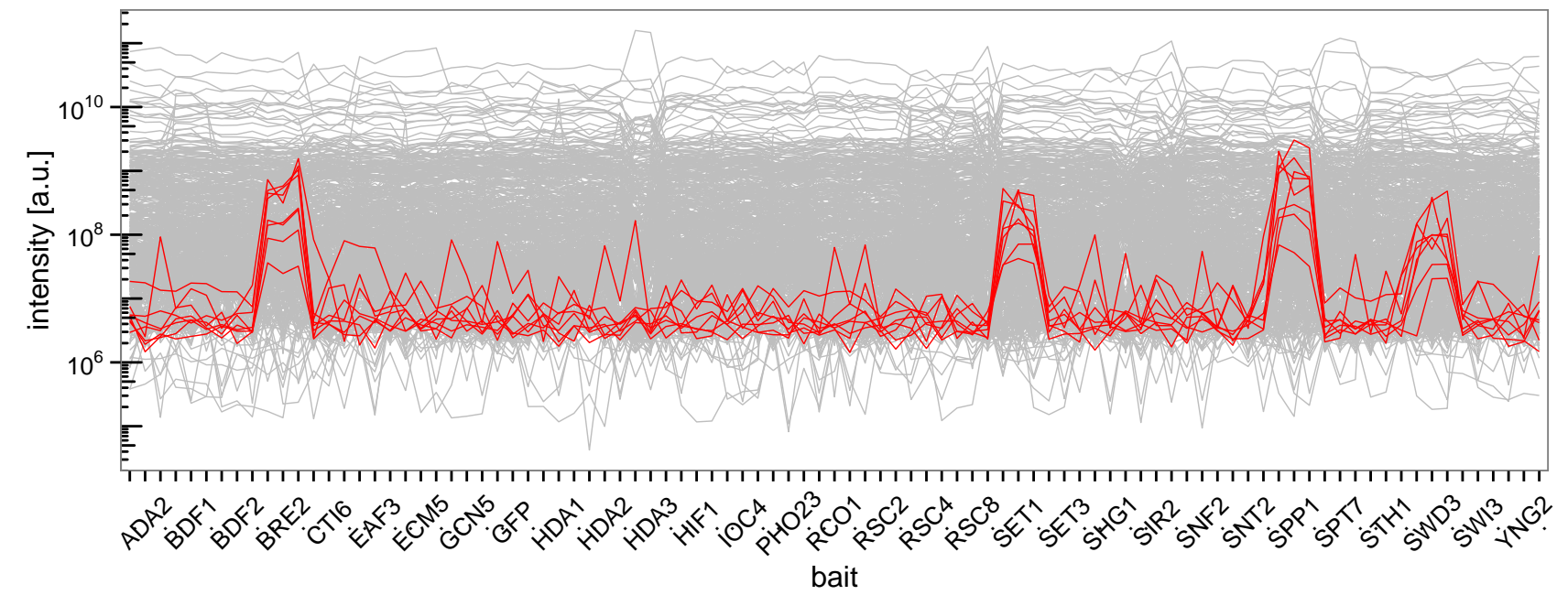
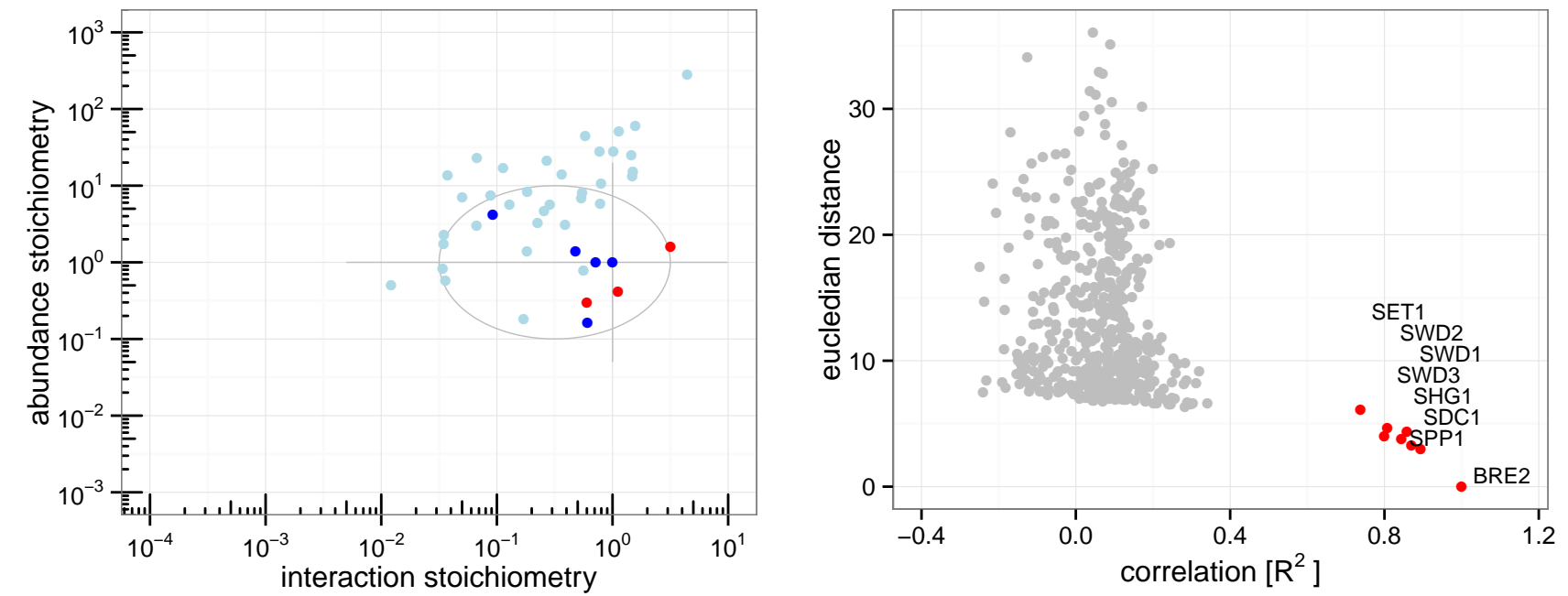
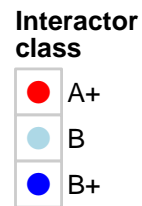
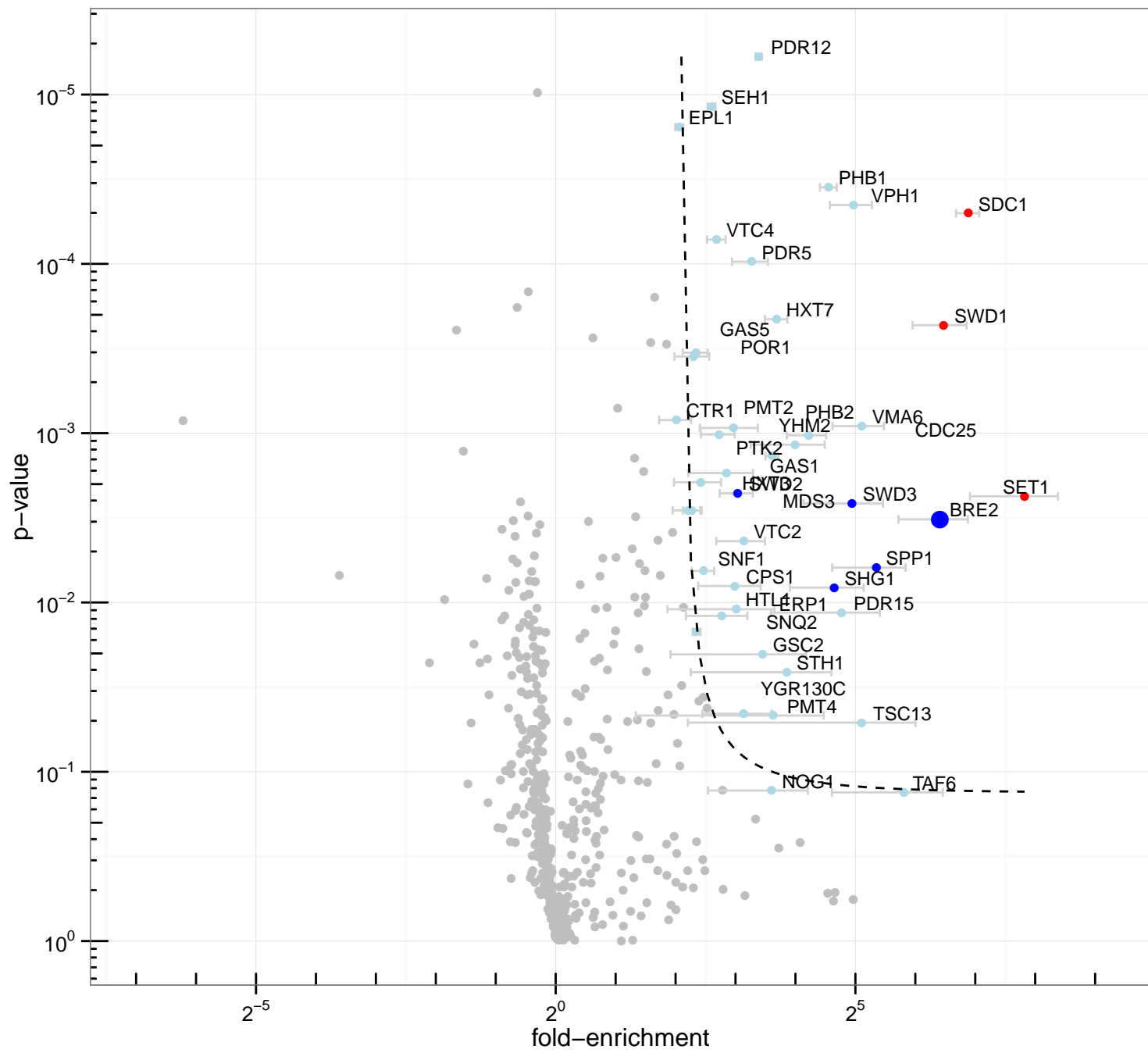
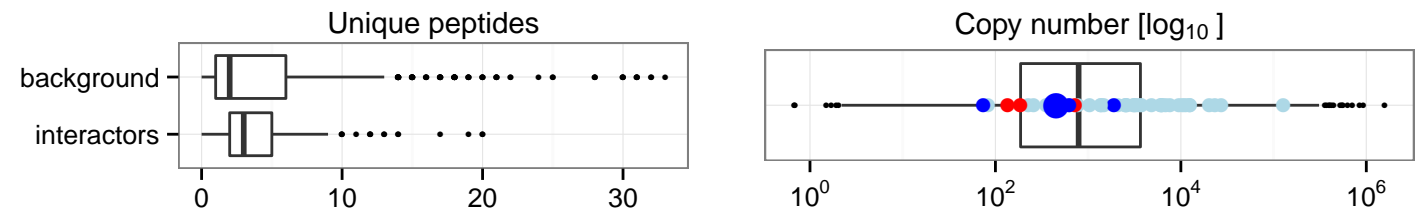
Interactor class
● A+

	BDF2
<i>significance</i>	7.4
<i>interactor class</i>	A+



bait	BRE2
experiment	14 minutes

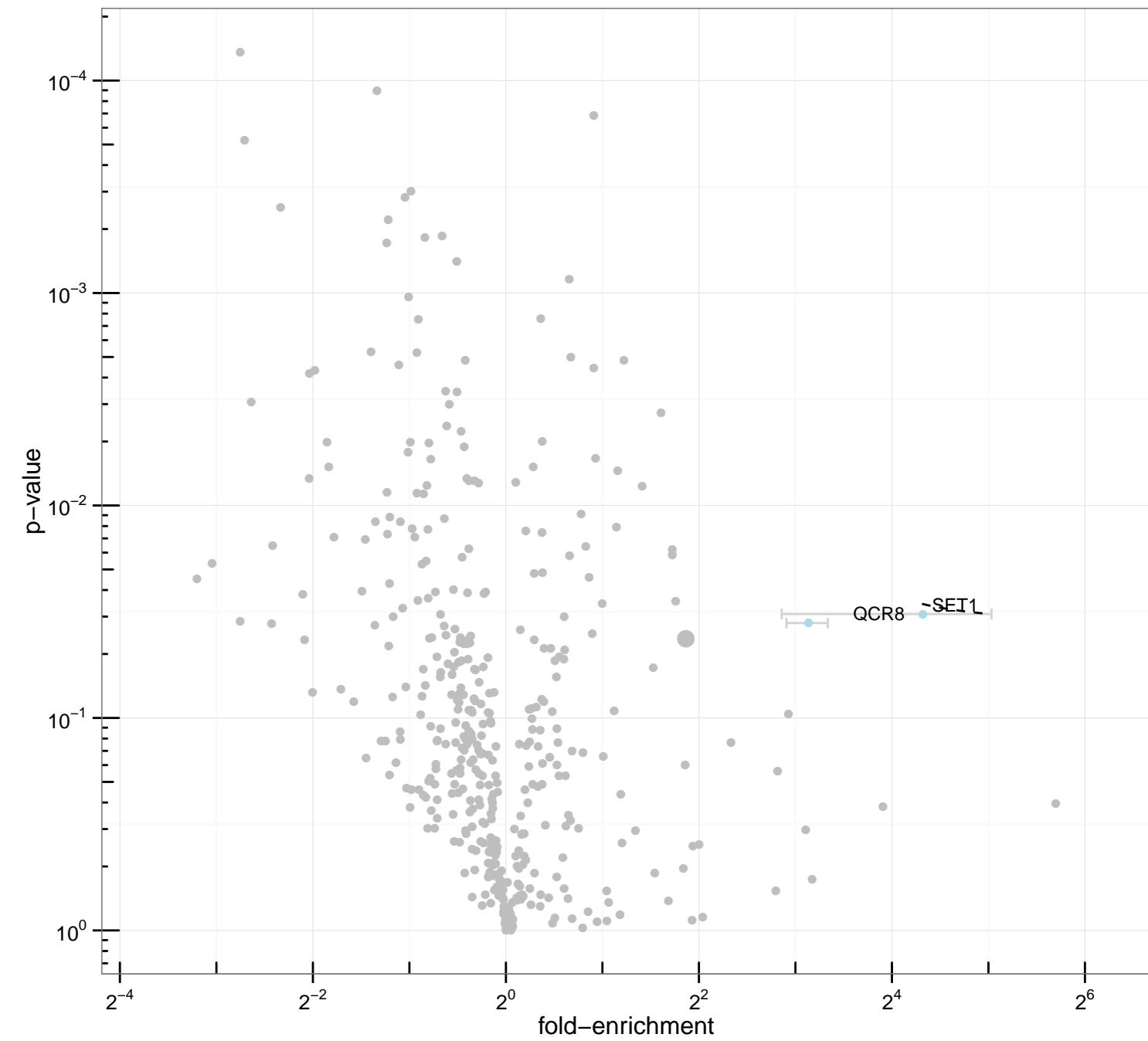
interactors	43
recovery	100 %



	BRE2	SDC1	SET1	SHG1	SPP1	SWD1	SWD2	SWD3
<i>significance</i>	6.0	7.3	7.3	4.2	4.9	6.6	3.3	4.7
<i>interactor class</i>	B+	A+	A+	B+	B+	A+	B+	B+

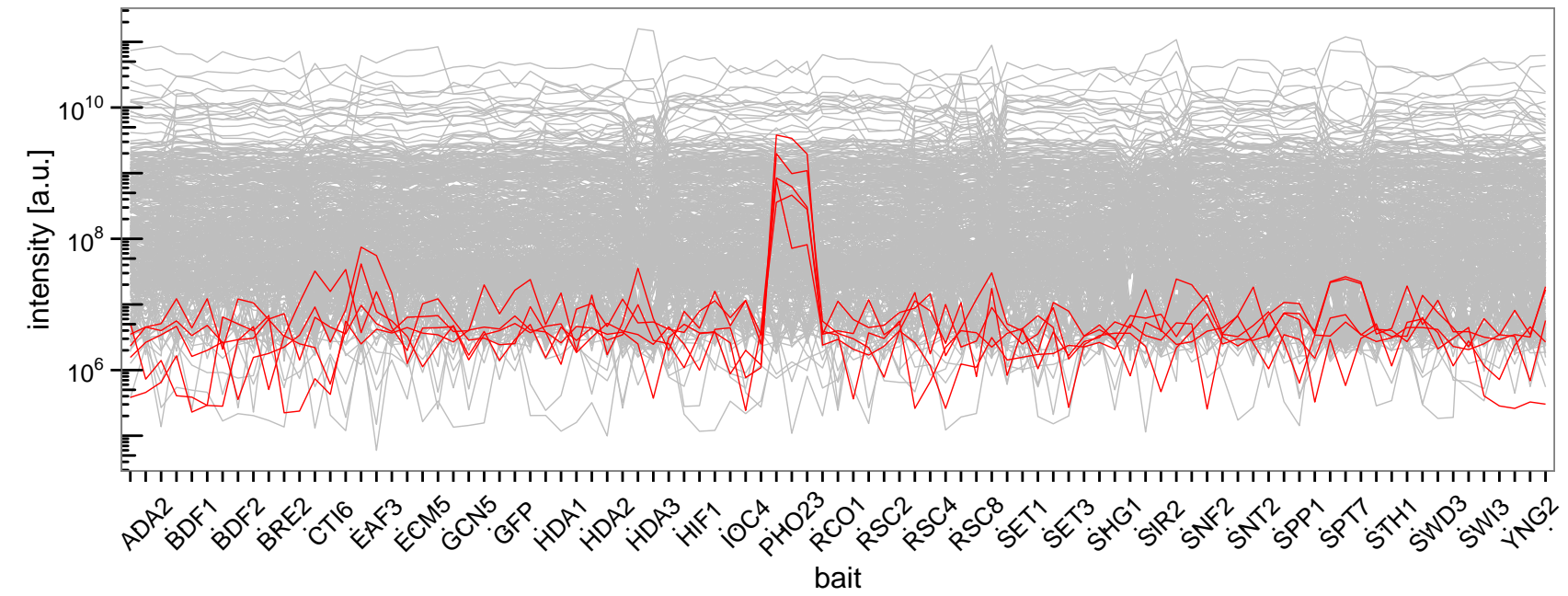
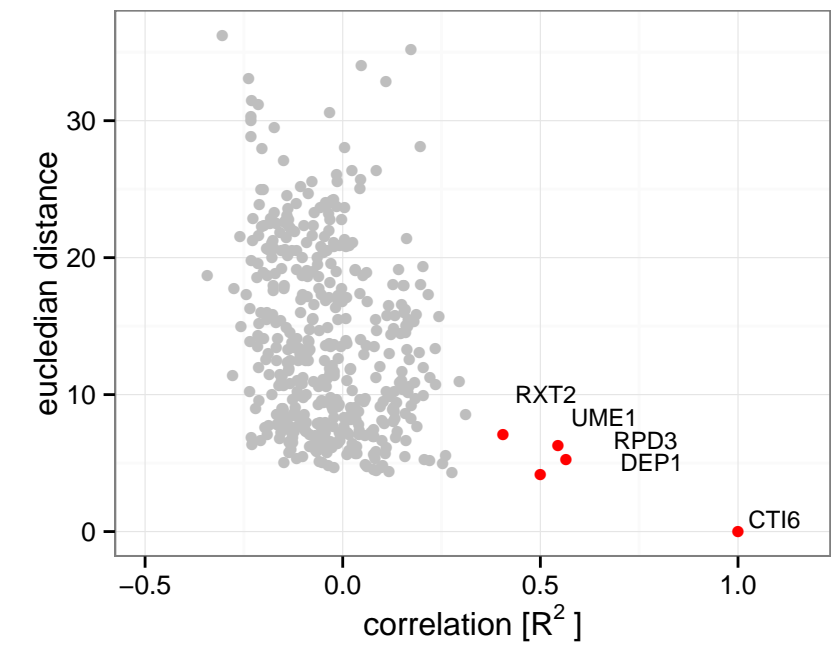
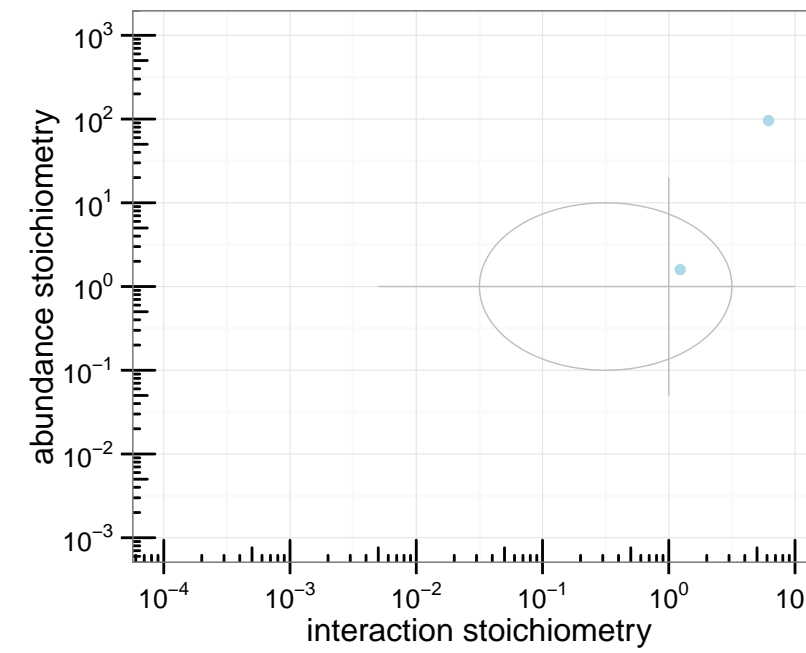
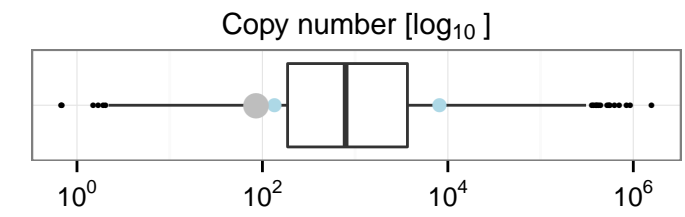
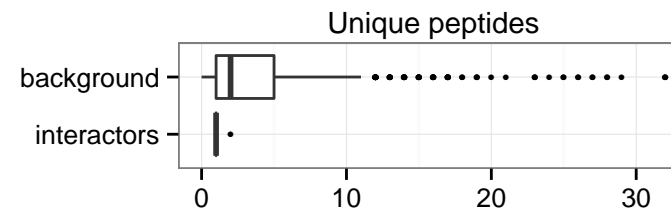
bait	CT16
experiment	14 minutes

interactors	2
recovery	0 %



Interactor class

- -
- B

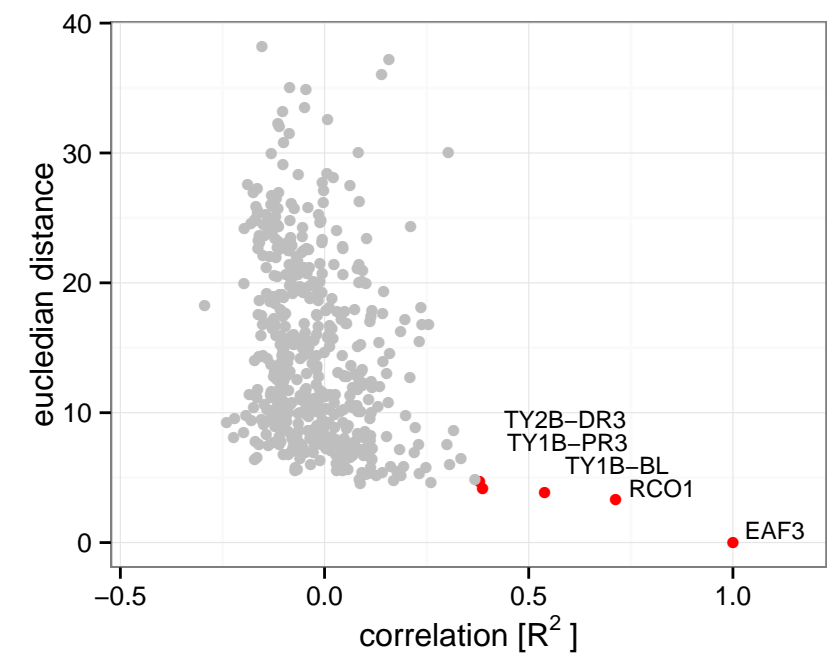
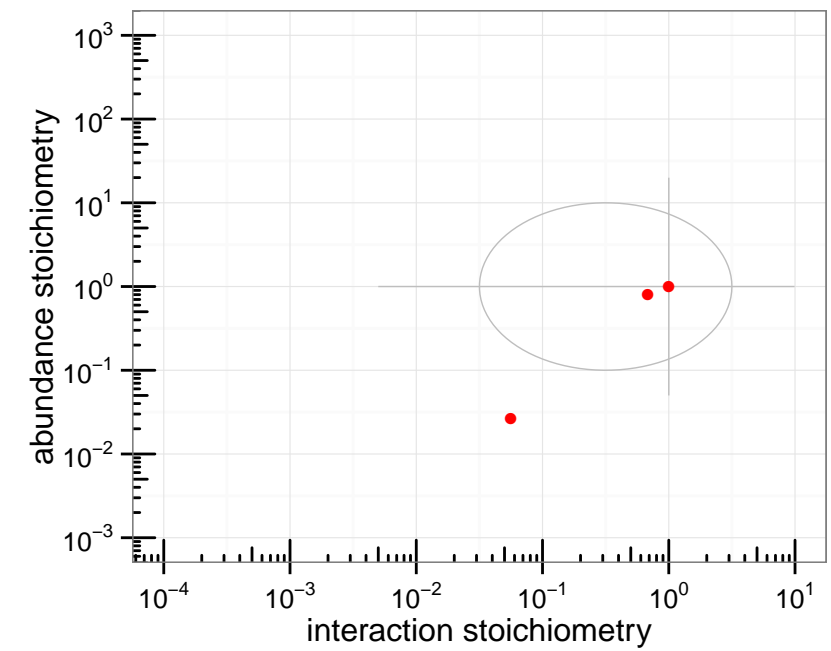
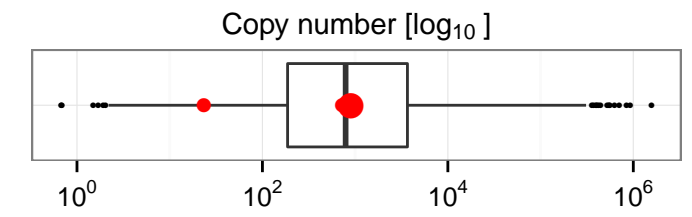
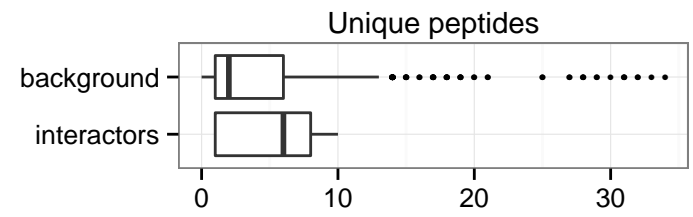


significance

interactor class

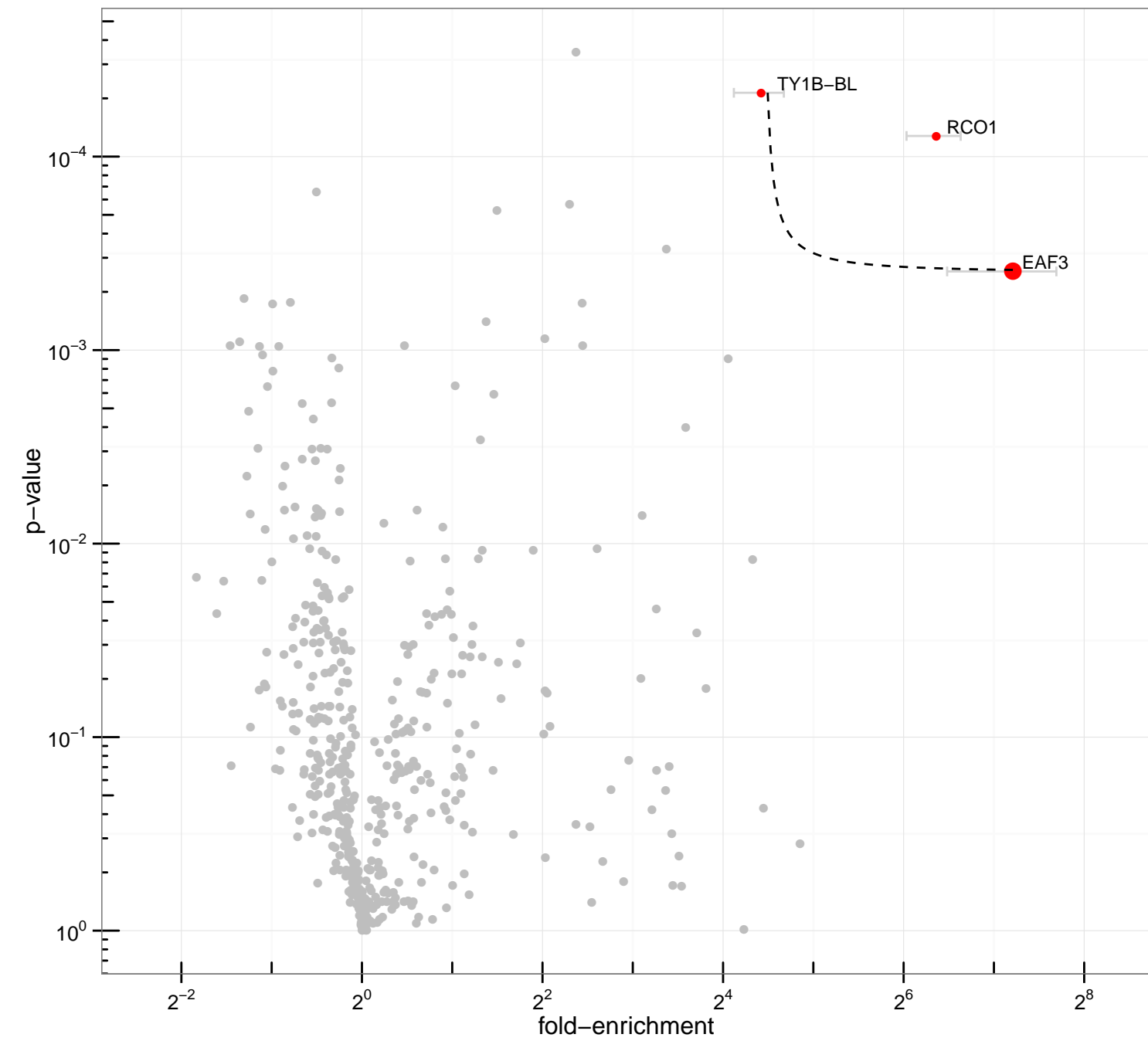
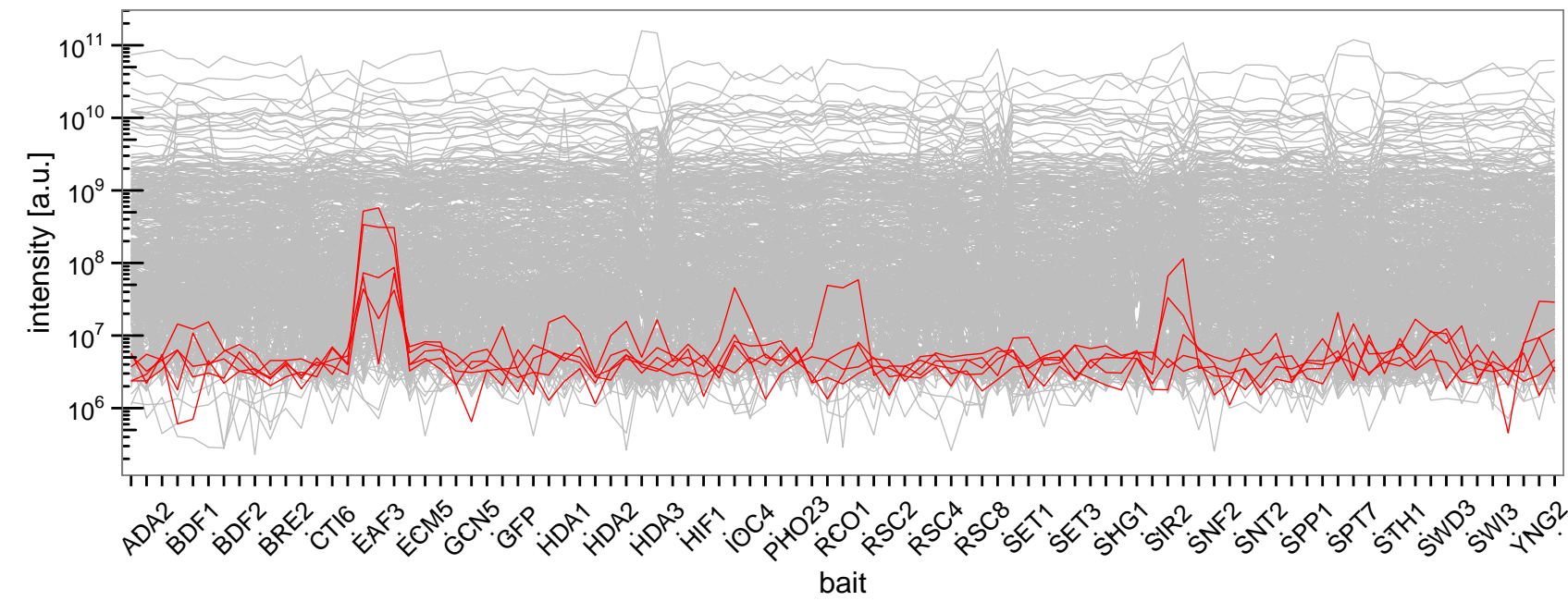
bait	EAF3
experiment	14 minutes

