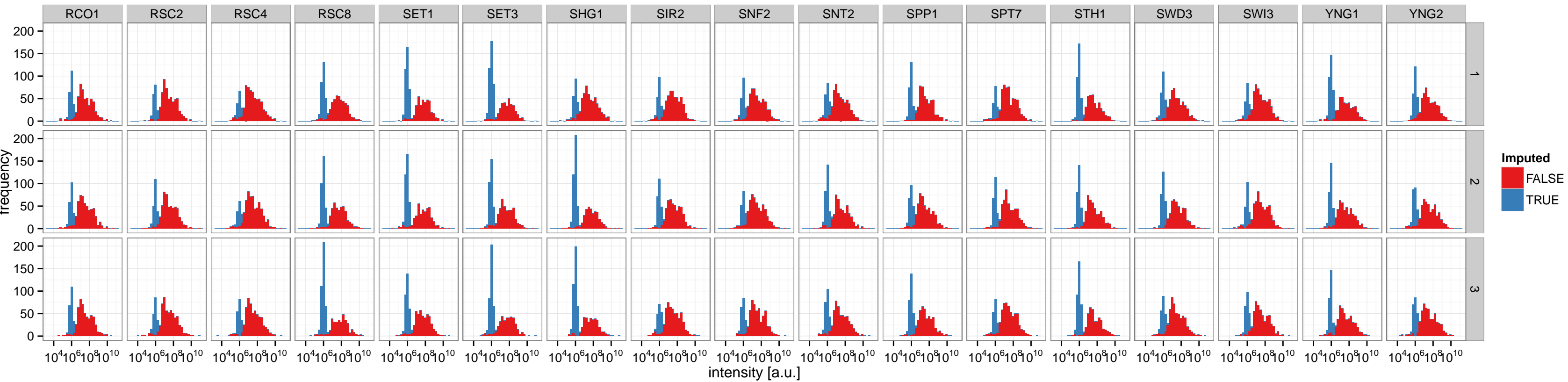
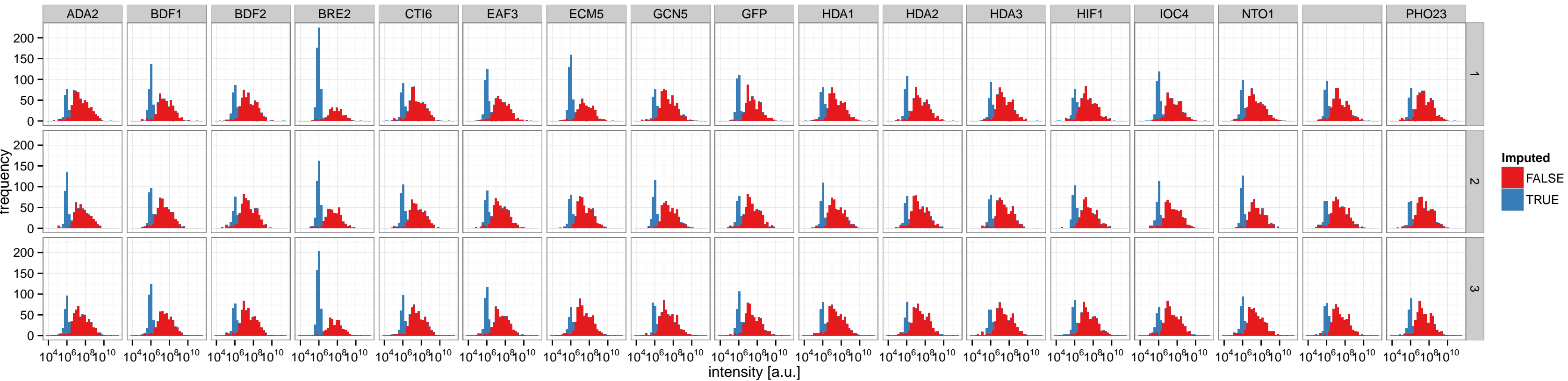


## **Ultra-high Throughput LC-MS/MS Protein Interaction Analysis – Processing 96 Pull-downs in a Single Day**

**Experiment: 27 minutes**

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

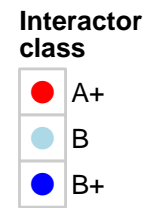
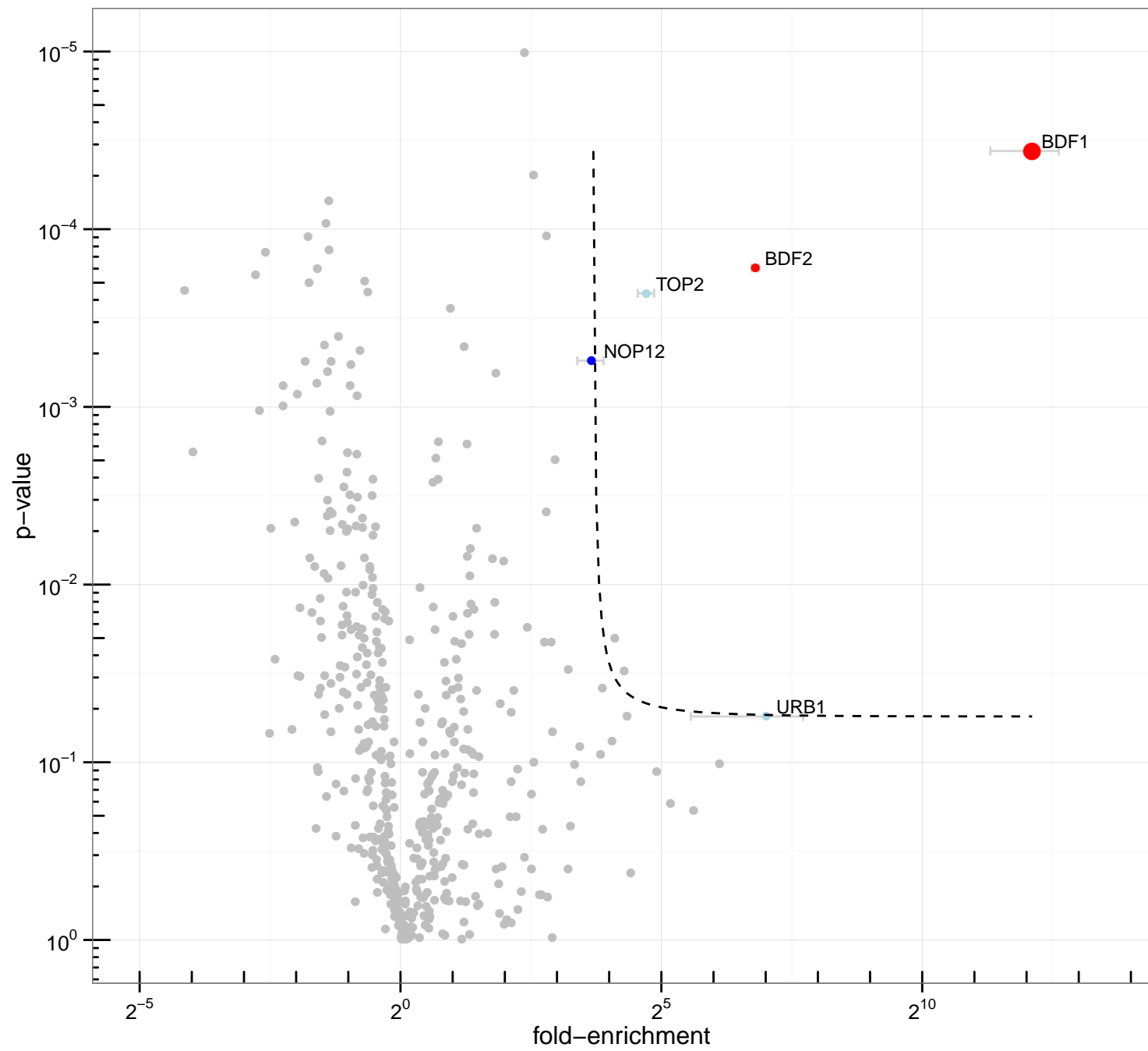
# Missing values



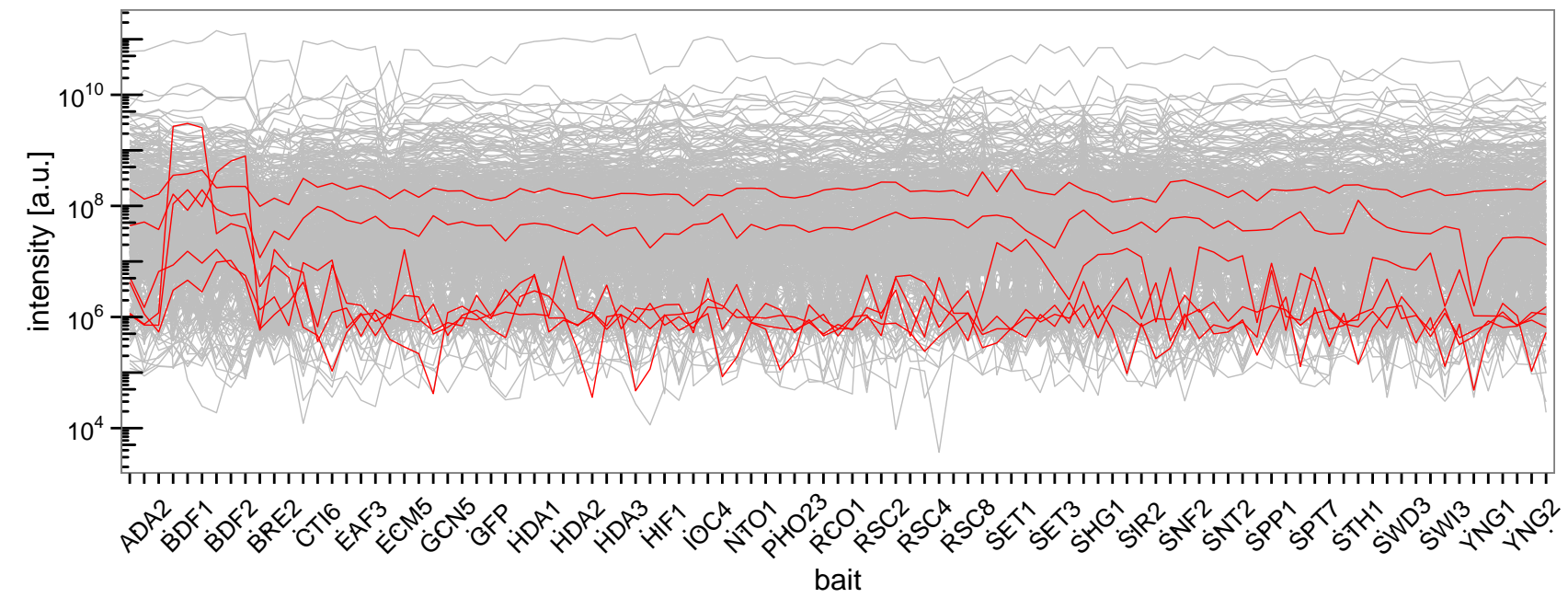
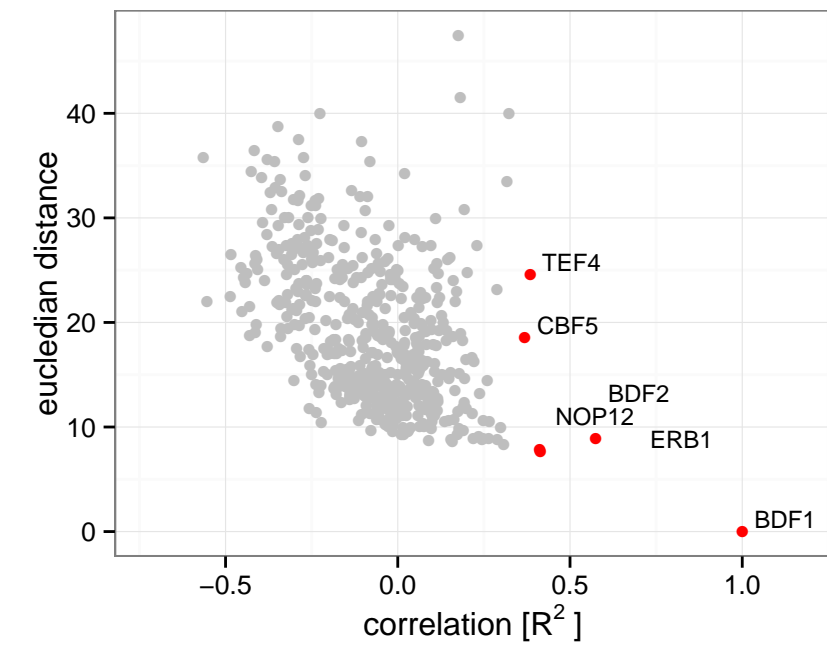
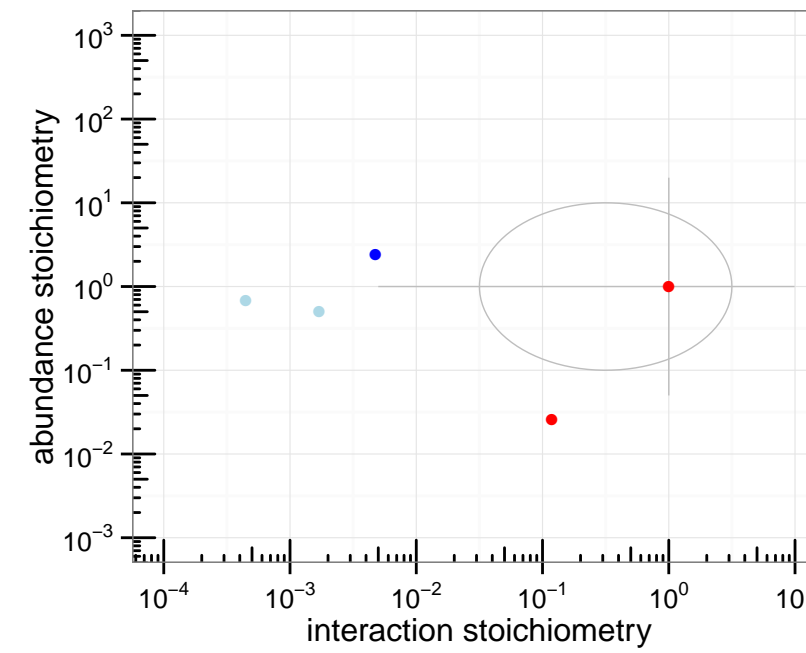
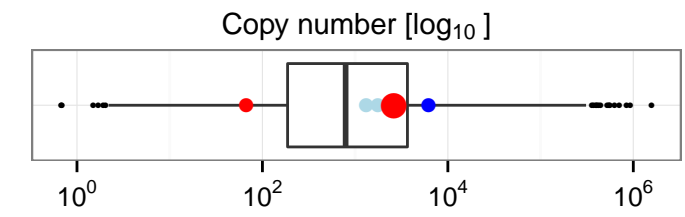
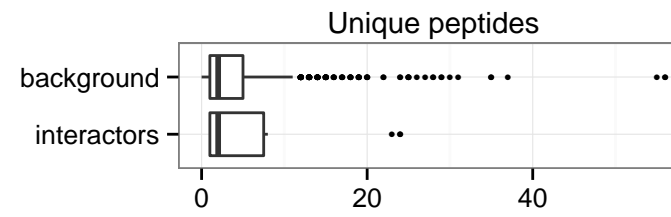