interactors	3
recovery	3 %



Interactor class

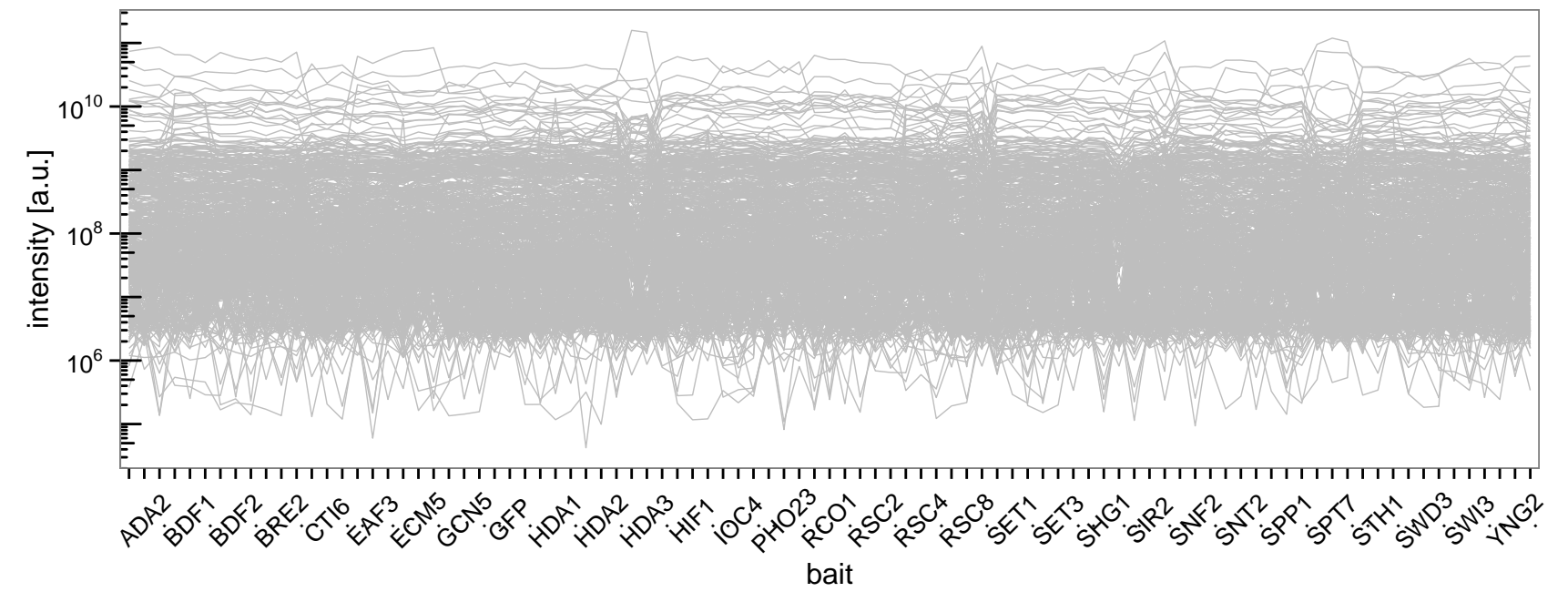
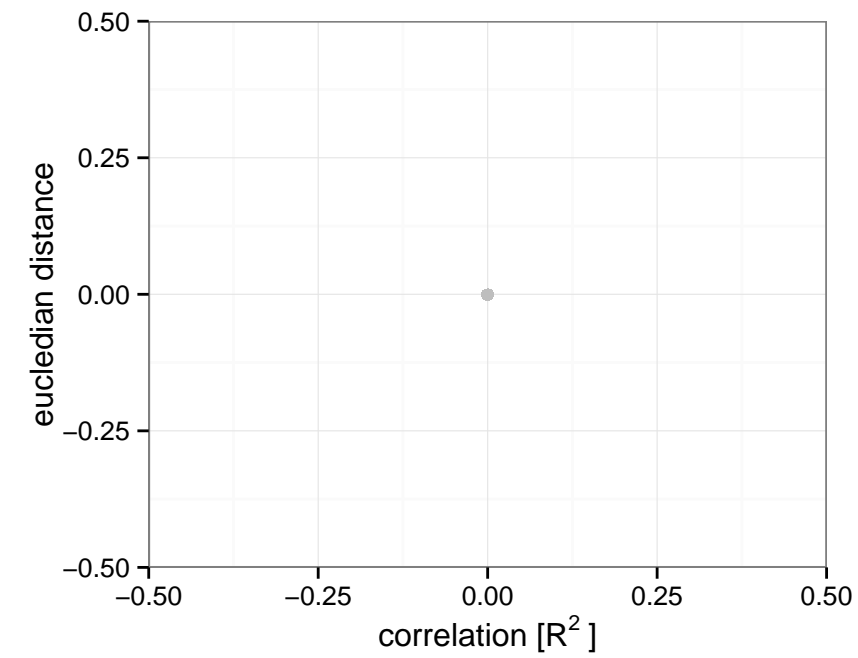
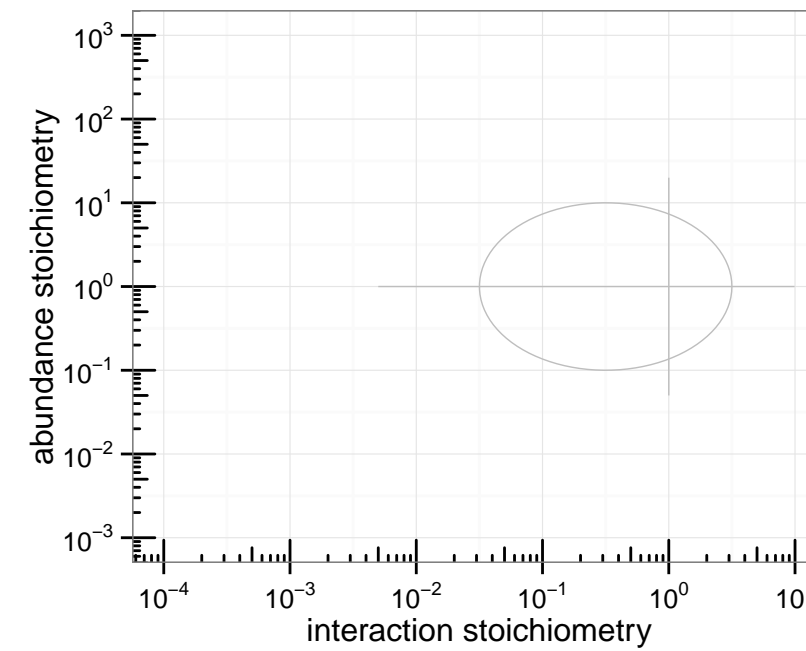
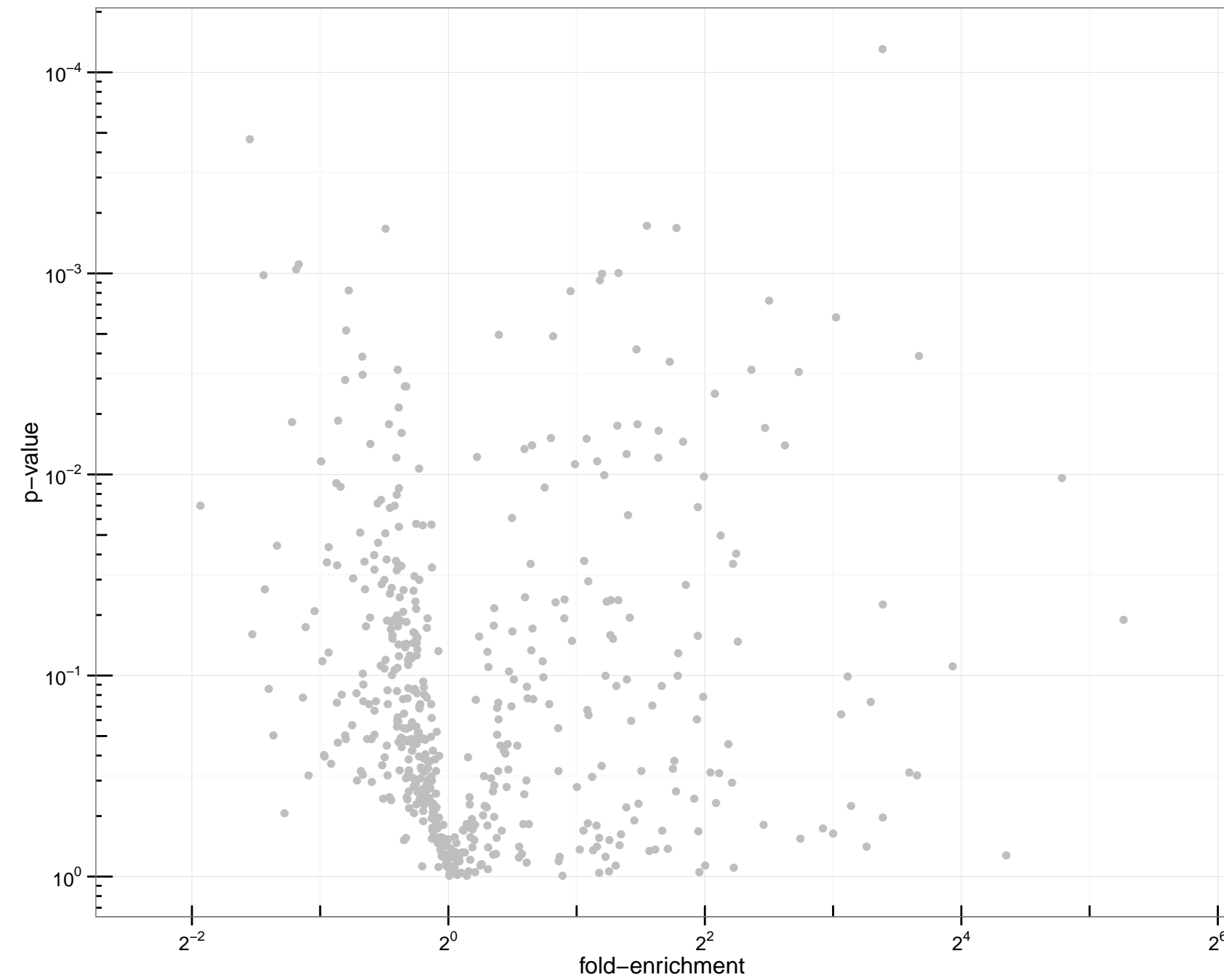
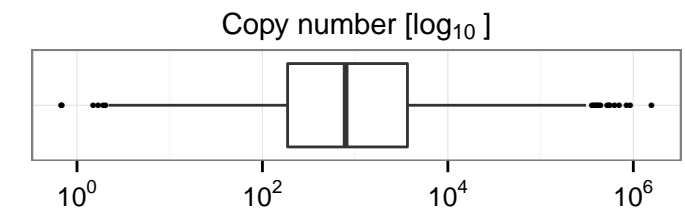
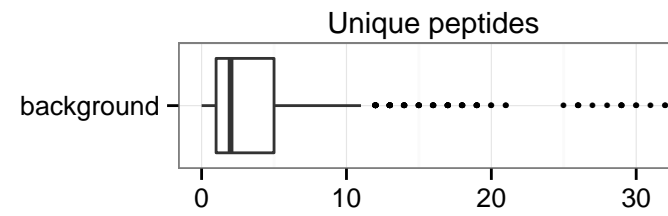
● A+



	EAF3	RCO1	TY1B-BL
<i>significance</i>	7.1	6.8	5.5
<i>interactor class</i>	A+	A+	A+

bait	ECM5
experiment	14 minutes

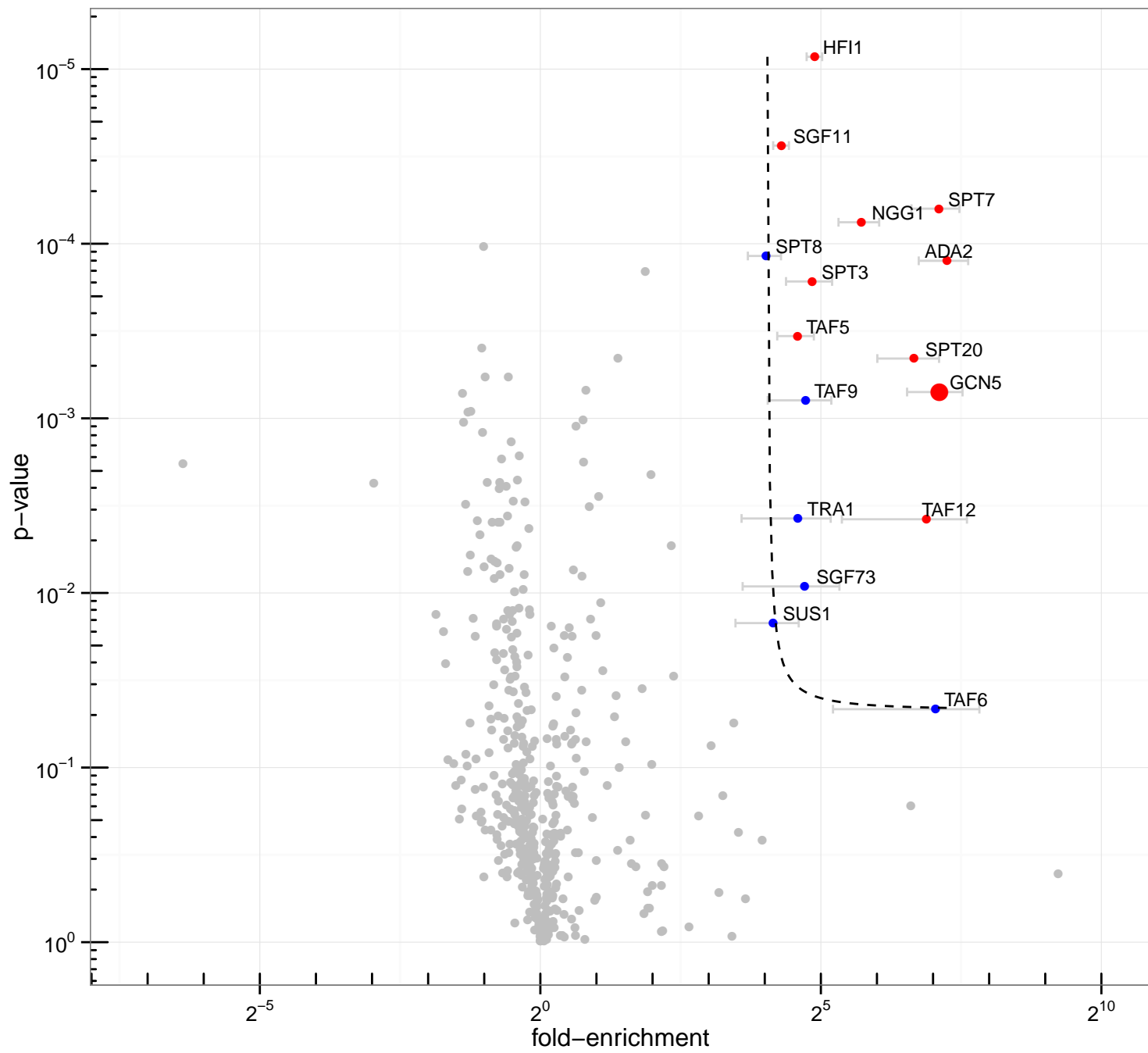
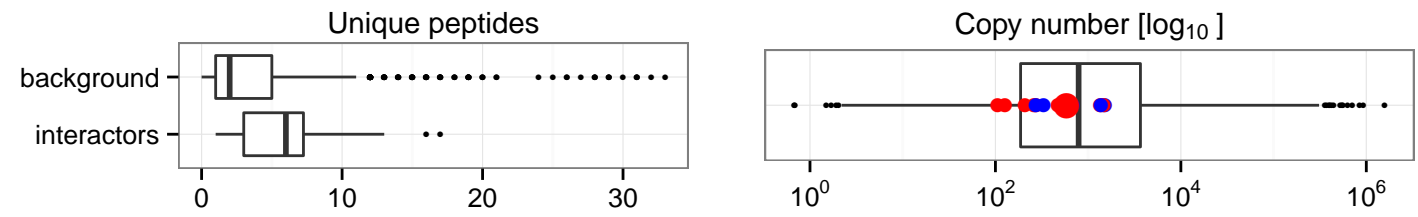
interactors	0
recovery	0 %



significance
interactor class

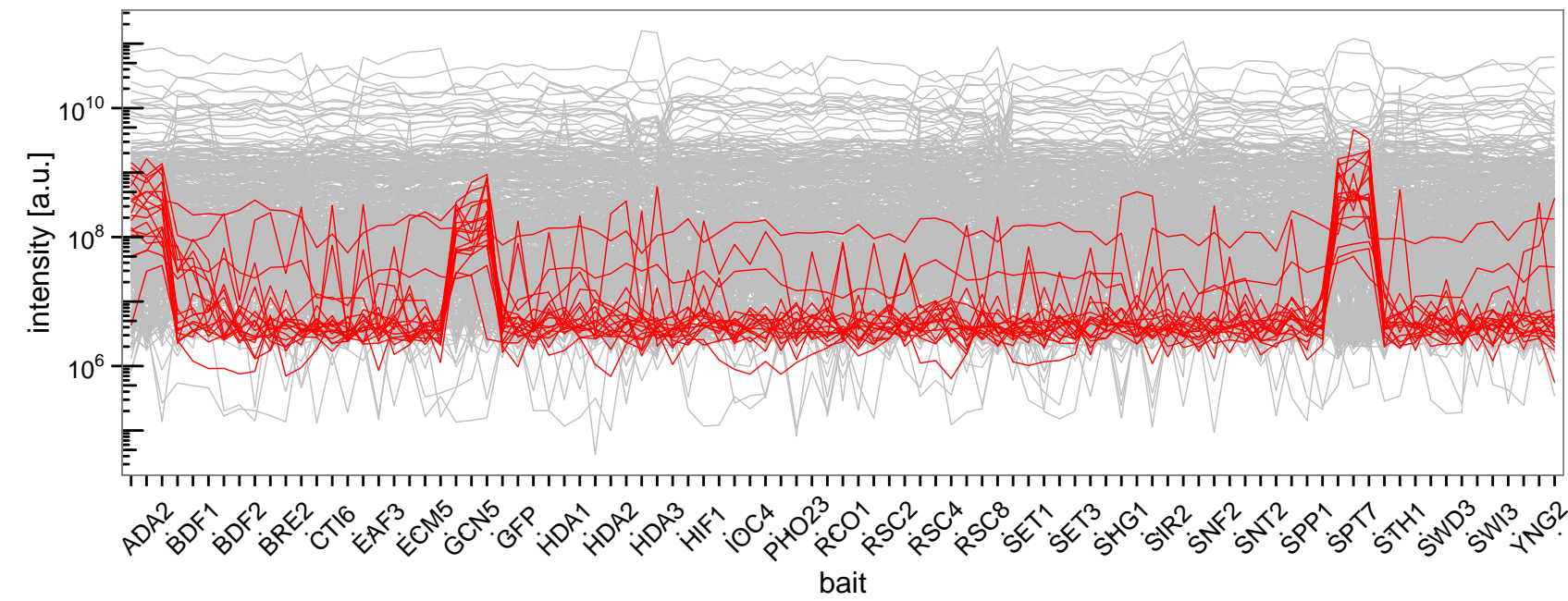
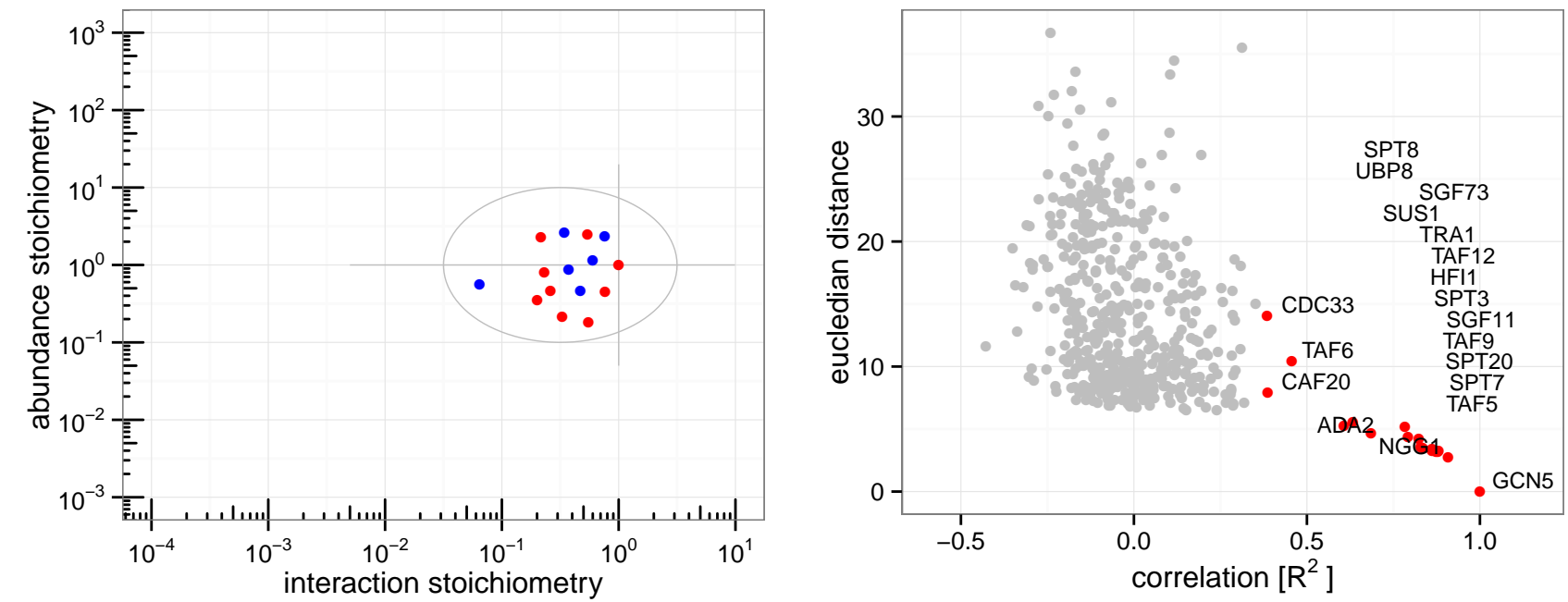
bait	GCN5
experiment	14 minutes

interactors	16
recovery	67 %



Interactor class

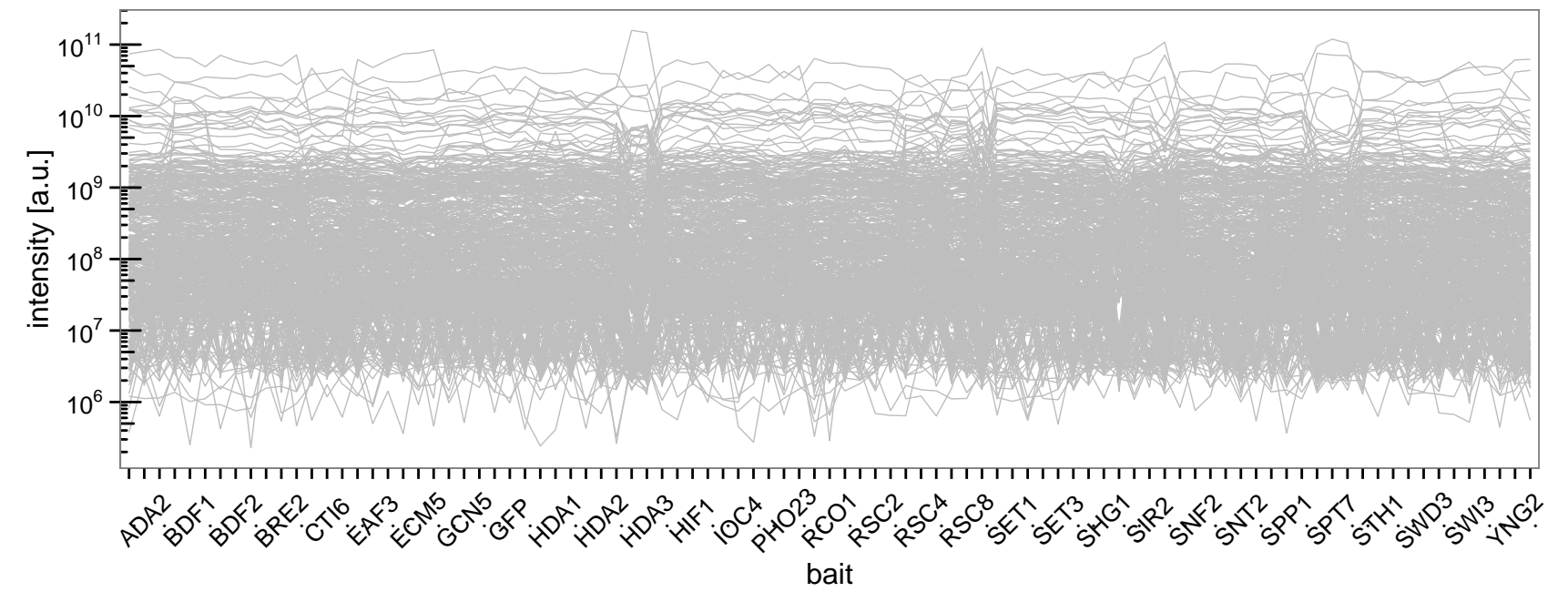
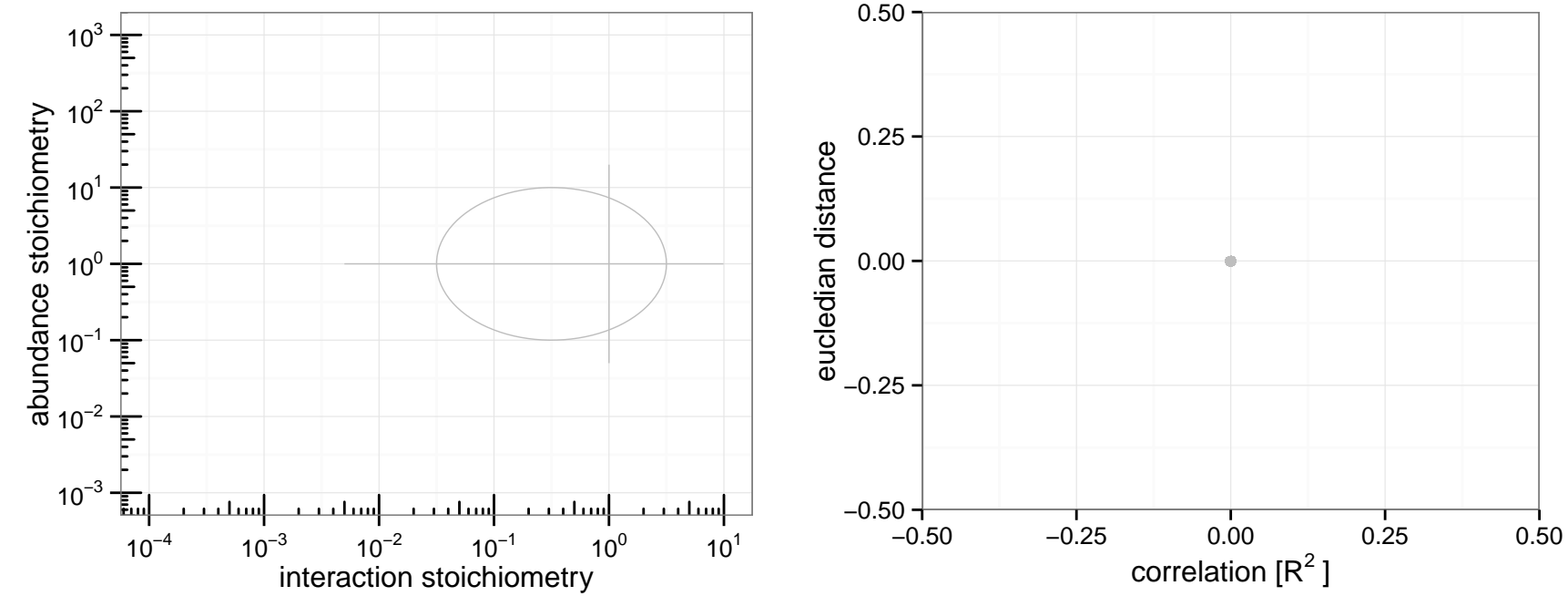
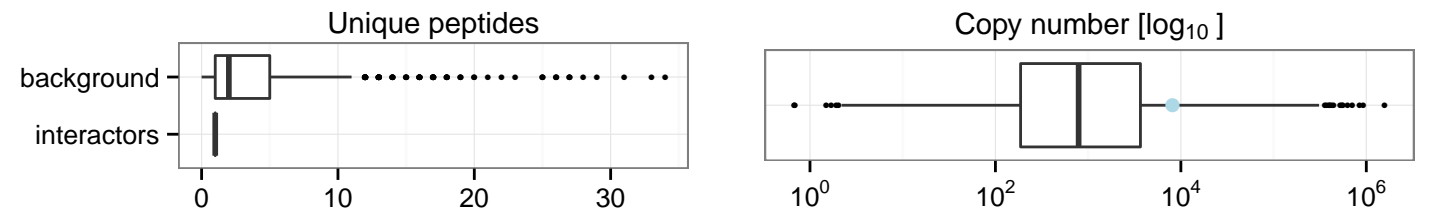
- A+
- B+



	ADA2	GCN5	HF1	NGG1	SGF11	SGF73	SPT20	SPT3	SPT7	SPT8	SUS1	TAF12	TAF5	TAF6	TAF9	TRA1
<i>significance</i>	7.4	6.9	6.4	6.3	5.6	4.2	6.6	5.4	7.4	5.0	3.6	6.4	5.0	6.2	4.9	4.3
<i>interactor class</i>	A+	A+	A+	A+	A+	B+	A+	A+	A+	B+	B+	A+	A+	B+	B+	B+

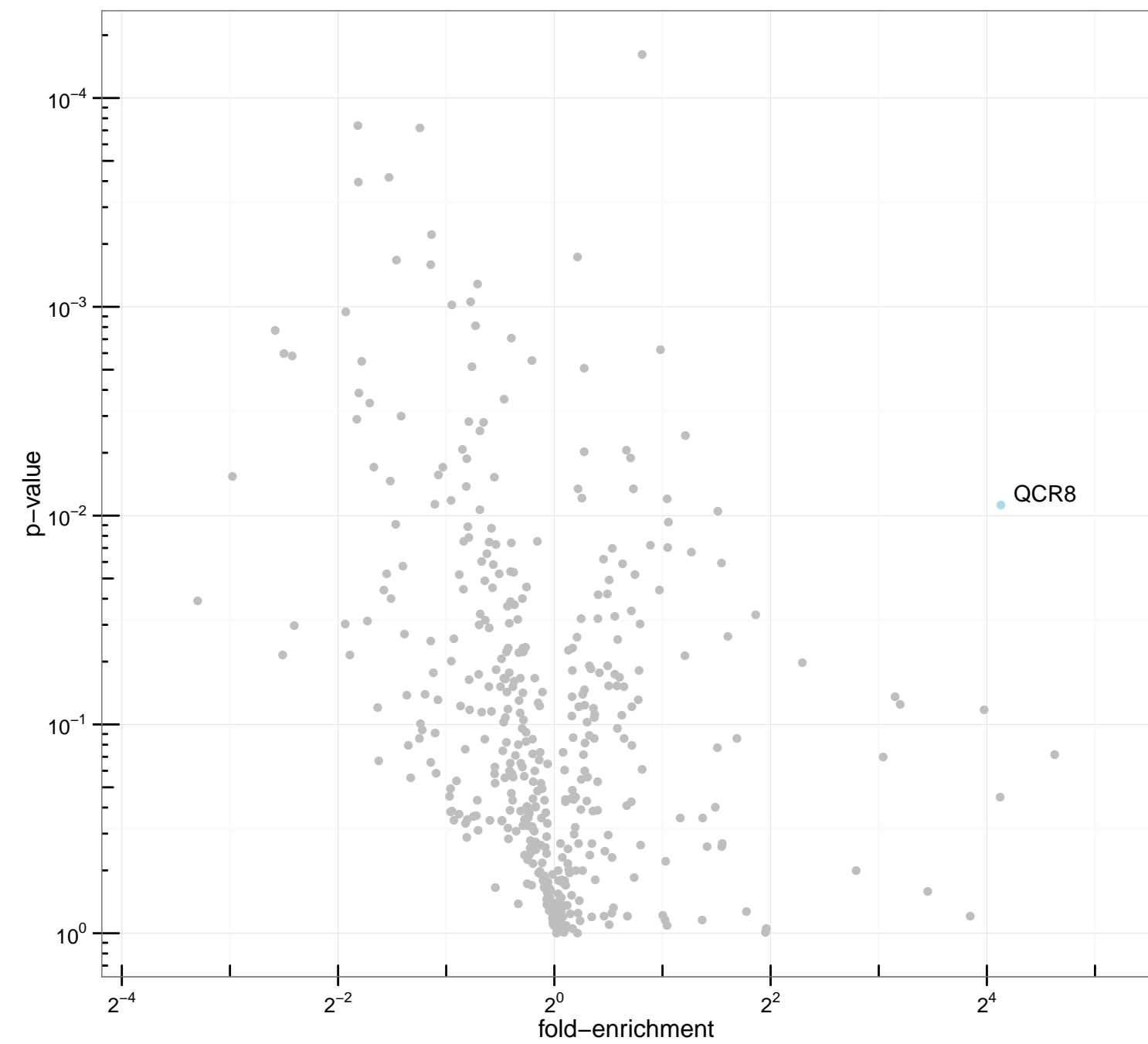
bait	GFP
experiment	14 minutes

interactors	1
recovery	NaN %



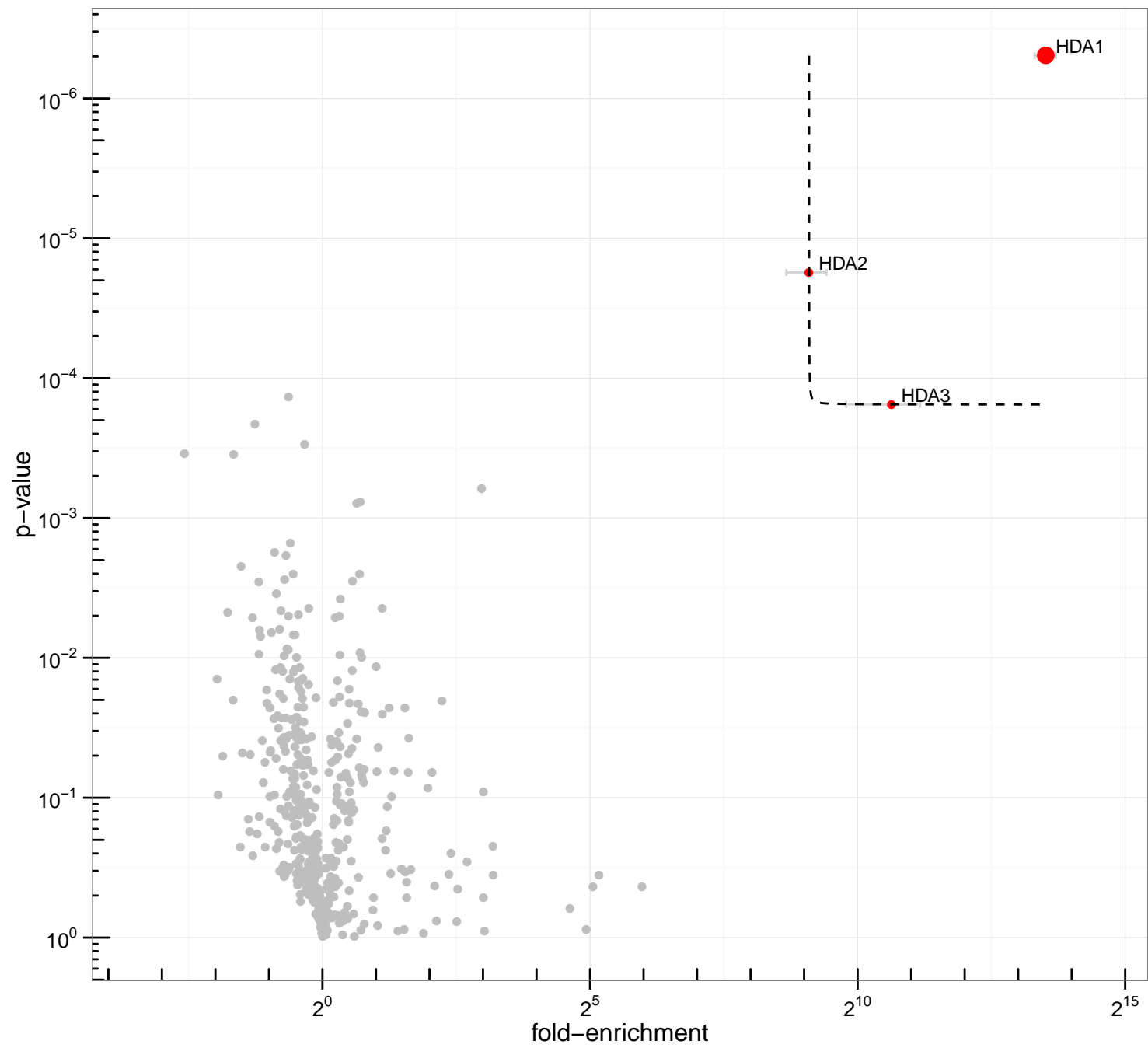
Interactor class
● B

significance
interactor class



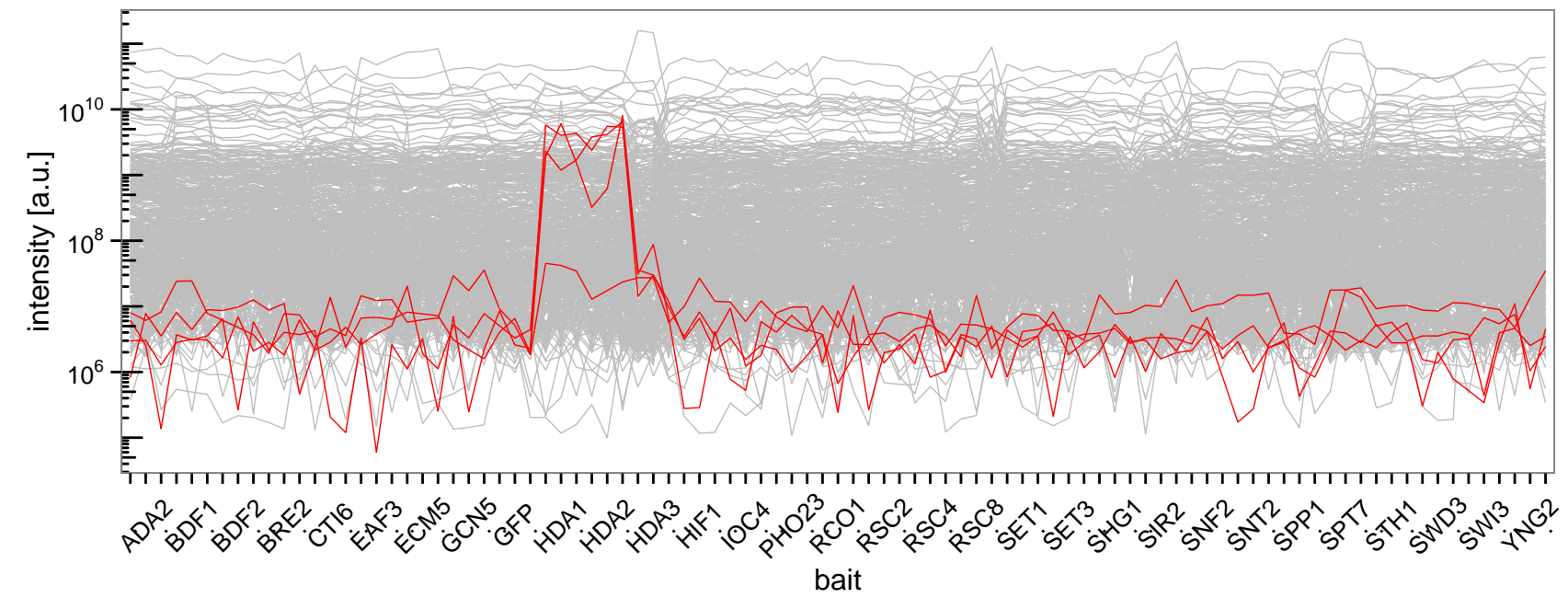
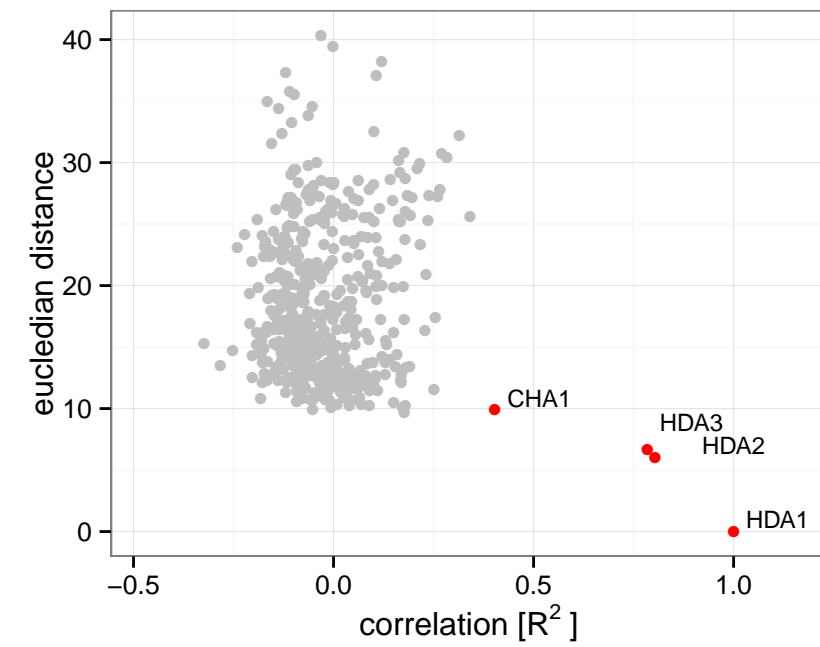
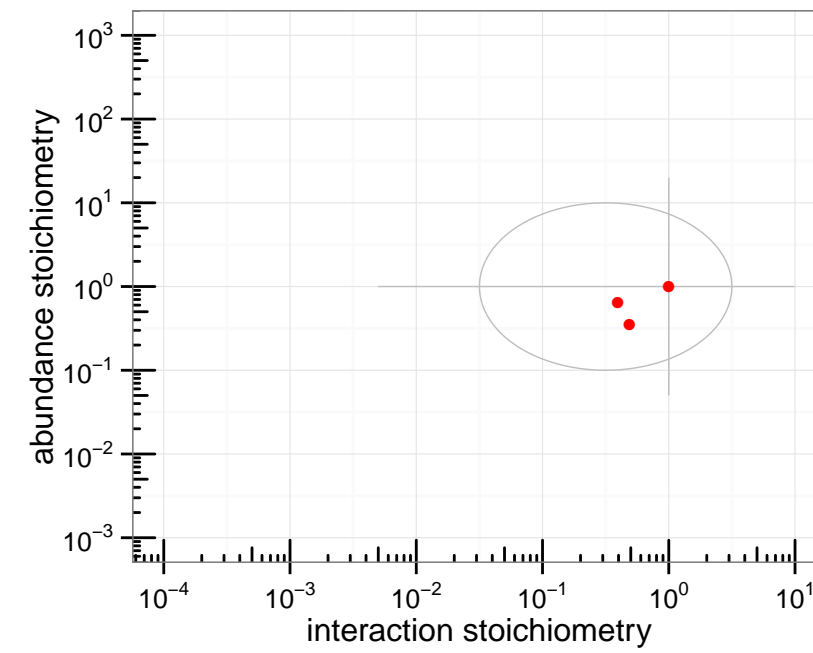
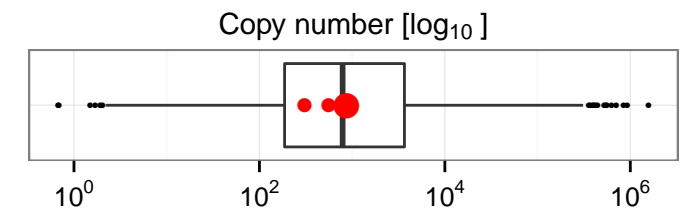
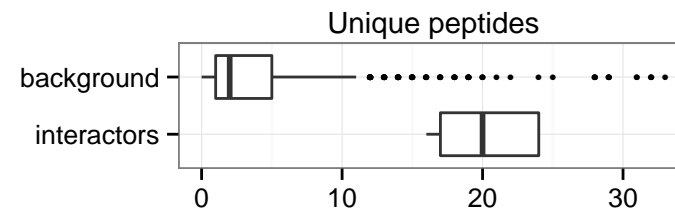
bait	HDA1
experiment	14 minutes

interactors	3
recovery	100 %



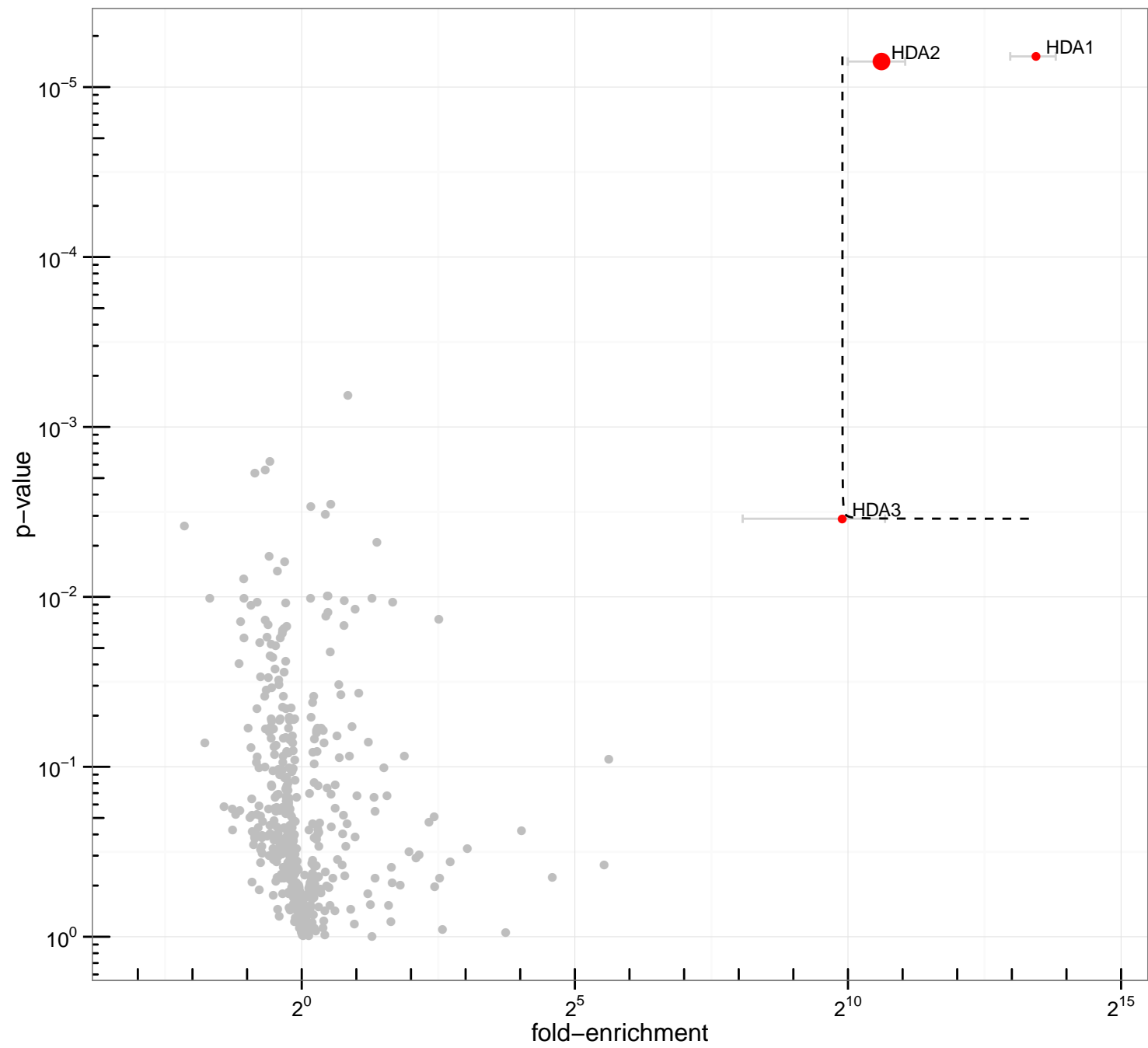
Interactor class
● A+

	HDA1	HDA2	HDA3
<i>significance</i>	14.0	9.4	10.0
<i>interactor class</i>	A+	A+	A+



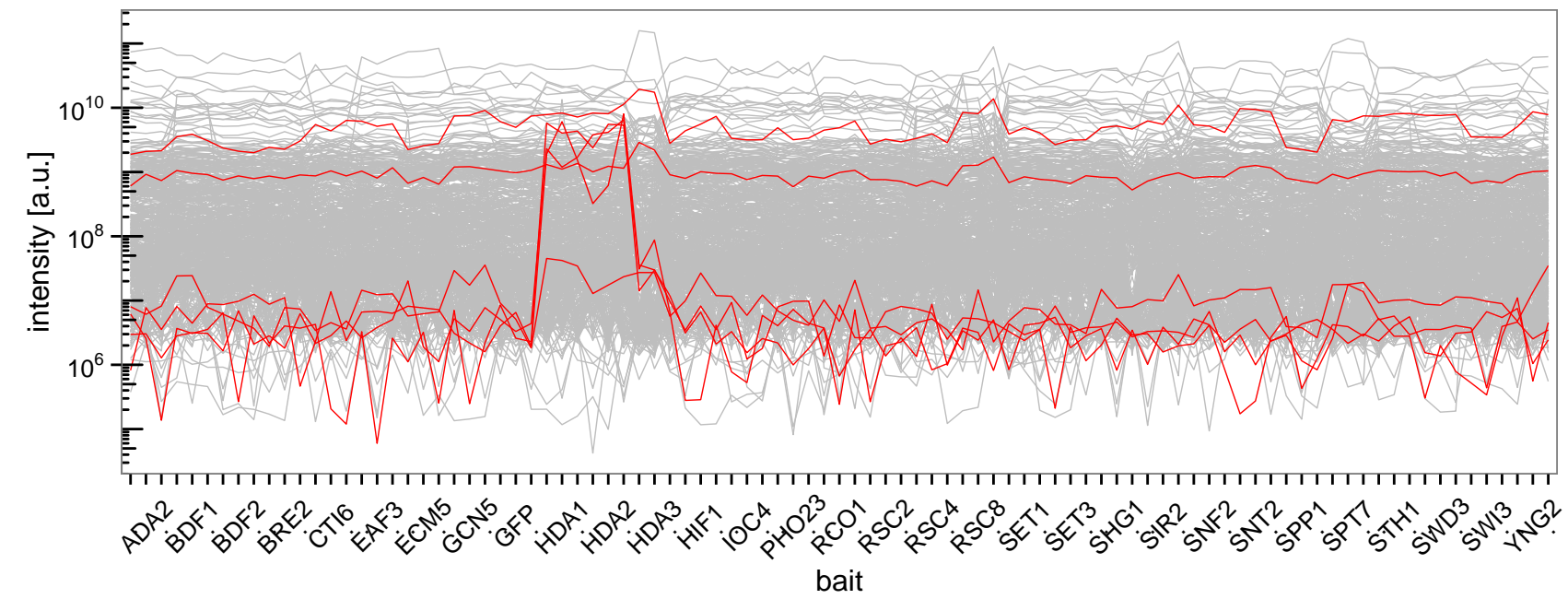
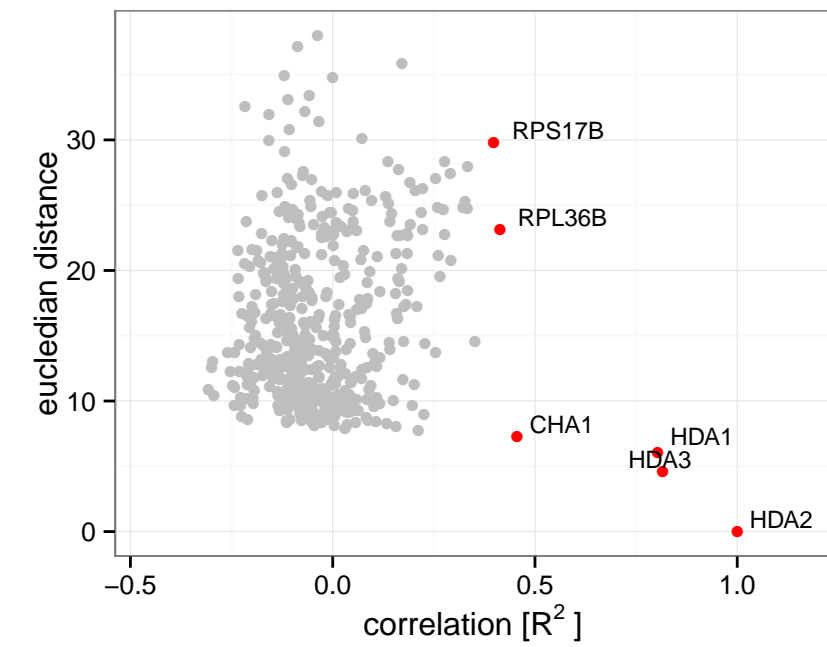
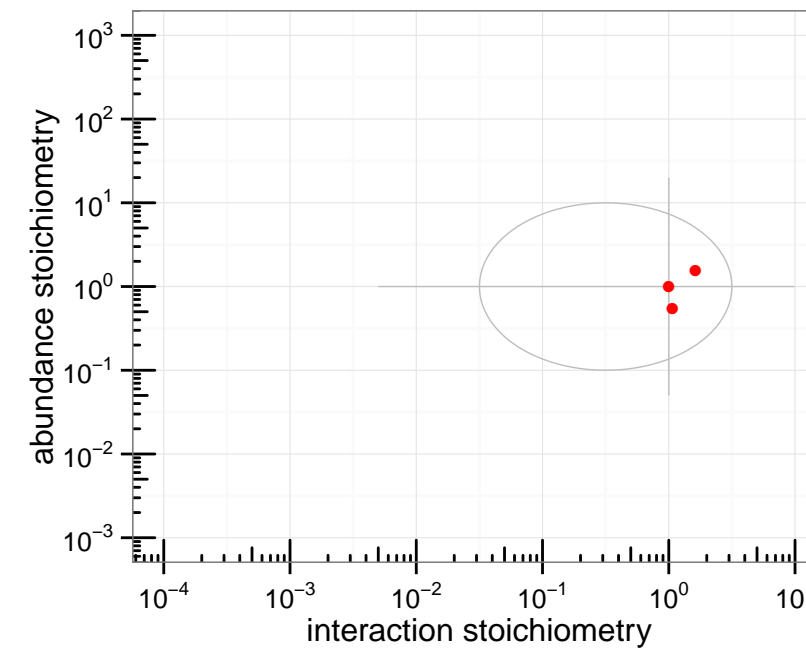
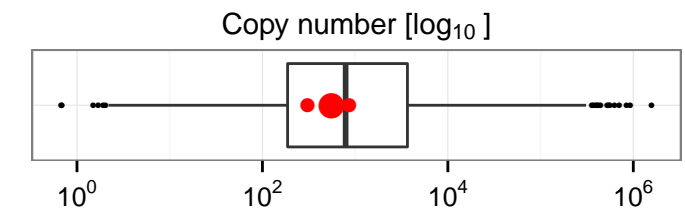
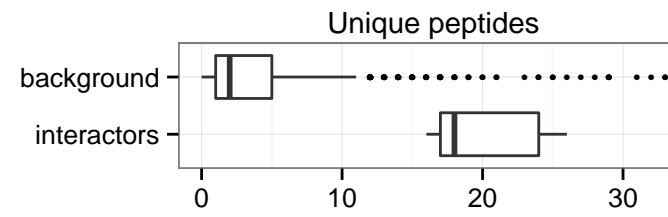
bait	HDA2
experiment	14 minutes

interactors	3
recovery	100 %



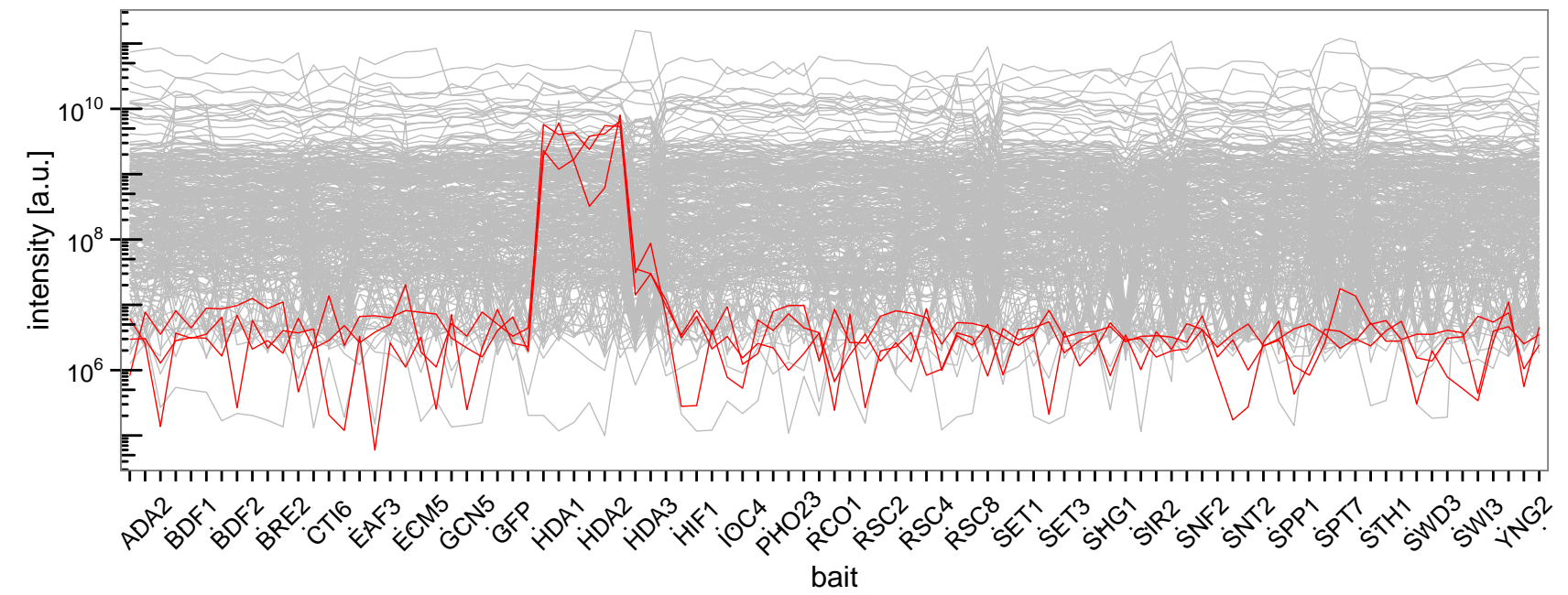
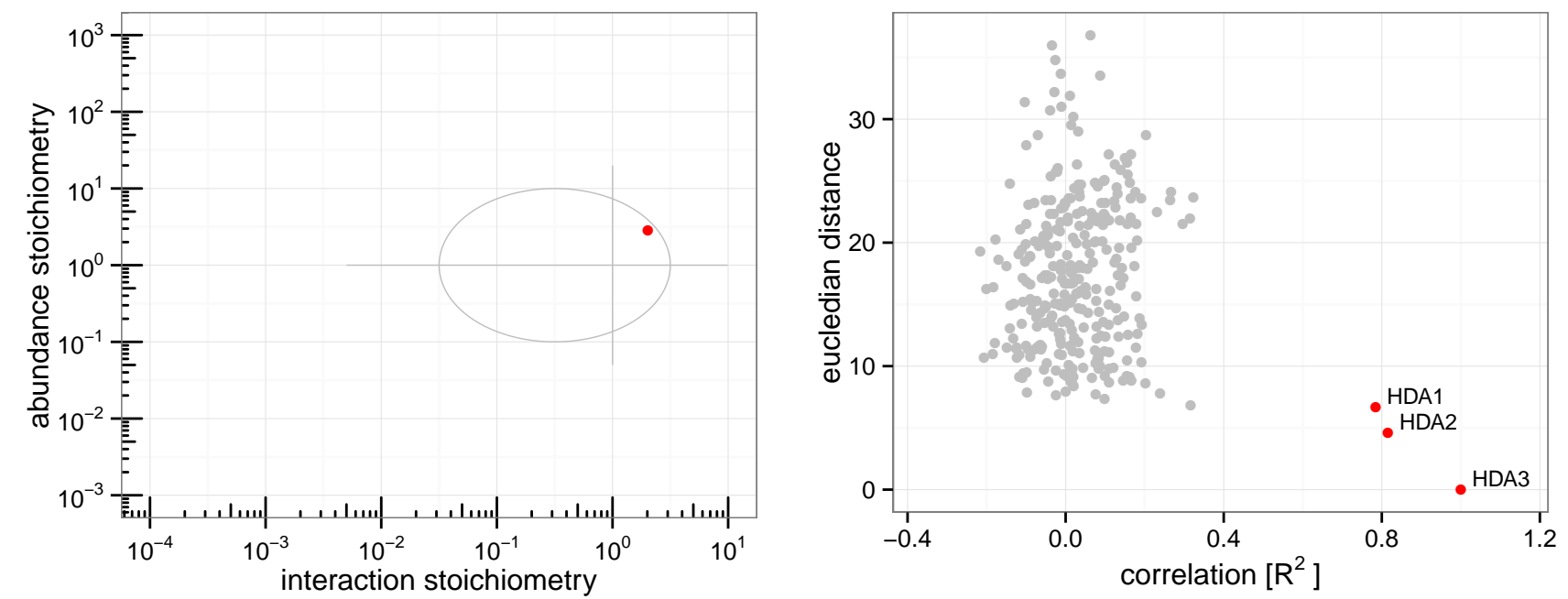
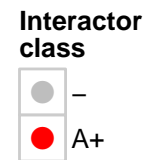
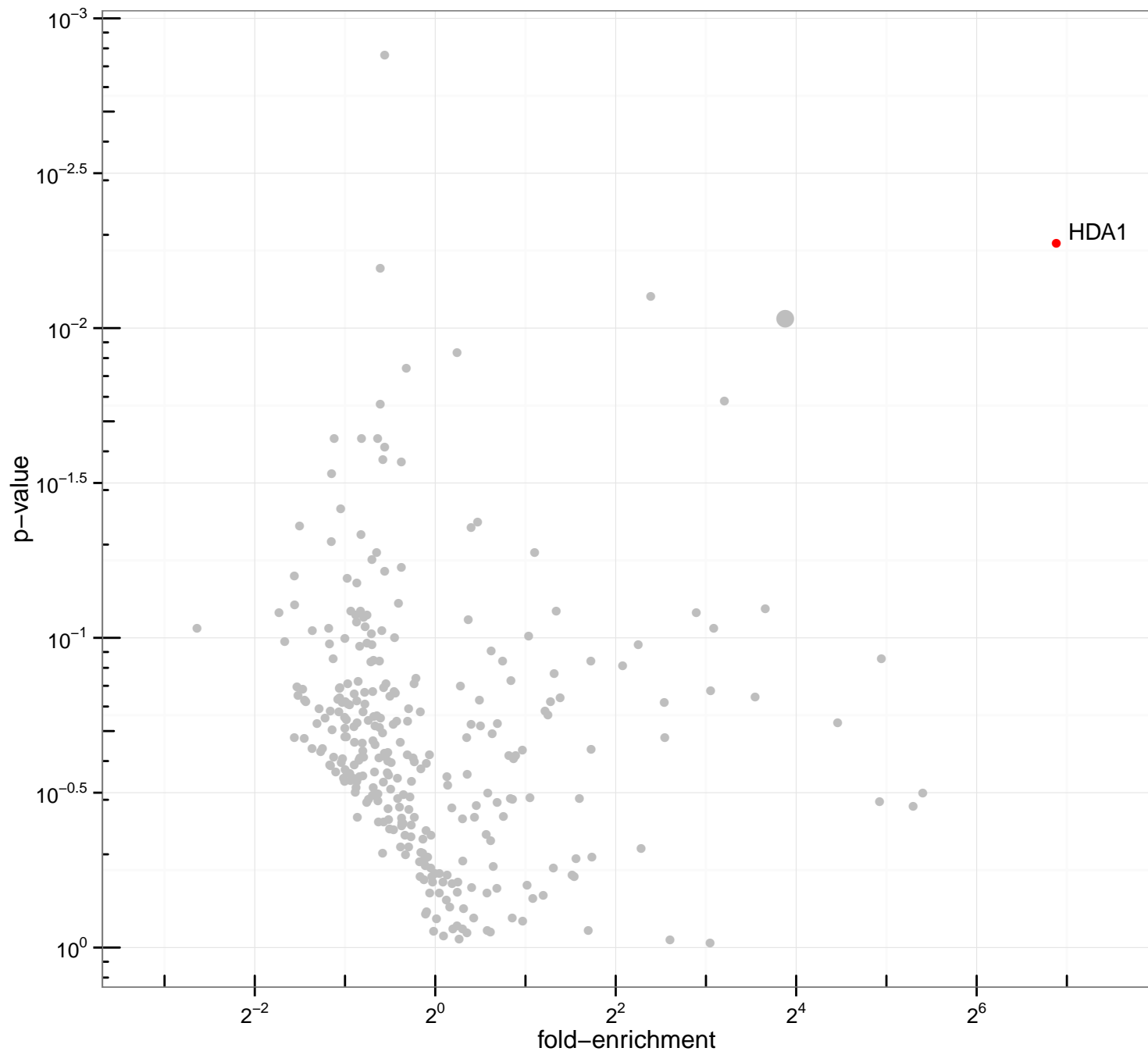
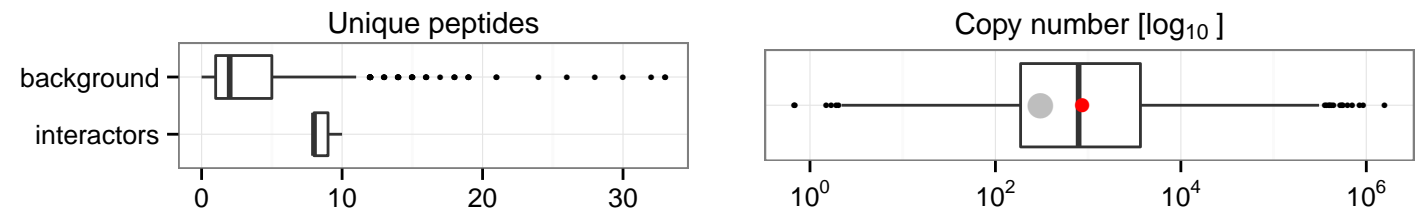
Interactor class
● A+

	HDA1	HDA2	HDA3
<i>significance</i>	13.0	11.0	9.2
<i>interactor class</i>	A+	A+	A+



bait	HDA3
experiment	14 minutes

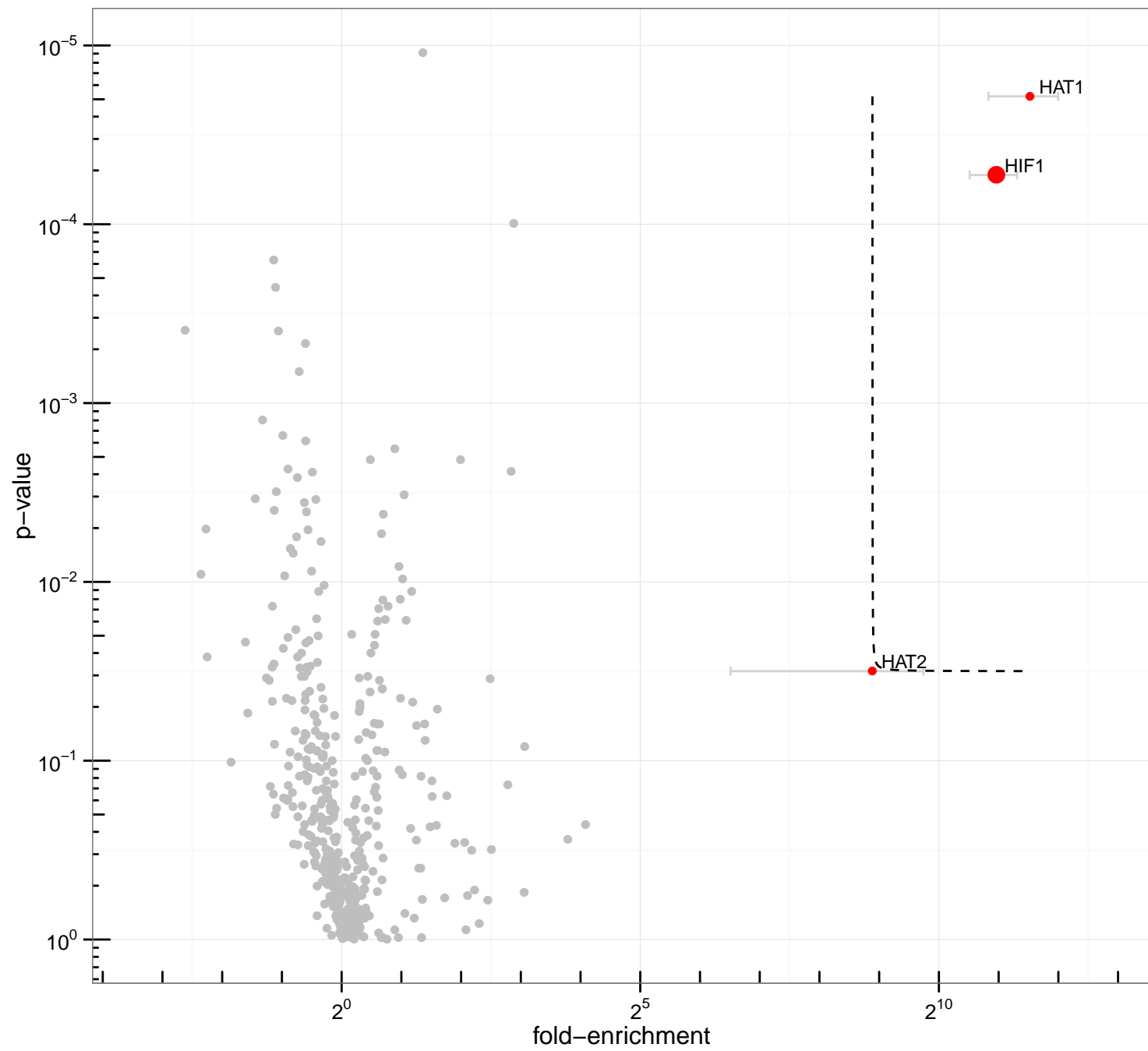
interactors	1
recovery	50 %



	HDA1
<i>significance</i>	6.3
<i>interactor class</i>	A+

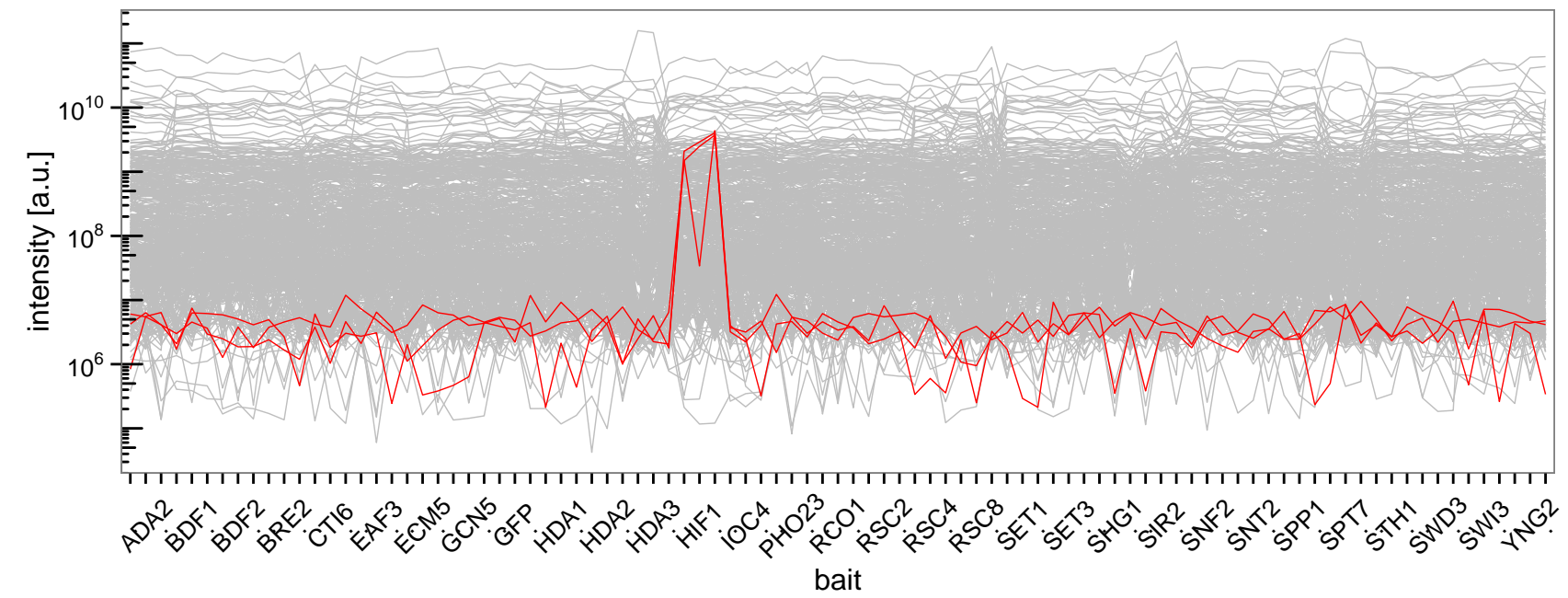
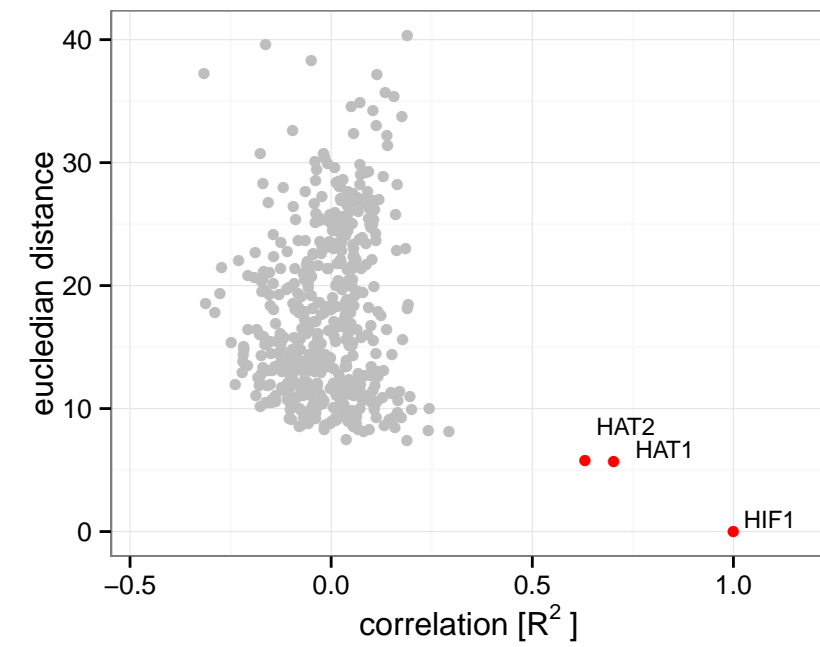
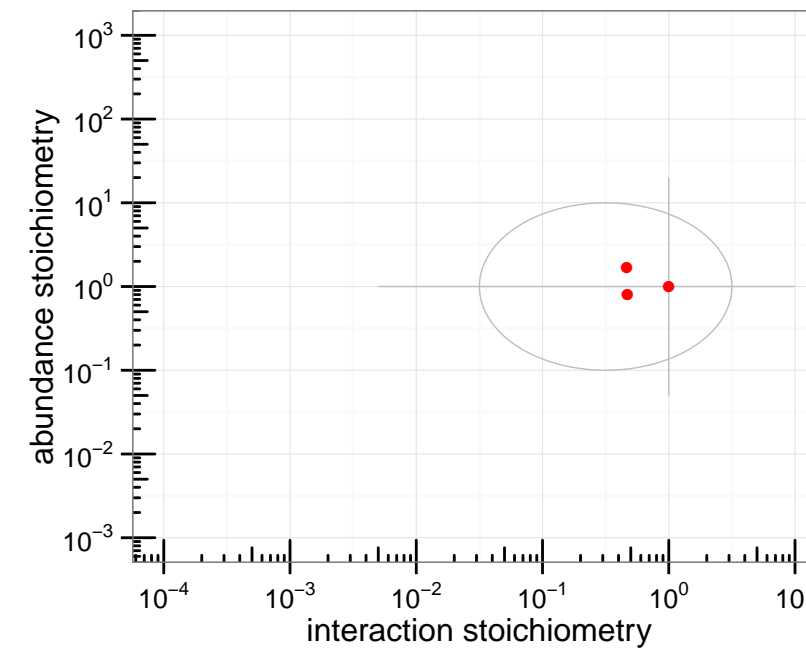
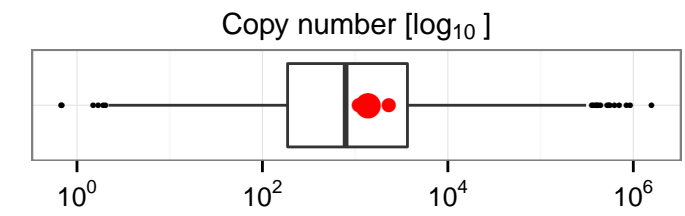
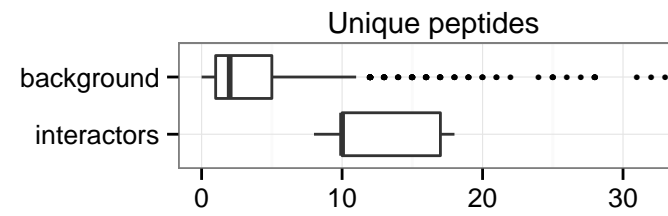
bait	HIF1
experiment	14 minutes