<b>bait</b>	BDF1
<b>experiment</b>	27 minutes

<b>interactors</b>	5
<b>recovery</b>	0 %



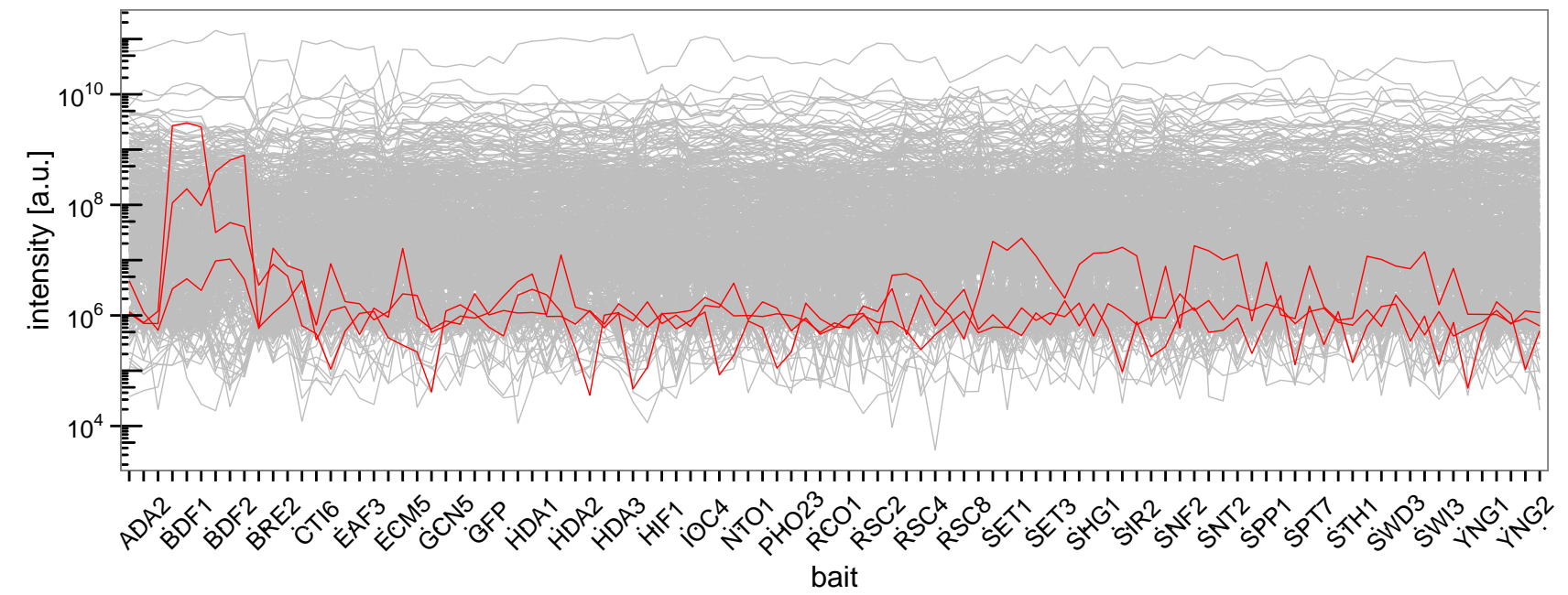
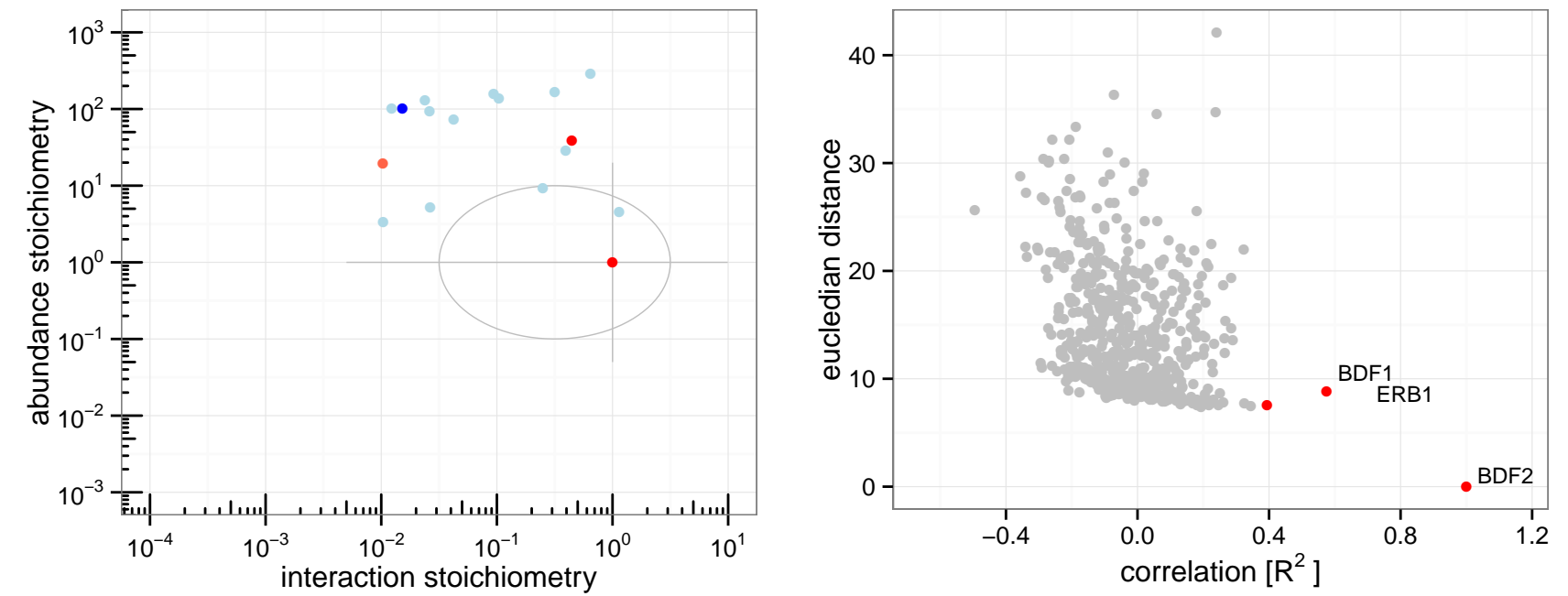
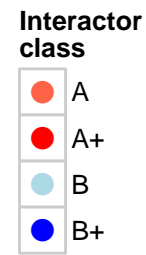
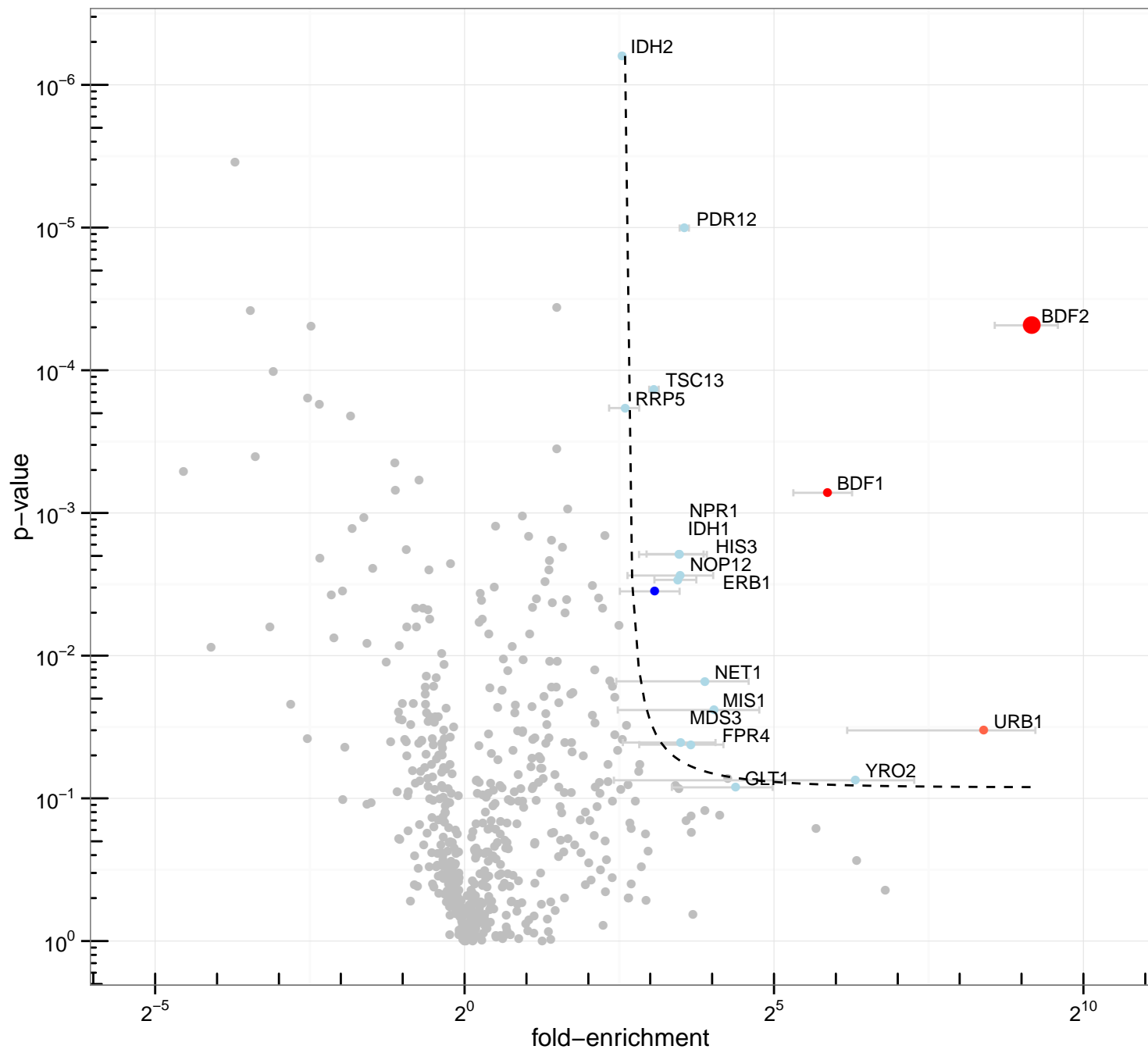
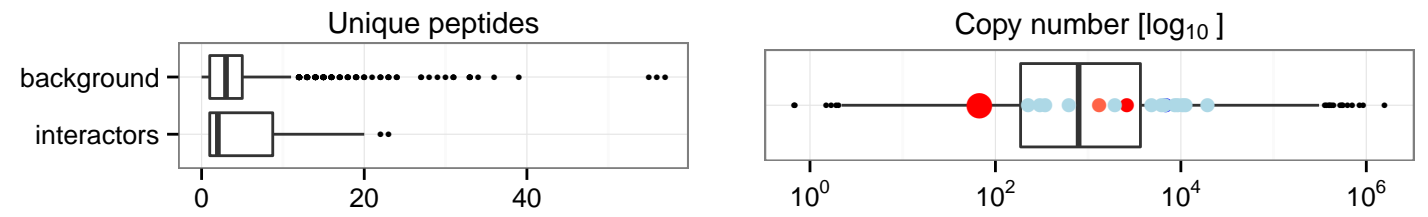
	BDF1	BDF2	NOP12
<i>significance</i>	12.0	6.9	4.2
<i>interactor class</i>	A+	A+	B+





<b>bait</b>	BDF2
<b>experiment</b>	27 minutes

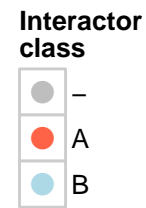
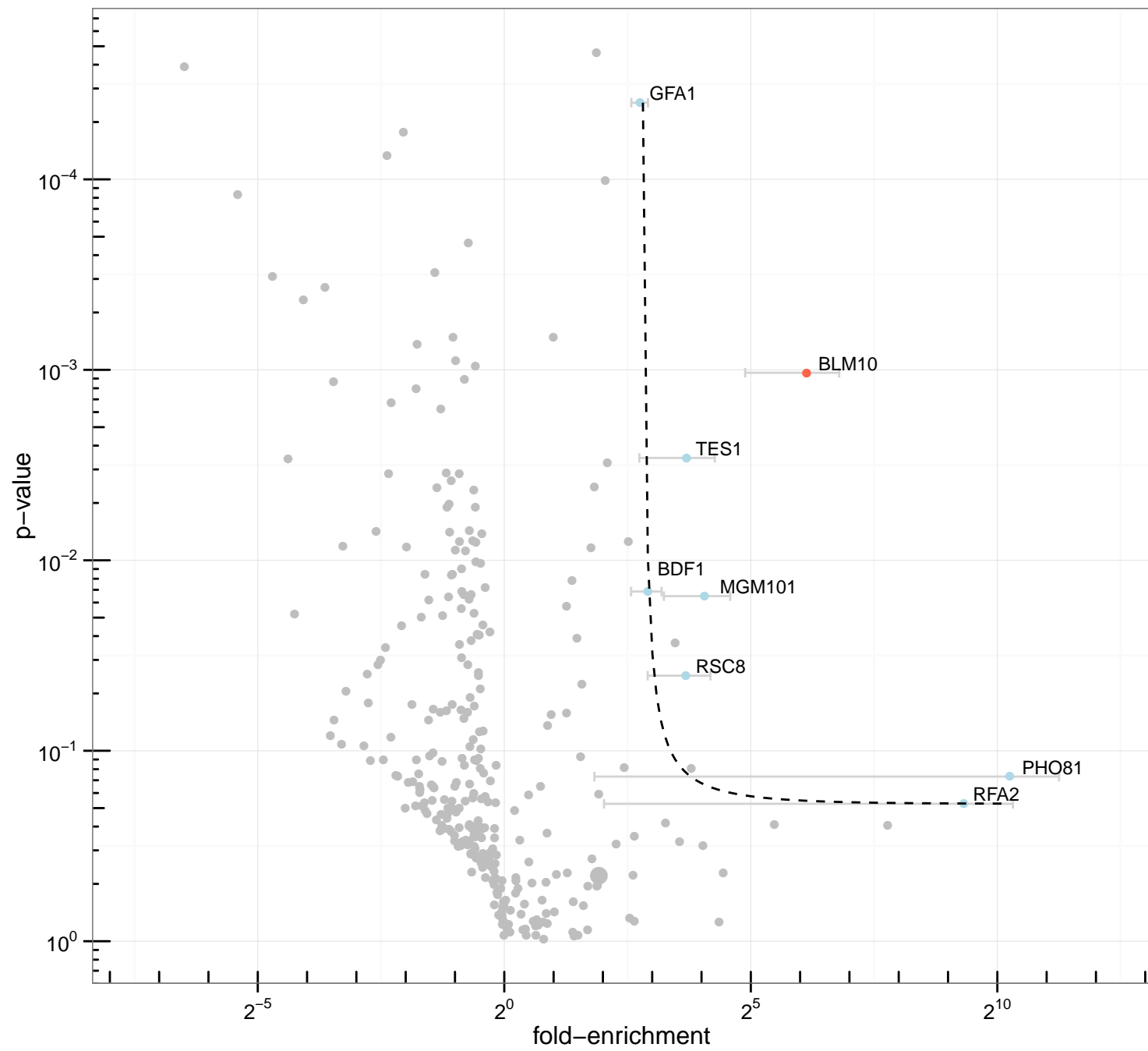
<b>interactors</b>	18
<b>recovery</b>	0 %



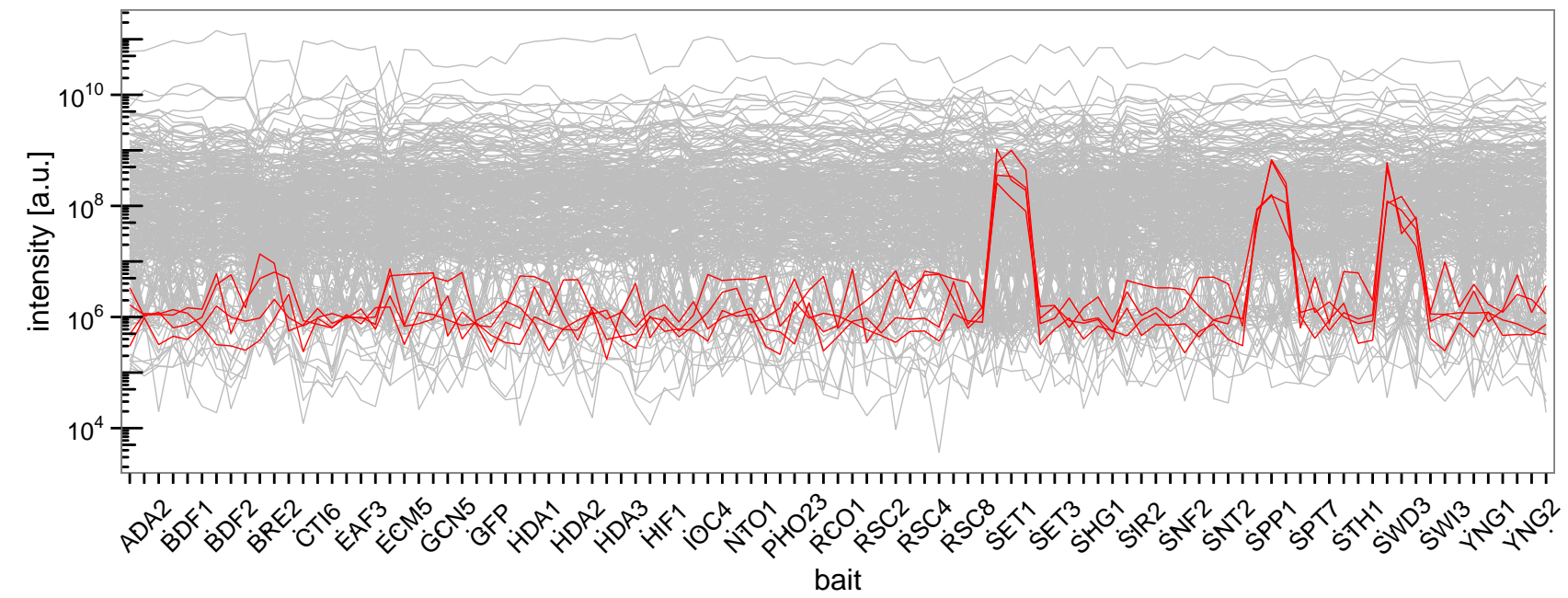
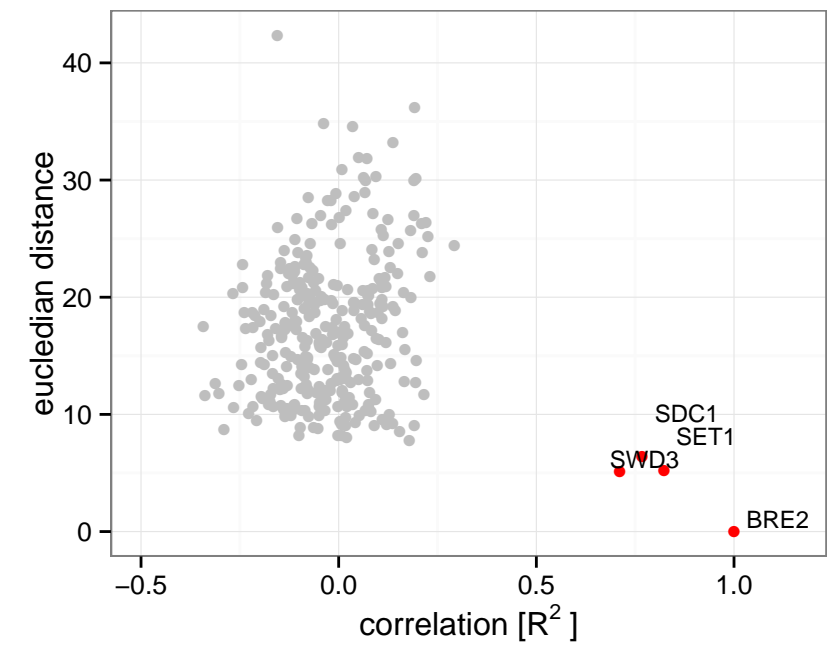
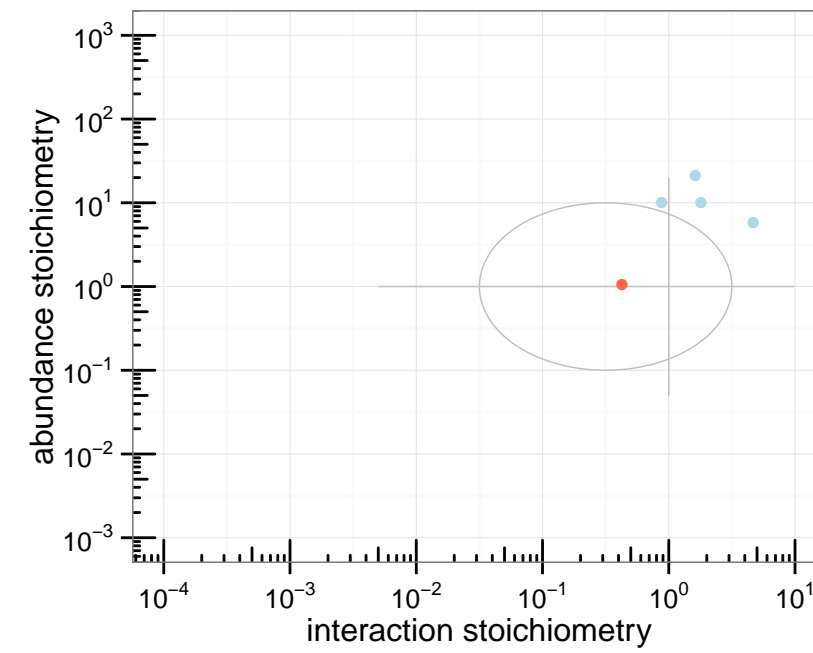
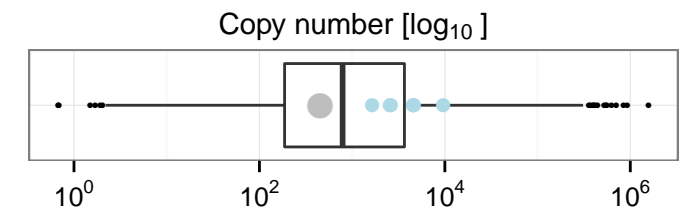
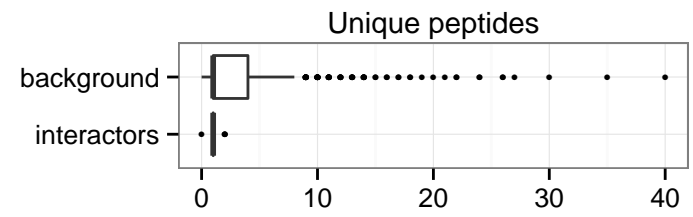
	BDF1	BDF2	ERB1	URB1
<i>significance</i>	5.8	9.2	3.2	7.5
<i>interactor class</i>	A+	A+	B+	A