interactors	3
recovery	33 %



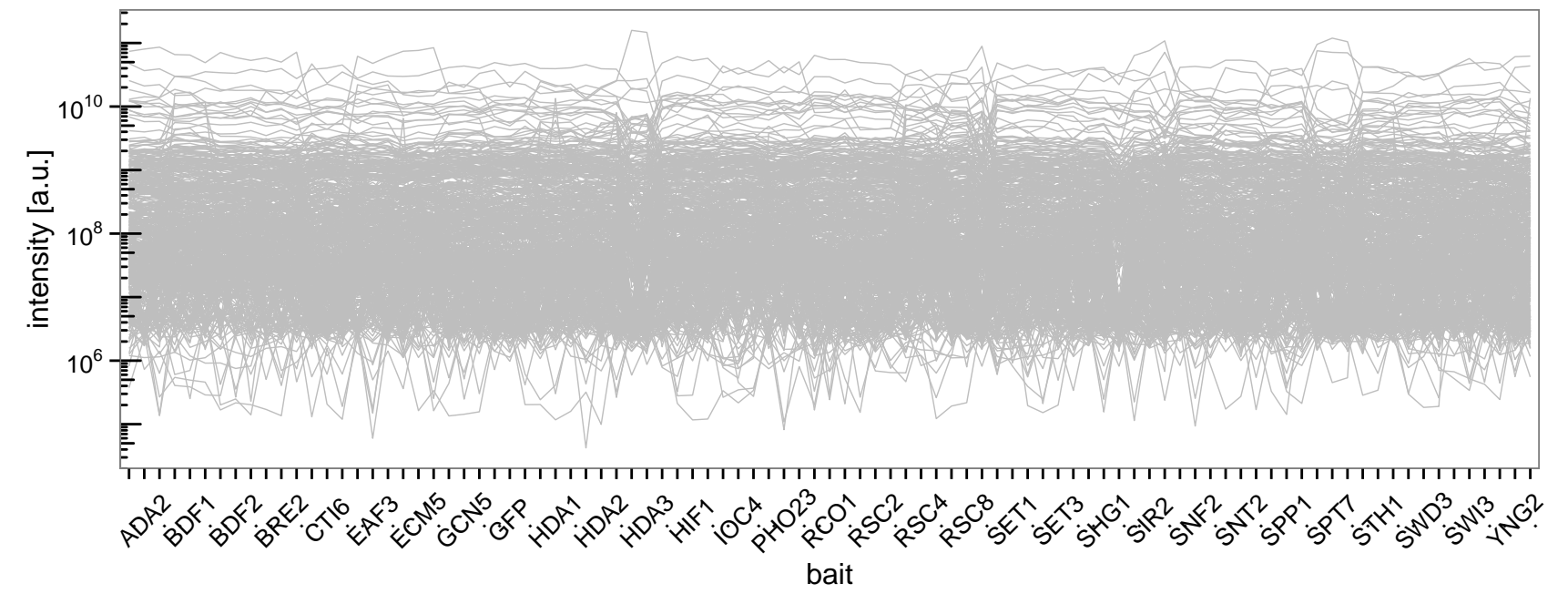
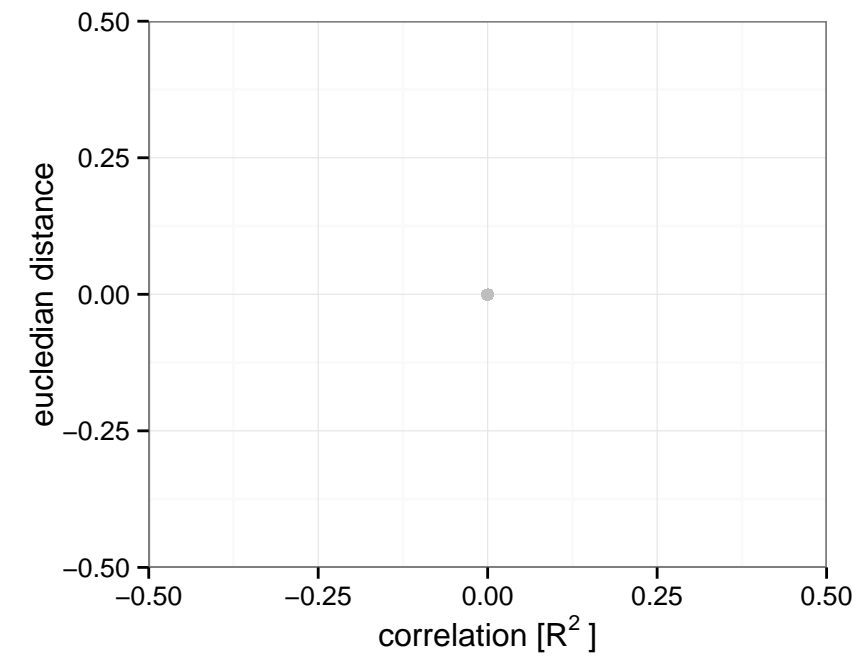
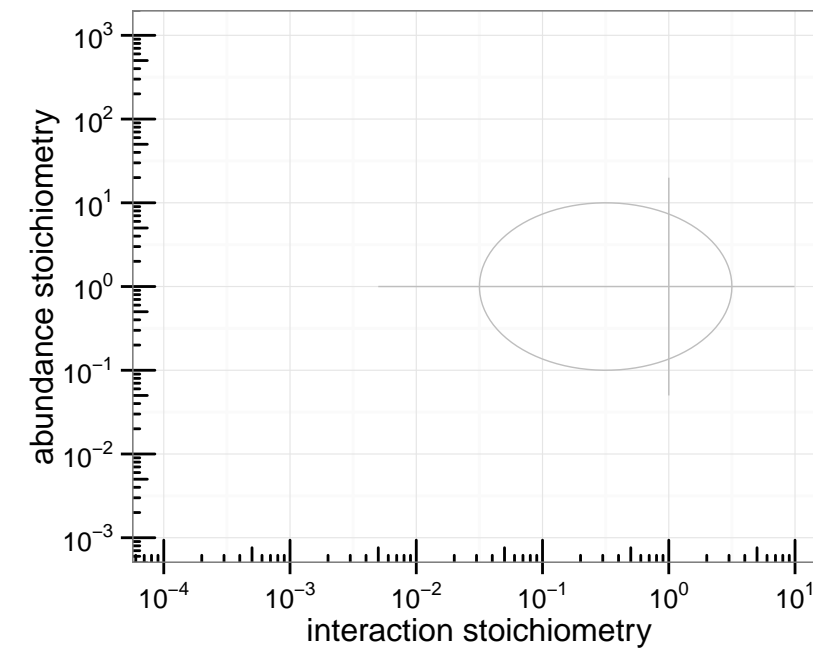
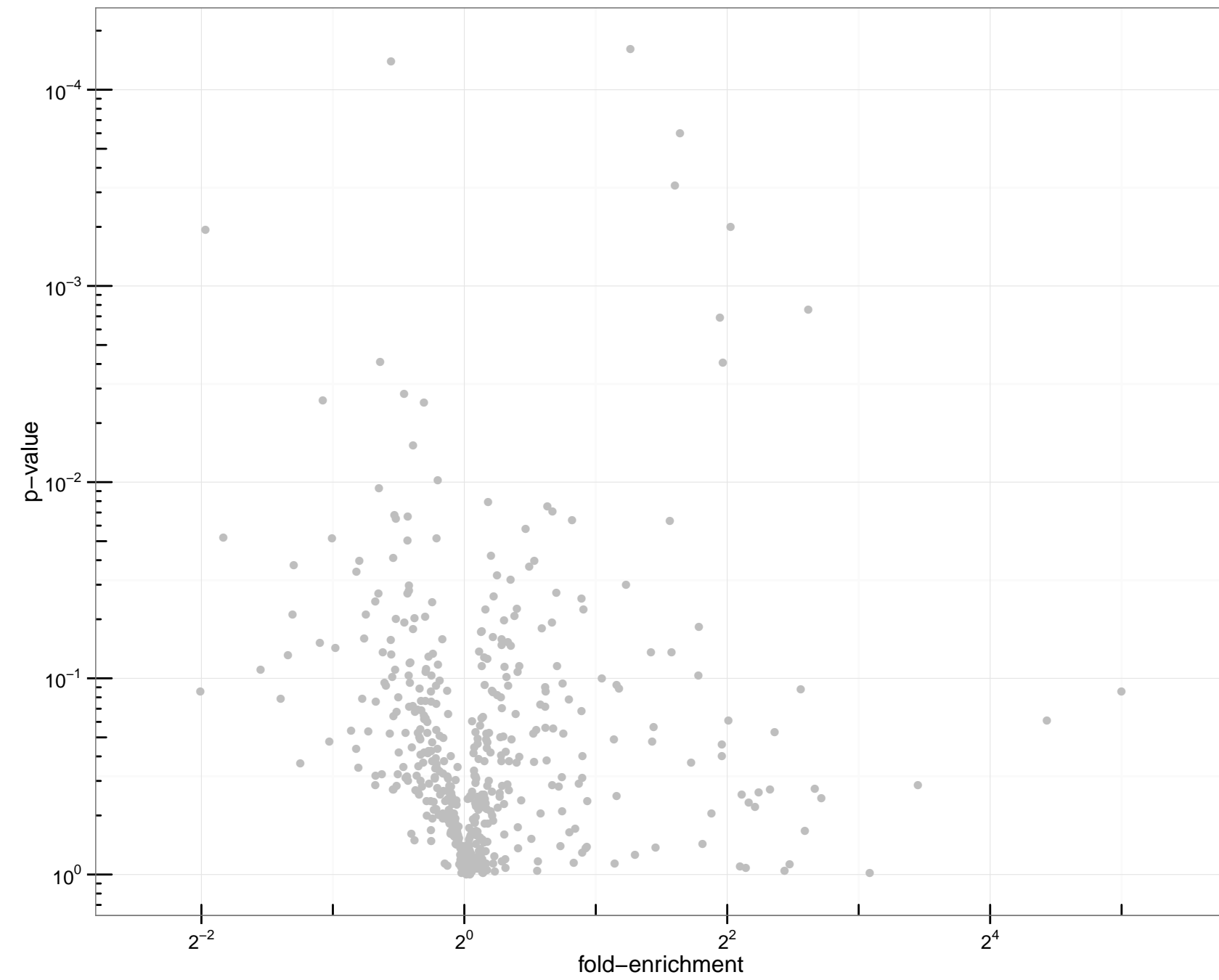
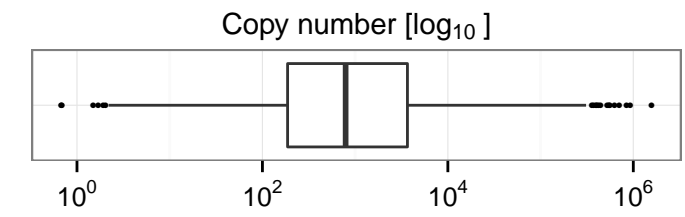
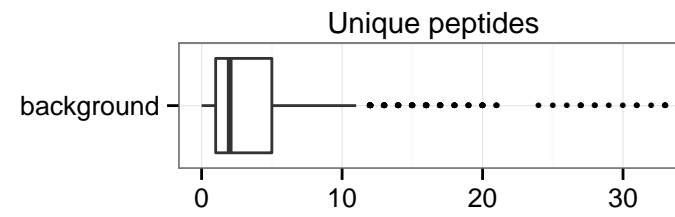
Interactor class
● A+

	HAT1	HAT2	HIF1
<i>significance</i>	12	8	11
<i>interactor class</i>	A+	A+	A+



bait	IOC4
experiment	14 minutes

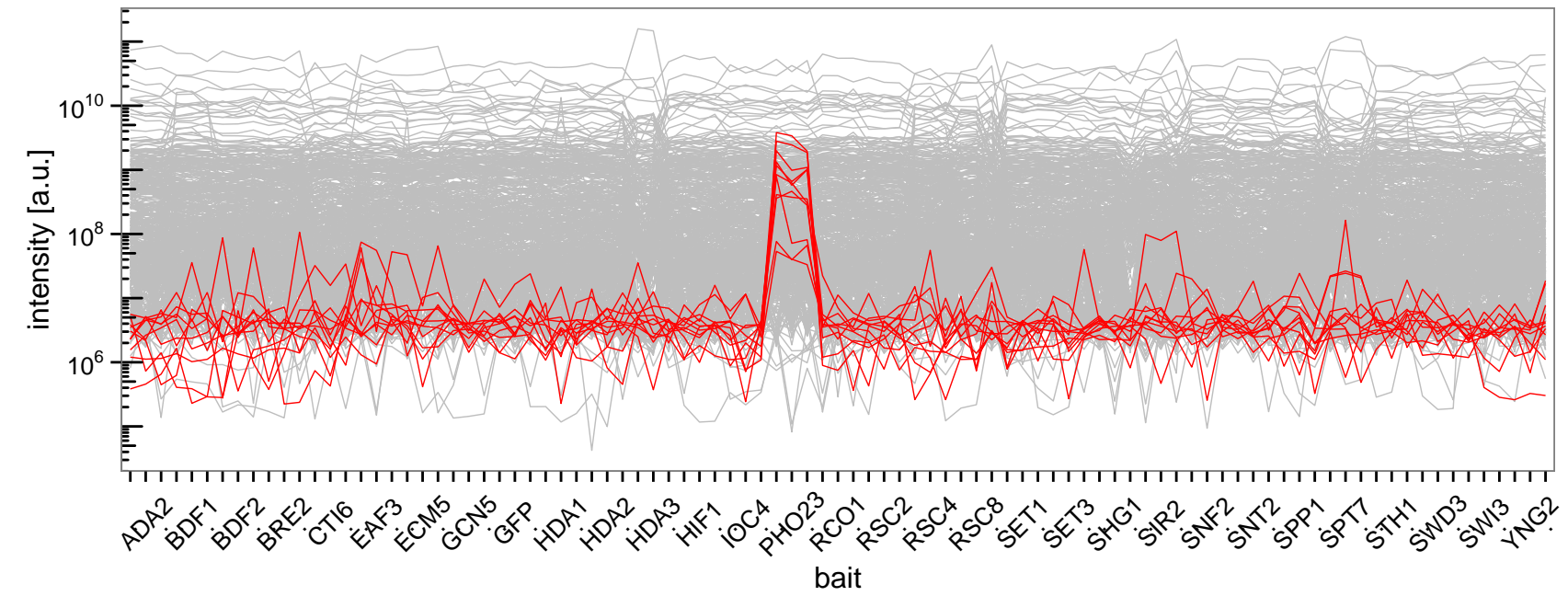
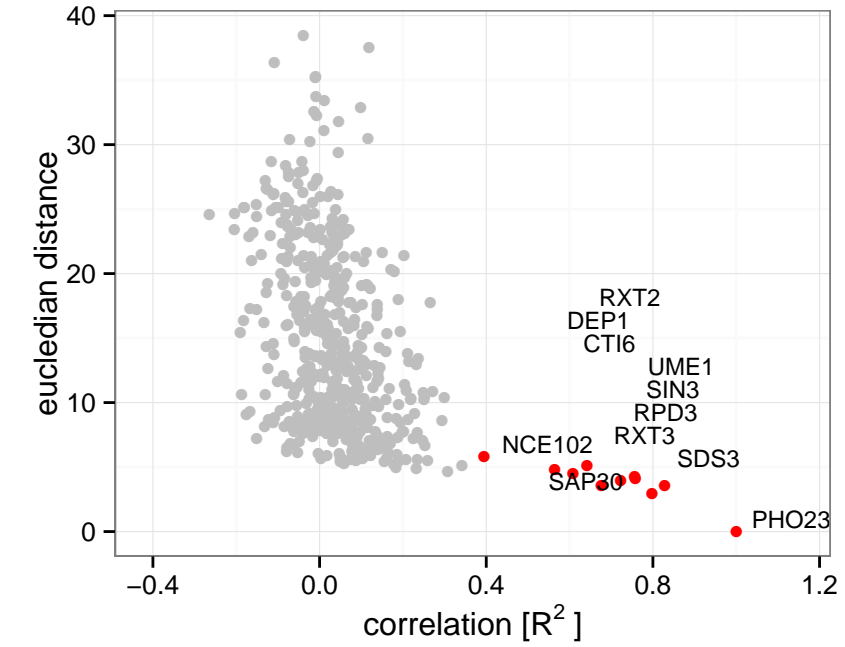
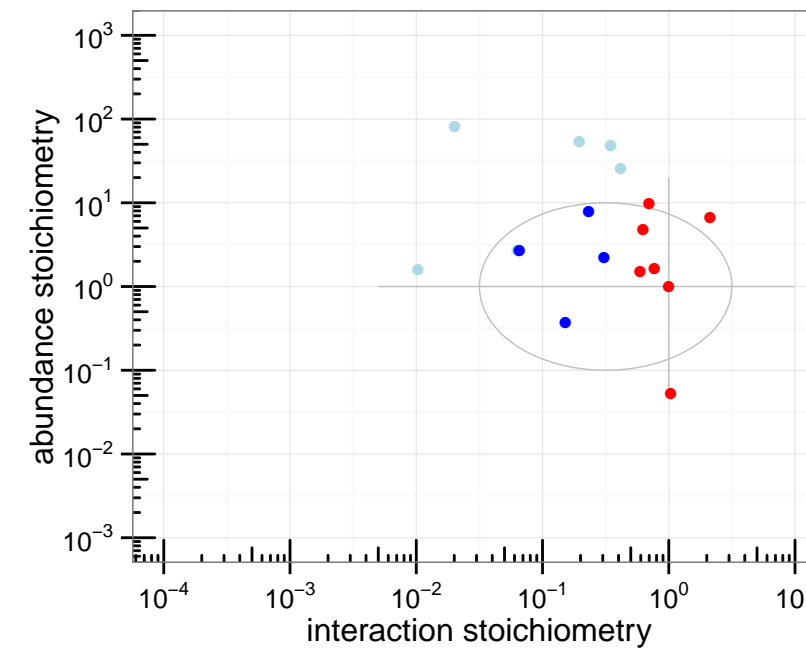
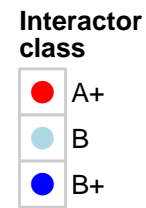
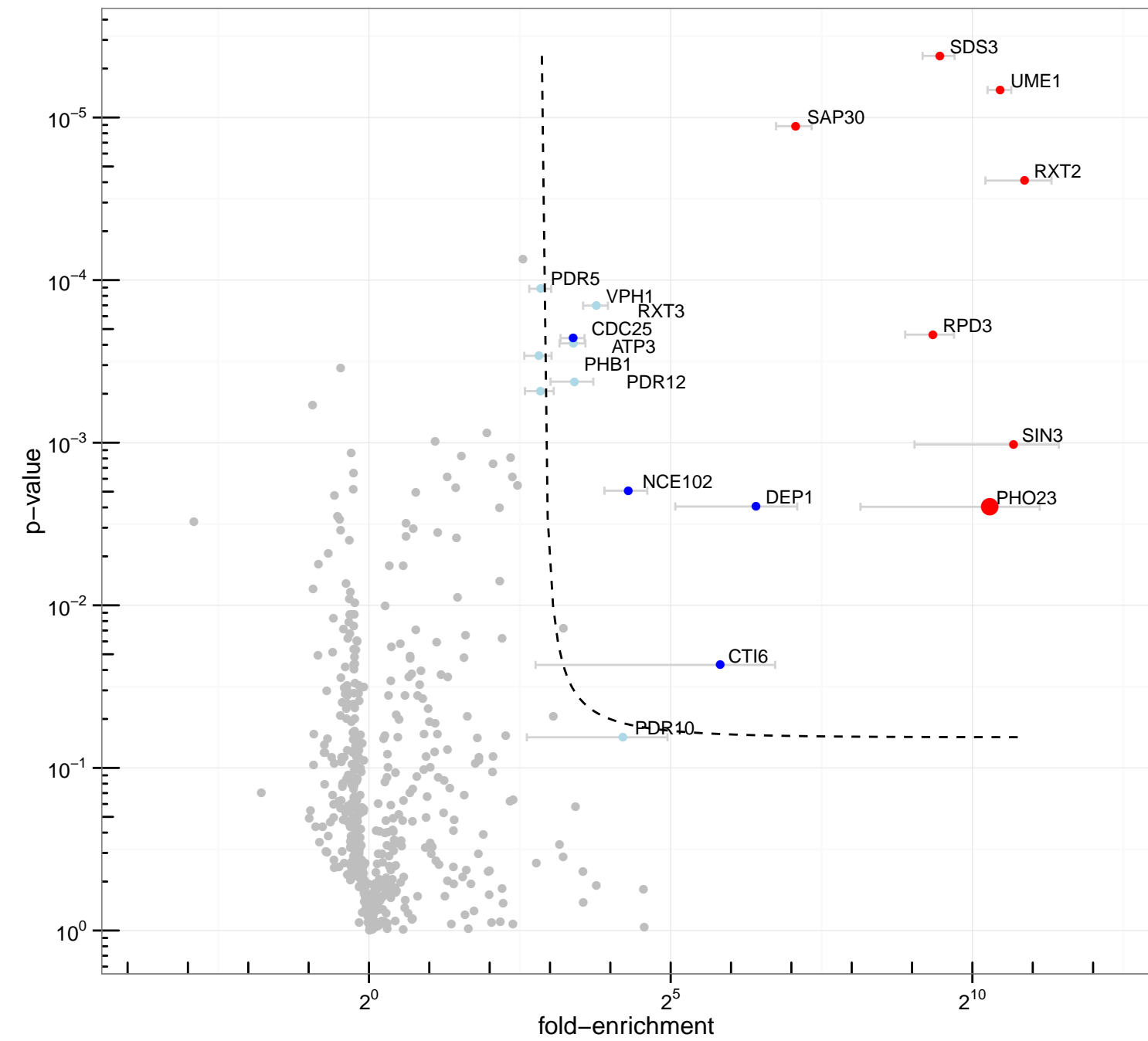
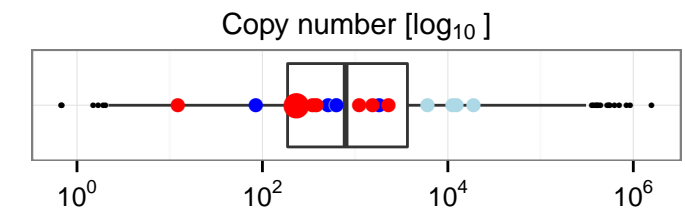
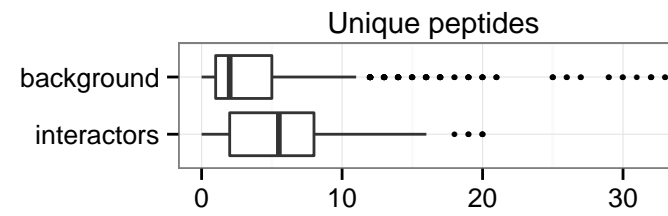
interactors	0
recovery	0 %



significance
interactor class

bait	PHO23
experiment	14 minutes

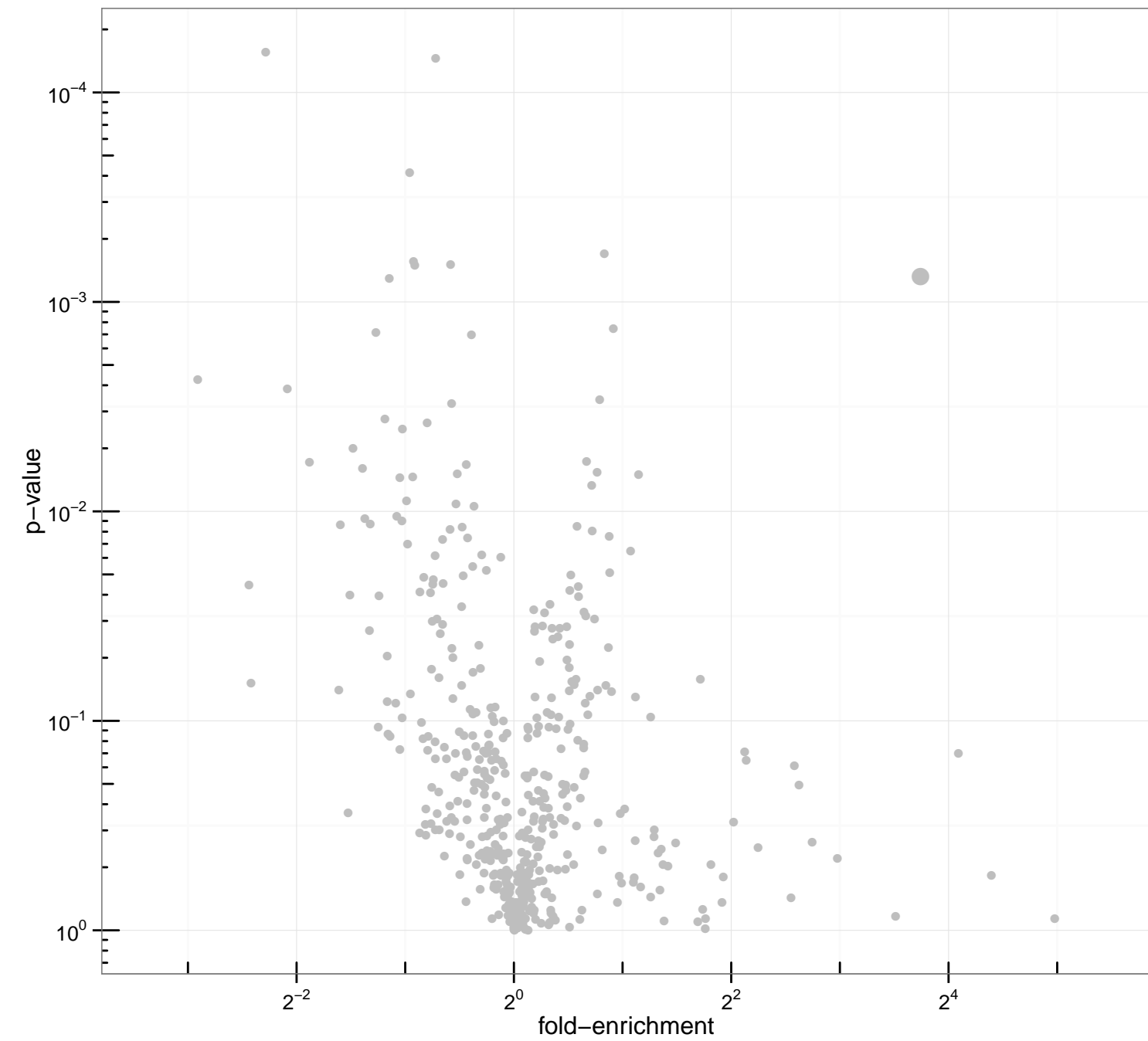
interactors	18
recovery	38 %



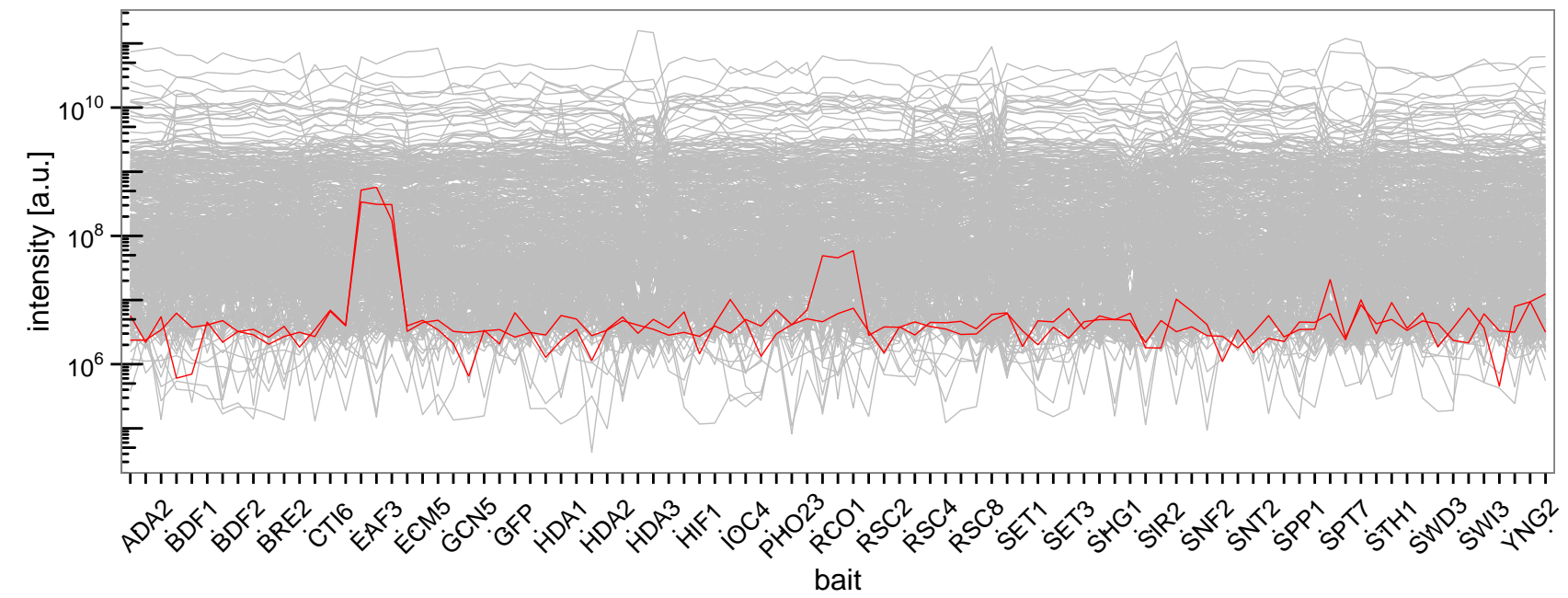
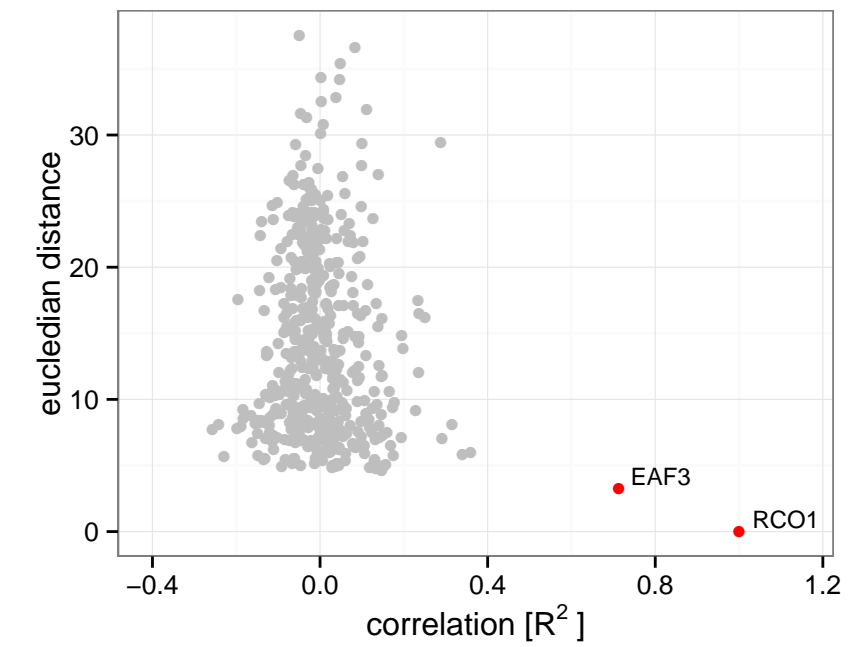
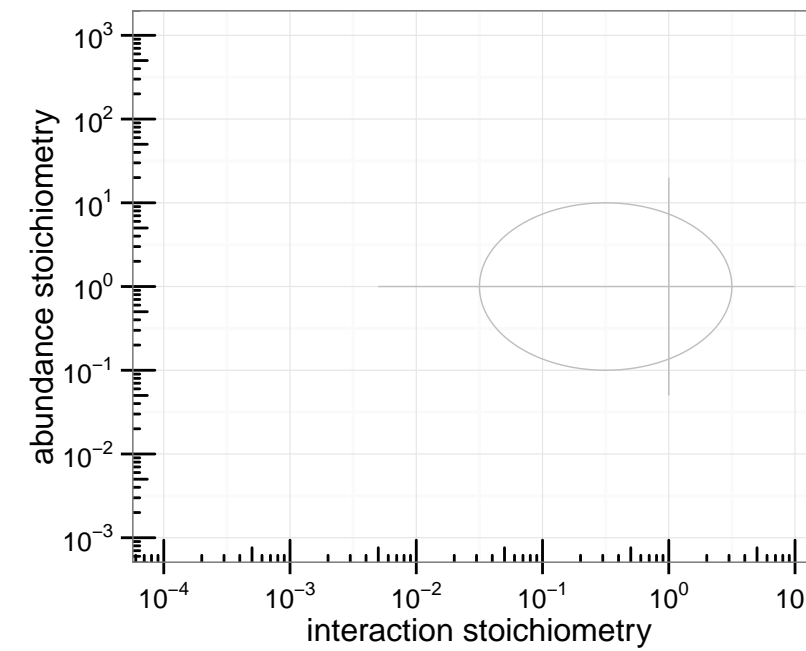
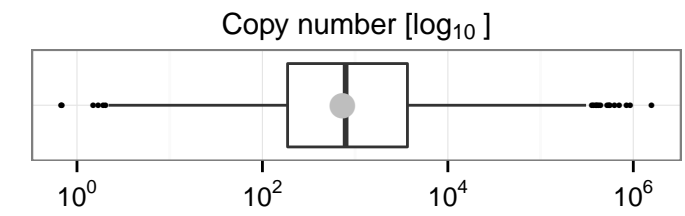
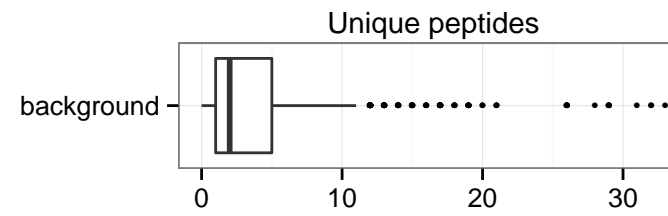
	CTI6	DEP1	NCE102	PHO23	RPD3	RXT2	RXT3	SAP30	SDS3	SIN3	UME1
<i>significance</i>	5.1	6.0	4.3	9.6	9.1	11.0	4.4	7.8	10.0	10.0	11.0
<i>interactor class</i>	B+	B+	B+	A+	A+	A+	B+	A+	A+	A+	A+

bait	RCO1
experiment	14 minutes

interactors	0
recovery	0 %



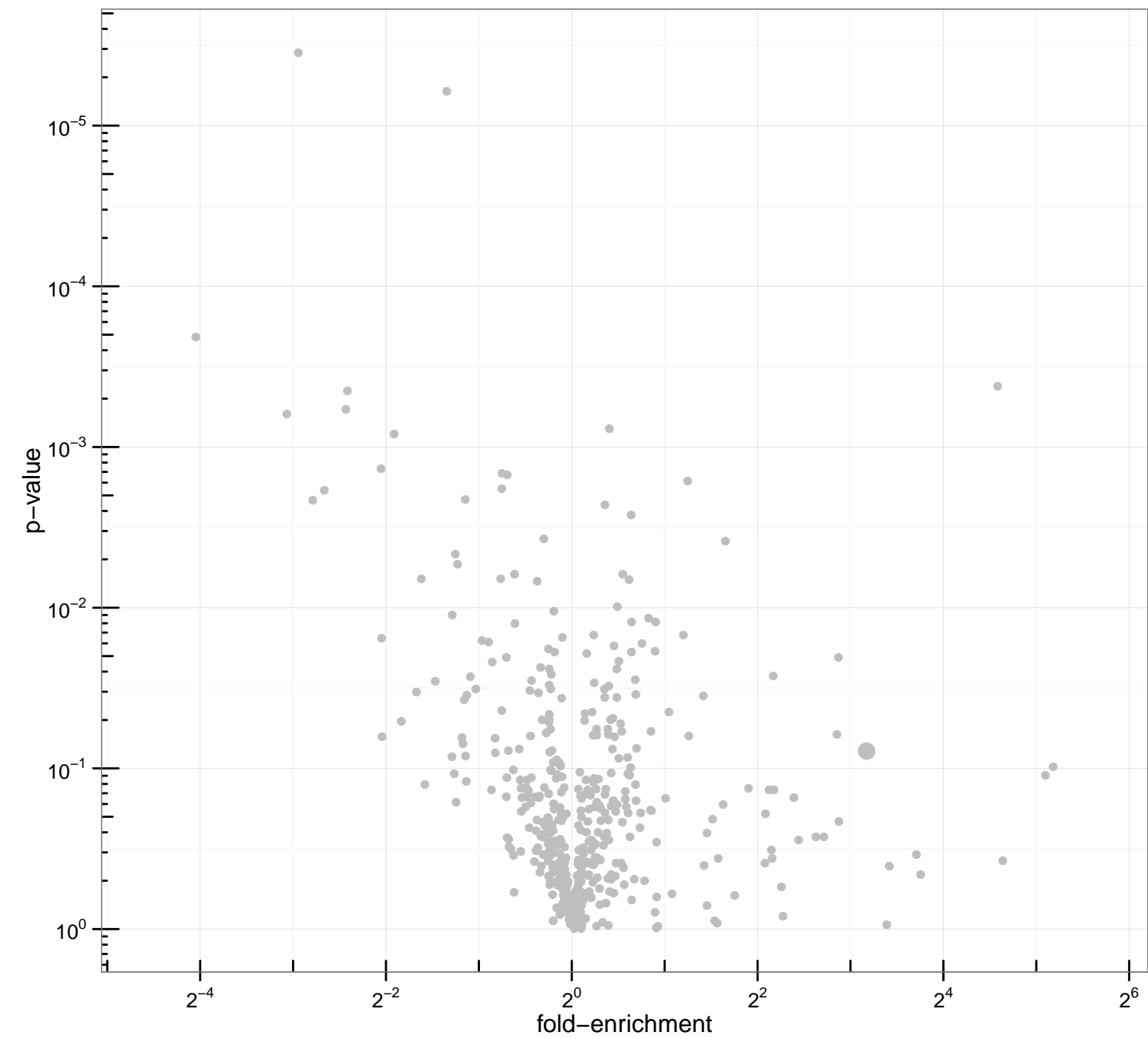
Interactor class
● -



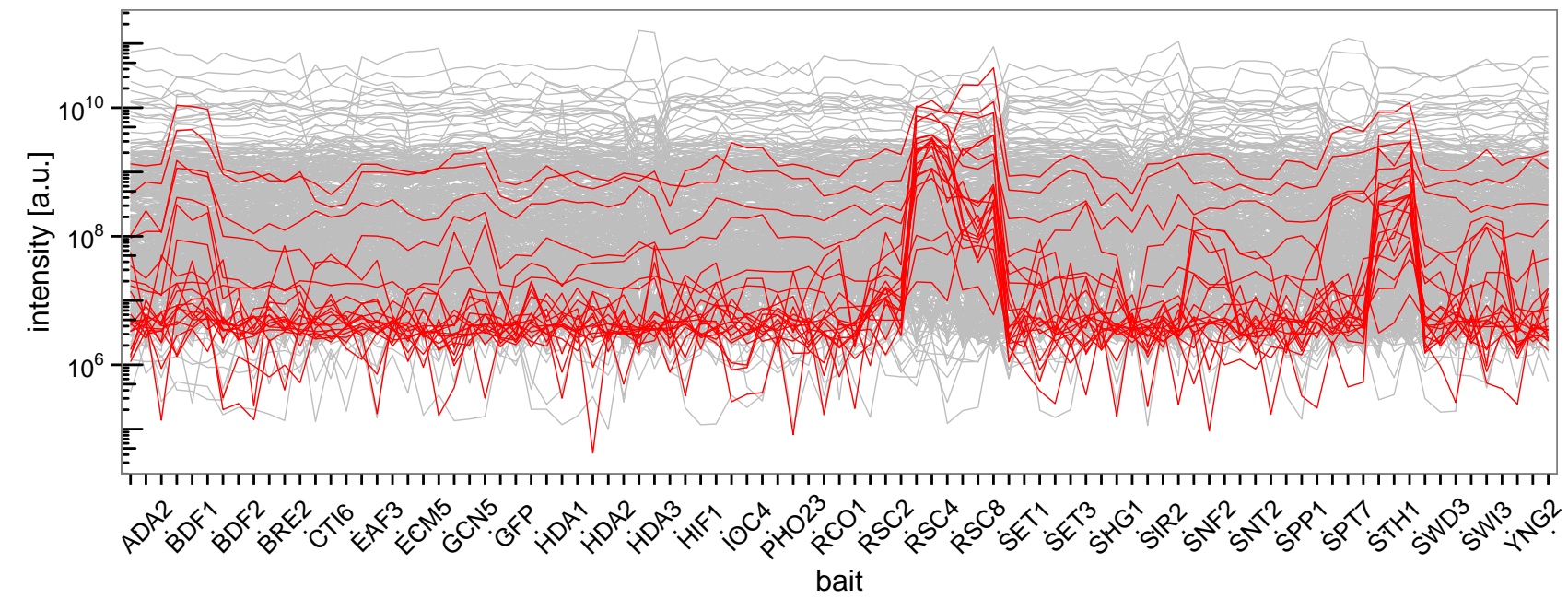
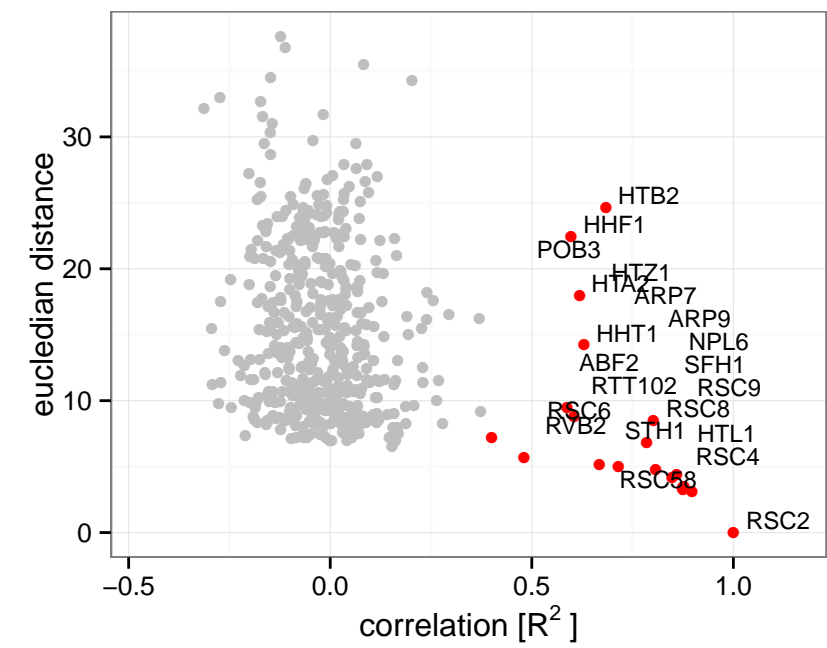
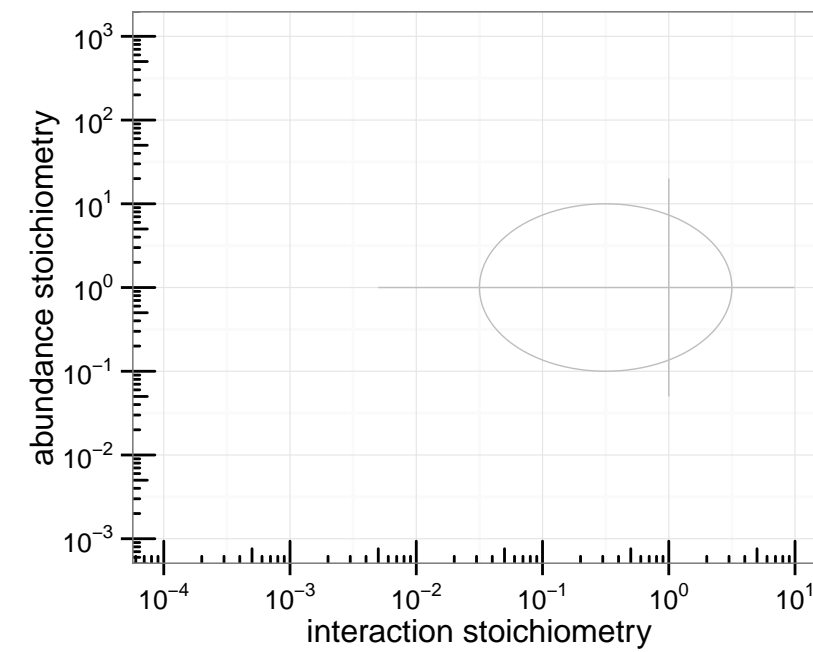
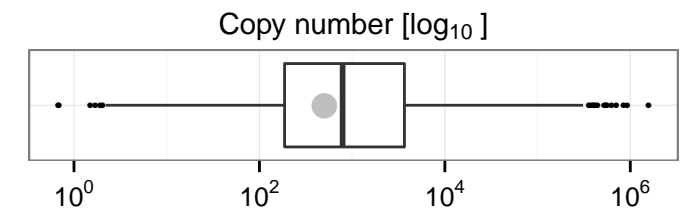
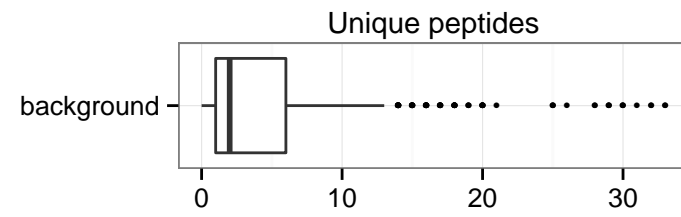
significance
interactor class

bait	RSC2
experiment	14 minutes

interactors	0
recovery	0 %



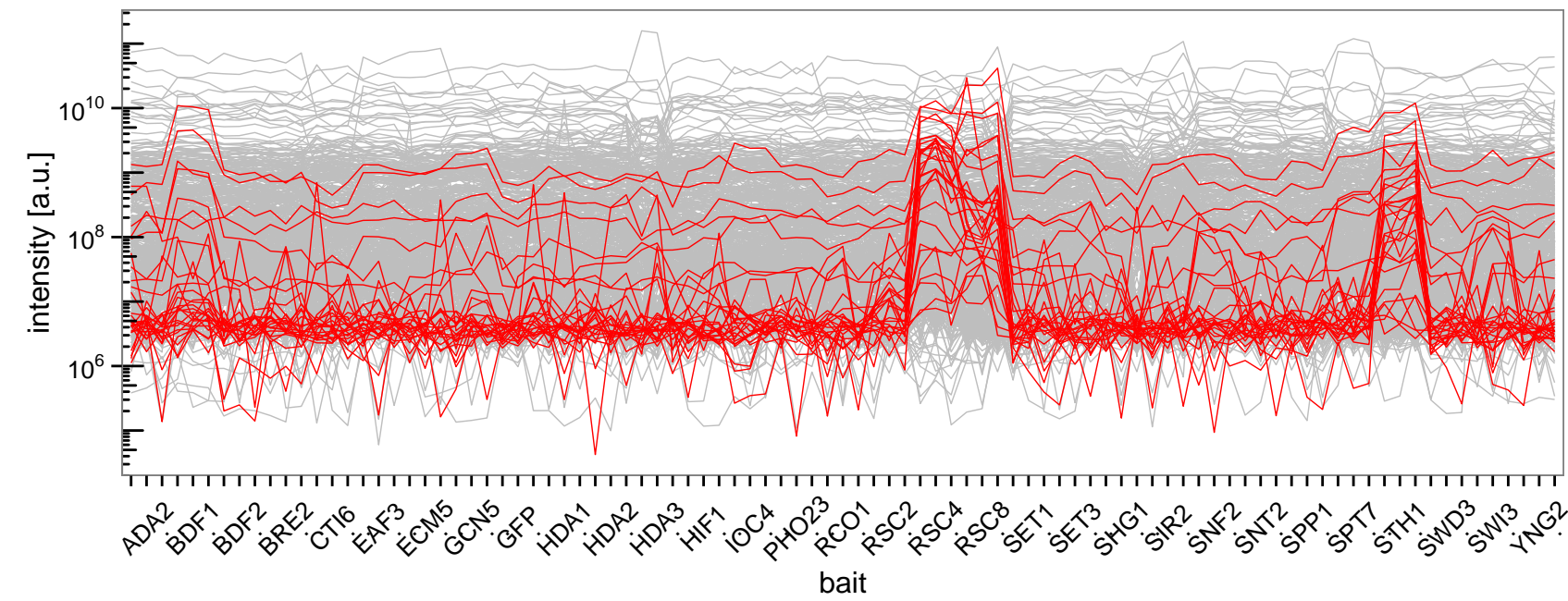
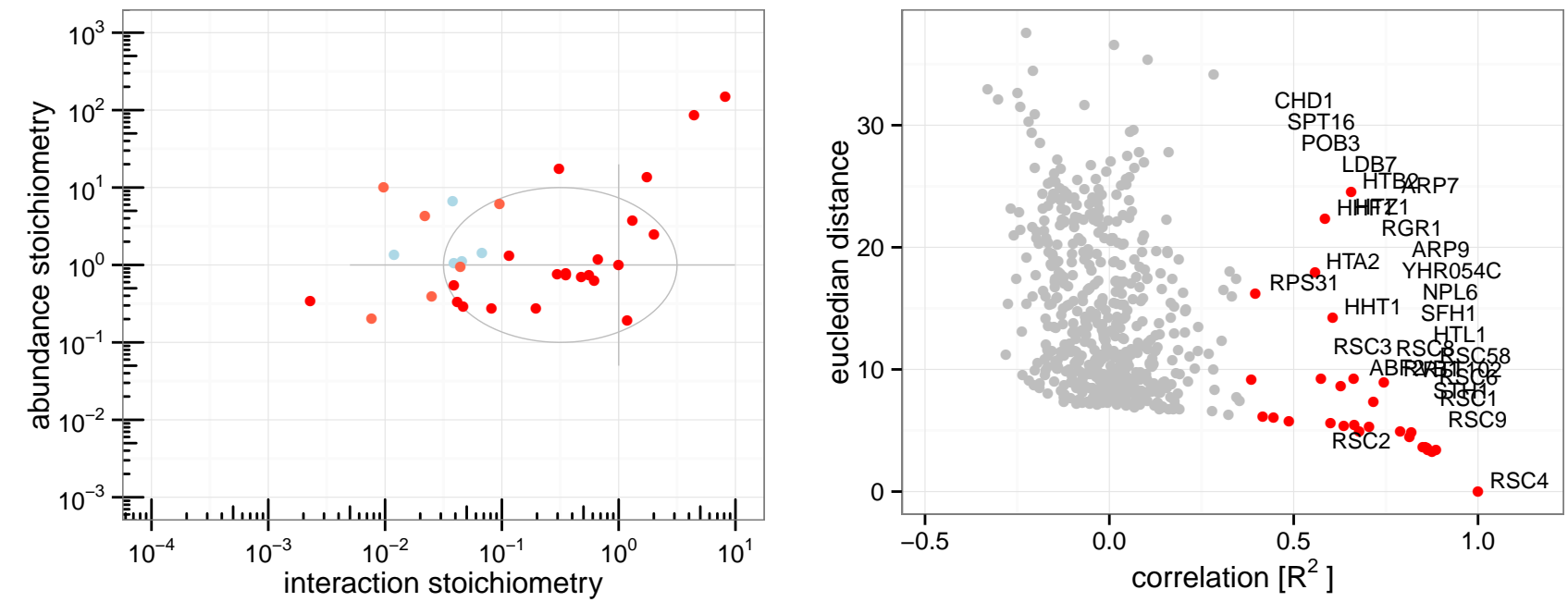
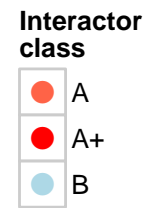
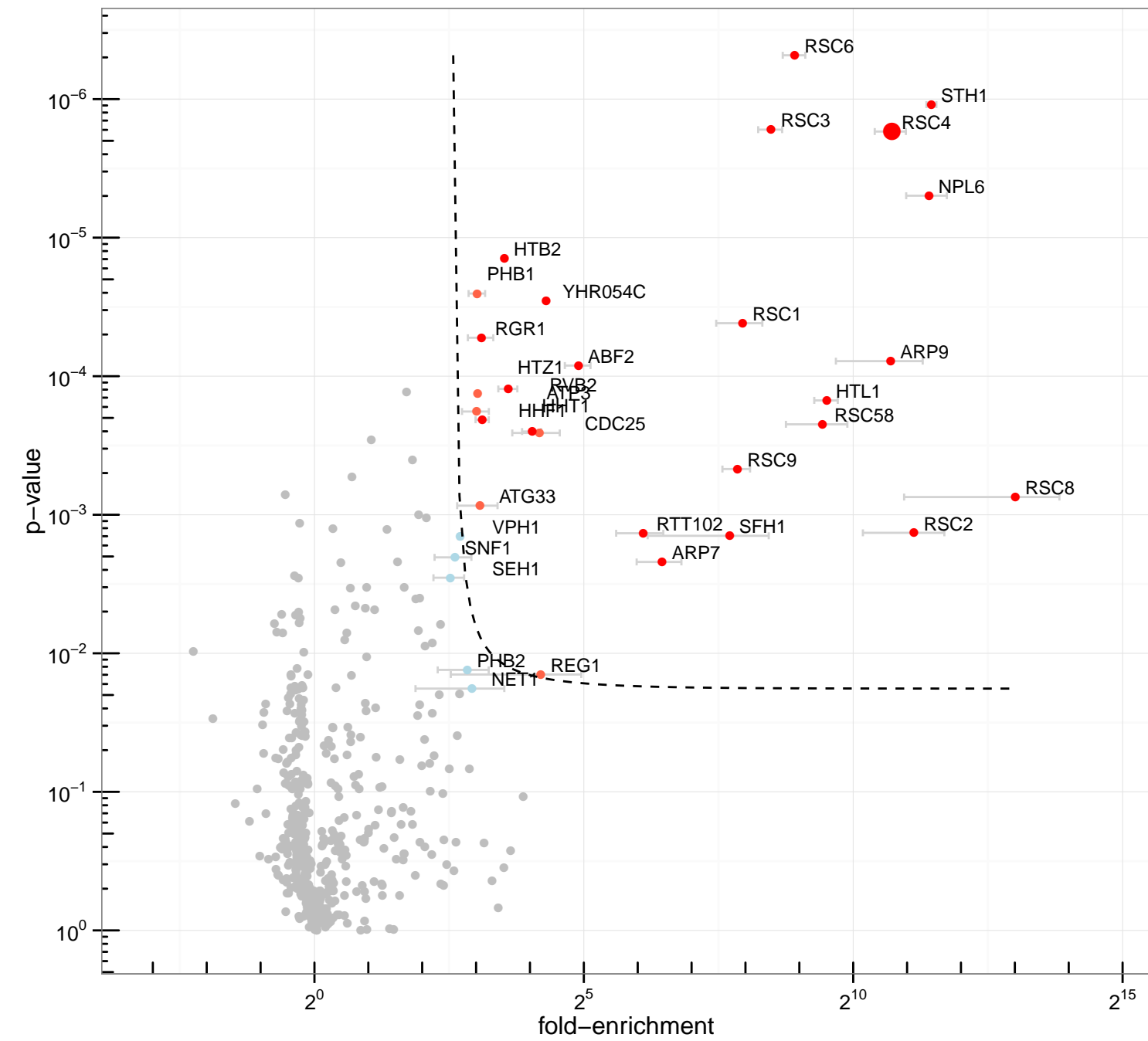
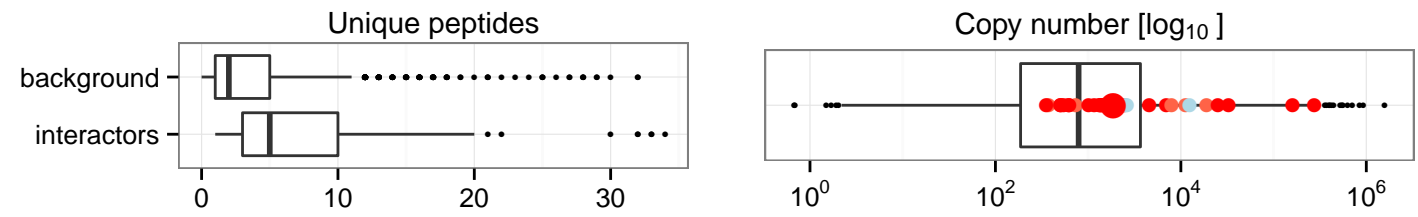
Interactor class
 -



significance
interactor class

bait	RSC4
experiment	14 minutes

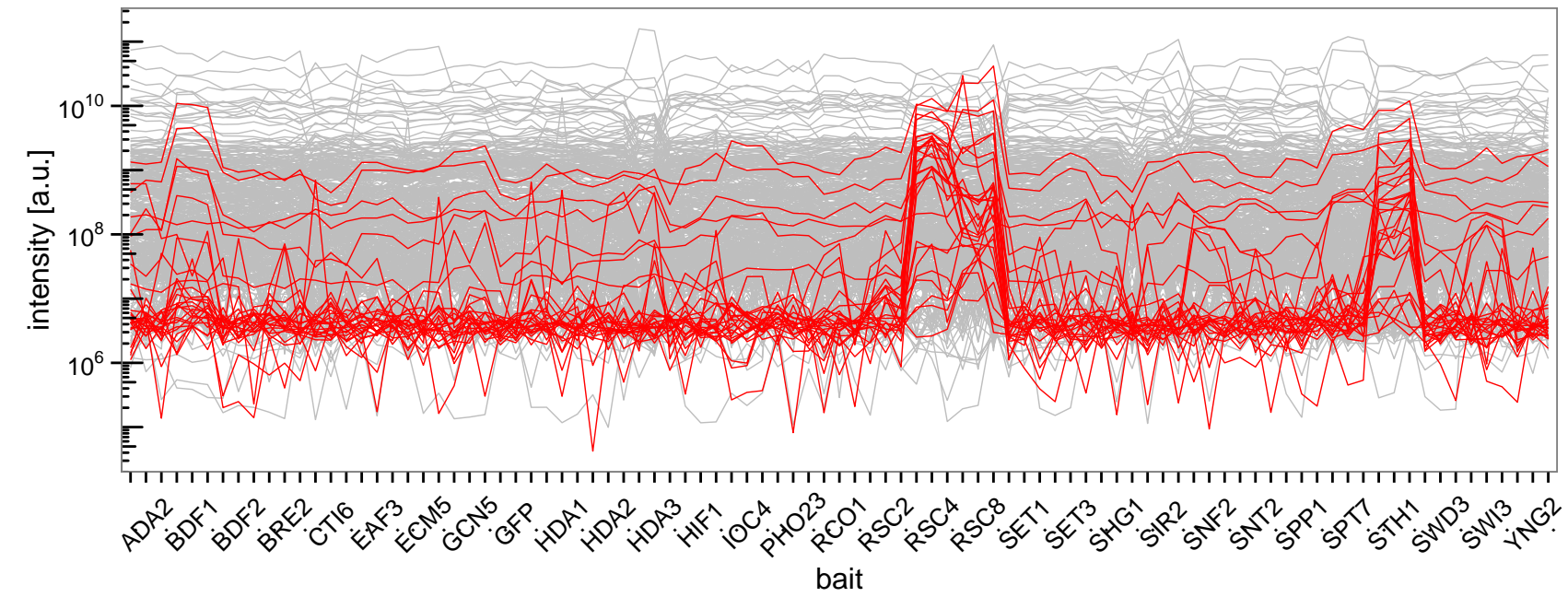
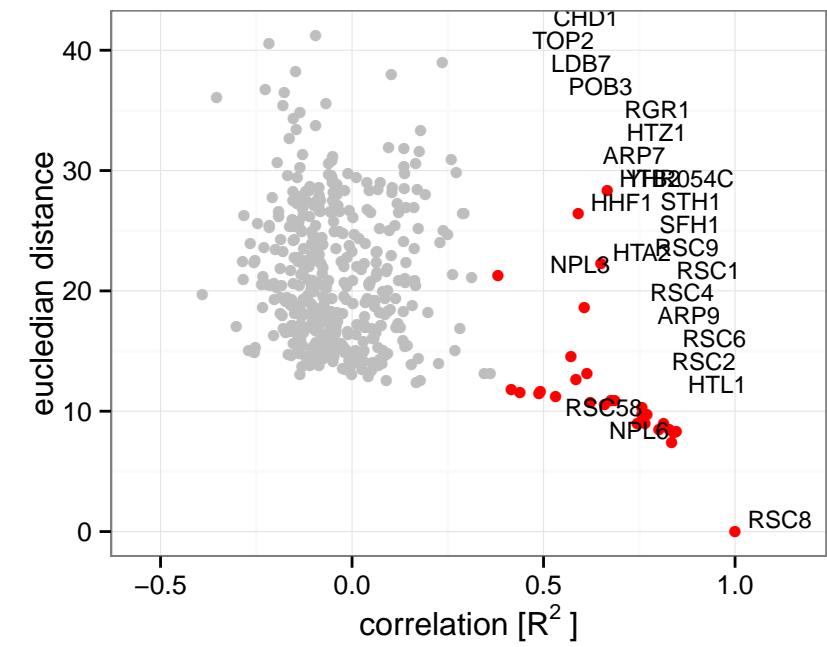
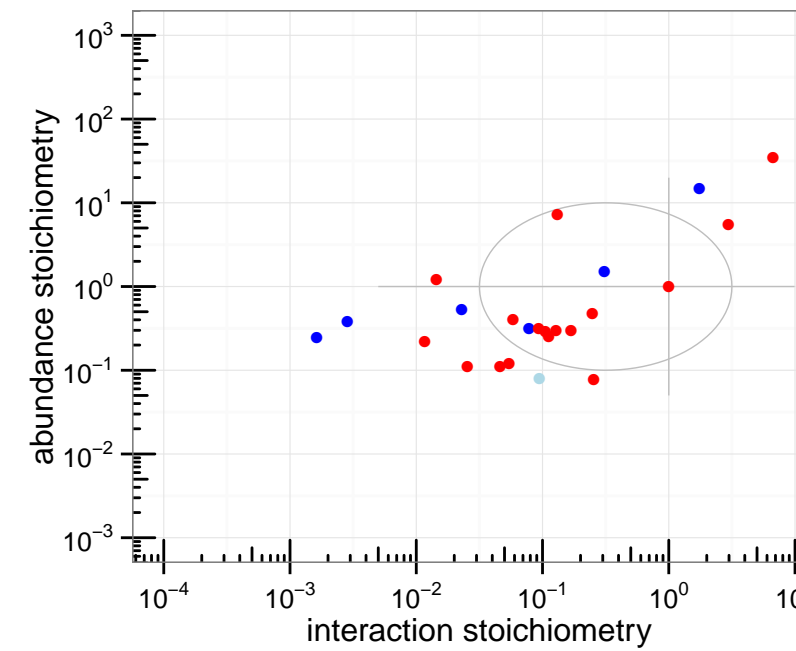
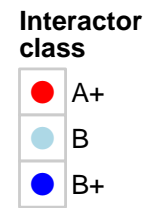
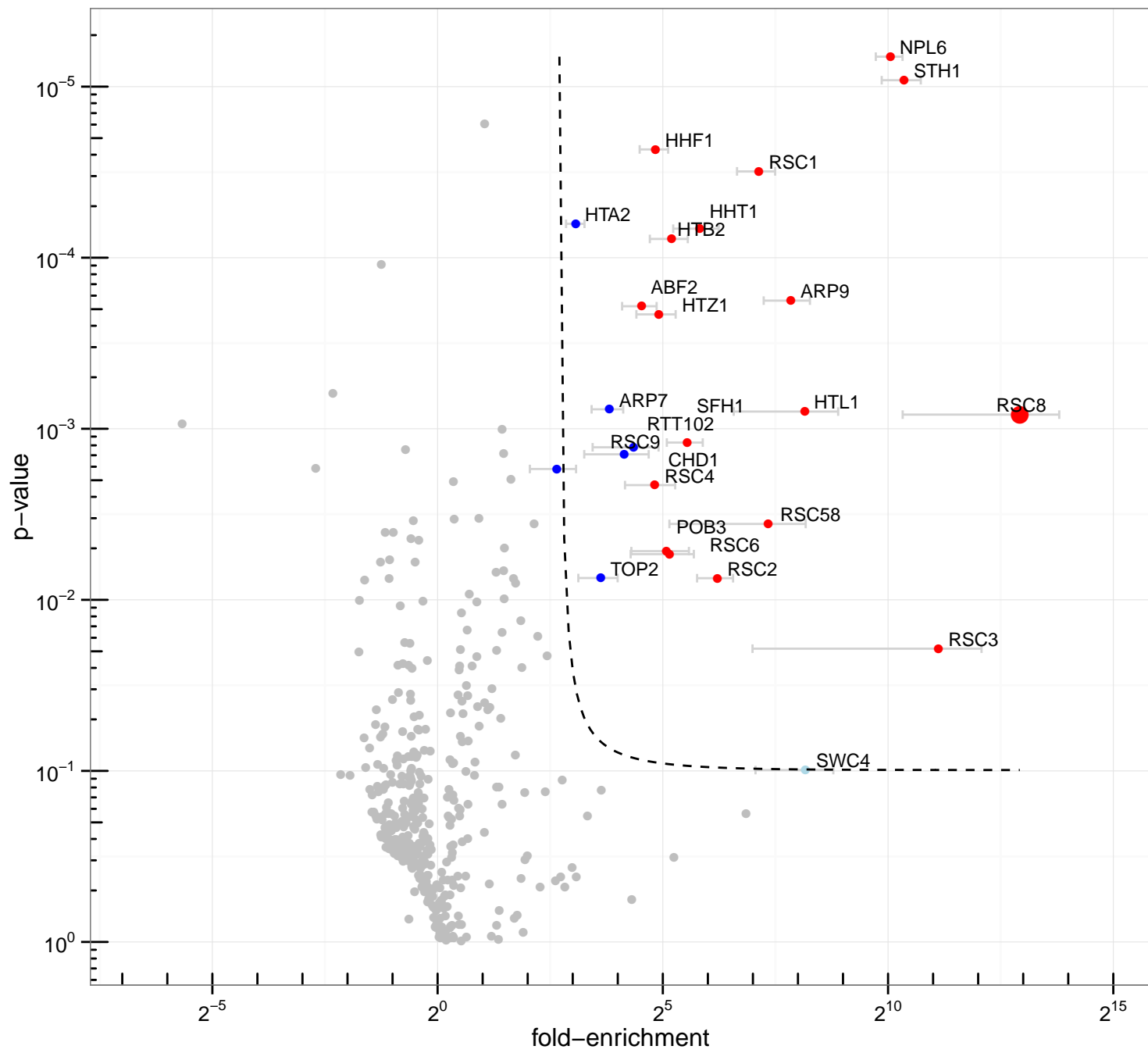
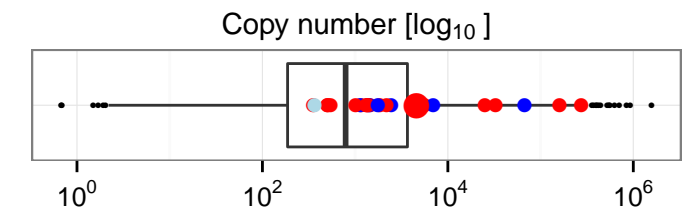
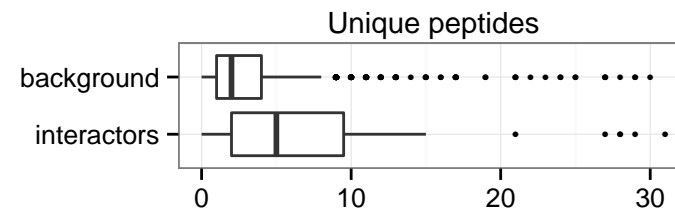
interactors	33
recovery	82 %



	ABF2	ARP7	ARP9	ATG33	ATP3	CDC25	HHF1	HHT1	HTB2	HTL1	HTZ1	NPL6	PHB1	REG1	RGR1	RSC1	RSC2	RSC3	RSC4	RSC58	RSC6	RSC8	RSC9	RTT102	RVB2	SFH1	STH1	YHR054C
<i>significance</i>	5.6	6.1	11.0	3.7	4.2	4.8	4.3	4.7	5.5	9.3	4.7	12.0	5.0	3.7	4.8	8.2	11.0	9.4	11.0	9.2	10.0	12.0	7.6	5.9	4.4	7.3	12.0	5.6
<i>interactor class</i>	A+	A+	A+	A	A	A	A+	A+	A+	A+	A+	A+	A	A	A+	A+	A+	A+	A+	A+	A+	A+	A+	A+	A	A+	A+	A+

bait	RSC8
experiment	14 minutes

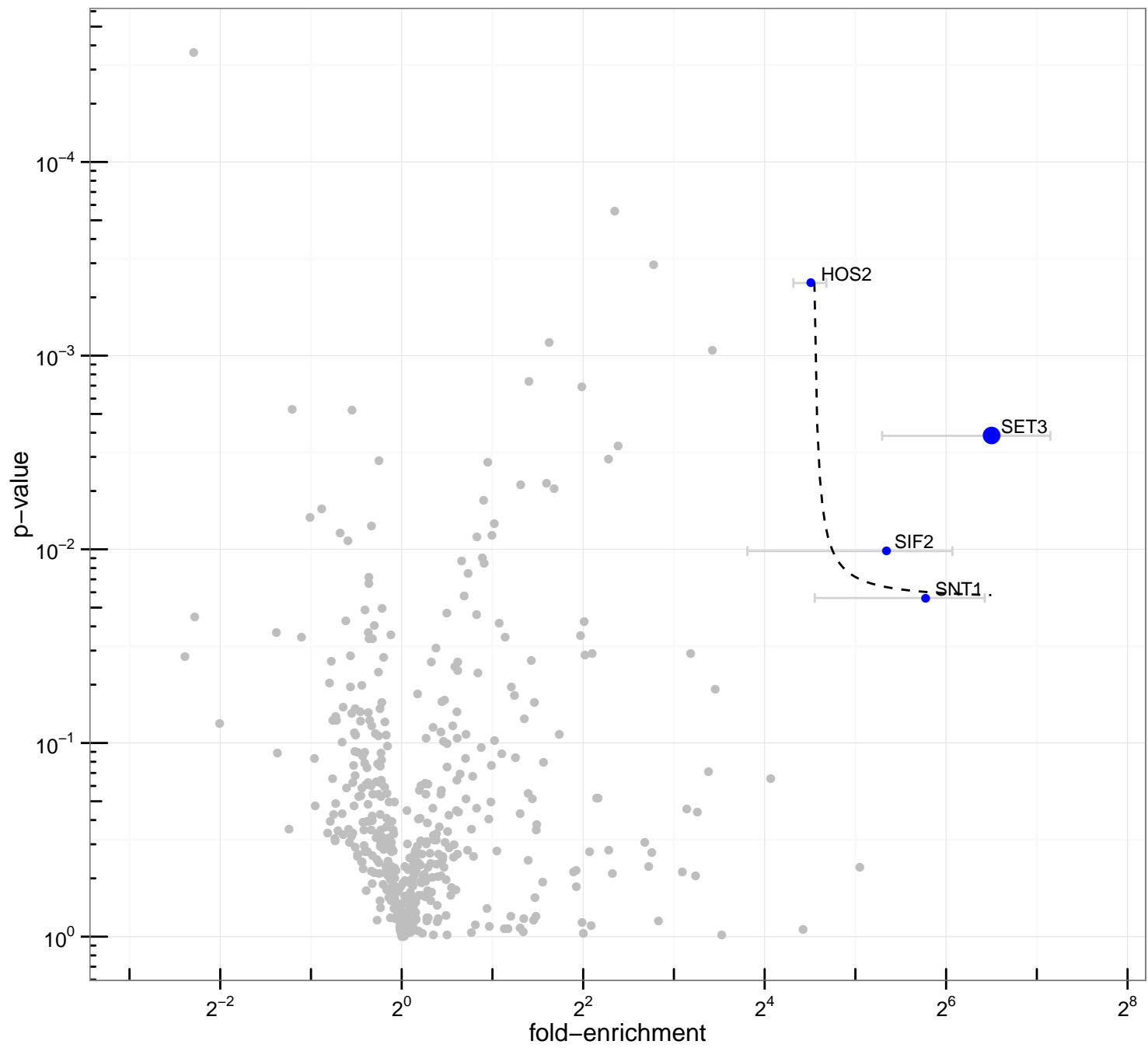
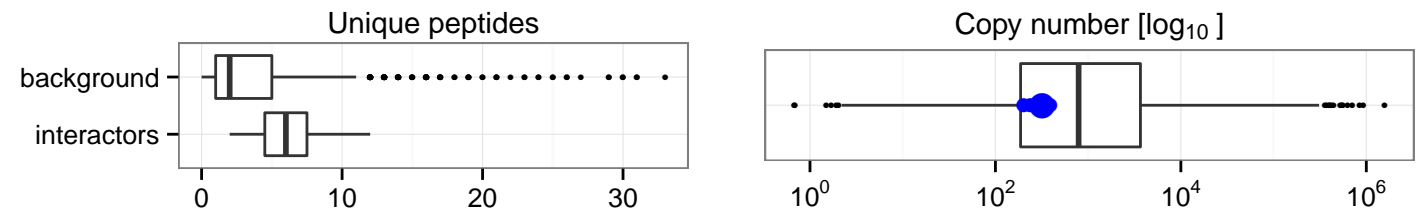
interactors	25
recovery	82 %



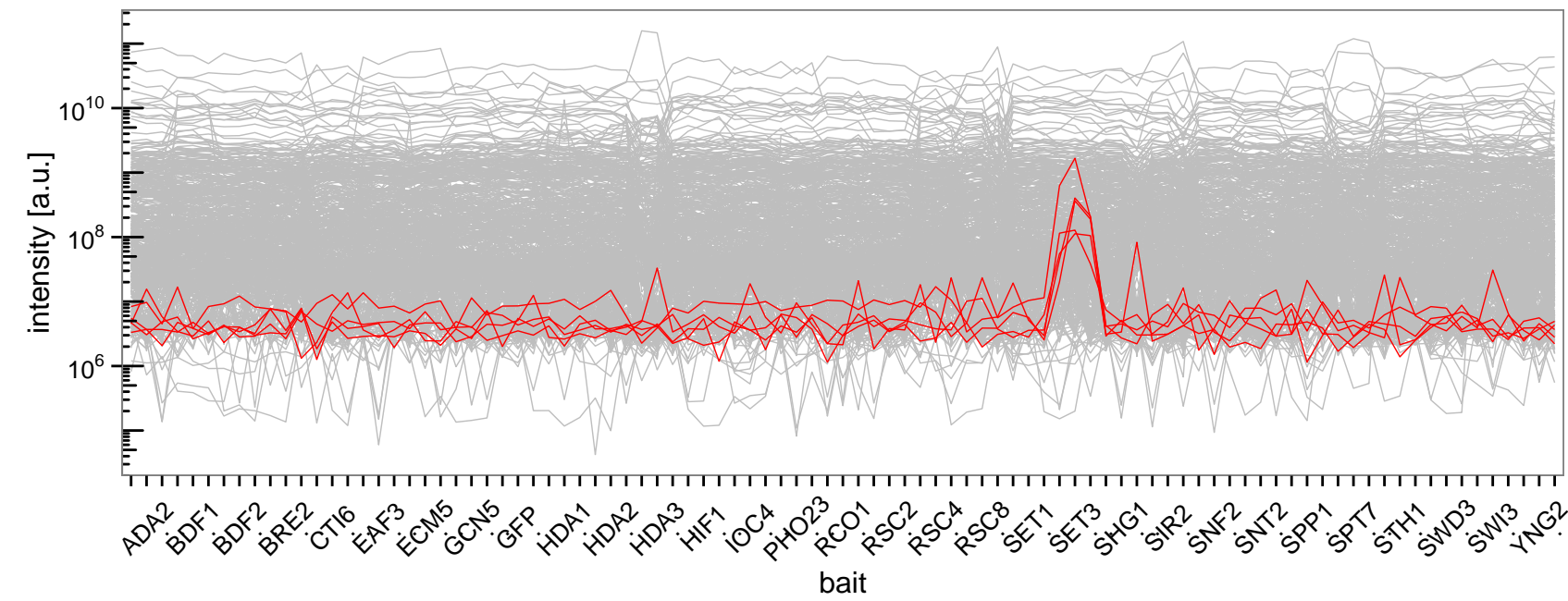
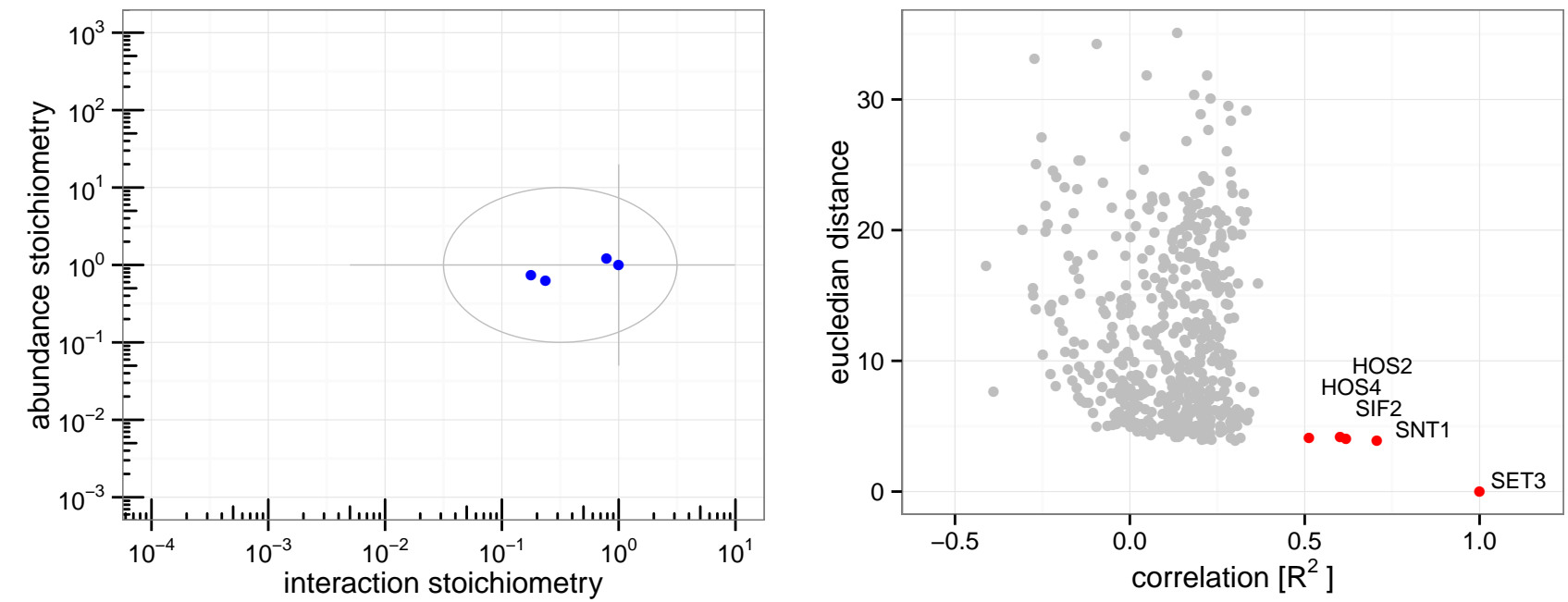
	ABF2	ARP7	ARP9	CHD1	HHF1	HHT1	HTA2	HTB2	HTL1	HTZ1	NPL6	POB3	RSC1	RSC2	RSC3	RSC4	RSC58	RSC6	RSC8	RSC9	RTT102	SFH1	STH1	TOP2
<i>significance</i>	5.1	4.2	7.8	3.2	6.0	6.4	4.7	5.9	7.8	5.4	10.0	4.7	7.6	5.6	10.0	4.7	6.8	4.7	12.0	4.2	4.4	5.4	11.0	3.4
<i>interactor class</i>	A+	B+	A+	B+	A+	A+	B+	A+	A+	A+	A+	A+	A+	A+	A+	A+	A+	A+	A+	B+	B+	A+	A+	B+