<b>bait</b>	BRE2
<b>experiment</b>	27 minutes

<b>interactors</b>	8
<b>recovery</b>	0 %

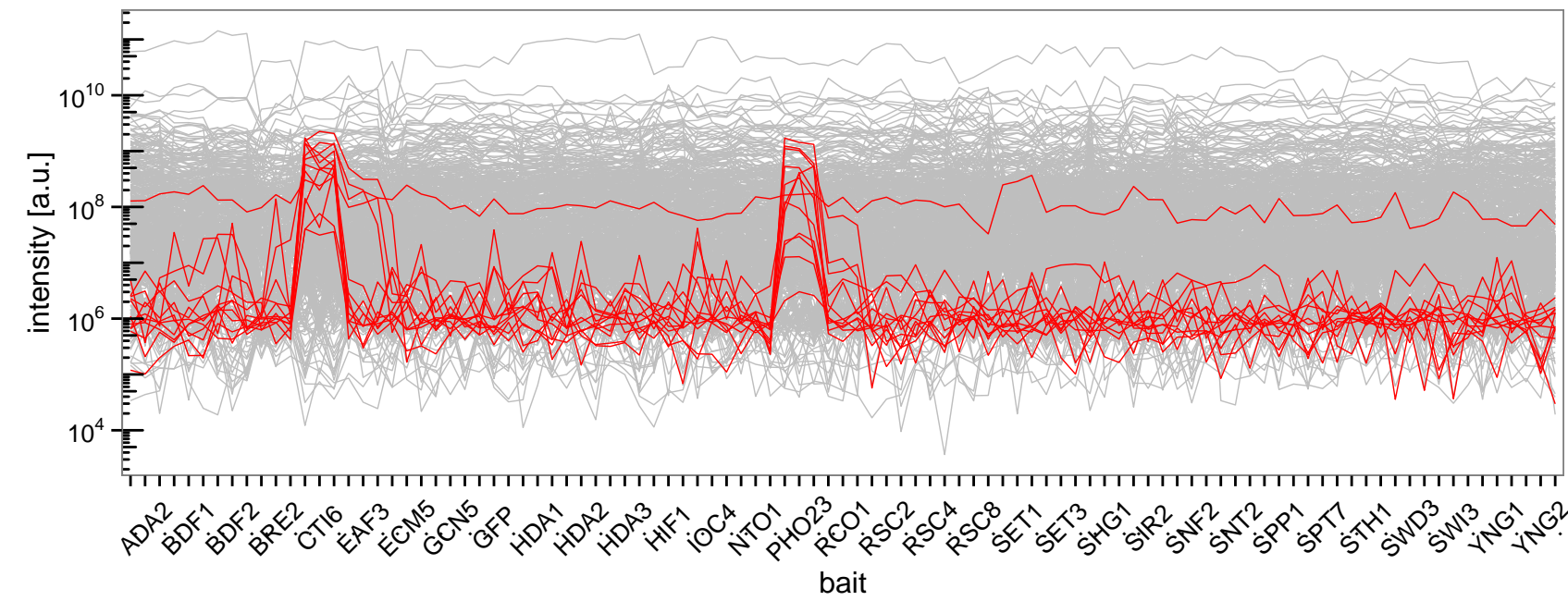
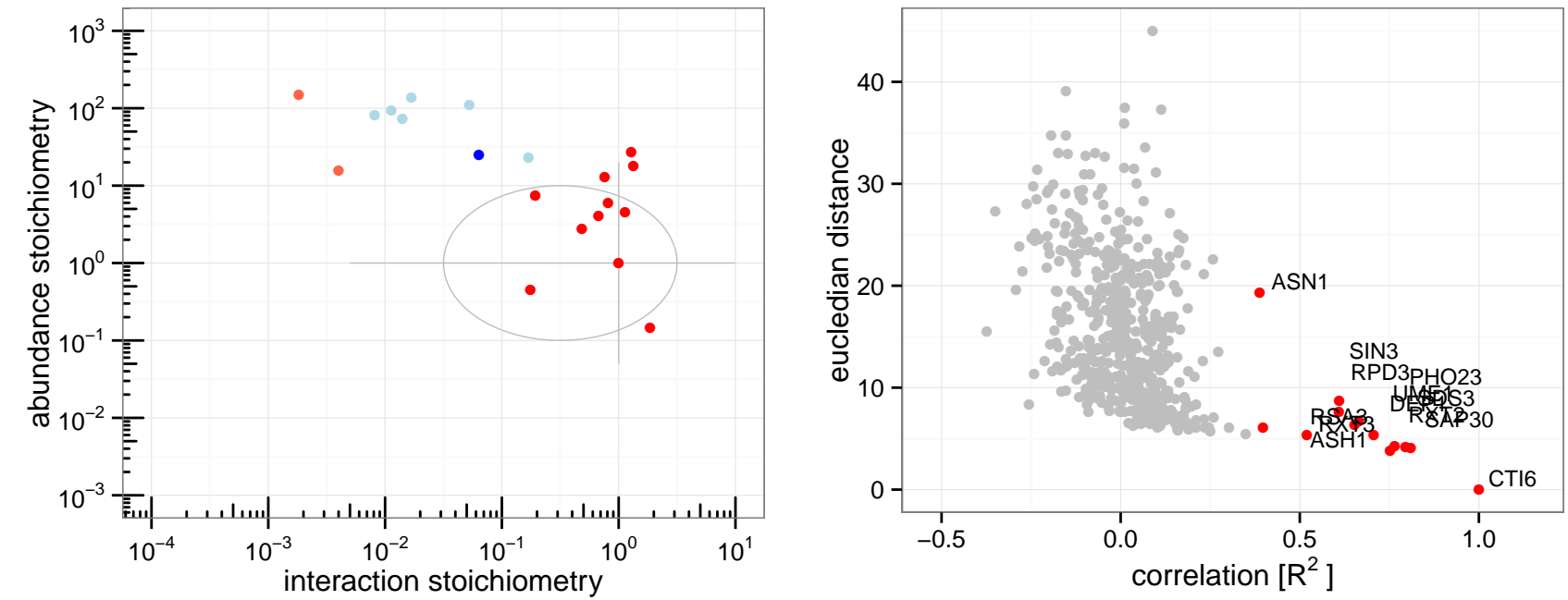
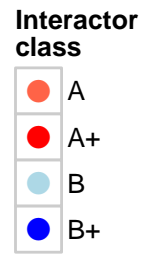
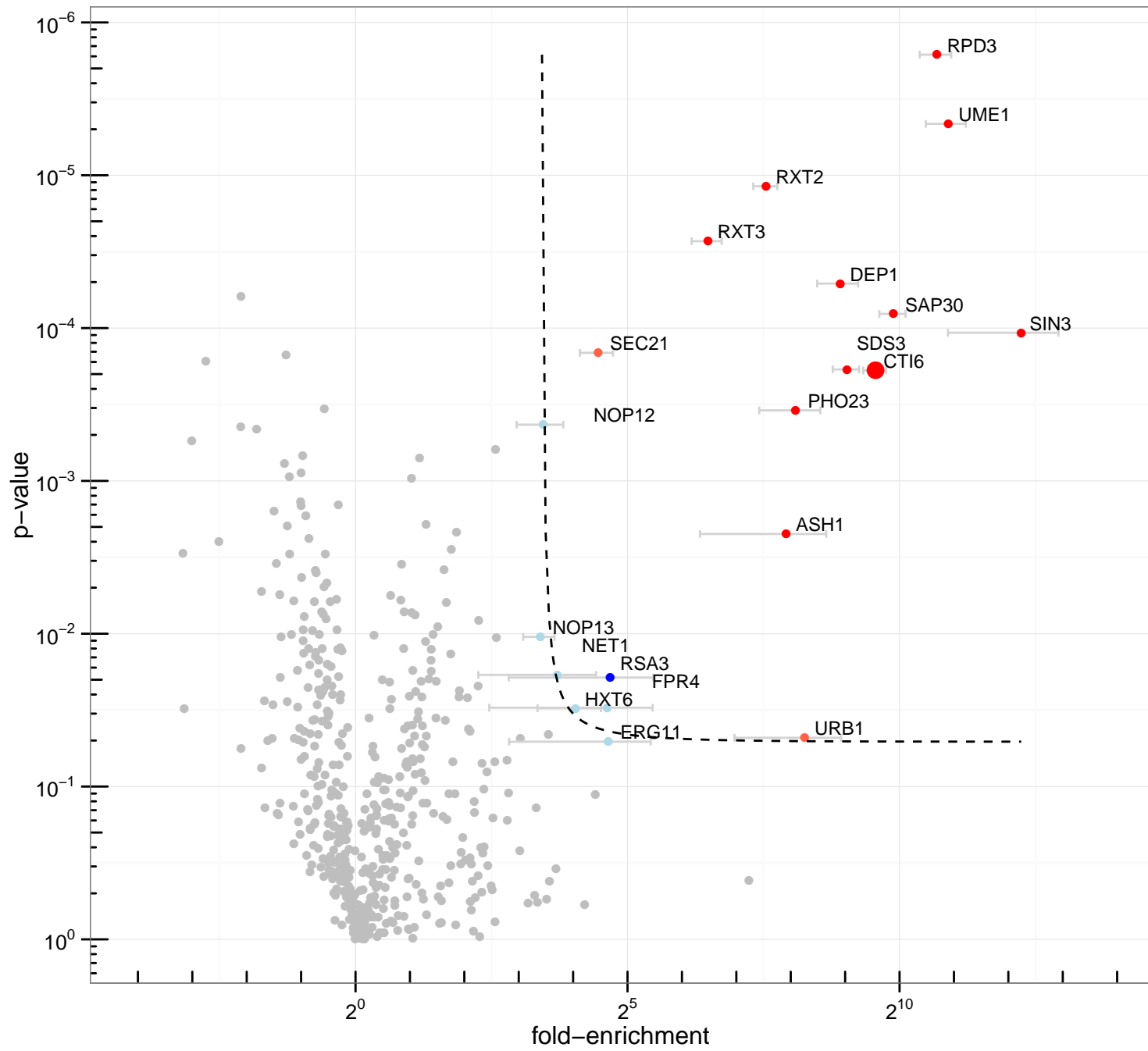
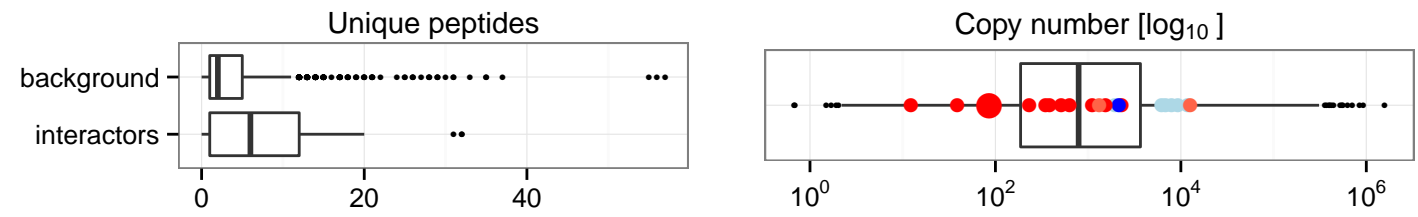


	<b>BLM10</b>
<i>significance</i>	5.9
<i>interactor class</i>	A



<b>bait</b>	CTI6
<b>experiment</b>	27 minutes

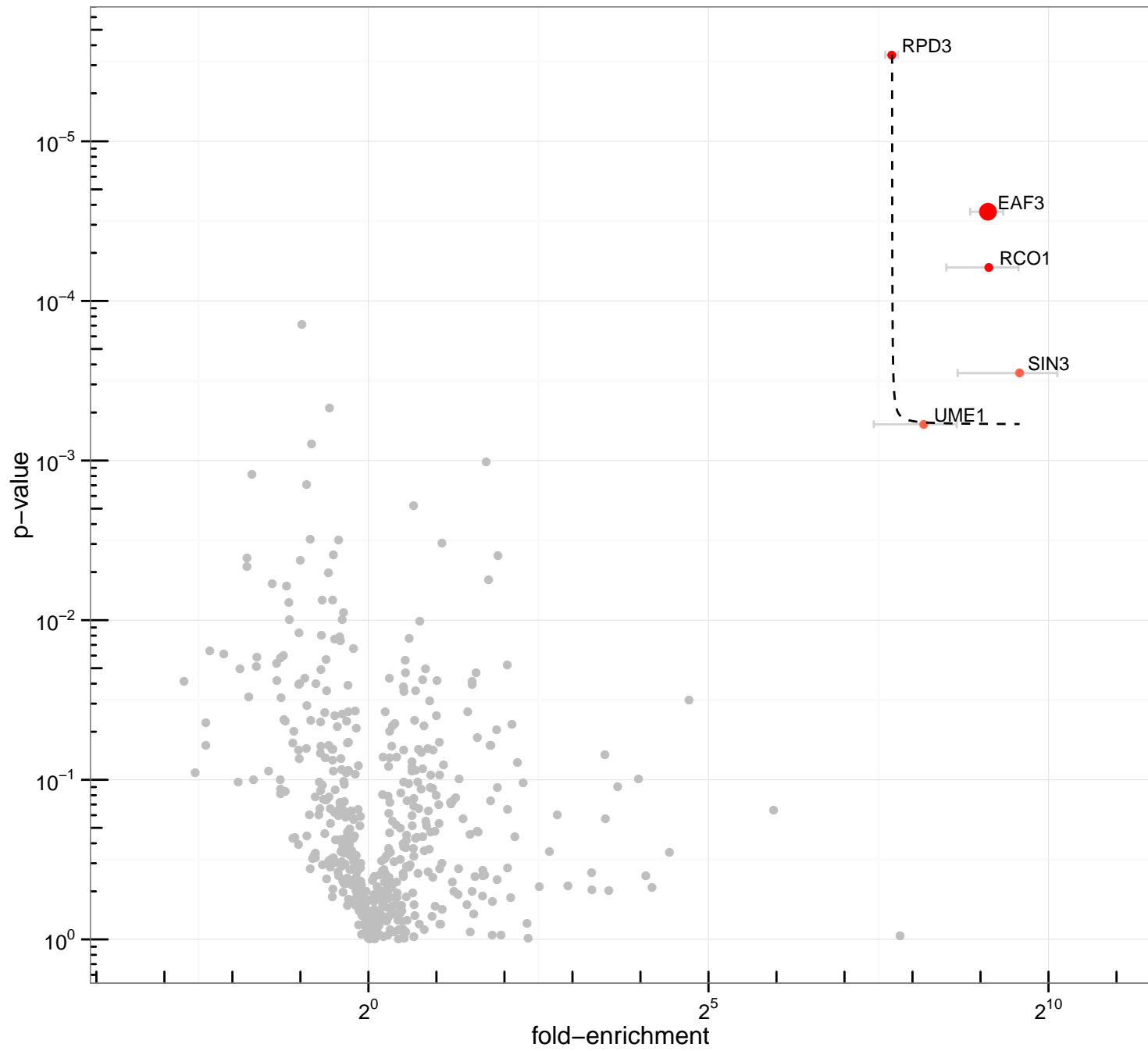
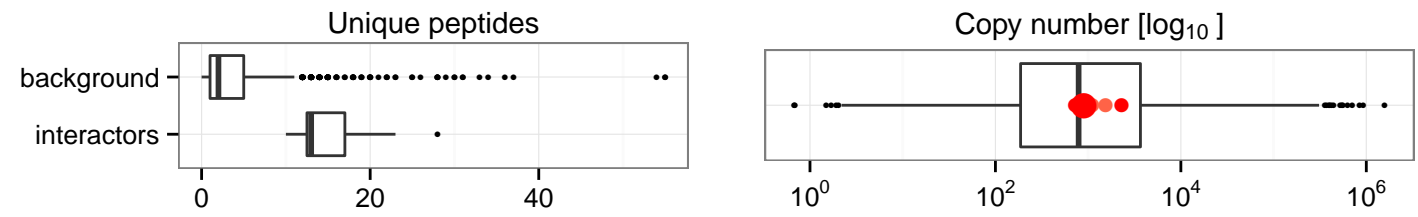
<b>interactors</b>	20
<b>recovery</b>	48 %