bait	SET3
experiment	14 minutes

interactors	4
recovery	18 %



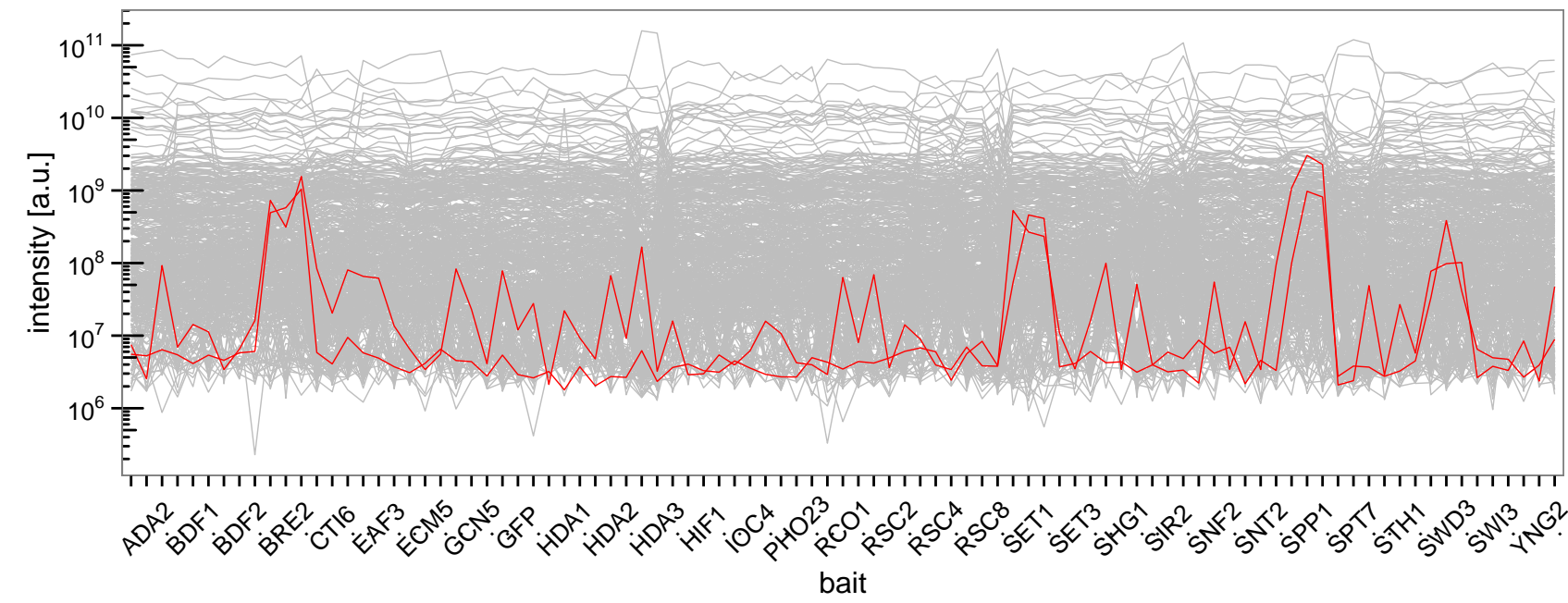
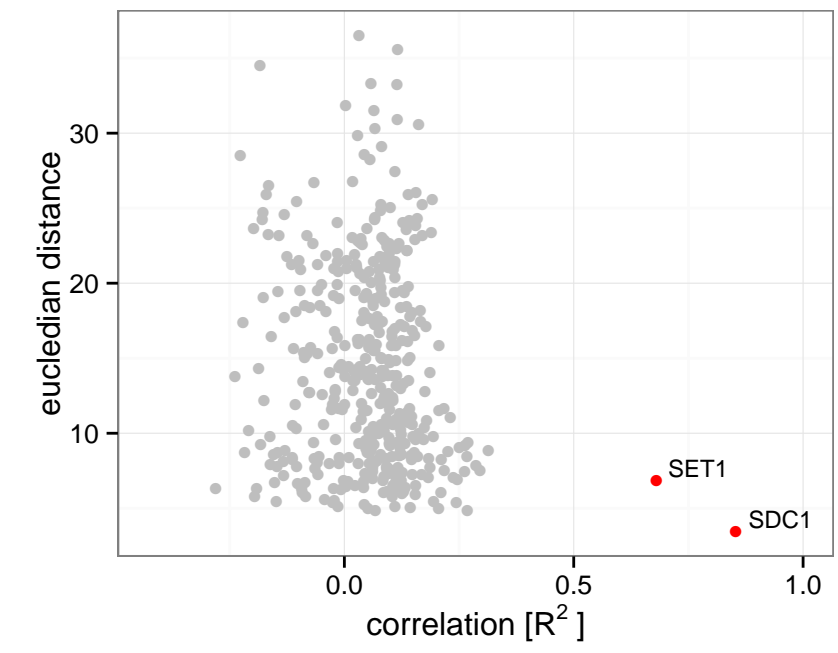
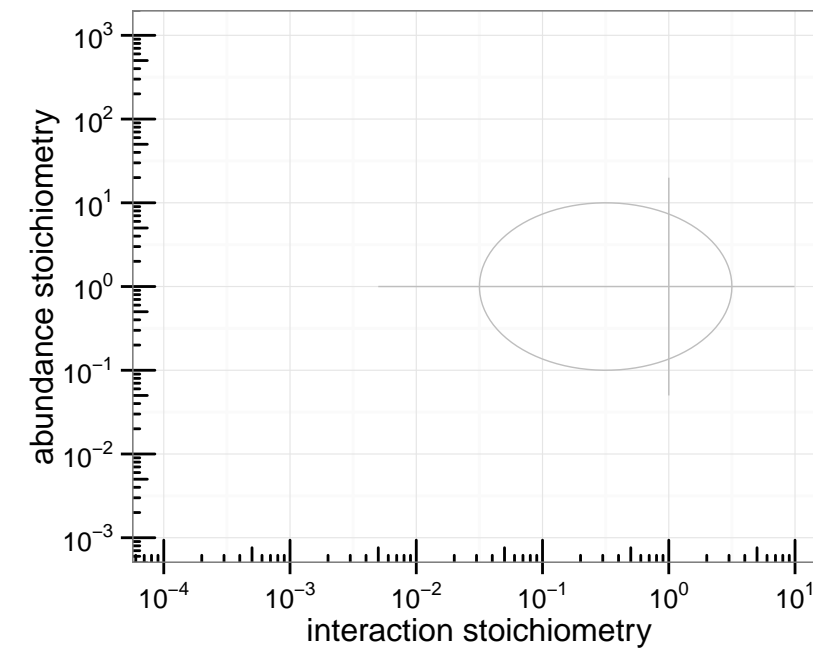
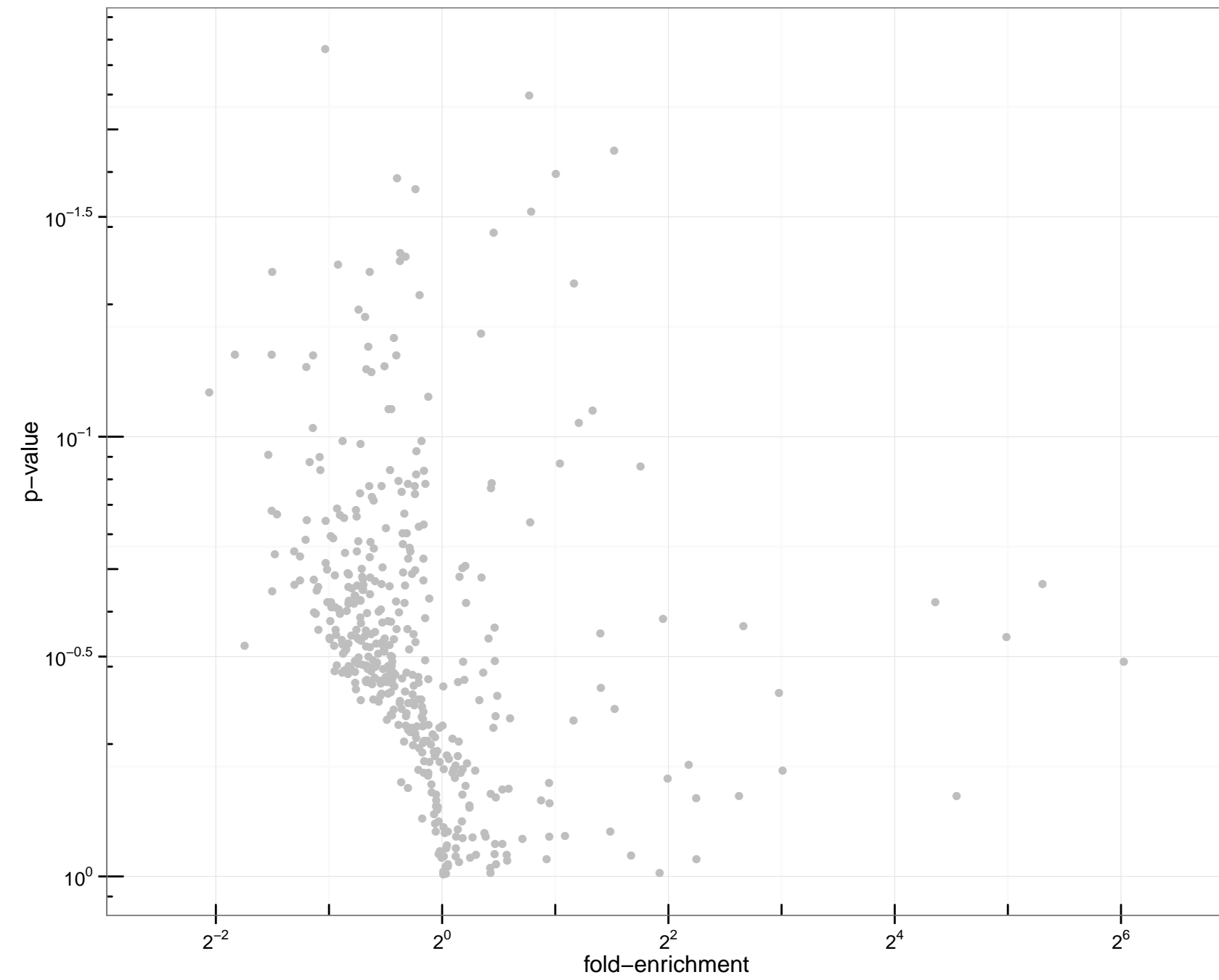
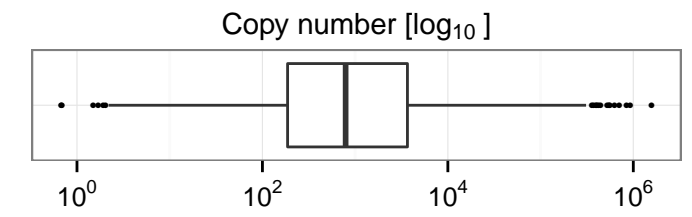
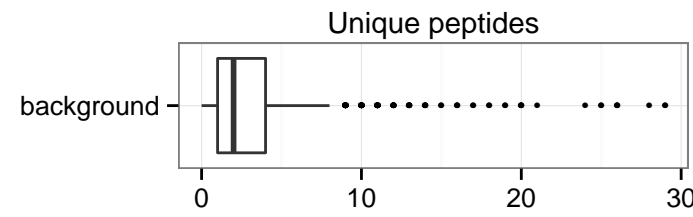
Interactor class
● B+



	HOS2	SET3	SIF2	SNT1
<i>significance</i>	4.9	6.1	4.8	5.1
<i>interactor class</i>	B+	B+	B+	B+

bait	SHG1
experiment	14 minutes

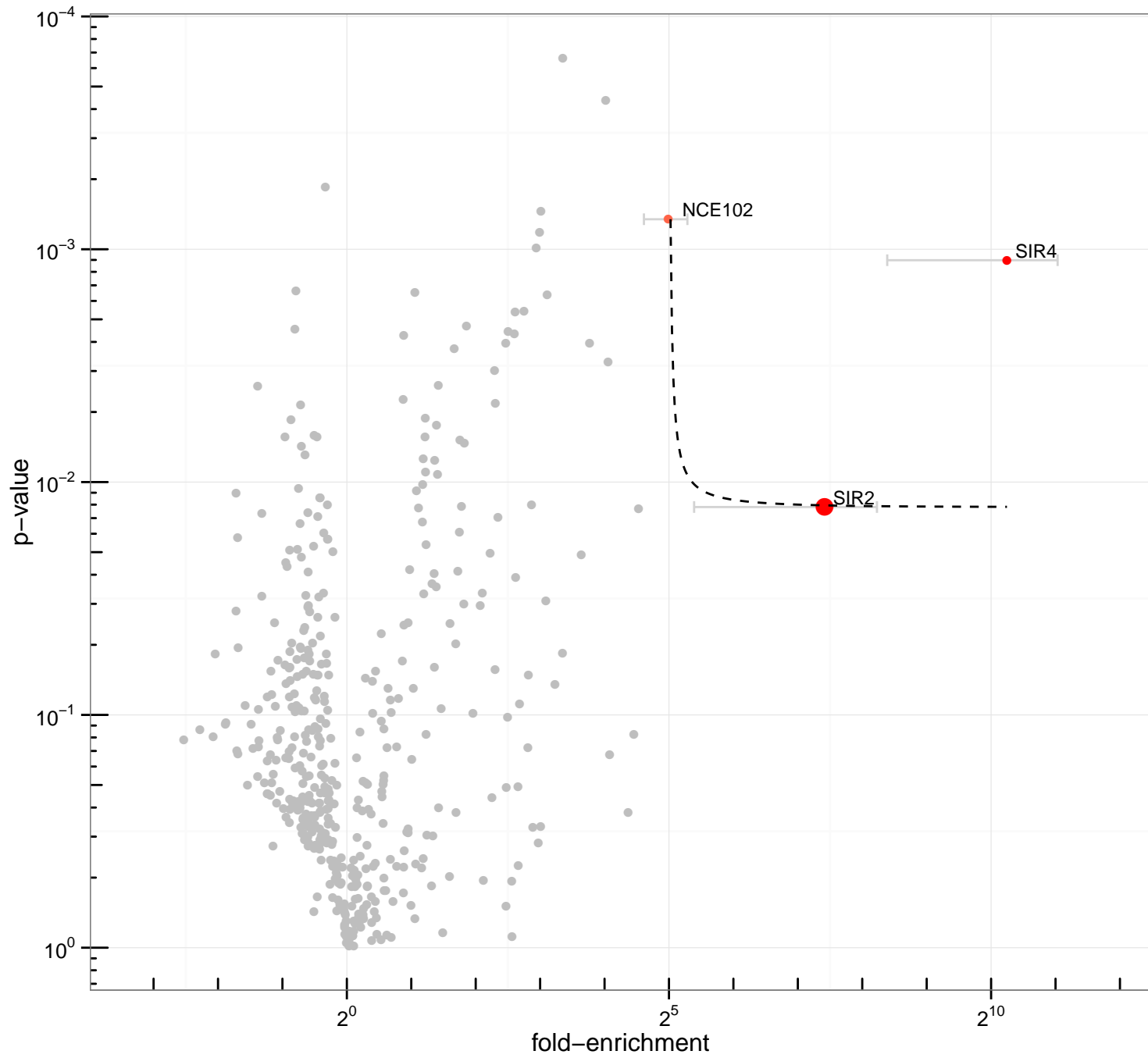
interactors	0
recovery	0 %



significance
interactor class

bait	SIR2
experiment	14 minutes

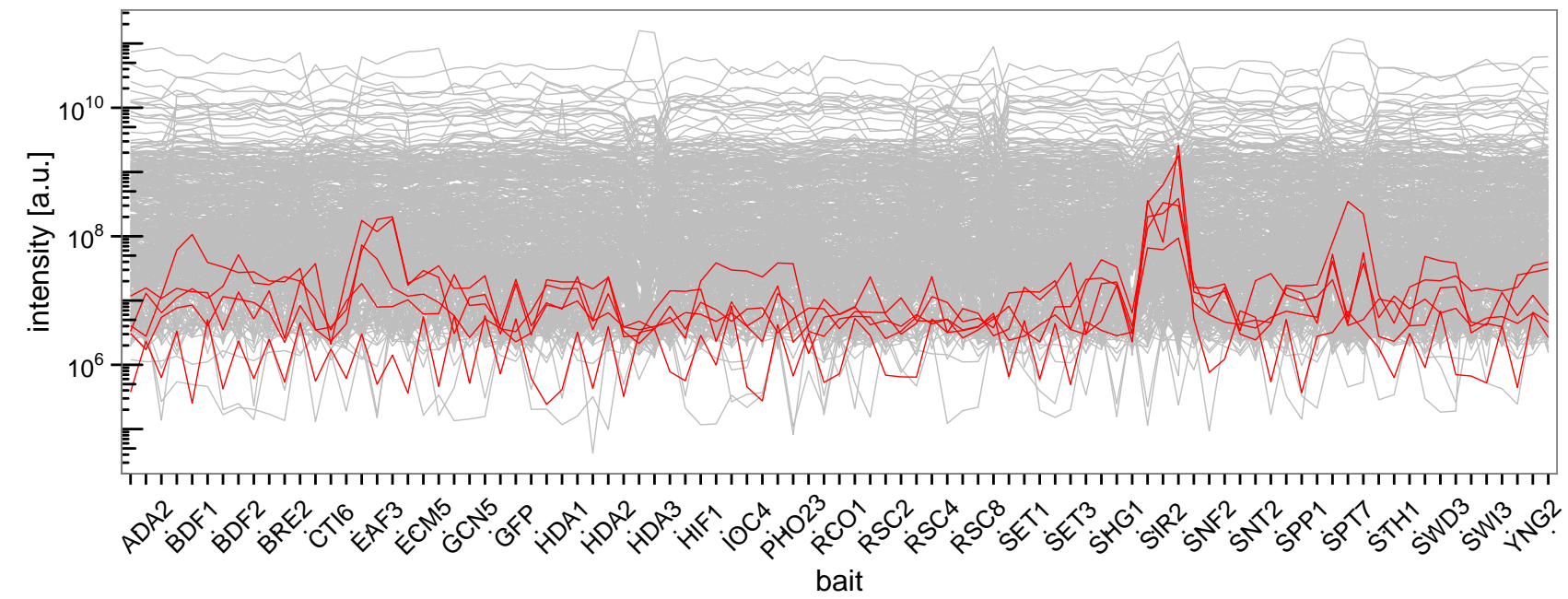
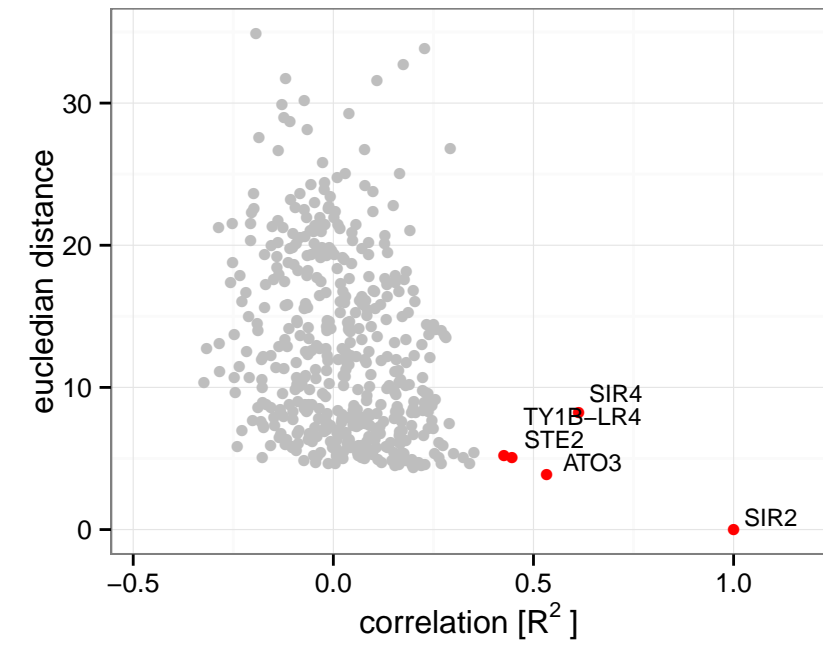
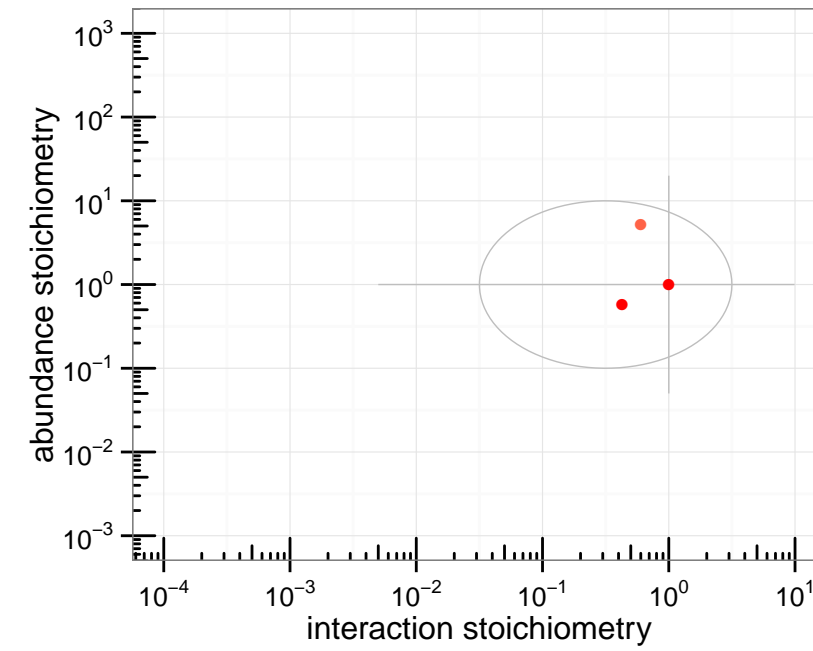
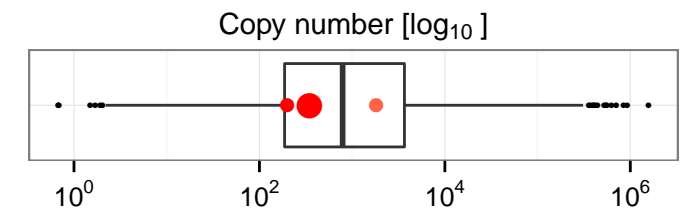
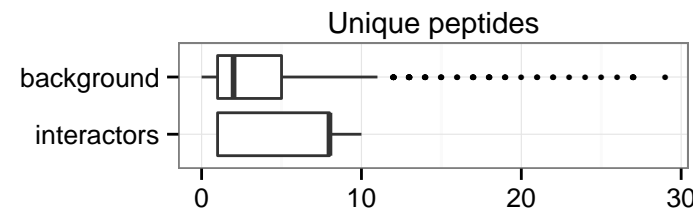
interactors	3
recovery	20 %



Interactor class

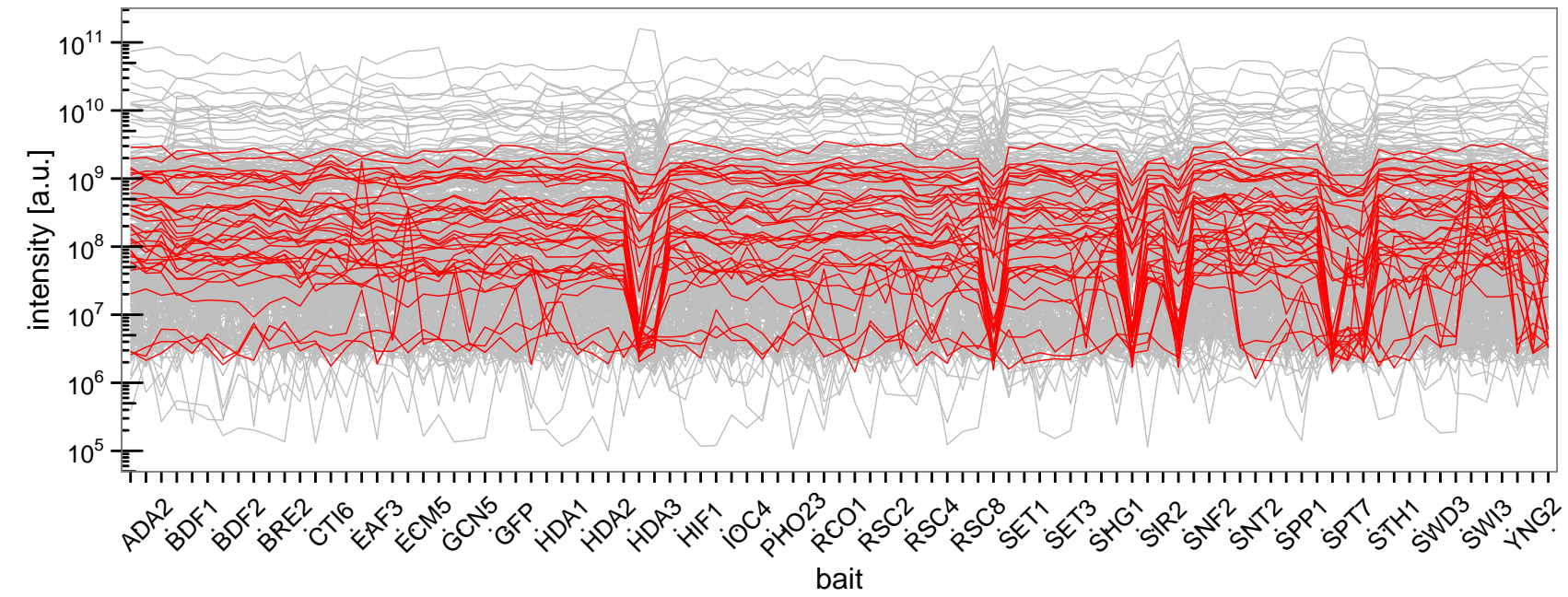
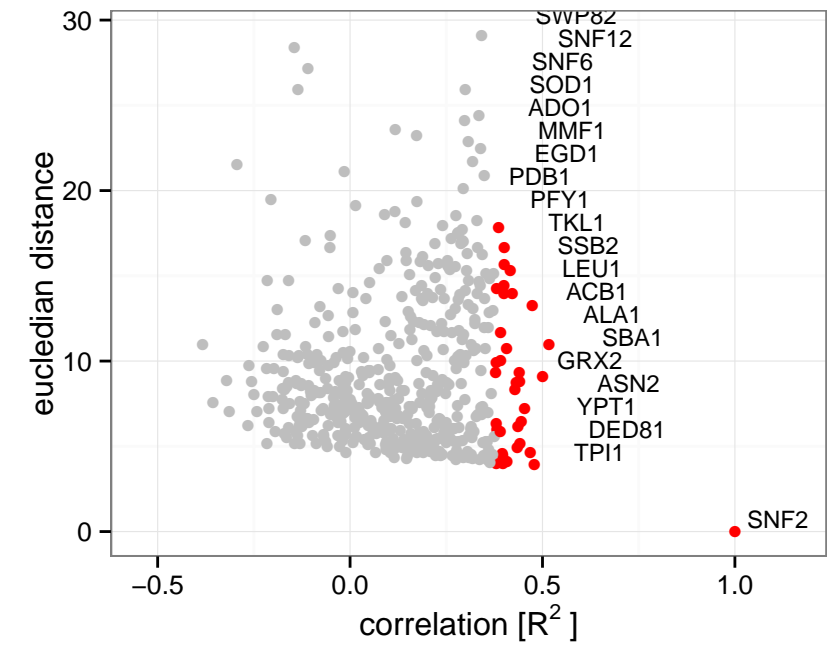
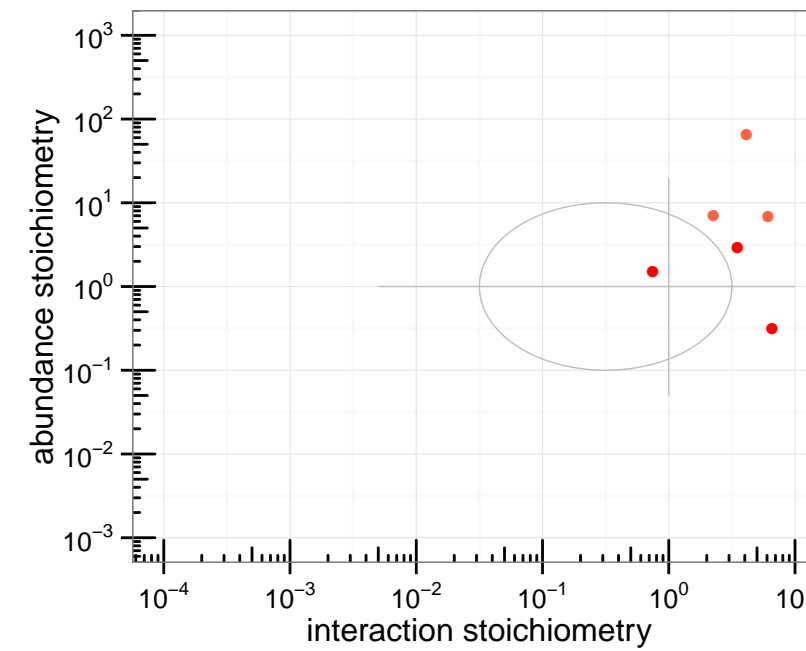
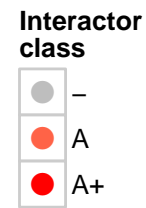
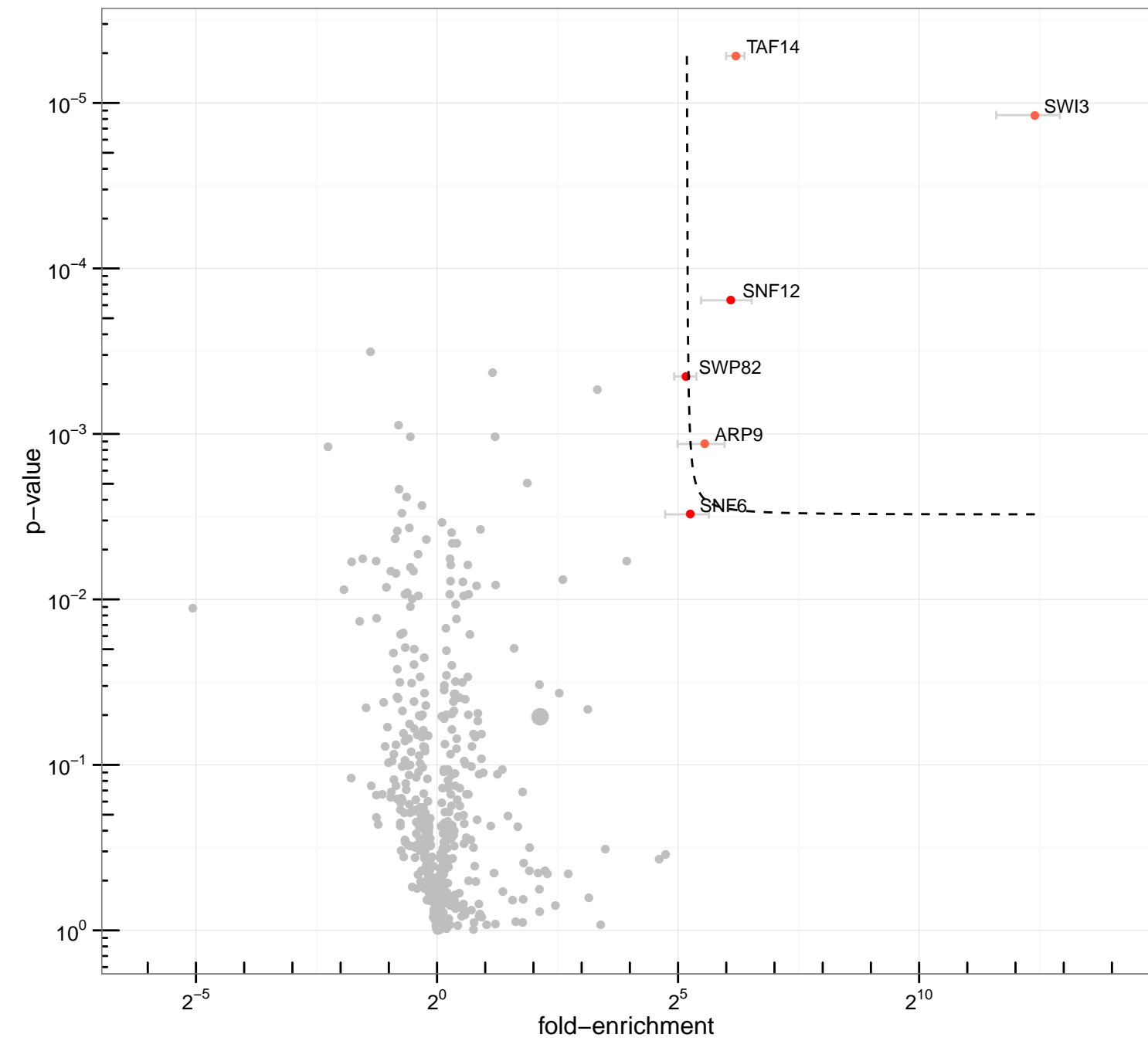
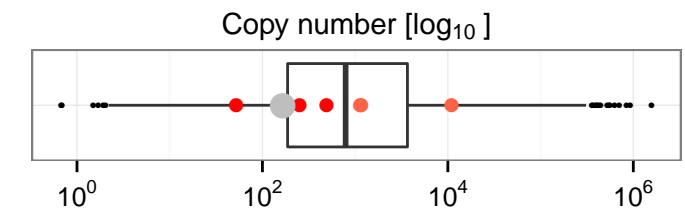
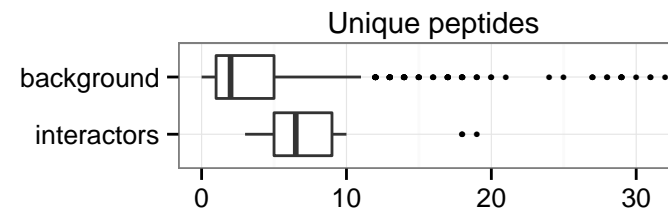
- A
- A+

	NCE102	SIR2	SIR4
<i>significance</i>	5.1	6.7	9.7
<i>interactor class</i>	A	A+	A+



bait	SNF2
experiment	14 minutes

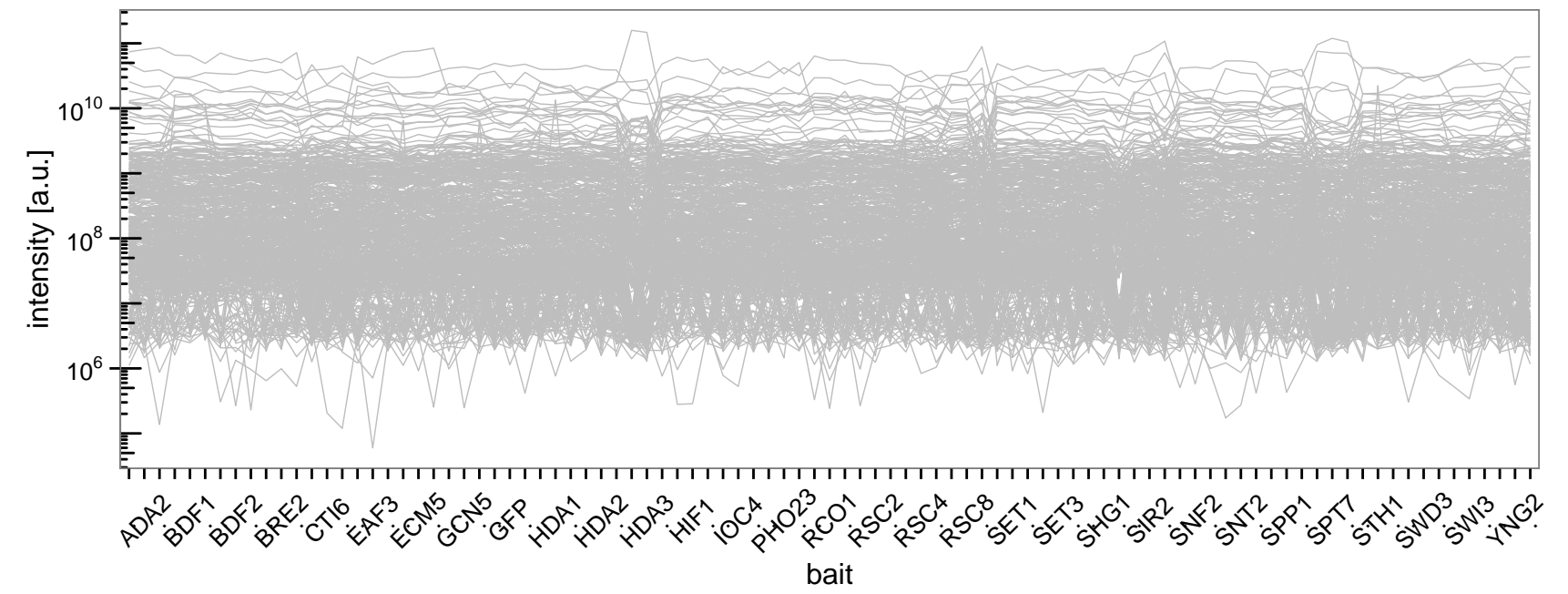
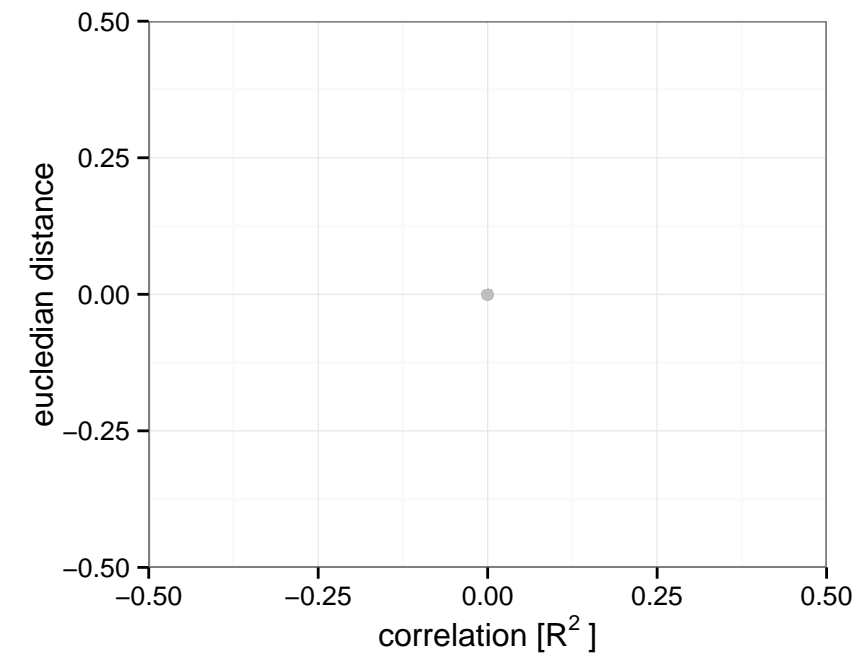
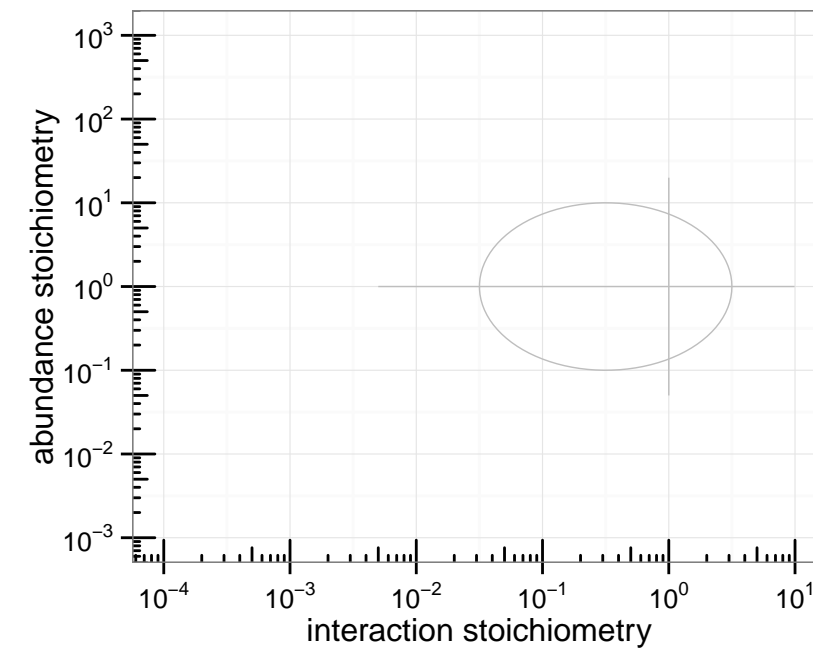
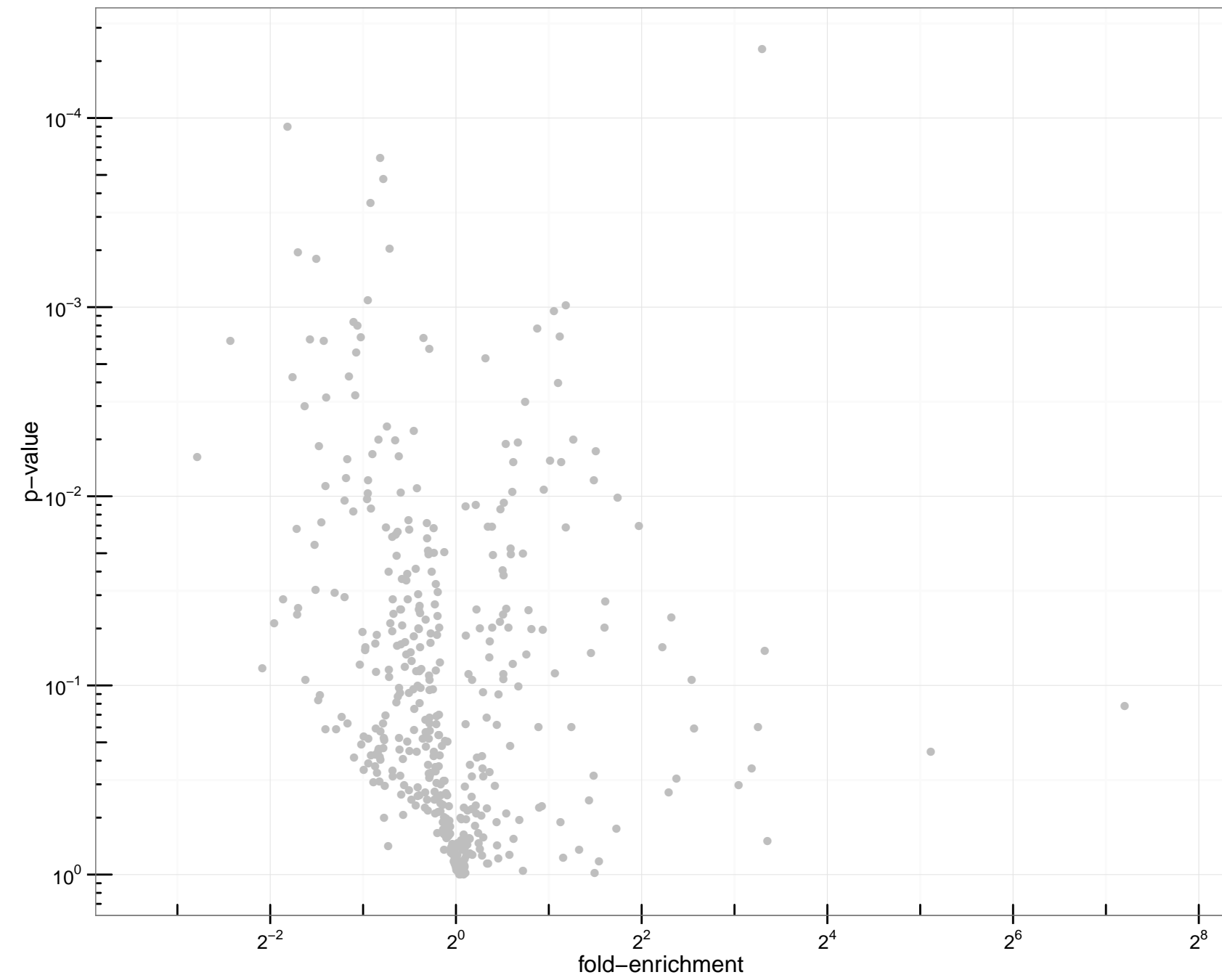
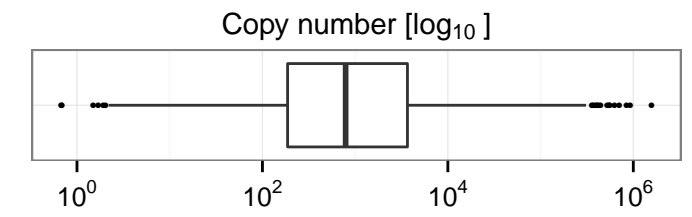
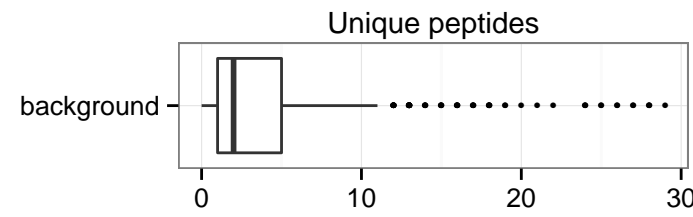
interactors	6
recovery	64 %



	ARP9	SNF12	SNF6	SWI3	SWP82	TAF14
<i>significance</i>	5.4	6.4	4.9	12.0	5.3	7.4
<i>interactor class</i>	A	A+	A+	A	A+	A

bait	SNT2
experiment	14 minutes

interactors	0
recovery	0 %

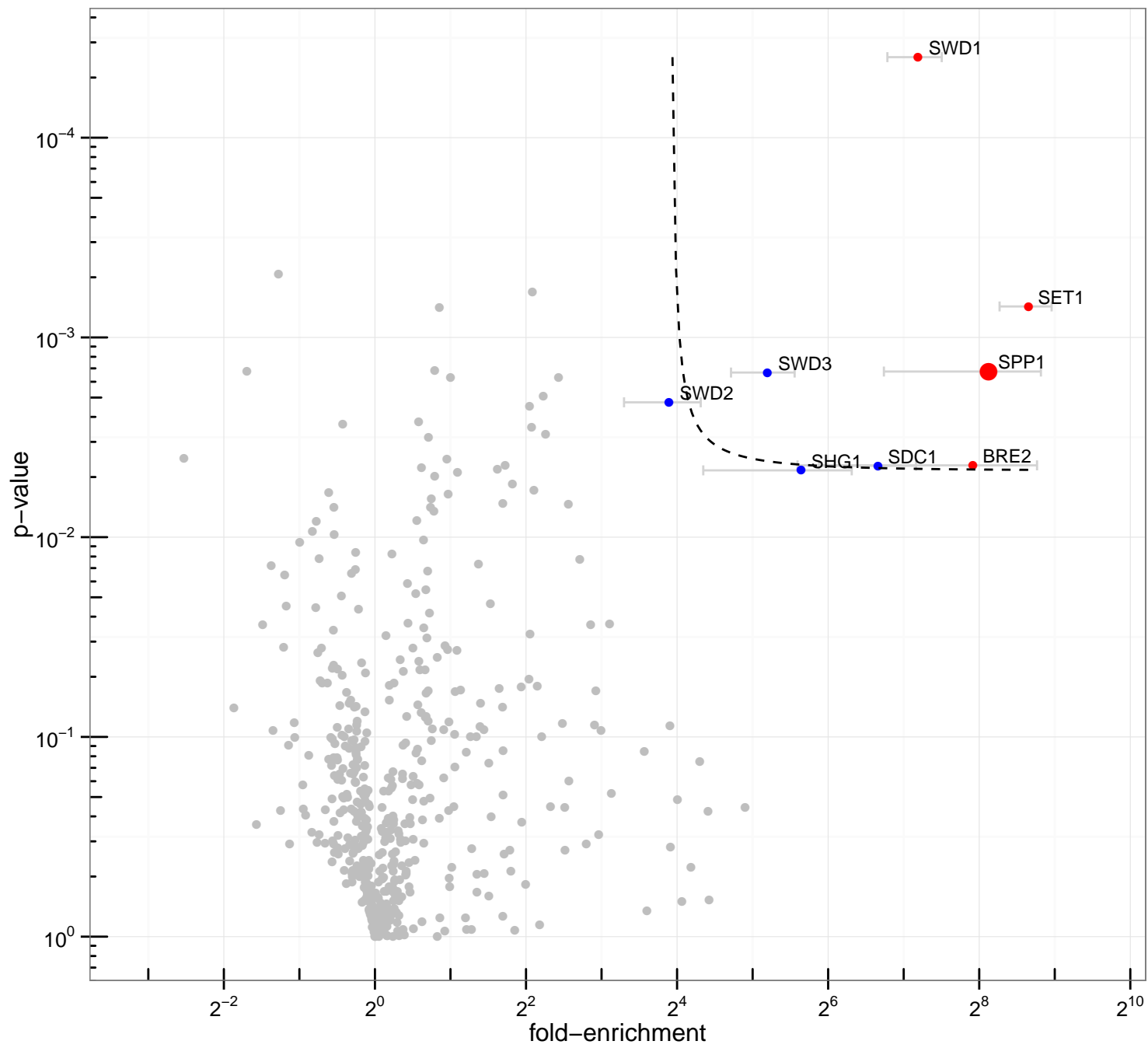
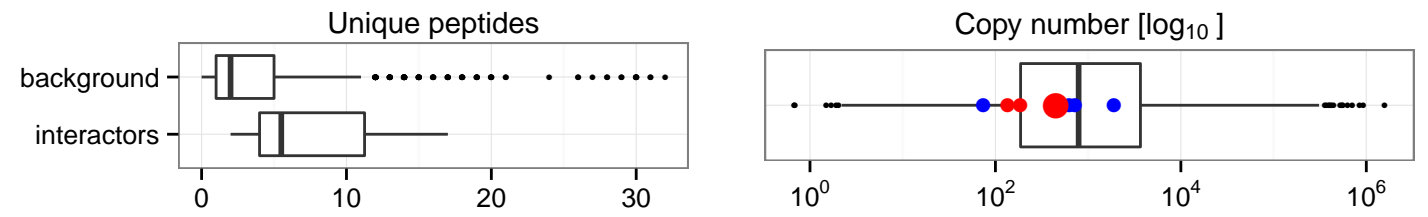


significance

interactor class

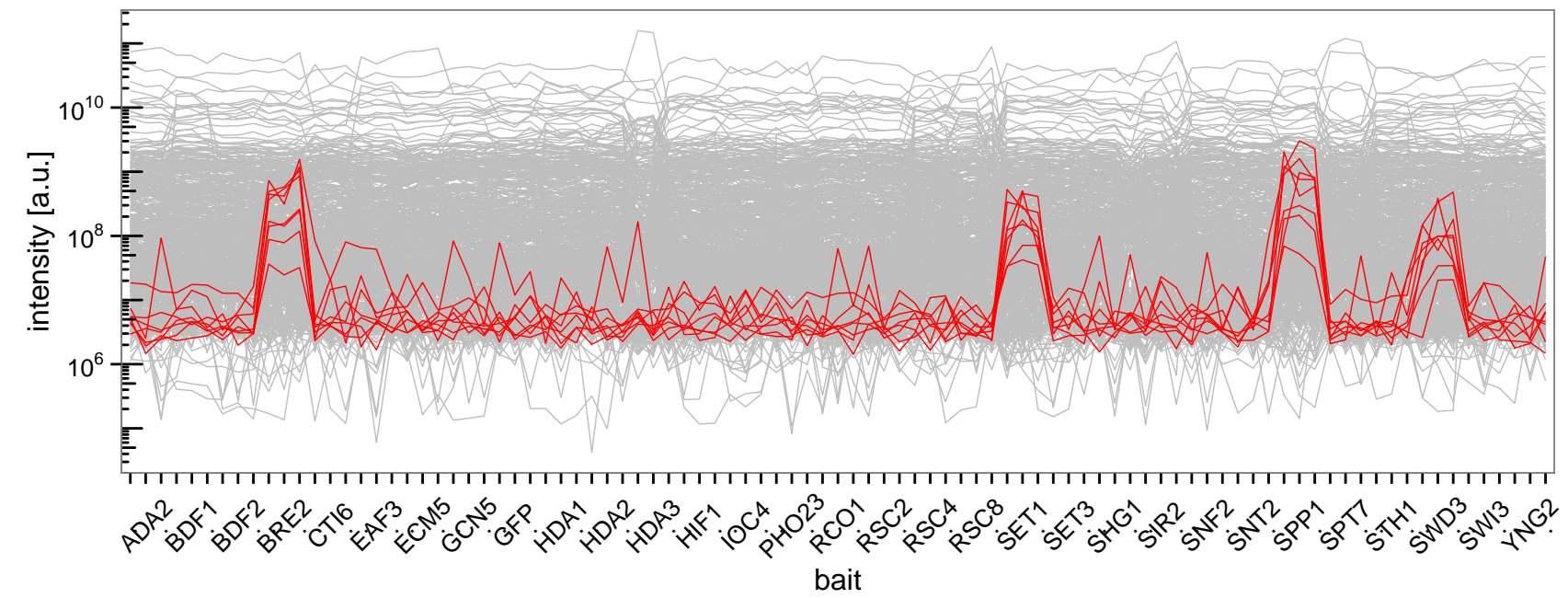
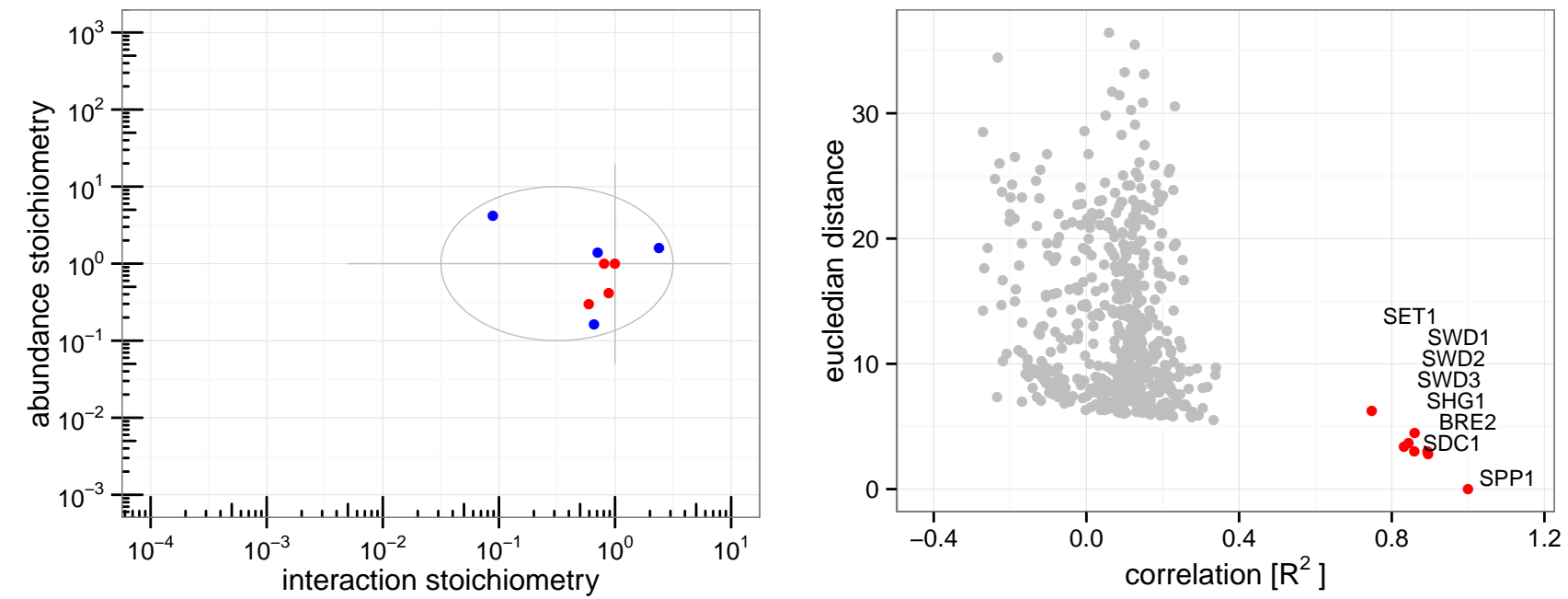
bait	SPP1
experiment	14 minutes

interactors	8
recovery	100 %



Interactor class

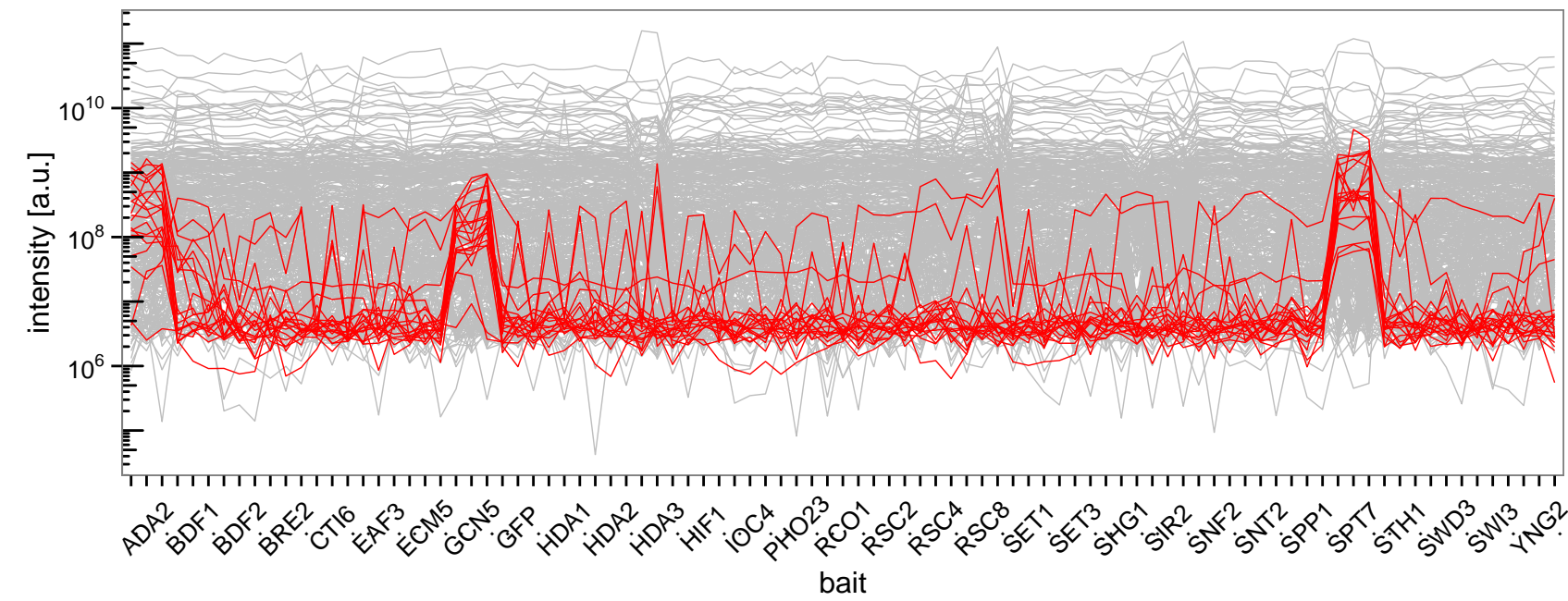
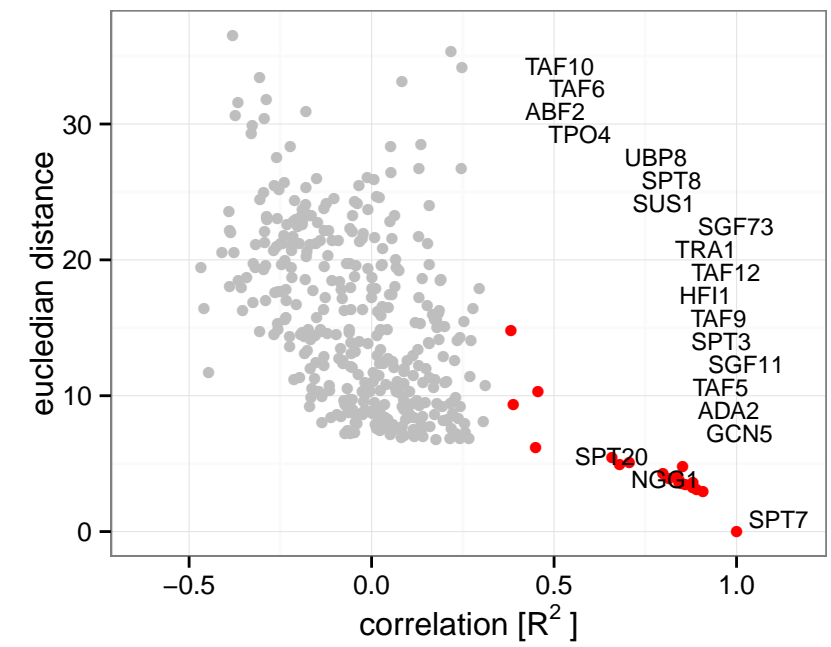
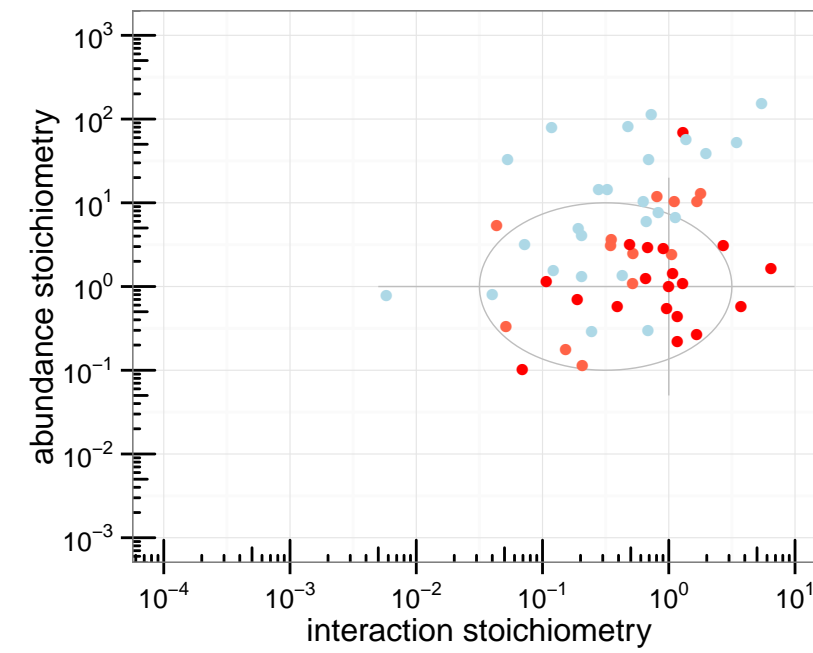
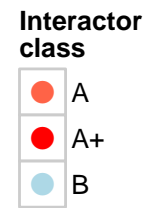
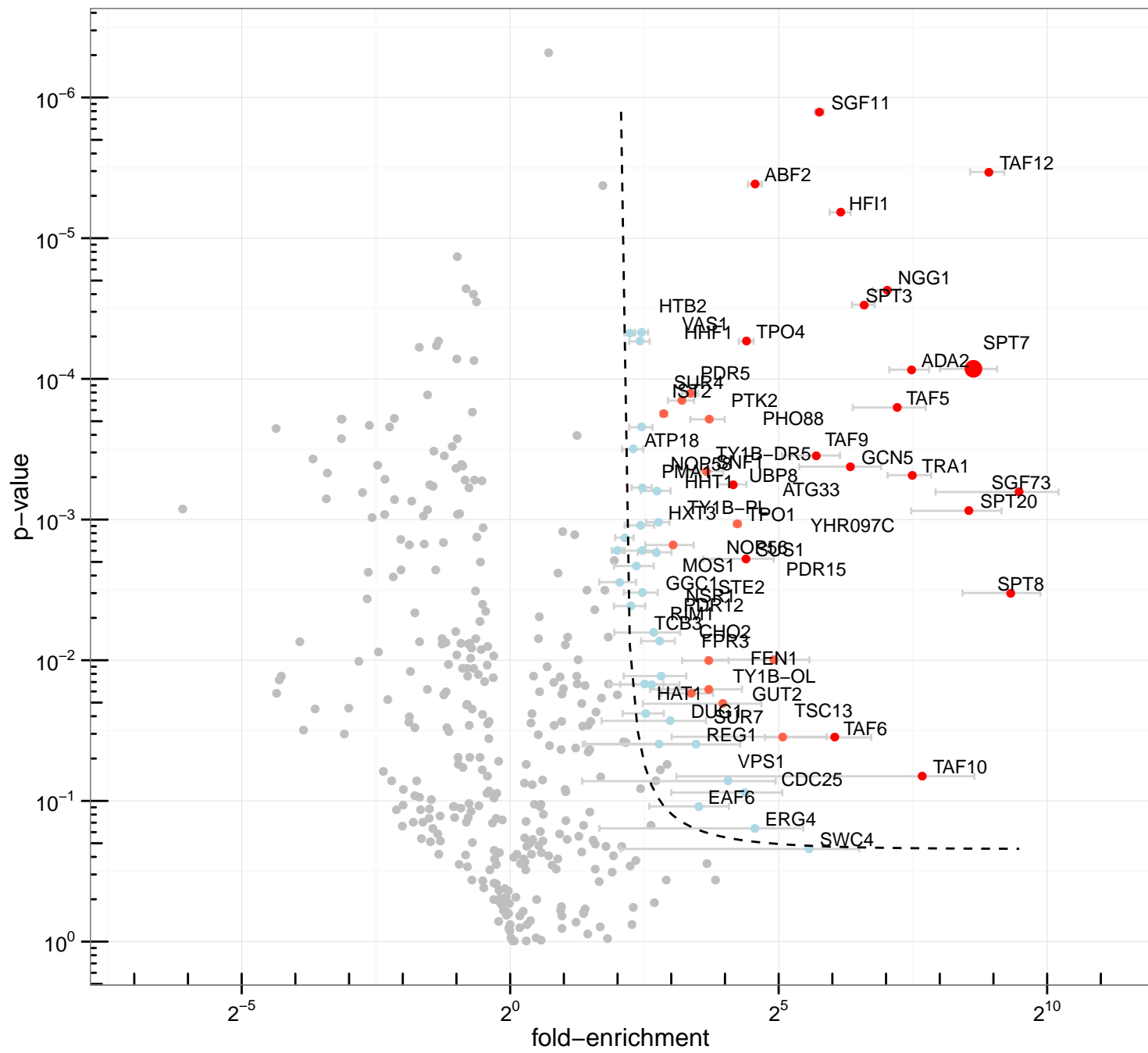
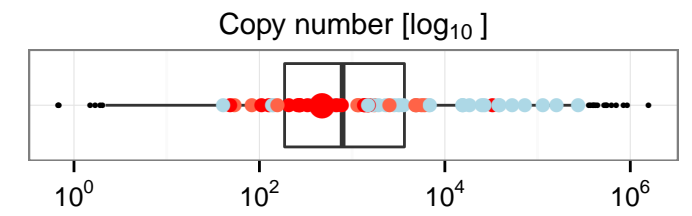
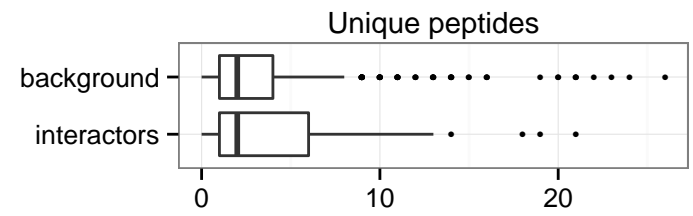
- A+
- B+



	BRE2	SDC1	SET1	SHG1	SPP1	SWD1	SWD2	SWD3
<i>significance</i>	7.3	6.1	8.3	5.2	7.7	7.6	3.9	5.1
<i>interactor class</i>	A+	B+	A+	B+	A+	A+	B+	B+

bait	SPT7
experiment	14 minutes

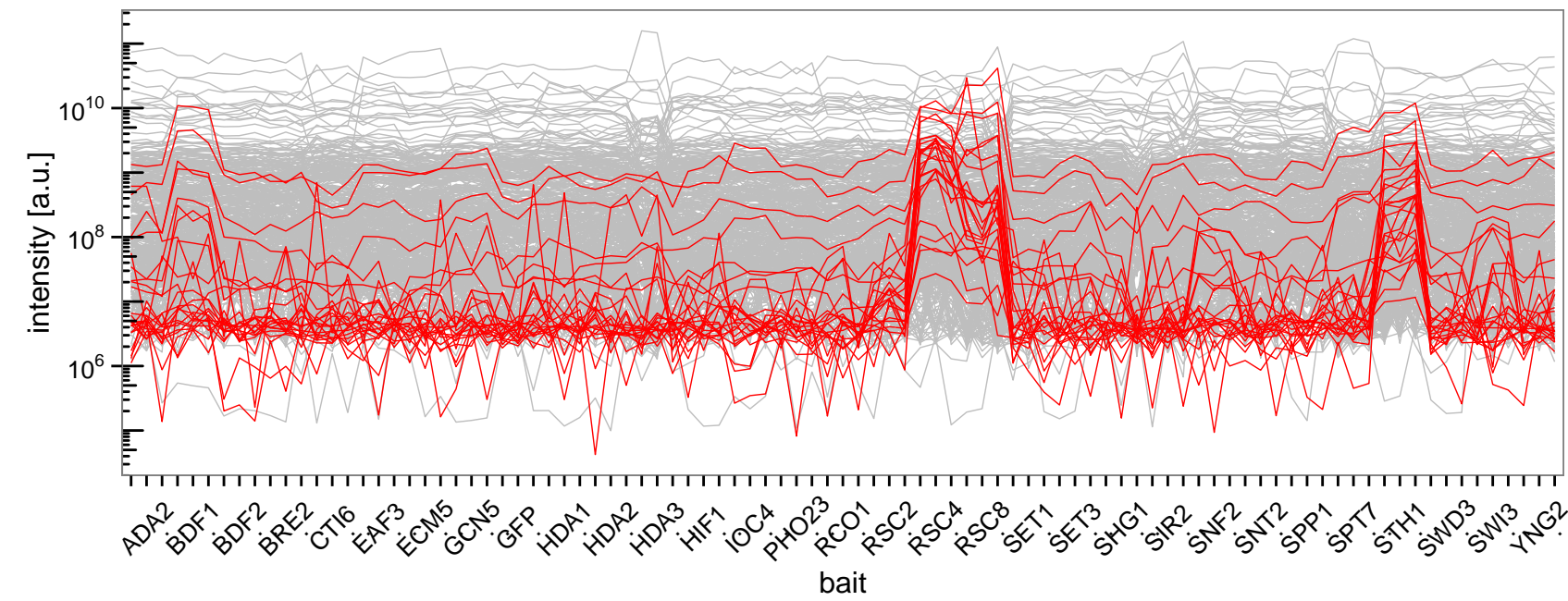
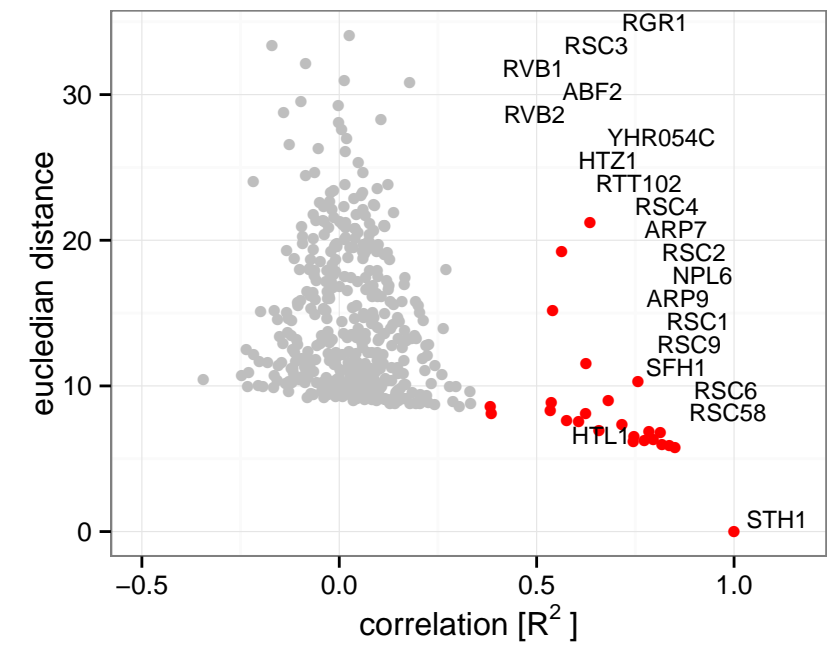
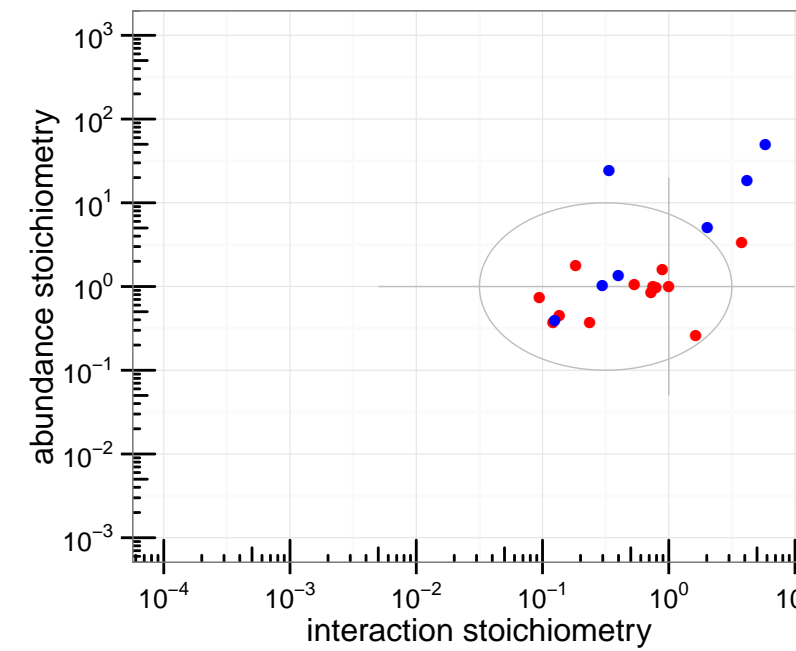
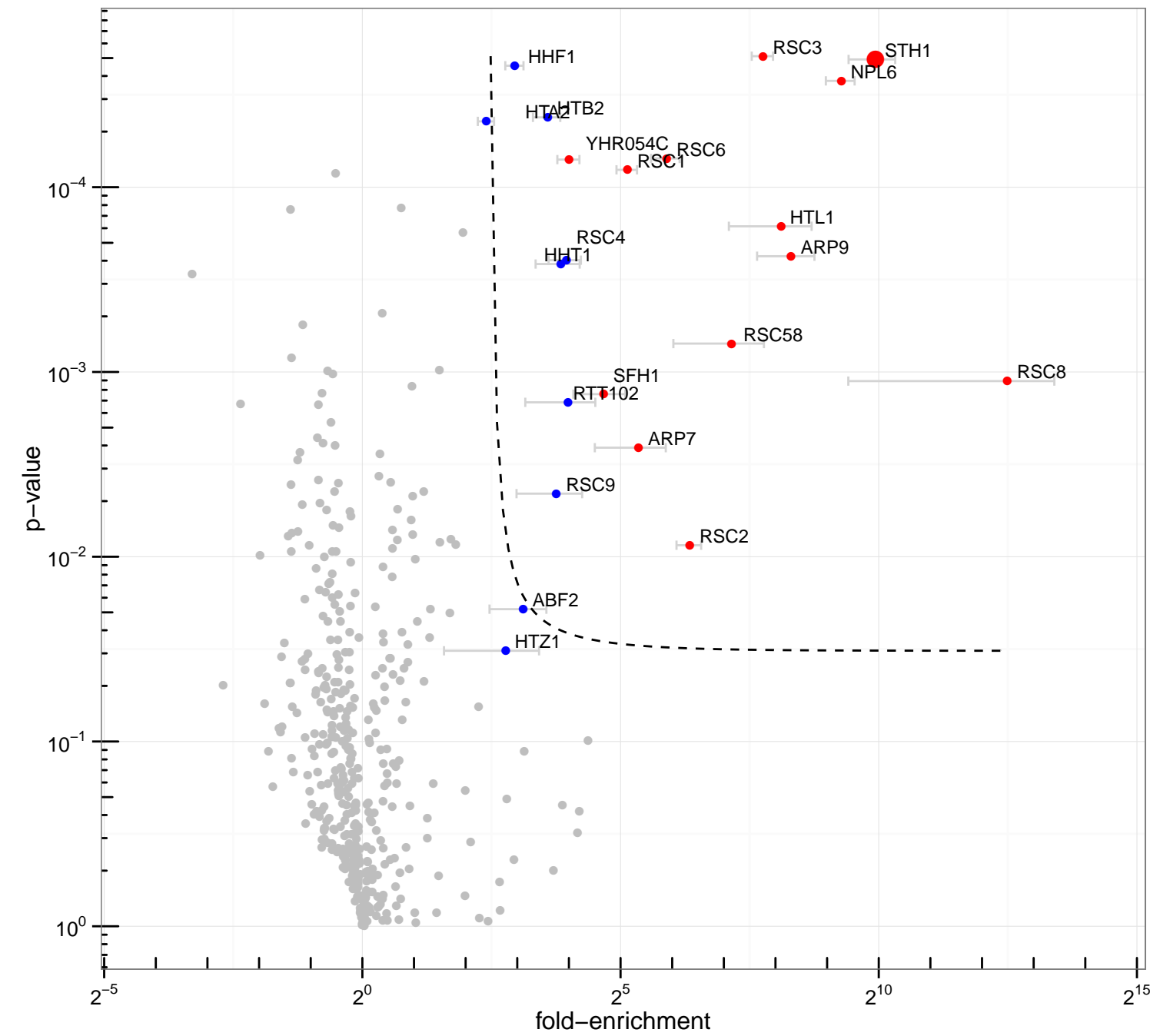
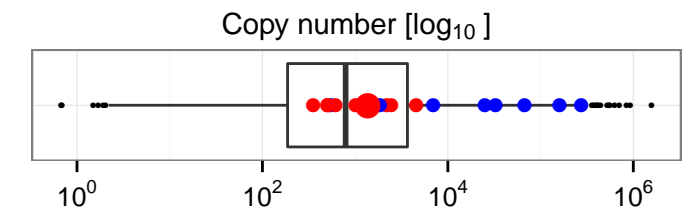
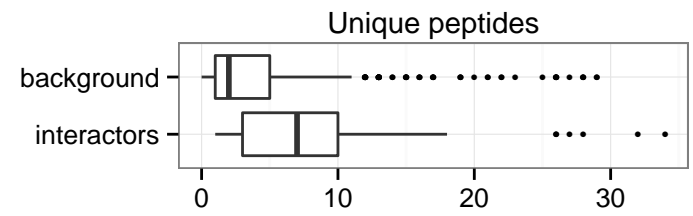
interactors	64
recovery	74 %