	ASH1	CTI6	DEP1	PHO23	RPD3	RSA3	RXT2	RXT3	SAP30	SDS3	SEC21	SIN3	UME1	URB1
<i>significance</i>	7.4	9.3	9.0	7.9	11.0	4.1	8.2	7.1	9.8	8.9	5.2	12.0	11.0	7.4
<i>interactor class</i>	A+	A+	A+	A+	A+	B+	A+	A+	A+	A+	A	A+	A+	A

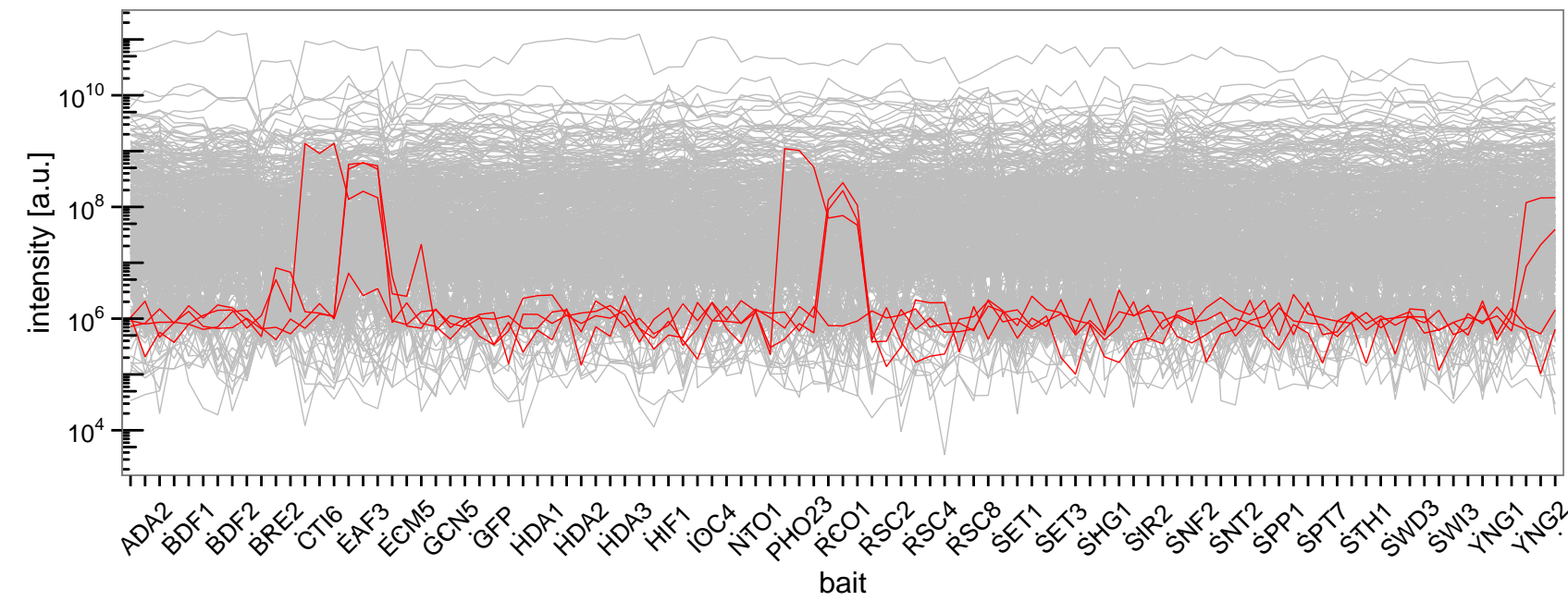
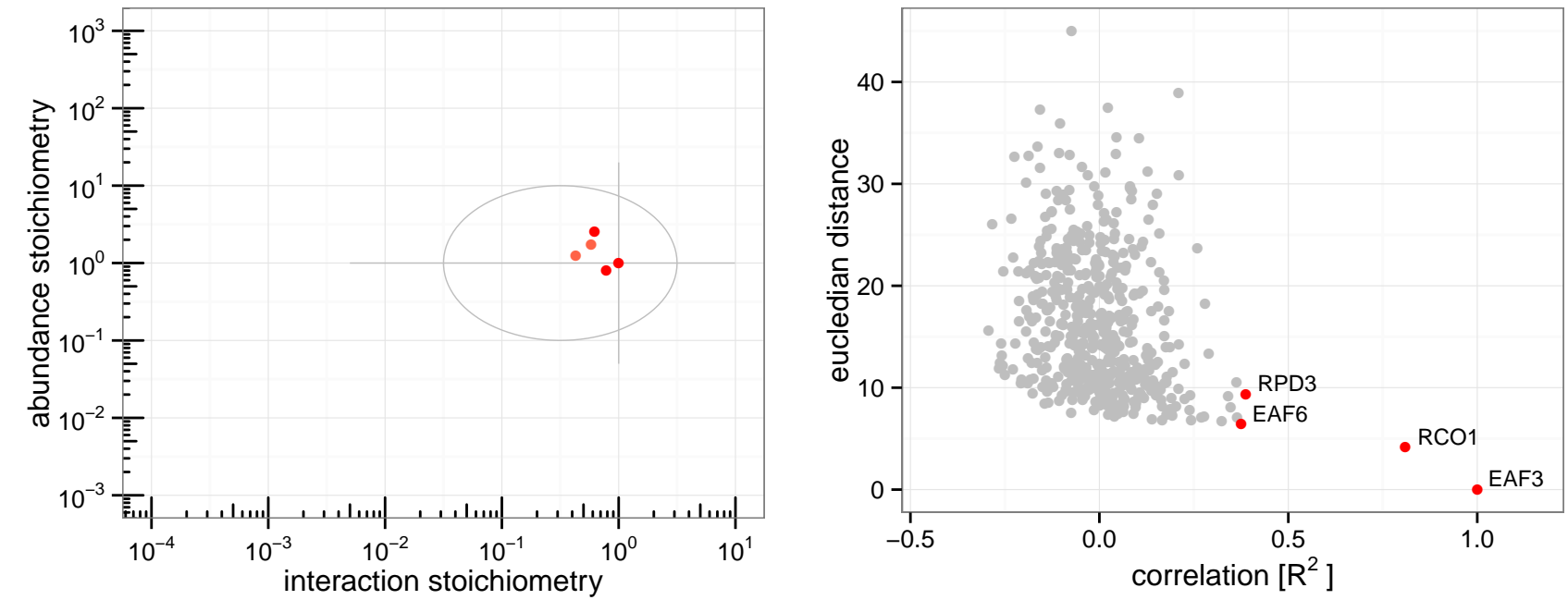
<b>bait</b>	EAF3
<b>experiment</b>	27 minutes

<b>interactors</b>	5
<b>recovery</b>	12 %



**Interactor class**

- A
- A+

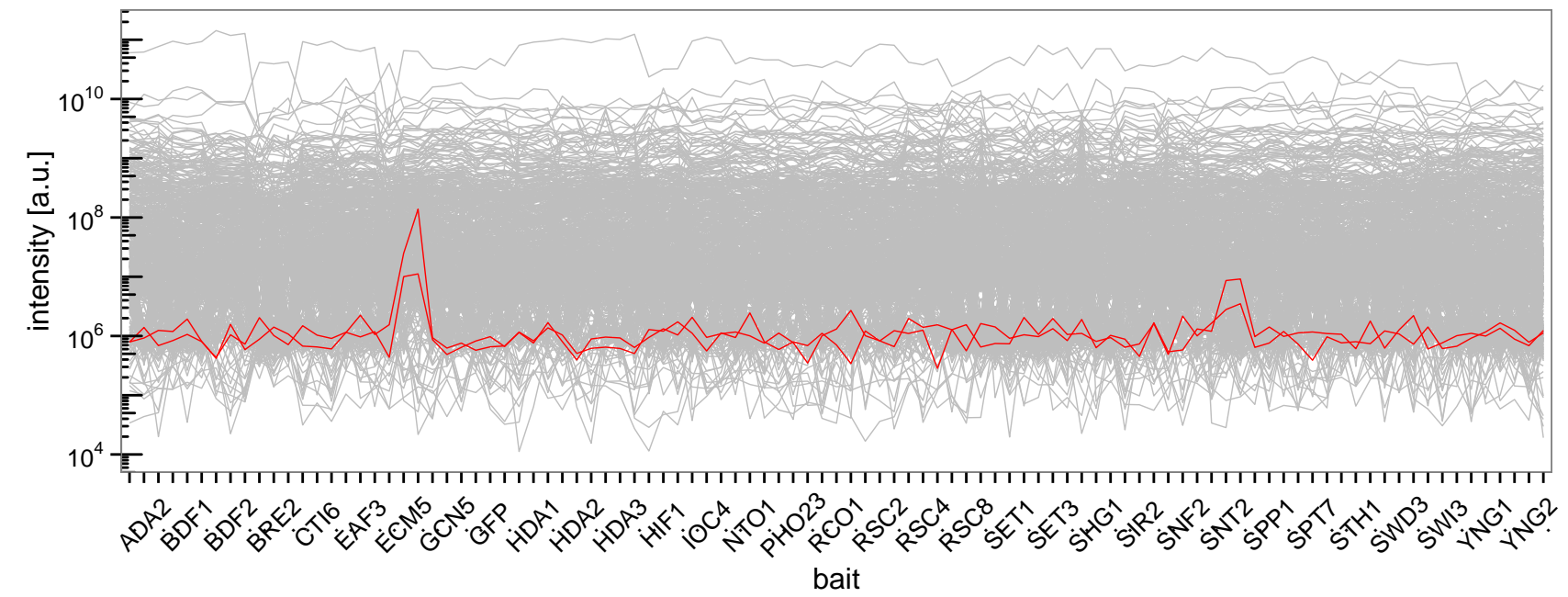
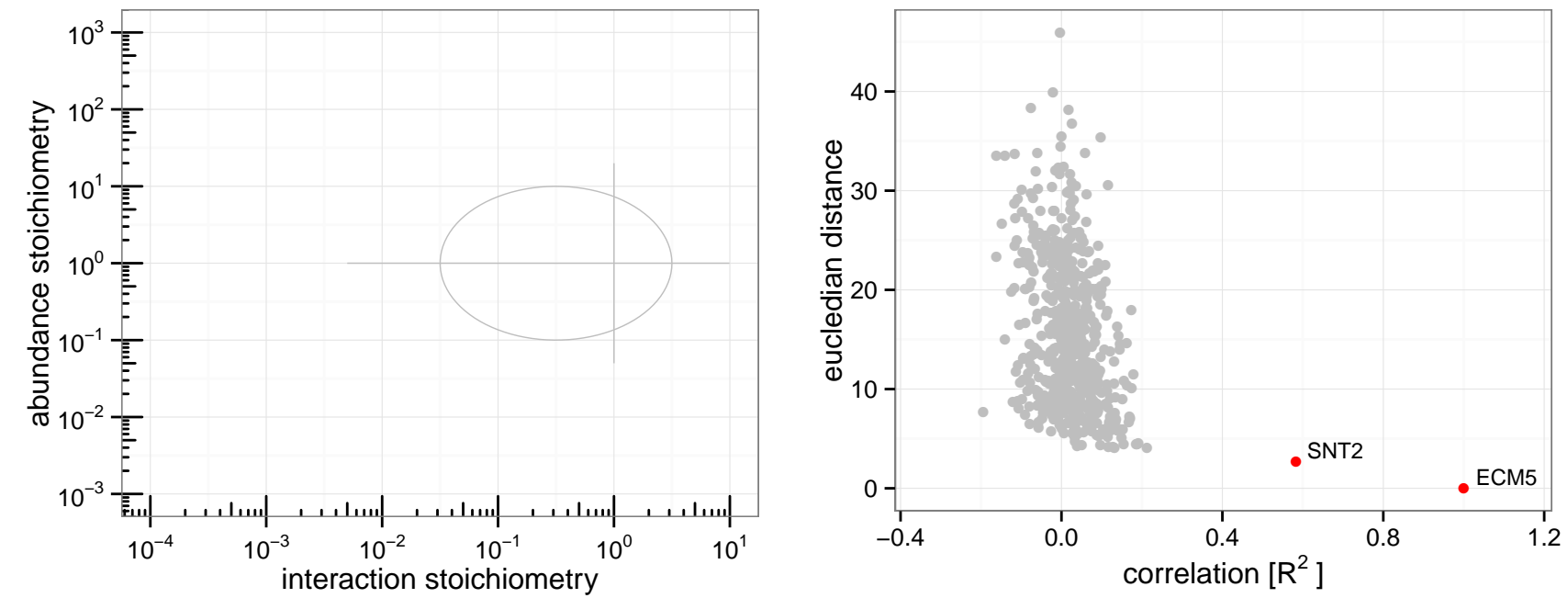
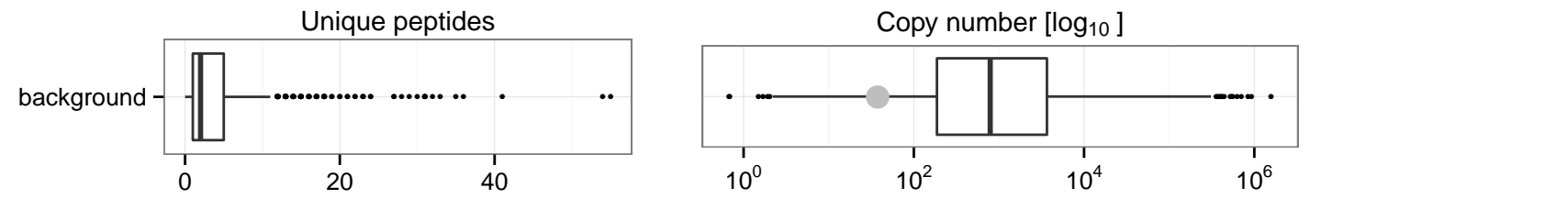


	EAF3	RCO1	RPD3	SIN3	UME1
<i>significance</i>	9.3	9.2	8.7	9.3	7.9
<i>interactor class</i>	A+	A+	A+	A	A



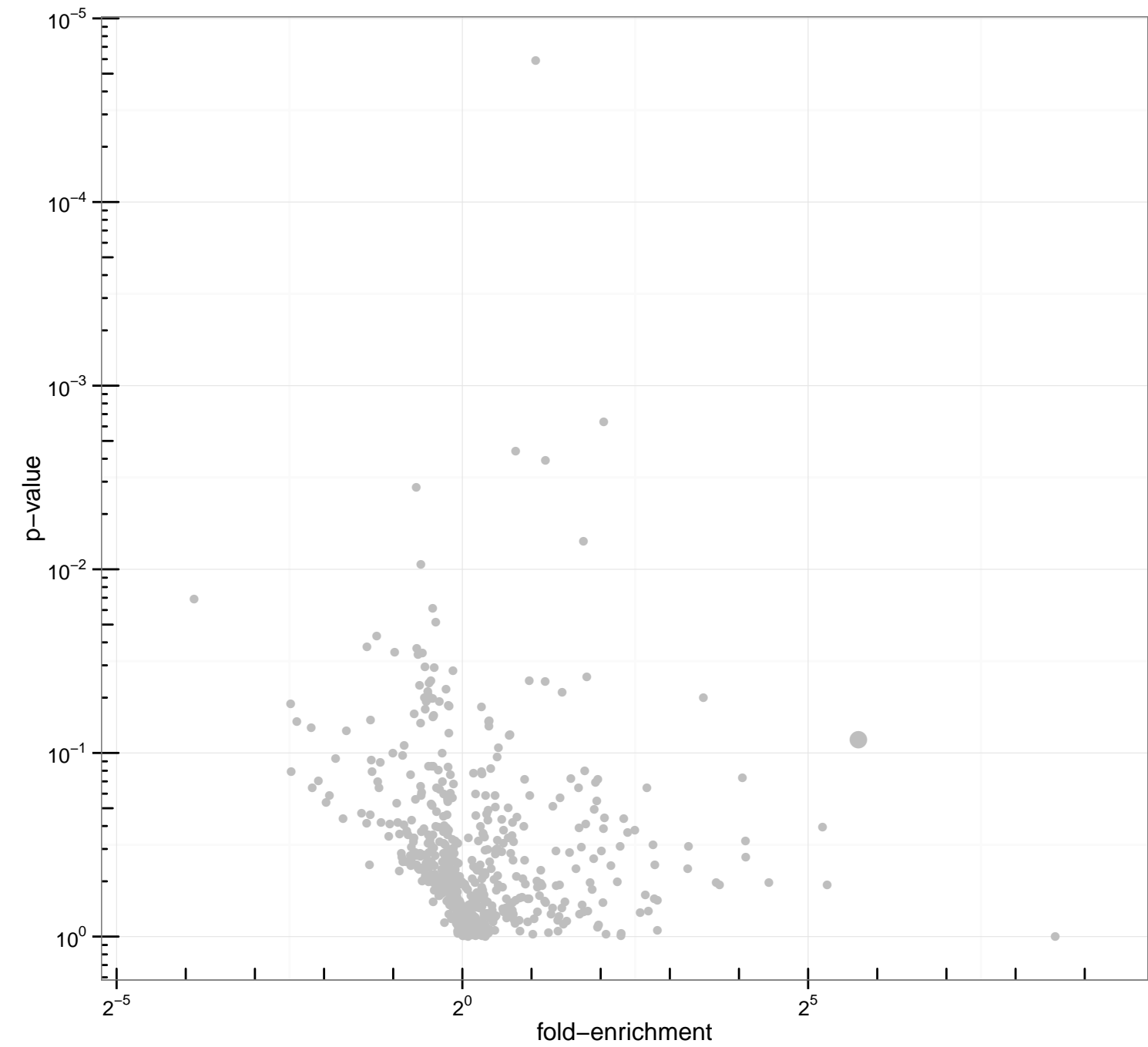
<b>bait</b>	ECM5
<b>experiment</b>	27 minutes

<b>interactors</b>	0
<b>recovery</b>	0 %



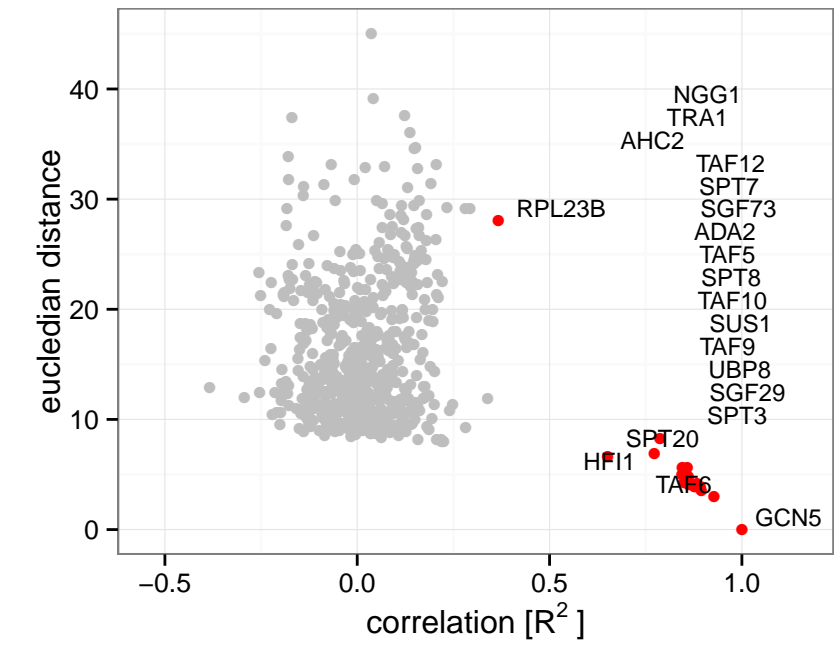
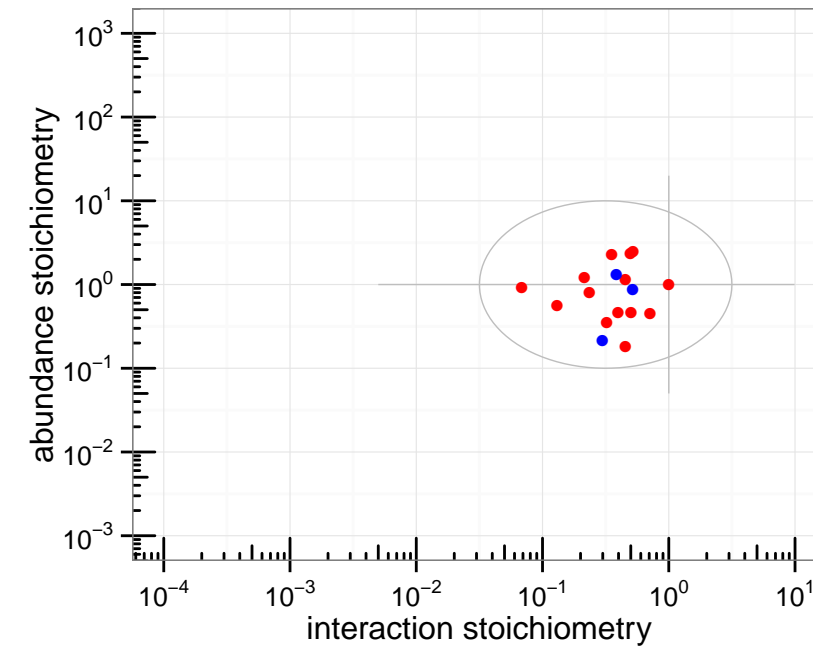
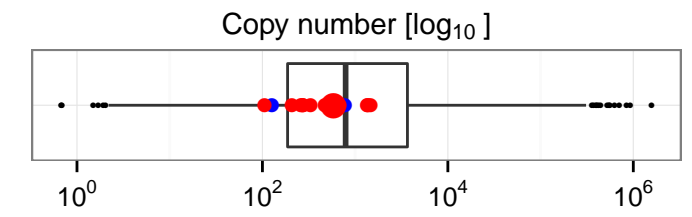
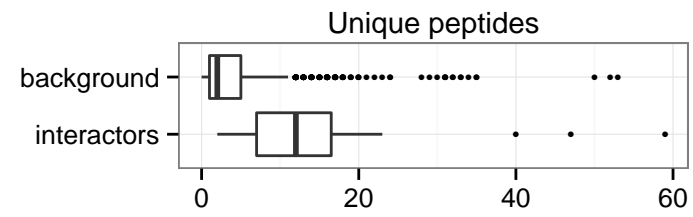
**Interactor class**  
 -

*significance*  
*interactor class*



<b>bait</b>	GCN5
<b>experiment</b>	27 minutes

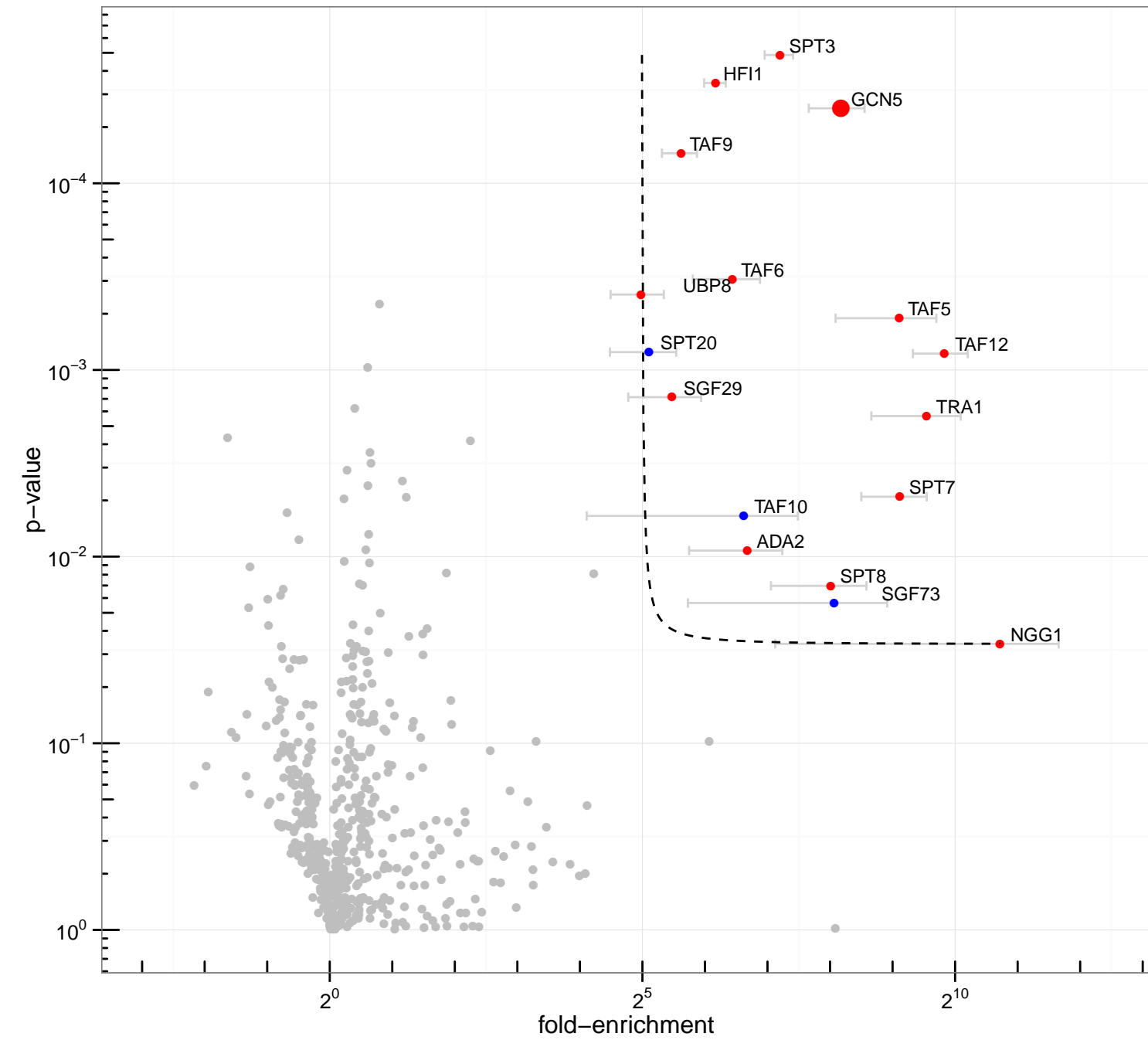
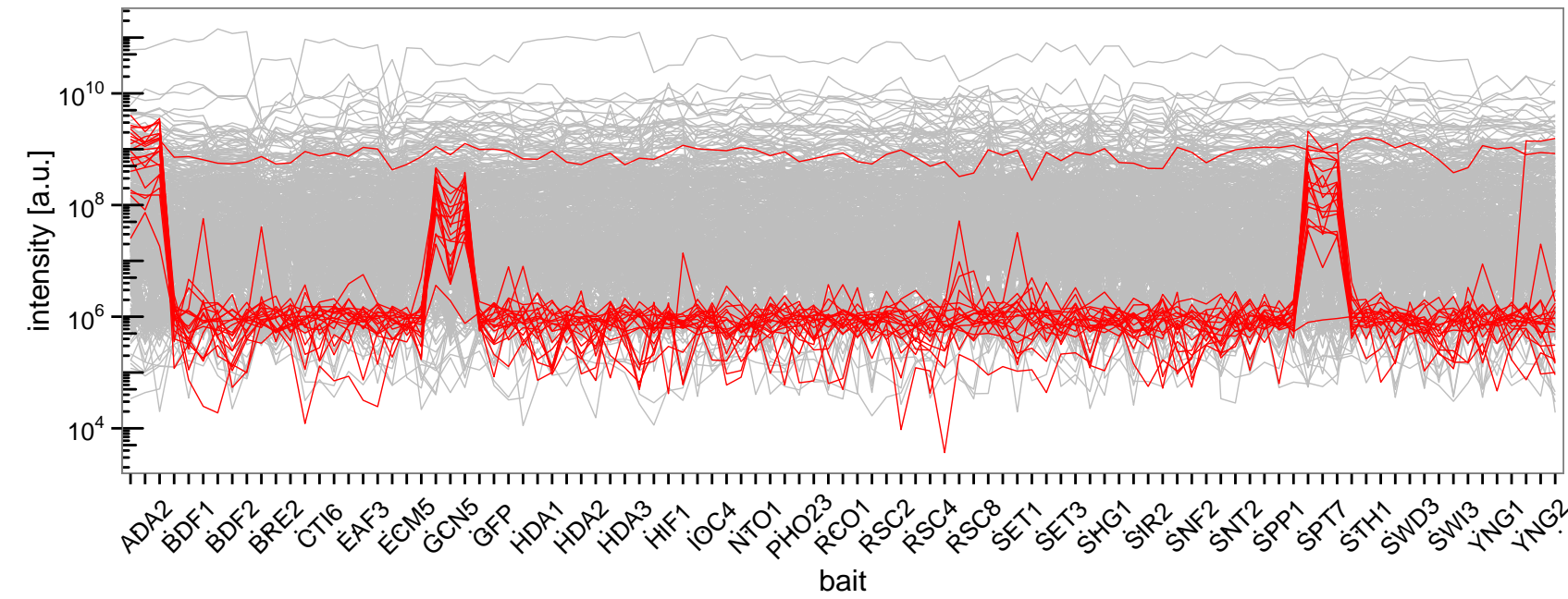
<b>interactors</b>	17
<b>recovery</b>	71 %