	ABF2	ADA2	ATG33	FEN1	GCN5	GUT2	HFI1	IST2	NGG1	PDR15	PDR5	PTK2	SGF11	SGF73	SNF1	SPT20	SPT3	SPT7	SPT8	STE2	SUR4	SUS1	TAF10	TAF12	TAF5	TAF6	TAF9	TPO1	TPO4	TRA1	TSC13	TY1B-OL	UBP8
<i>significance</i>	6.5	7.6	3.5	3.2	6.3	3.4	7.3	4.4	7.6	4.4	4.6	4.6	7.6	9.1	4.3	8.1	7.2	8.6	8.7	3.4	4.2	4.4	6.8	9.6	7.3	5.3	5.8	4.4	5.5	7.3	4.3	3.0	4.5
<i>interactor class</i>	A+	A+	A	A	A+	A	A+	A	A+	A	A	A	A+	A+	A	A+	A+	A+	A+	A	A	A+	A+	A+	A+	A+	A	A+	A+	A	A	A	A+

bait	STH1
experiment	14 minutes

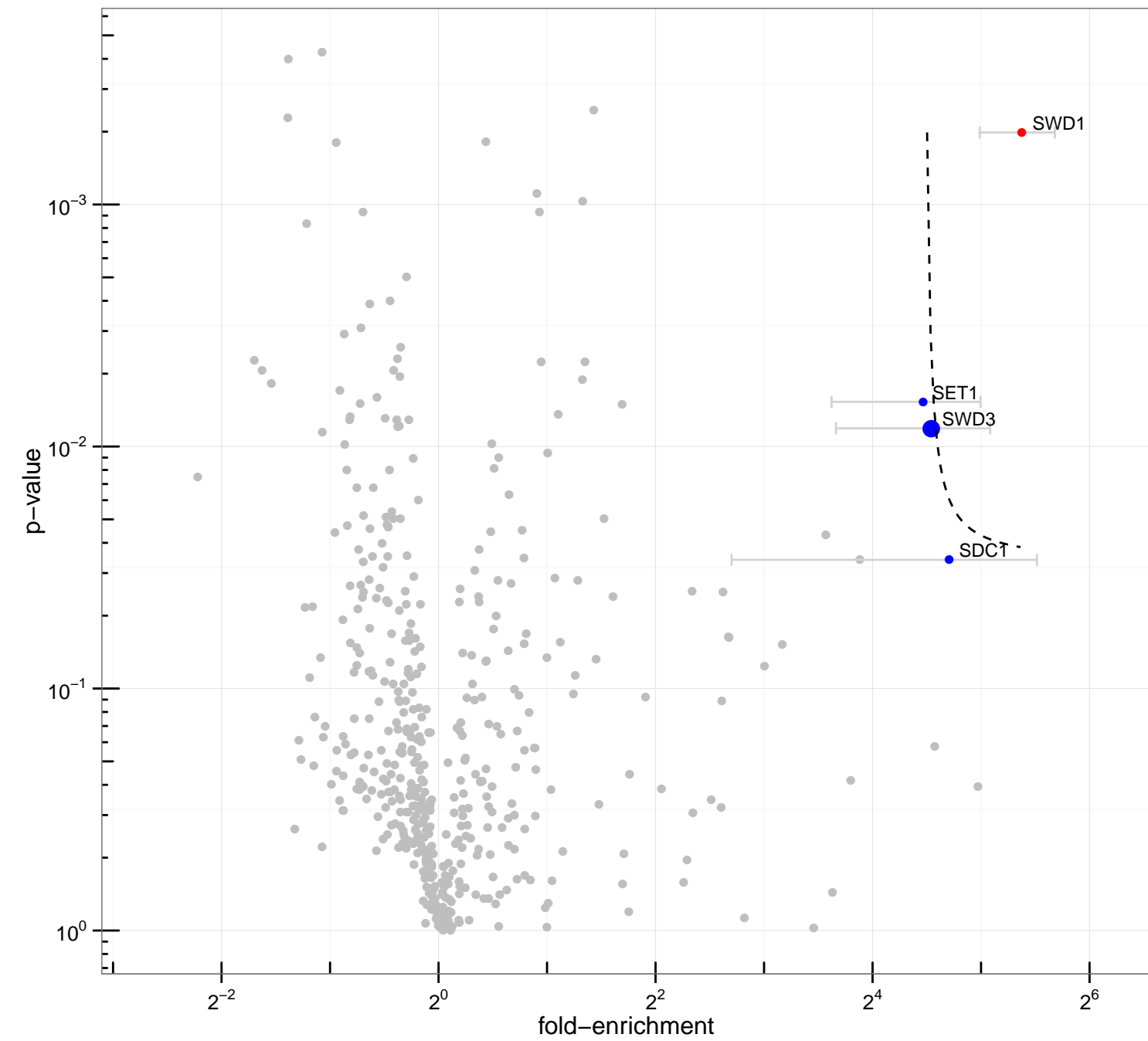
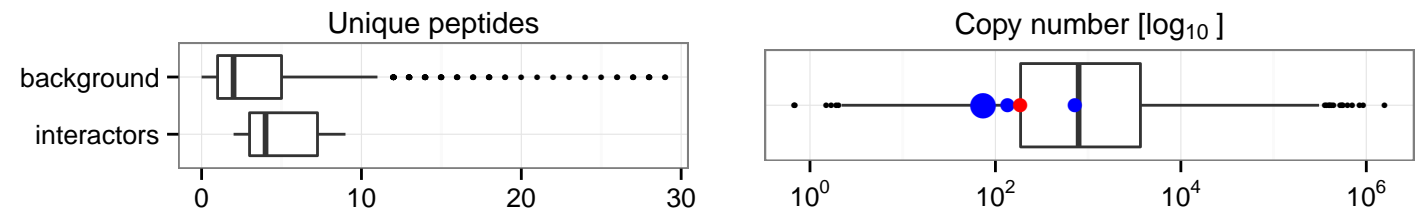
interactors	22
recovery	82 %



	ABF2	ARP7	ARP9	HHF1	HHT1	HTA2	HTB2	HTL1	HTZ1	NPL6	RSC1	RSC2	RSC3	RSC4	RSC58	RSC6	RSC8	RSC9	RTT102	SFH1	STH1	YHR054C	
<i>significance</i>	2.7	5.1	8.2	5.1	4.6	4.6	5.1	8.1	2.3	9.5	5.8	5.7	8.2	4.7	6.9	6.4	12.0	3.6	4.1	4.7	10.0	5.1	
<i>interactor class</i>	B+	A+	A+	B+	B+	B+	B+	A+	B+	A+	A+	A+	A+	B+	A+	A+	A+	B+	B+	A+	A+	A+	A+

bait	SWD3
experiment	14 minutes

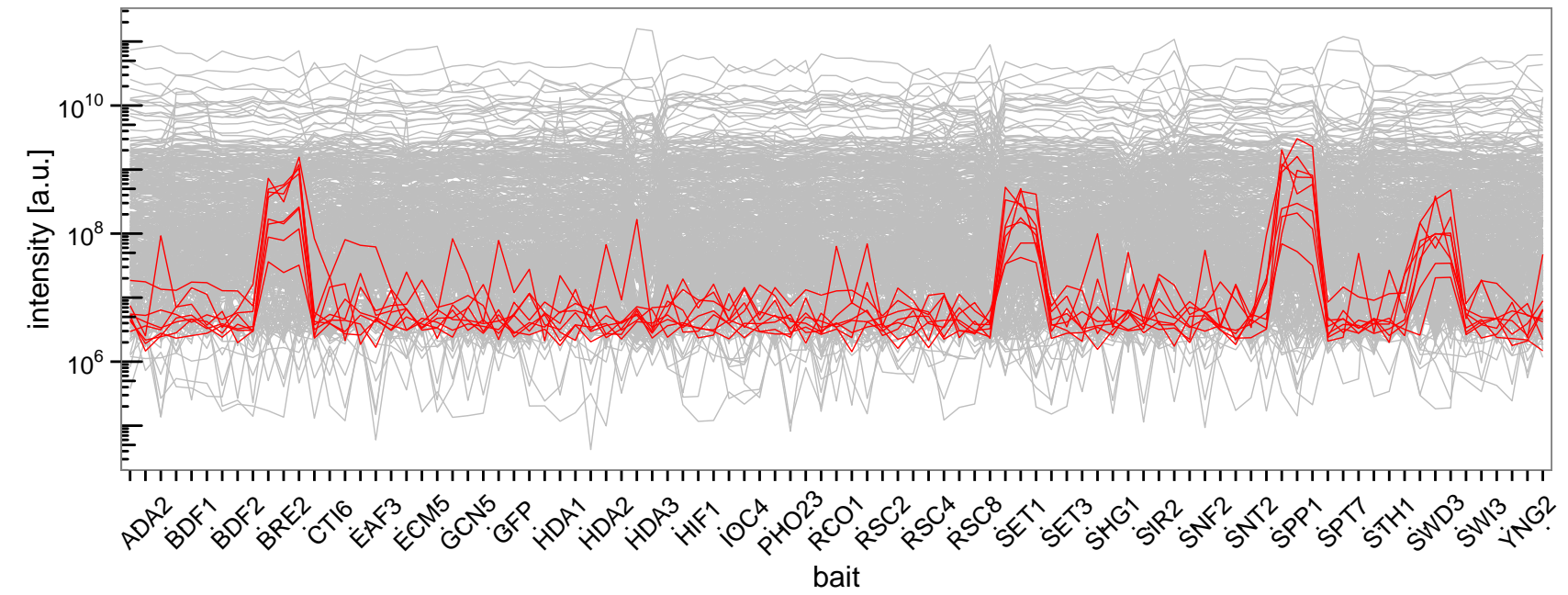
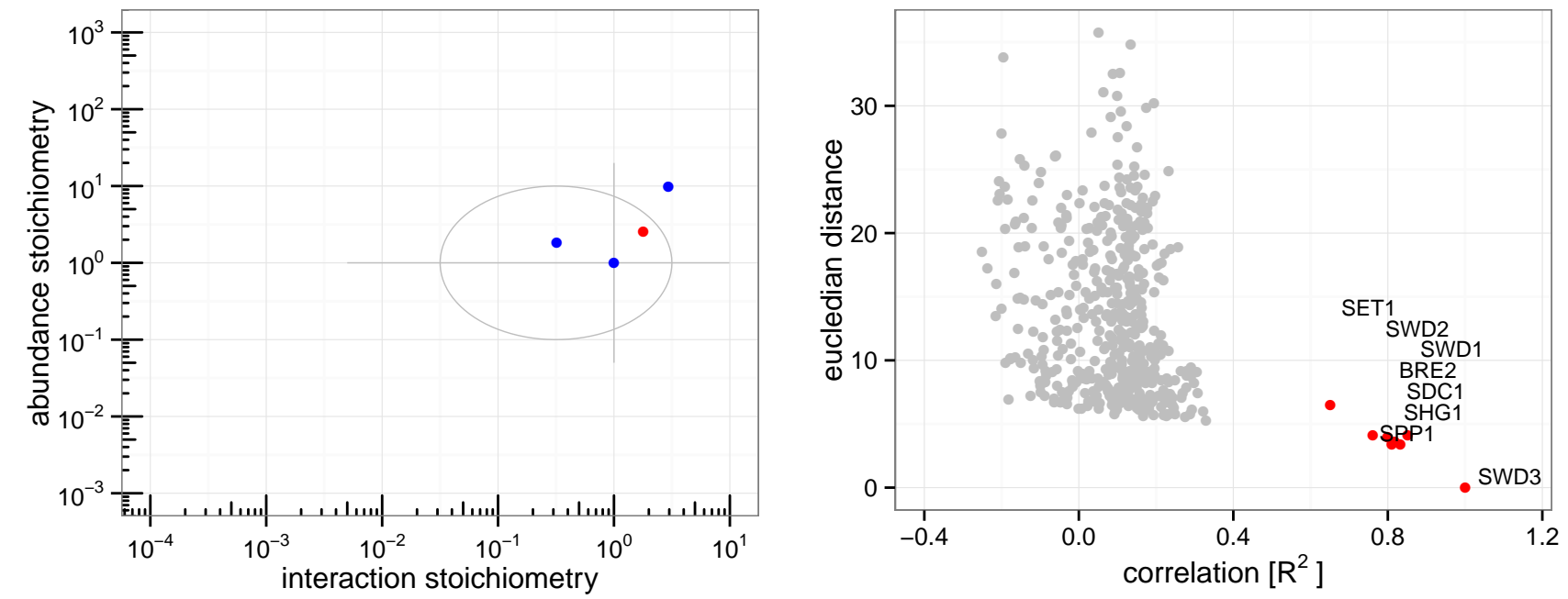
interactors	4
recovery	43 %



Interactor class

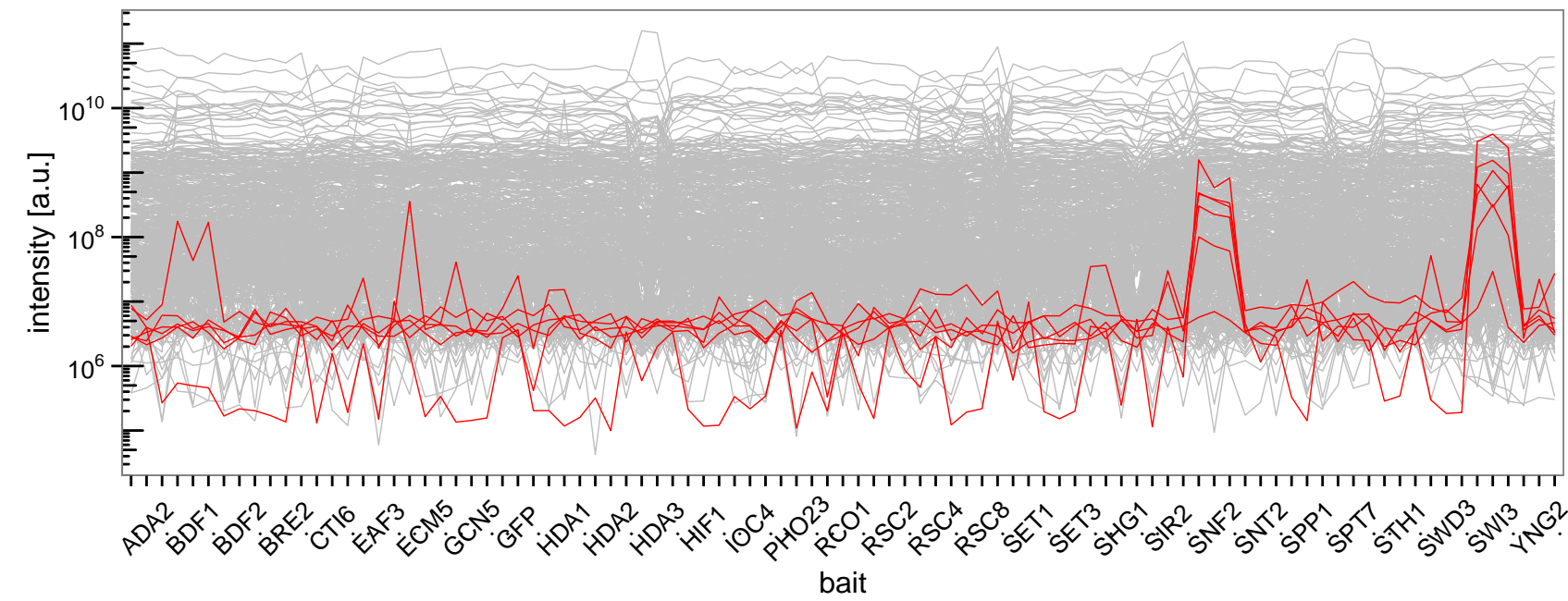
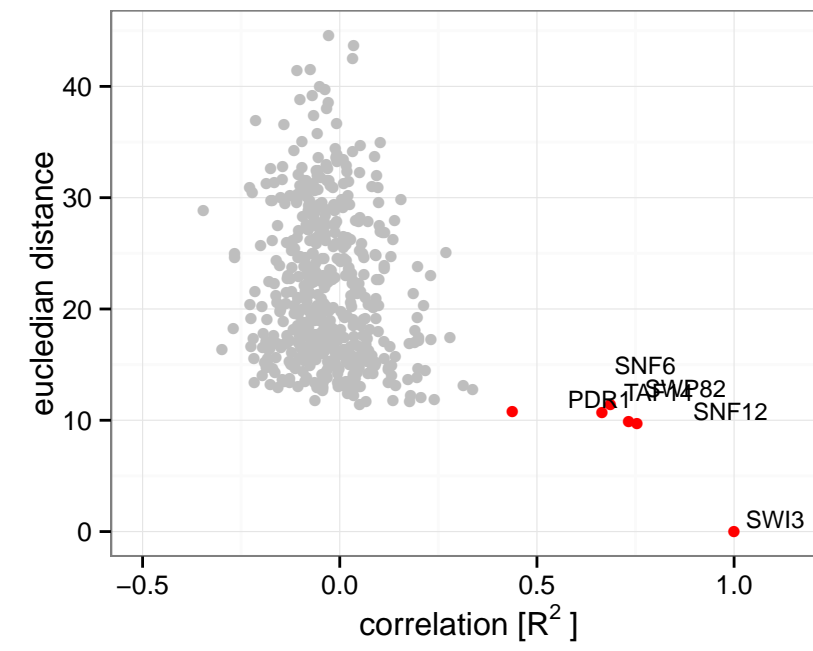
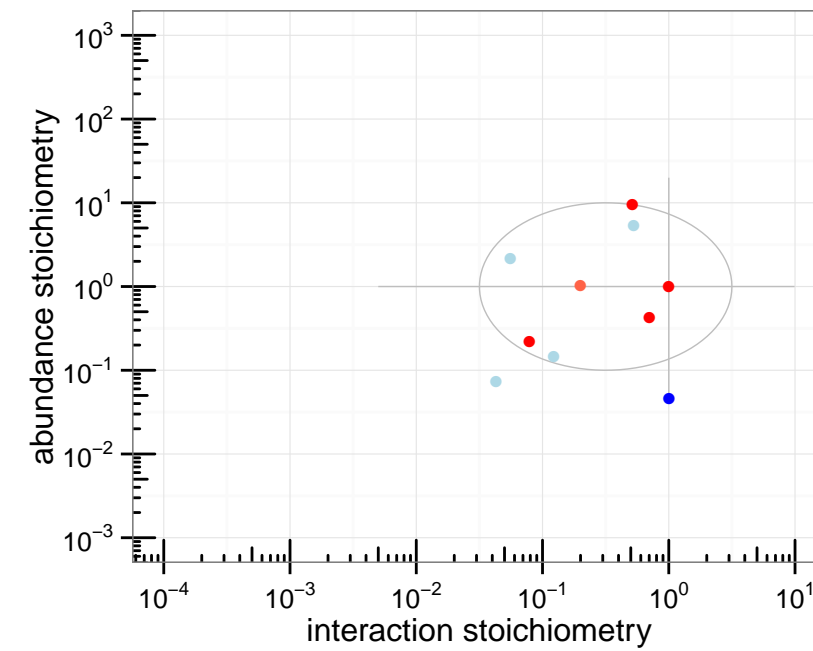
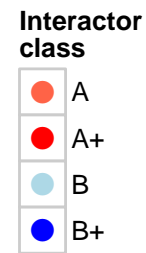
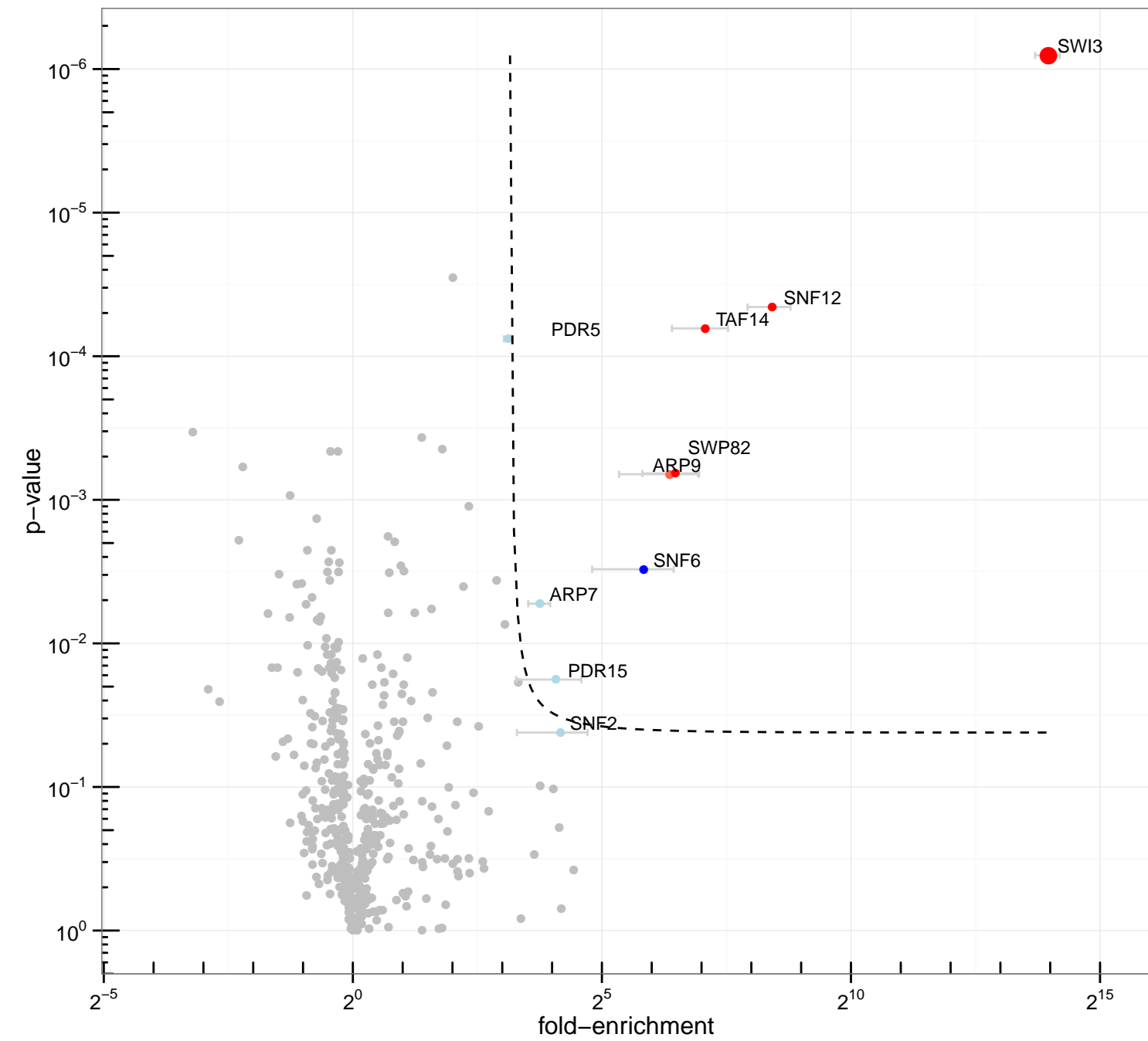
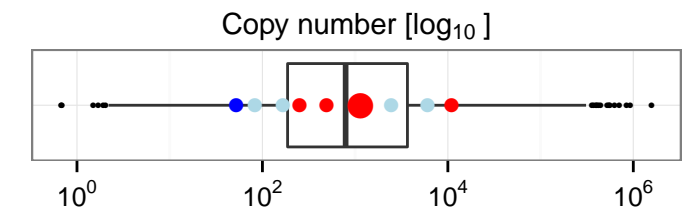
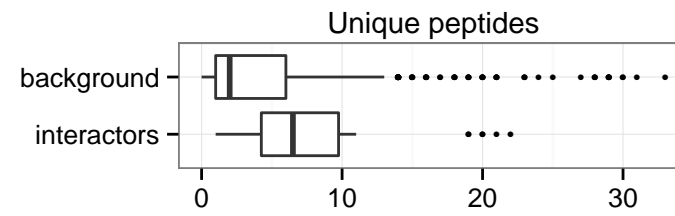
- A+
- B+

	SDC1	SET1	SWD1	SWD3
<i>significance</i>	4.0	4.1	5.5	4.1
<i>interactor class</i>	B+	B+	A+	B+



bait	SWI3
experiment	14 minutes

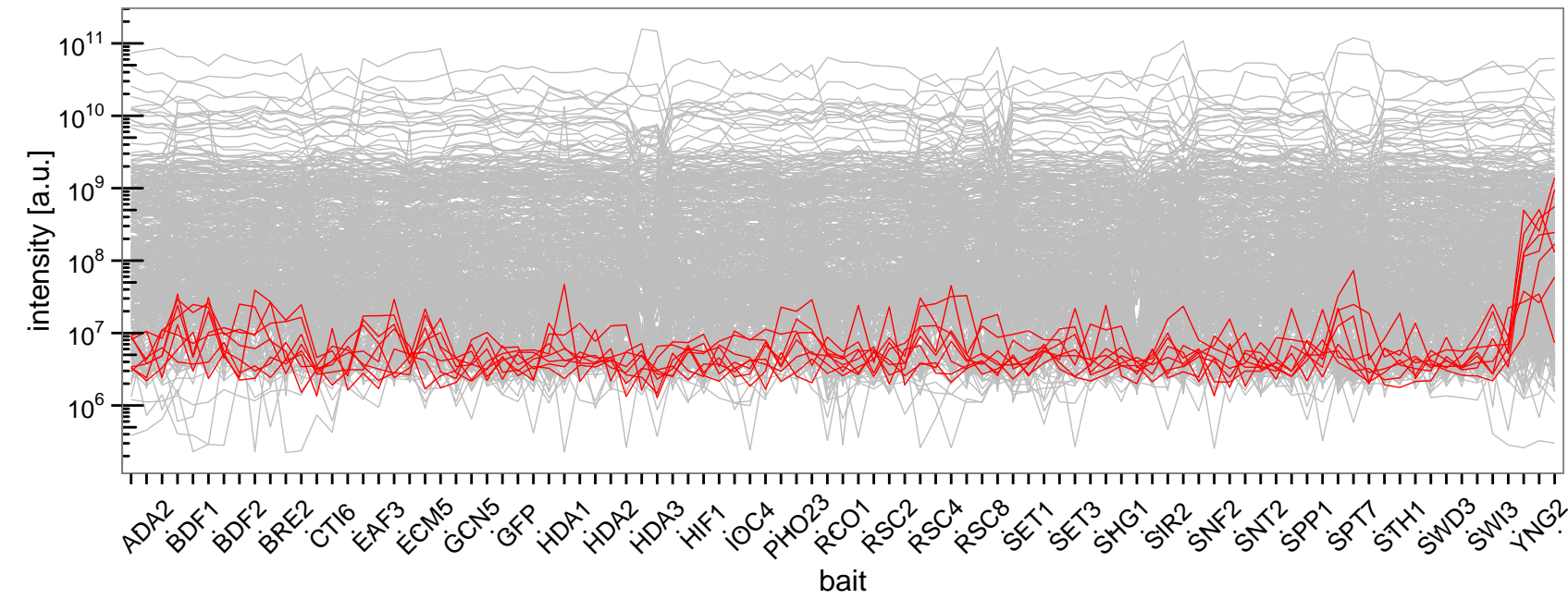
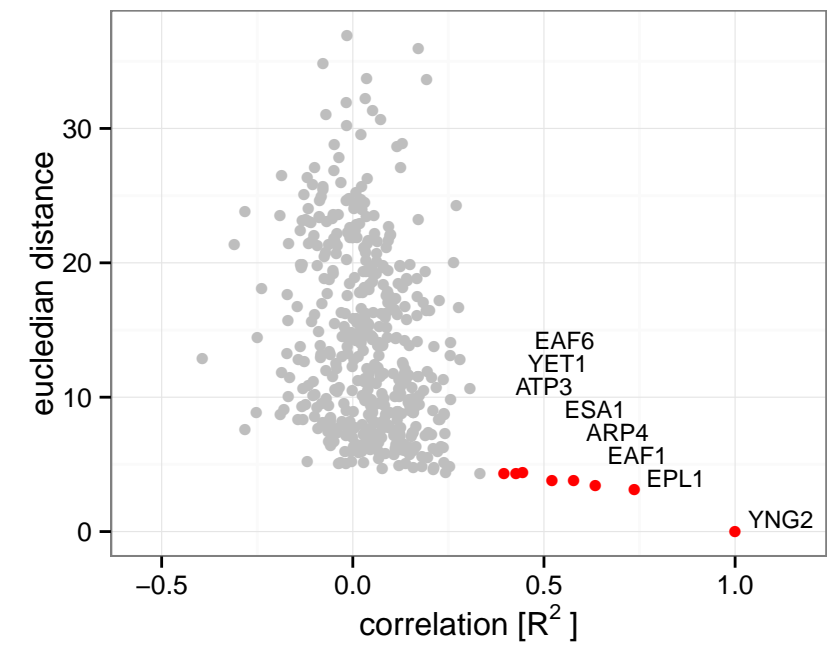
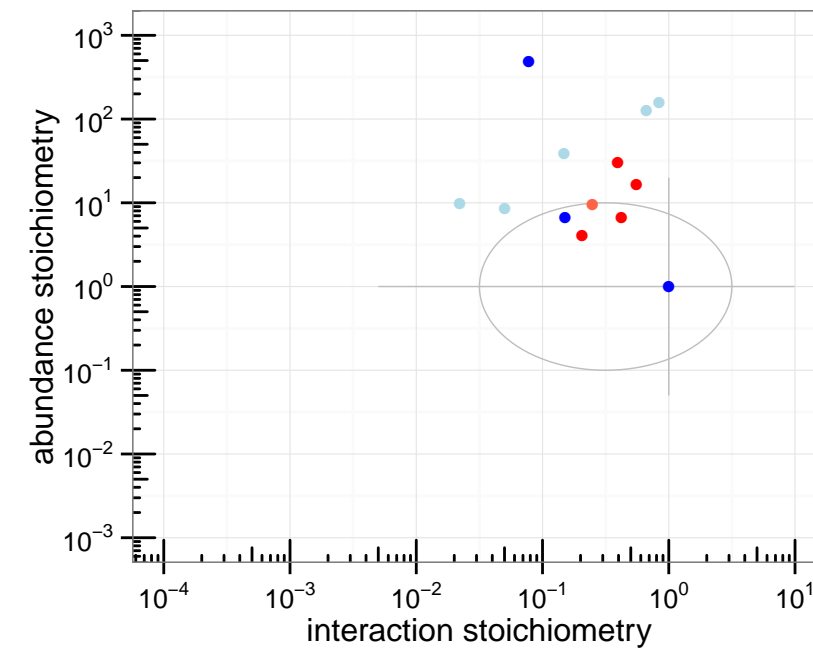
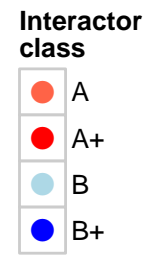
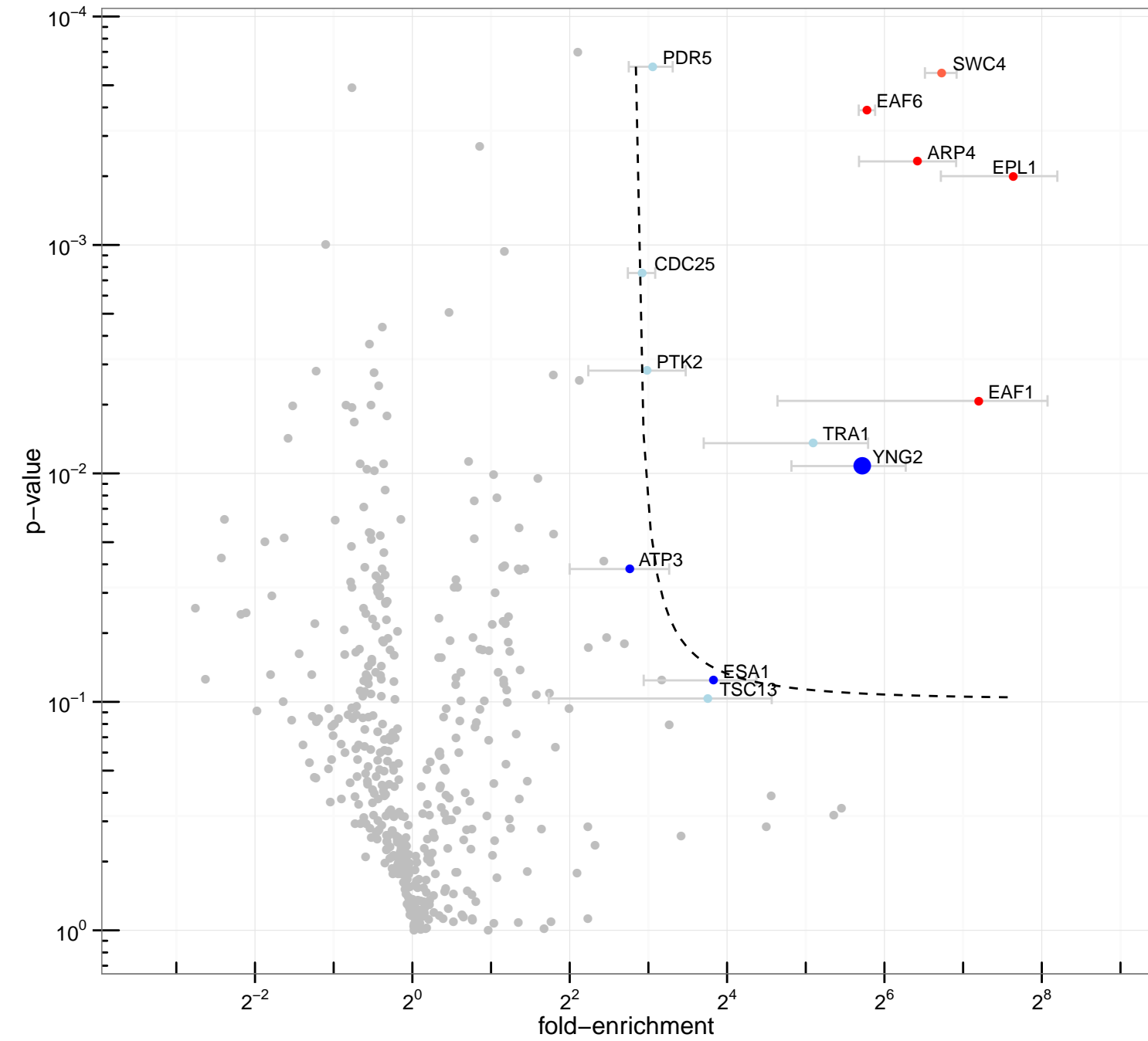
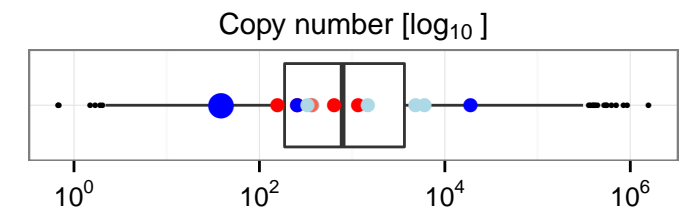
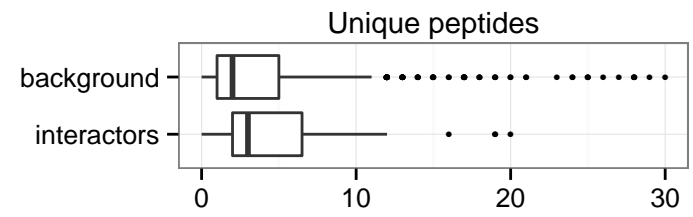
interactors	10
recovery	64 %



	ARP9	SNF12	SNF6	SWI3	SWP82	TAF14
<i>significance</i>	6.2	8.6	5.5	14.0	6.3	7.4
<i>interactor class</i>	A	A+	B+	A+	A+	A+

bait	YNG2
experiment	14 minutes

interactors	13
recovery	54 %



	ARP4	ATP3	EAF1	EAF6	EPL1	ESA1	SWC4	YNG2
<i>significance</i>	6.4	2.4	6.6	6.0	7.4	3.0	6.8	5.1
<i>interactor class</i>	A+	B+	A+	A+	A+	B+	A	B+