**Interactor class**

● A+

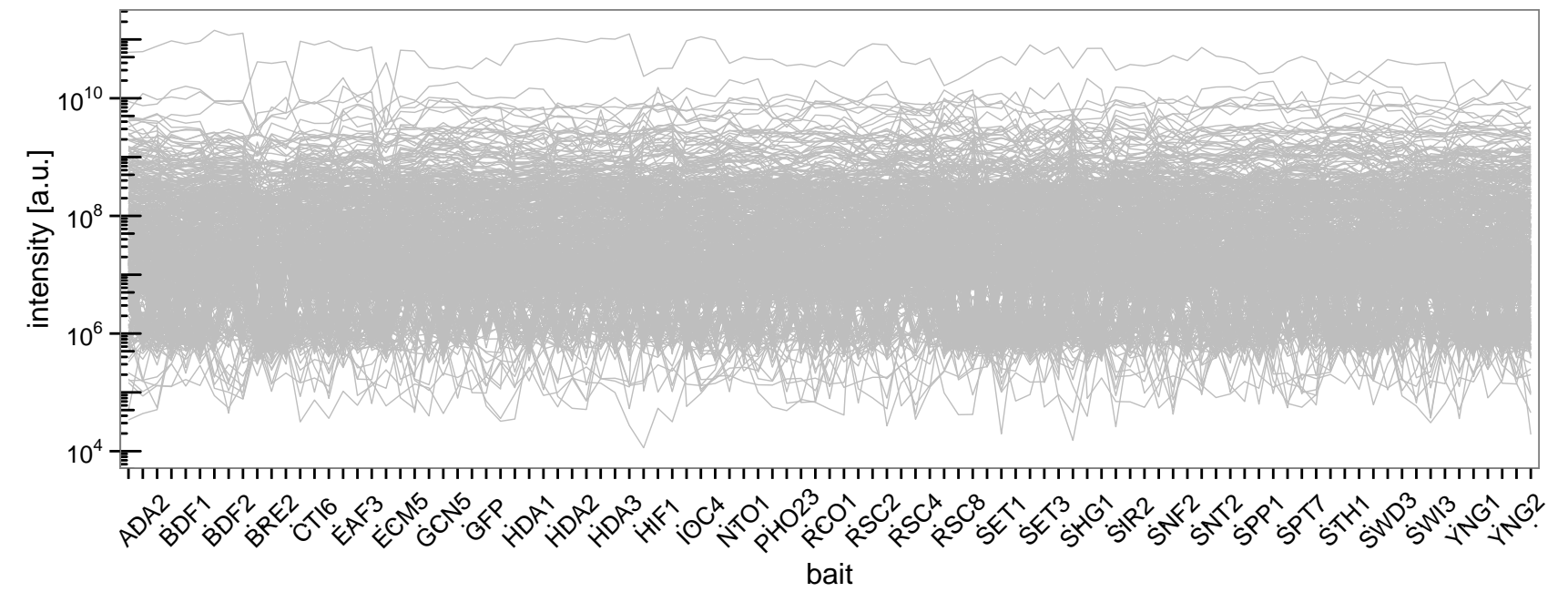
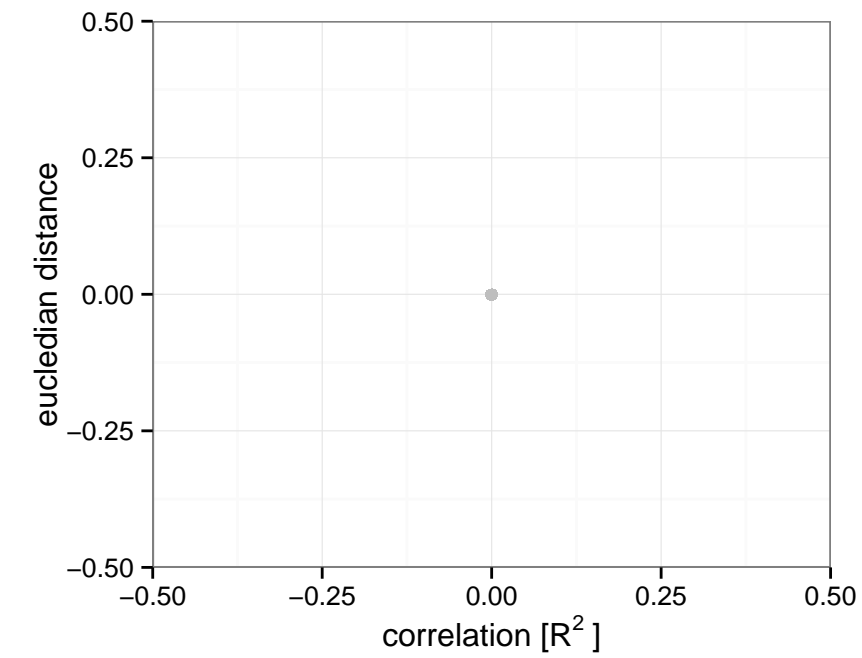
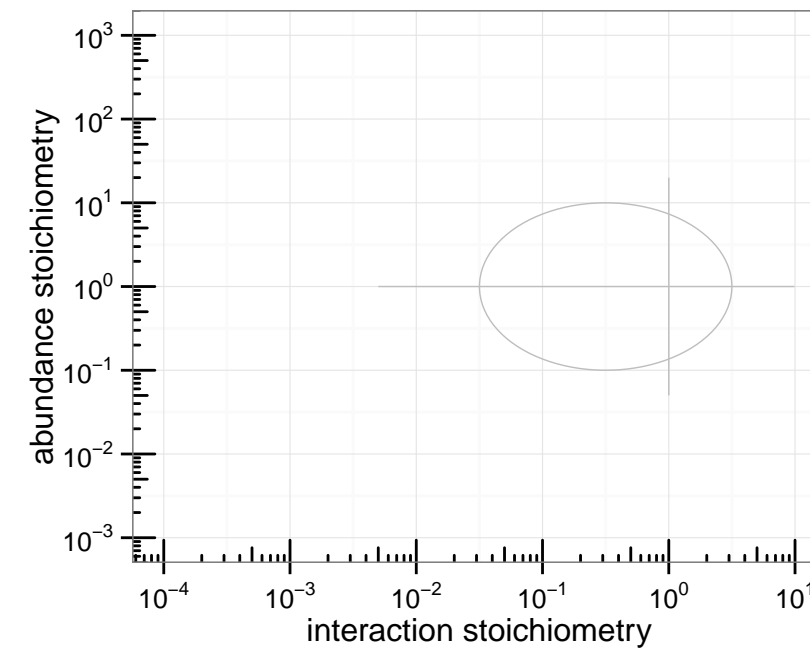
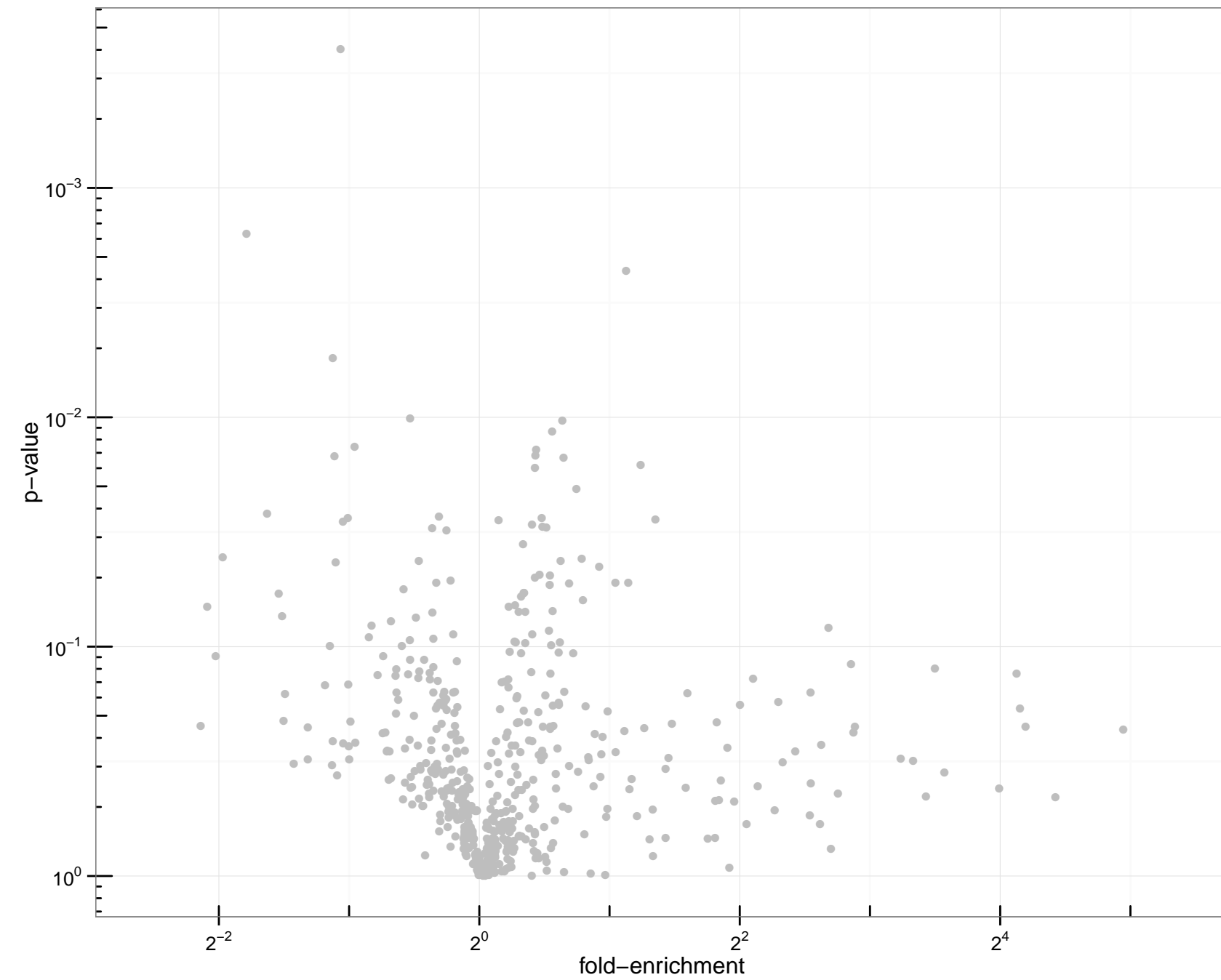
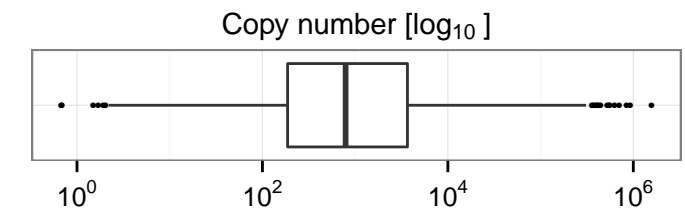
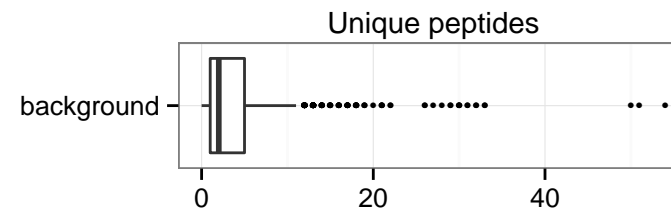
● B+



	ADA2	GCN5	HF11	NGG1	SGF29	SGF73	SPT20	SPT3	SPT7	SPT8	TAF10	TAF12	TAF5	TAF6	TAF9	TRA1	UBP8
<i>significance</i>	6.0	8.4	6.9	9.8	5.3	7.3	5.1	7.8	8.4	7.3	6.0	9.4	8.7	6.5	6.2	9.0	5.2
<i>interactor class</i>	A+	A+	A+	A+	A+	B+	B+	A+	A+	A+	B+	A+	A+	A+	A+	A+	A+

<b>bait</b>	GFP
<b>experiment</b>	27 minutes

<b>interactors</b>	0
<b>recovery</b>	NaN %

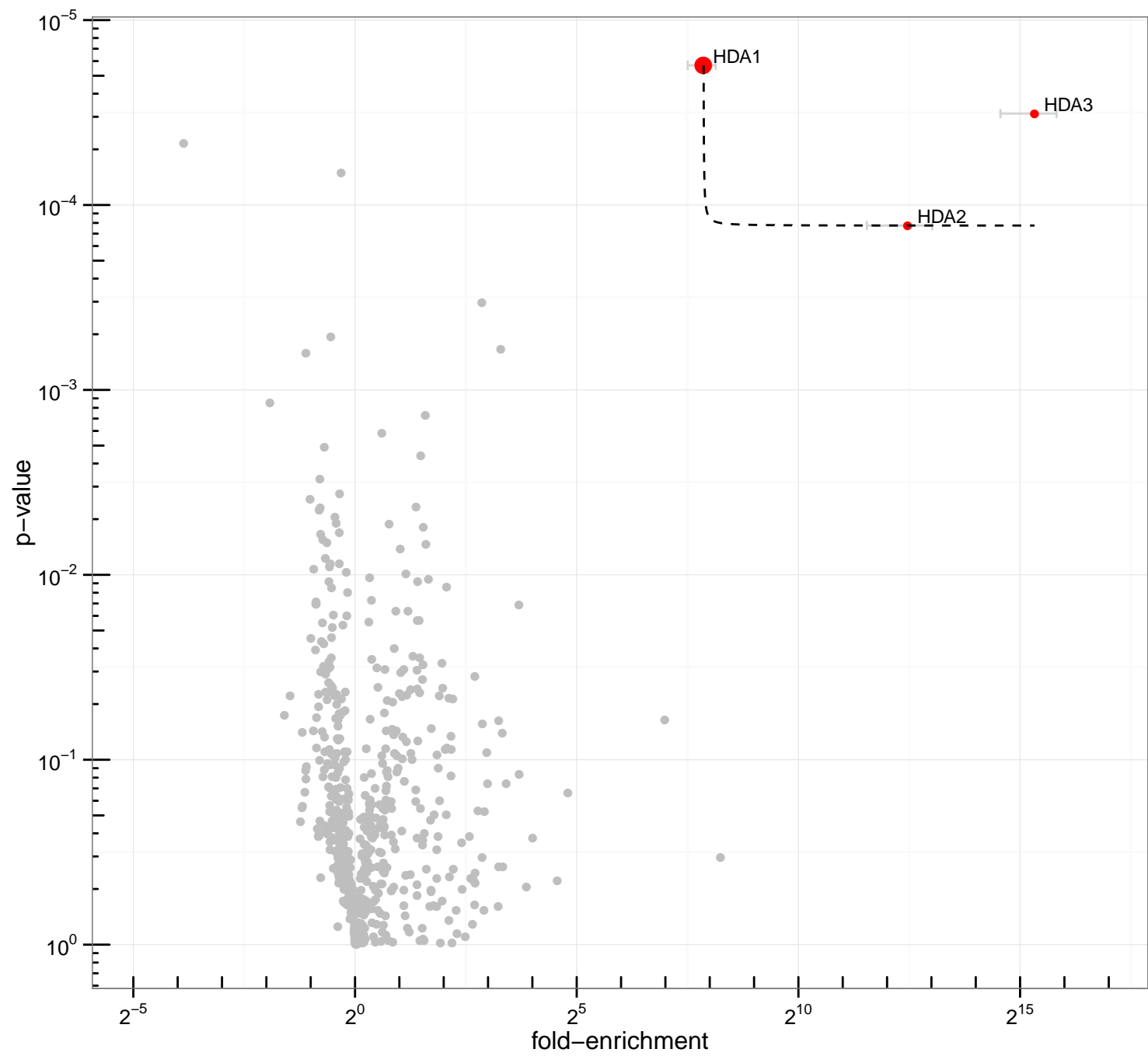


significance  
interactor class



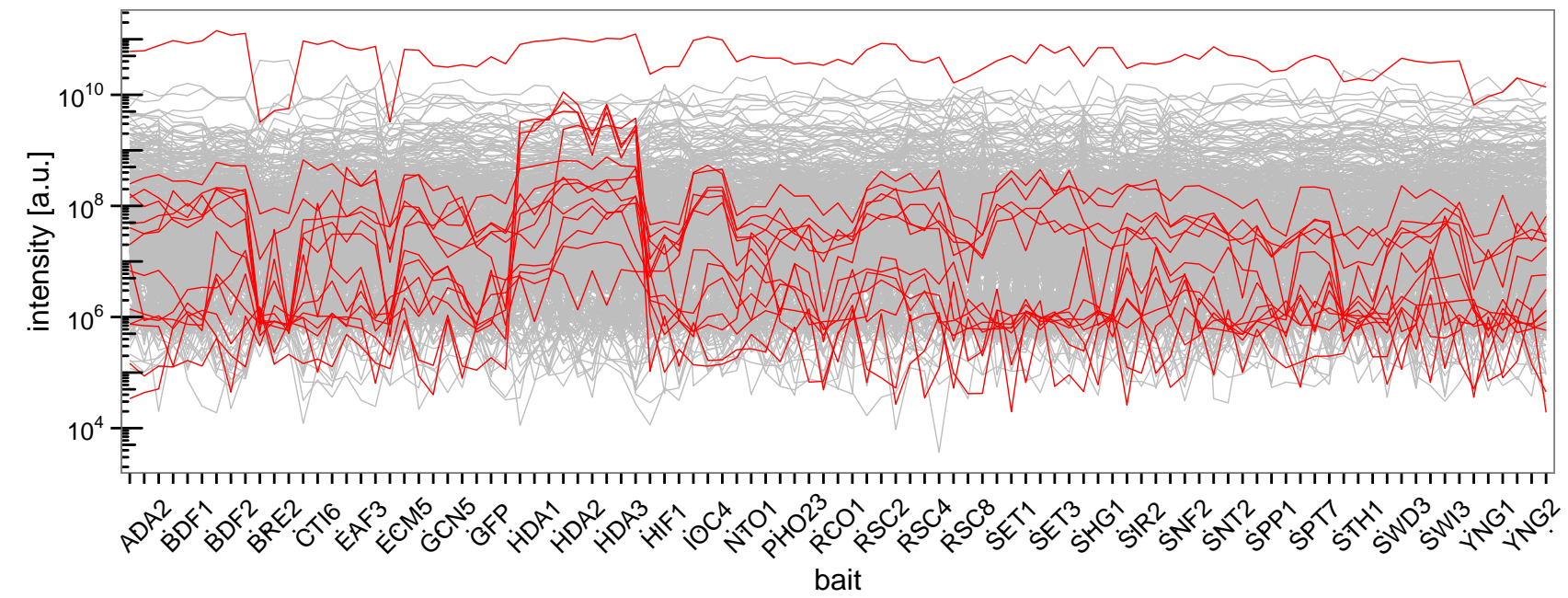
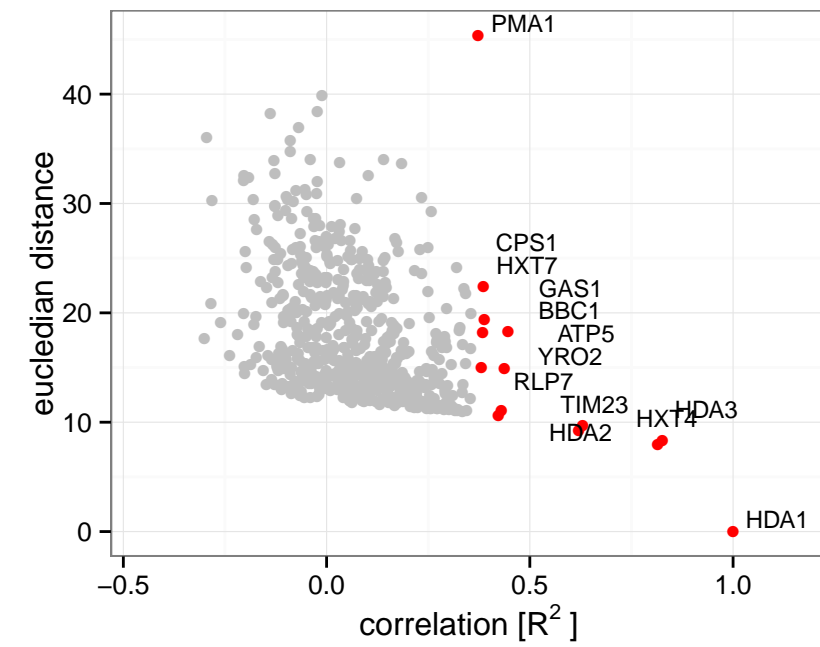
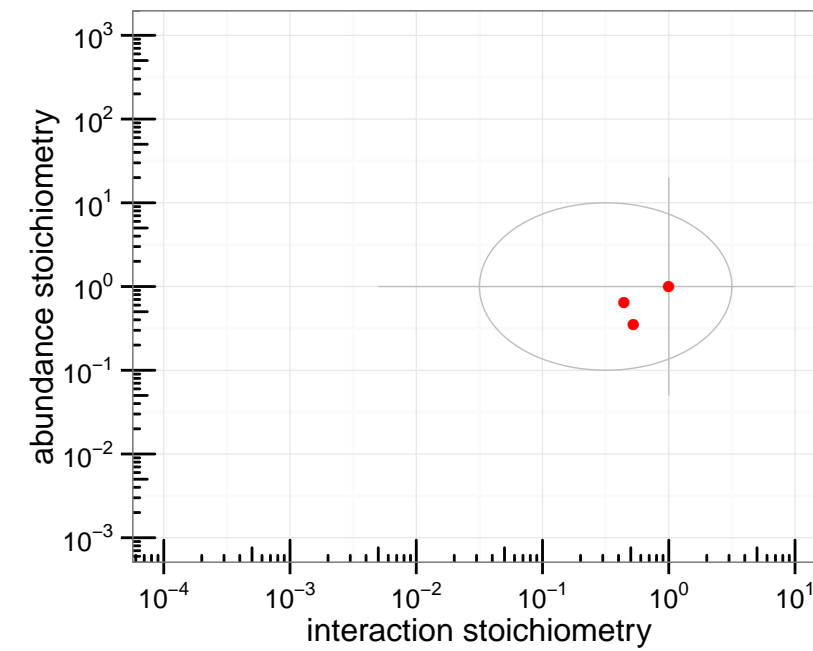
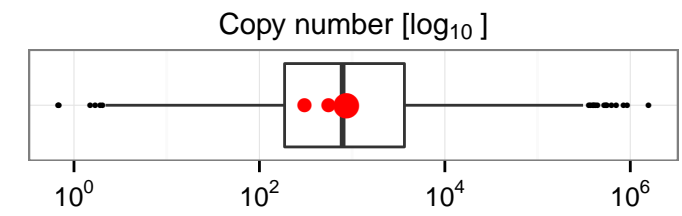
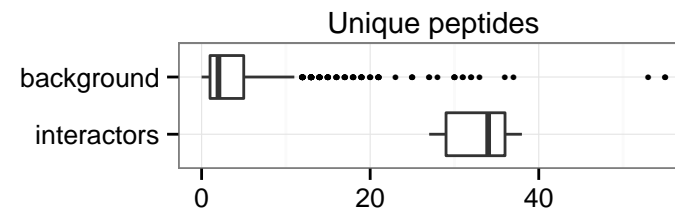
<b>bait</b>	HDA1
<b>experiment</b>	27 minutes

<b>interactors</b>	3
<b>recovery</b>	100 %



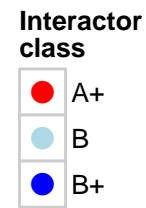
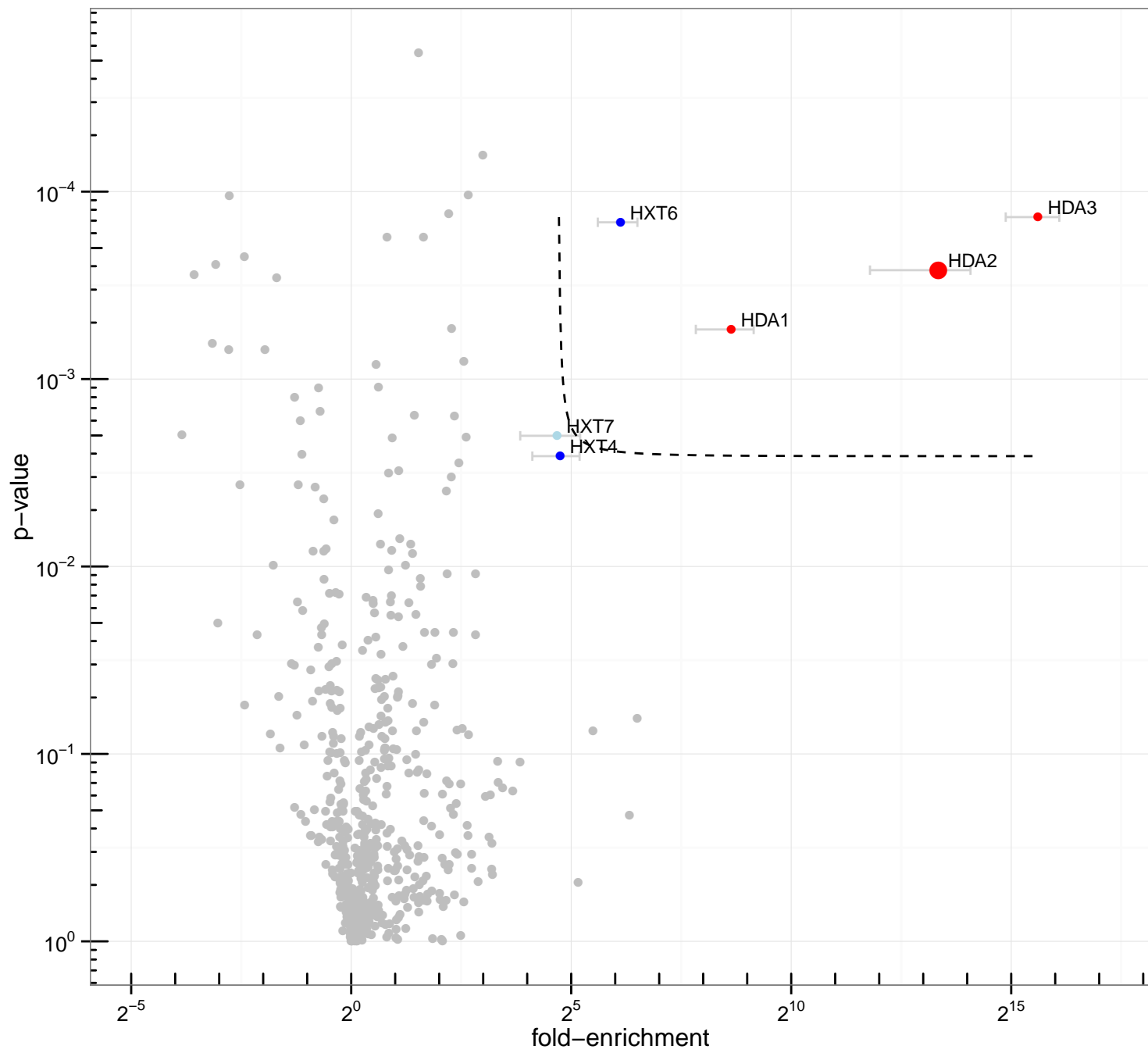
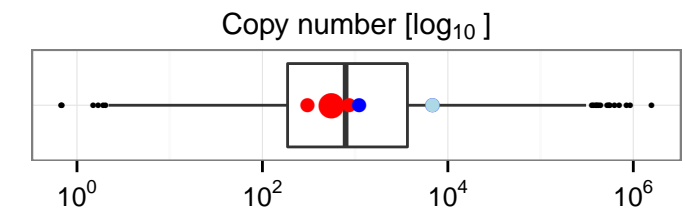
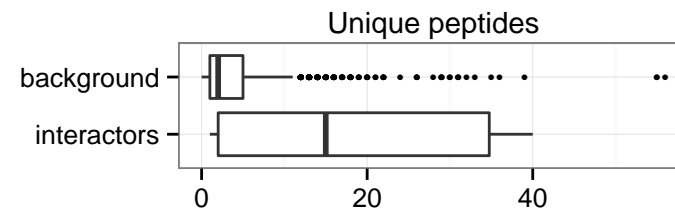
**Interactor class**  
● A+

	HDA1	HDA2	HDA3
<i>significance</i>	8.3	12.0	15.0
<i>interactor class</i>	A+	A+	A+

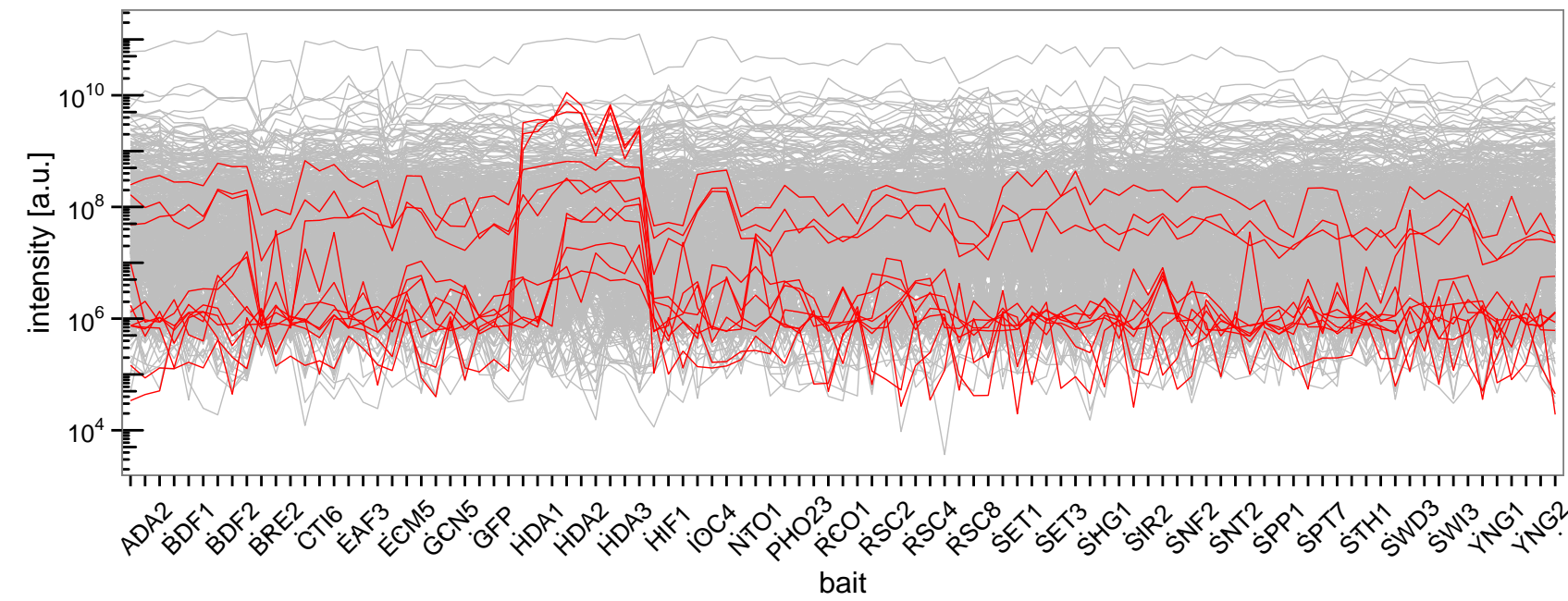
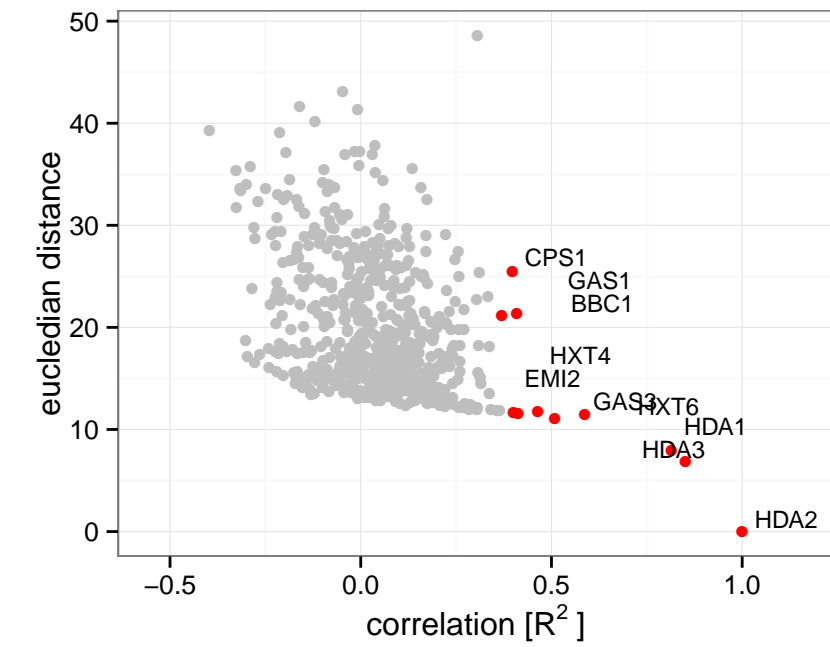
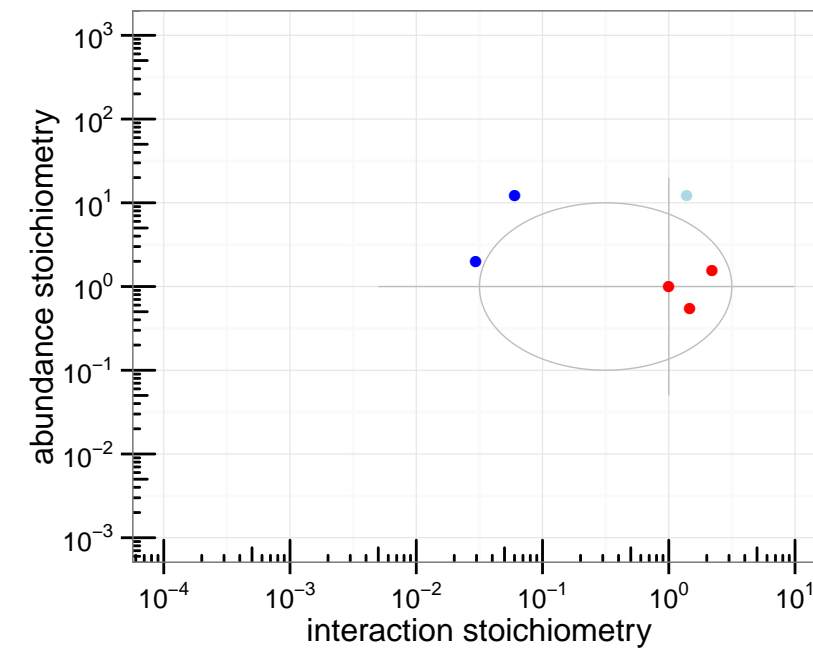


<b>bait</b>	HDA2
<b>experiment</b>	27 minutes

<b>interactors</b>	6
<b>recovery</b>	100 %

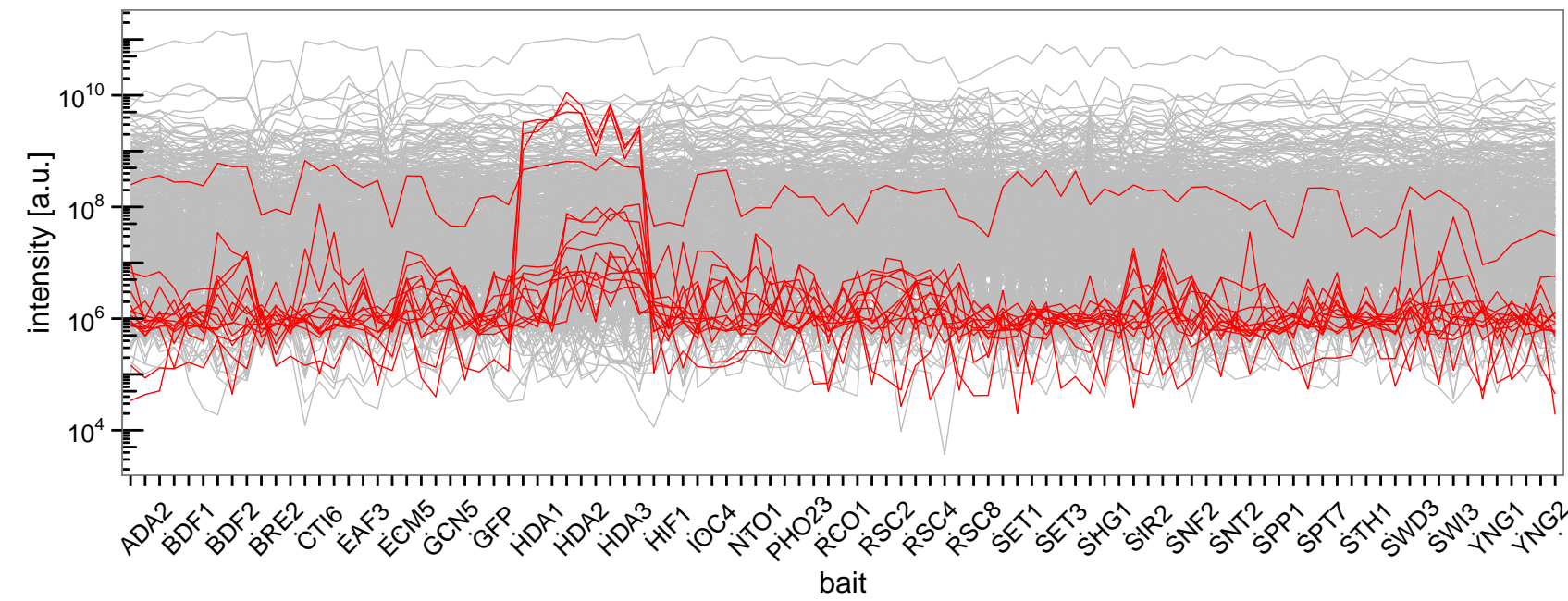
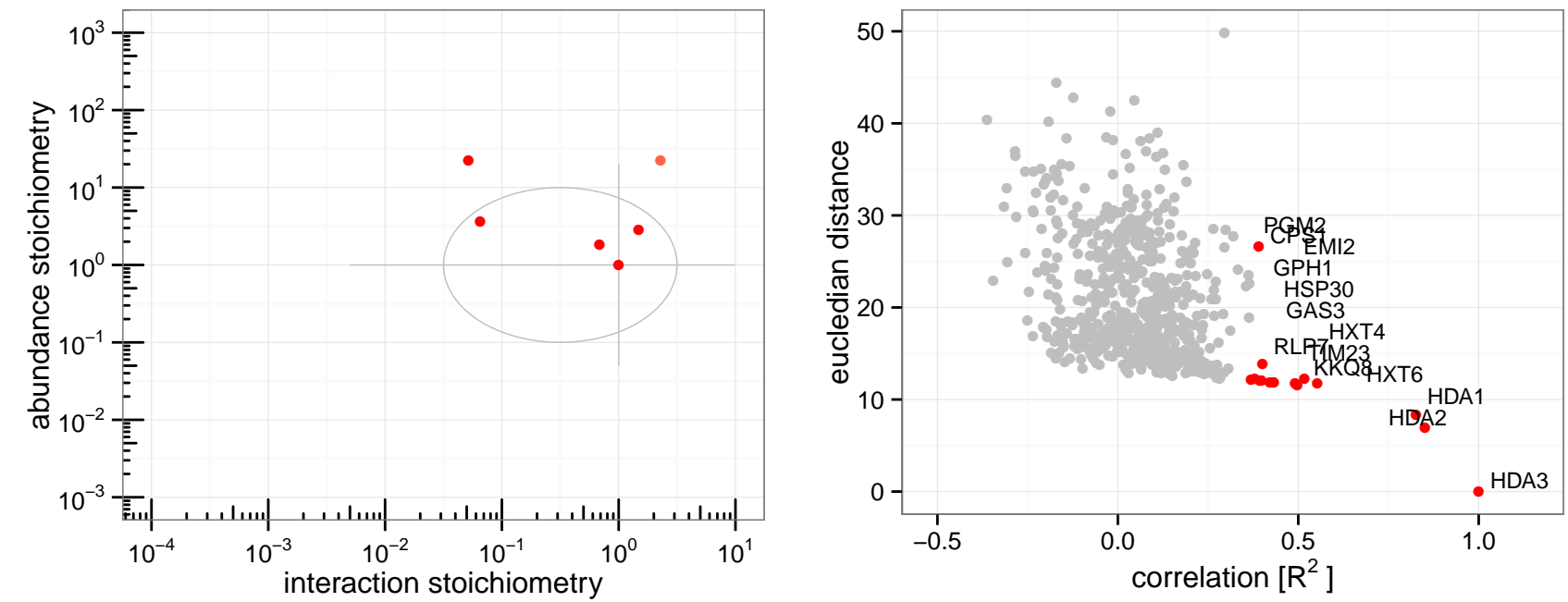
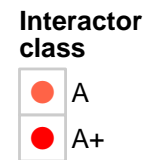
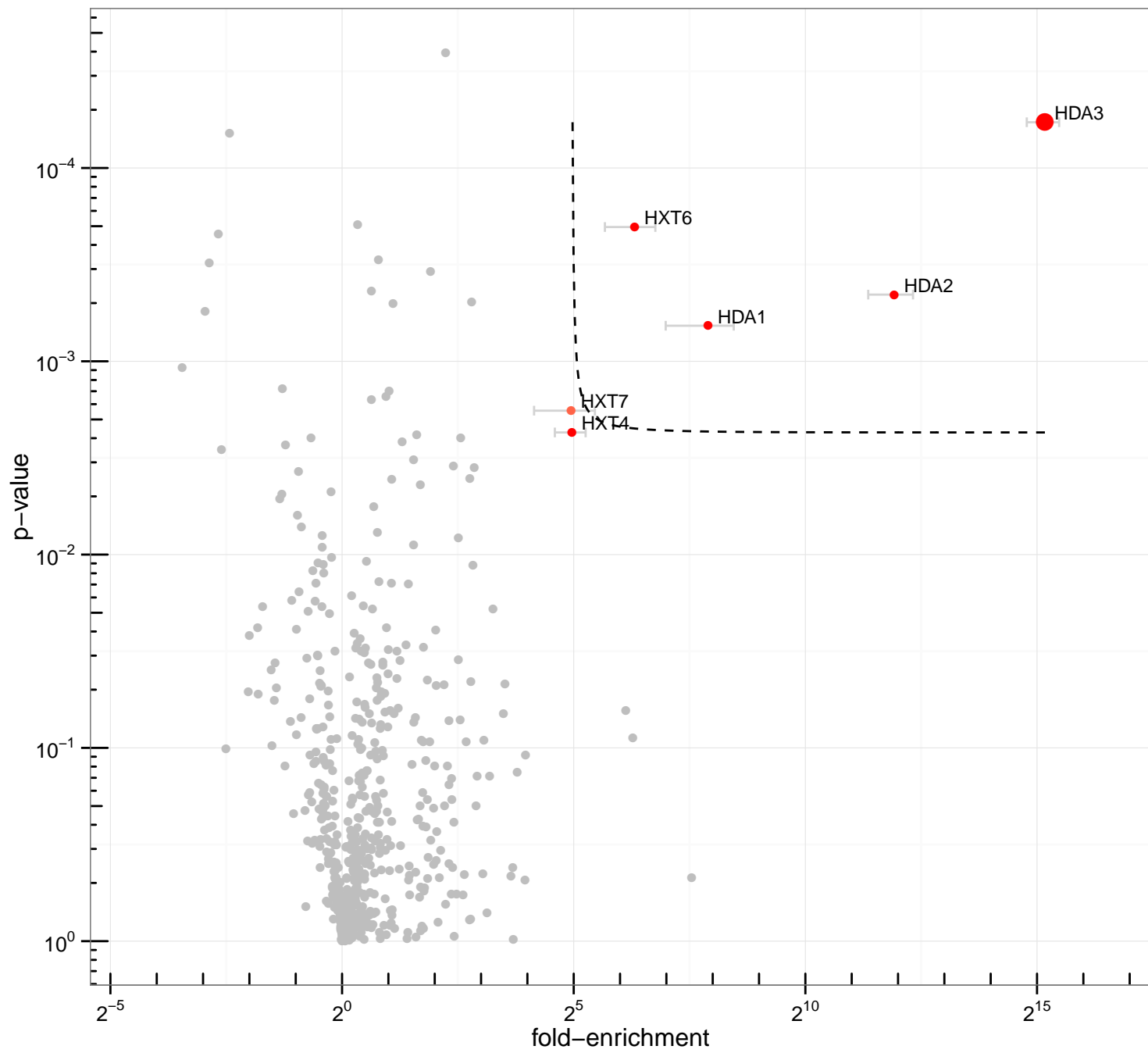
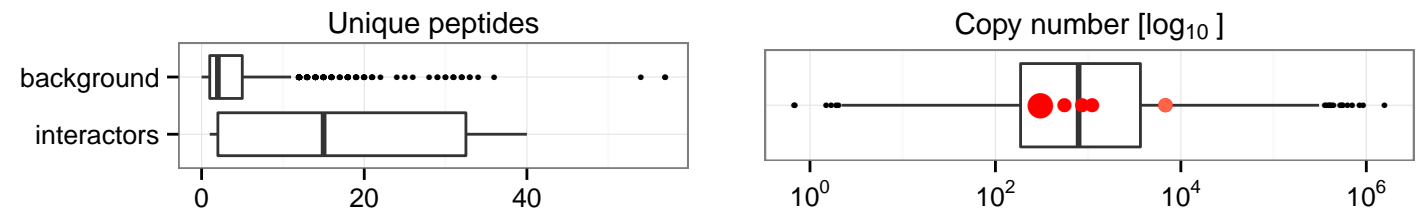


	HDA1	HDA2	HDA3	HXT4	HXT6
<i>significance</i>	8.3	13.0	15.0	4.6	6.4
<i>interactor class</i>	A+	A+	A+	B+	B+



<b>bait</b>	HDA3
<b>experiment</b>	27 minutes

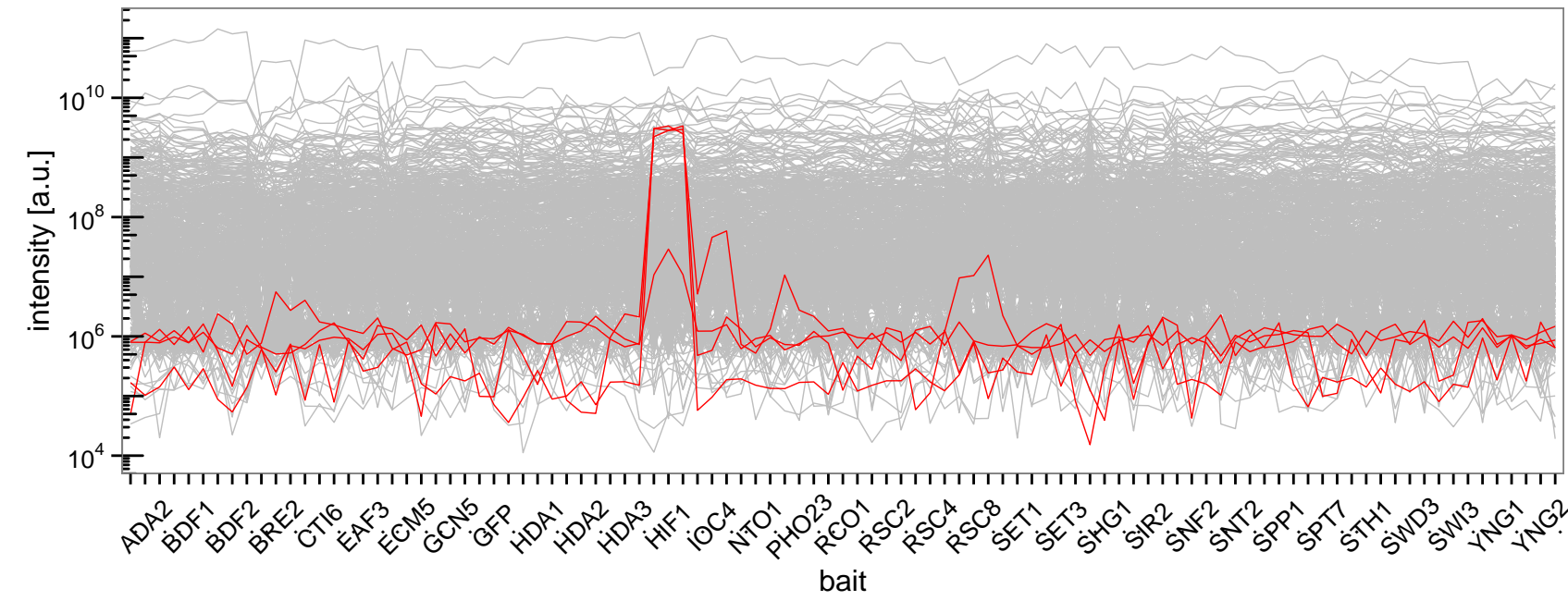
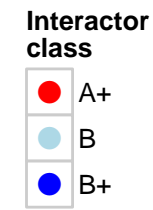
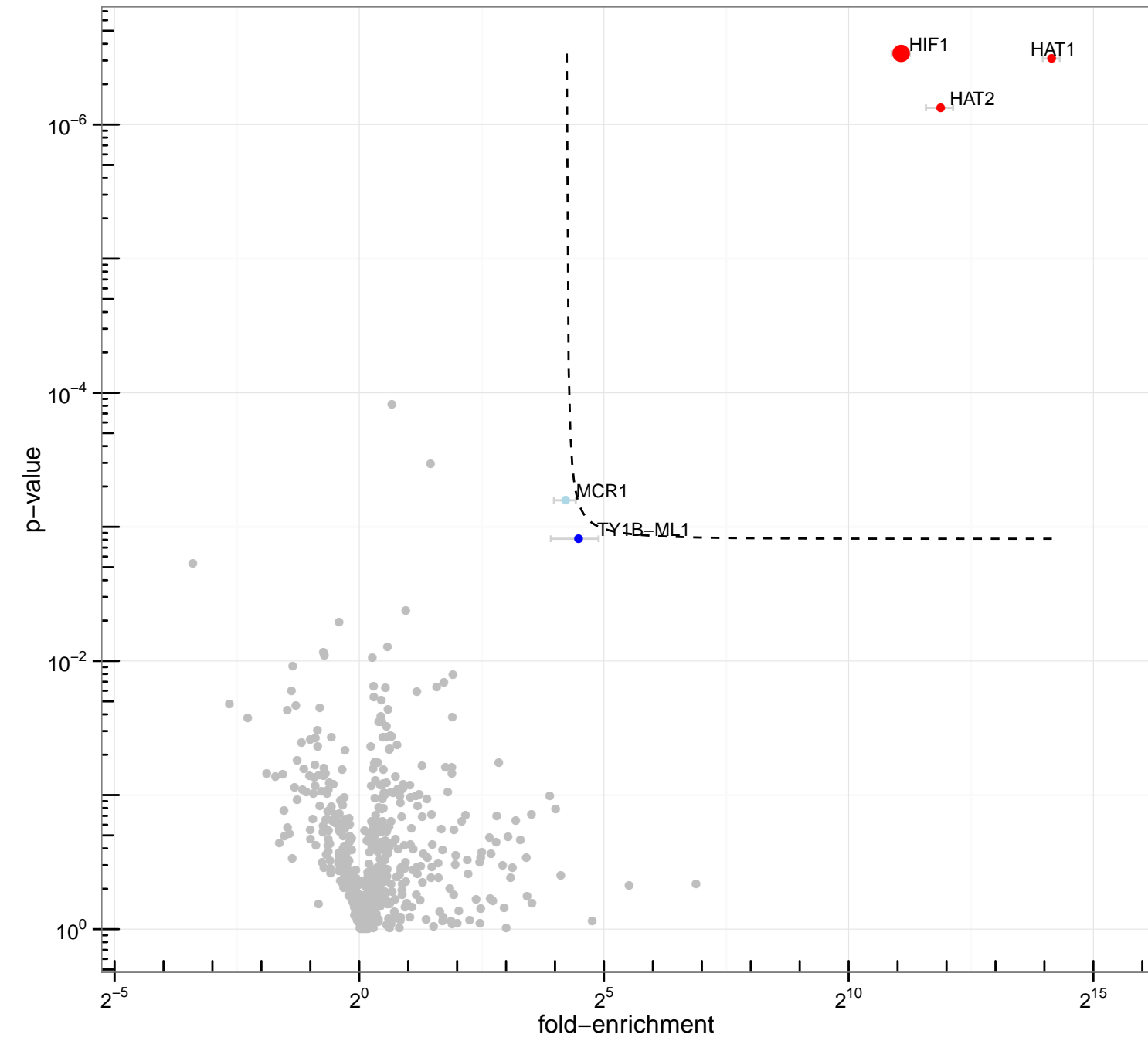
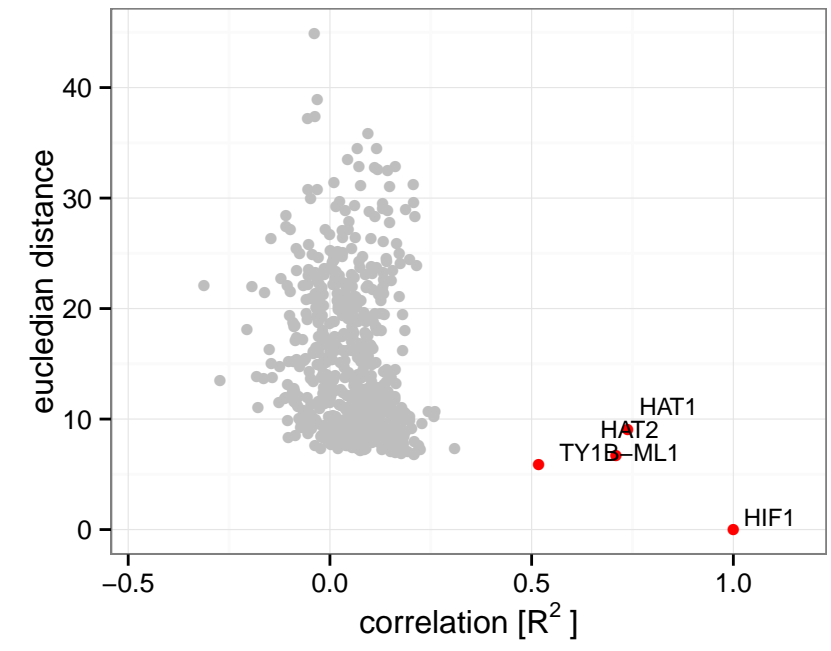
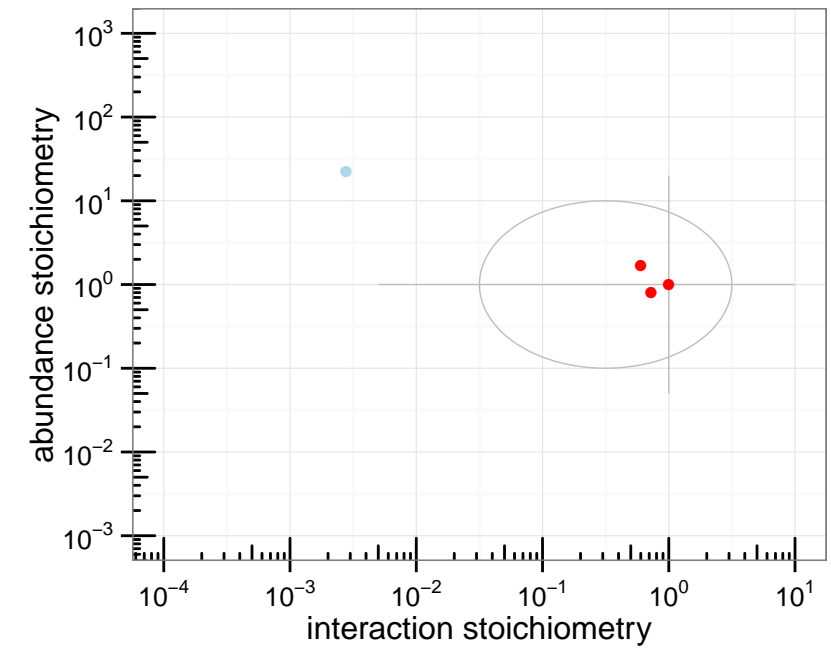
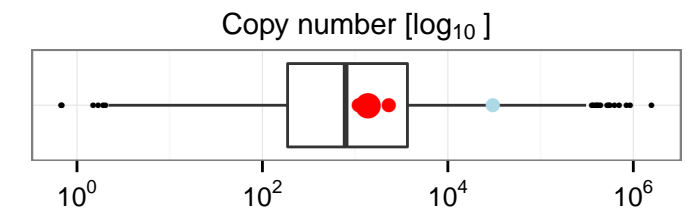
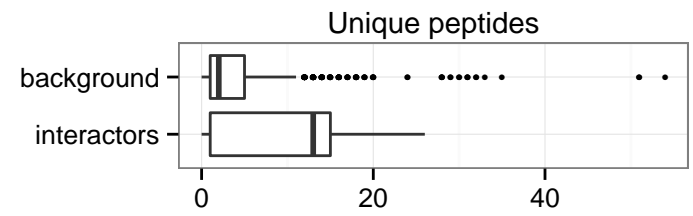
<b>interactors</b>	6
<b>recovery</b>	100 %



	HDA1	HDA2	HDA3	HXT4	HXT6	HXT7
<i>significance</i>	7.6	11.0	15.0	4.8	6.5	4.8
<i>interactor class</i>	A+	A+	A+	A+	A+	A

<b>bait</b>	HIF1
<b>experiment</b>	27 minutes

<b>interactors</b>	5
<b>recovery</b>	33 %

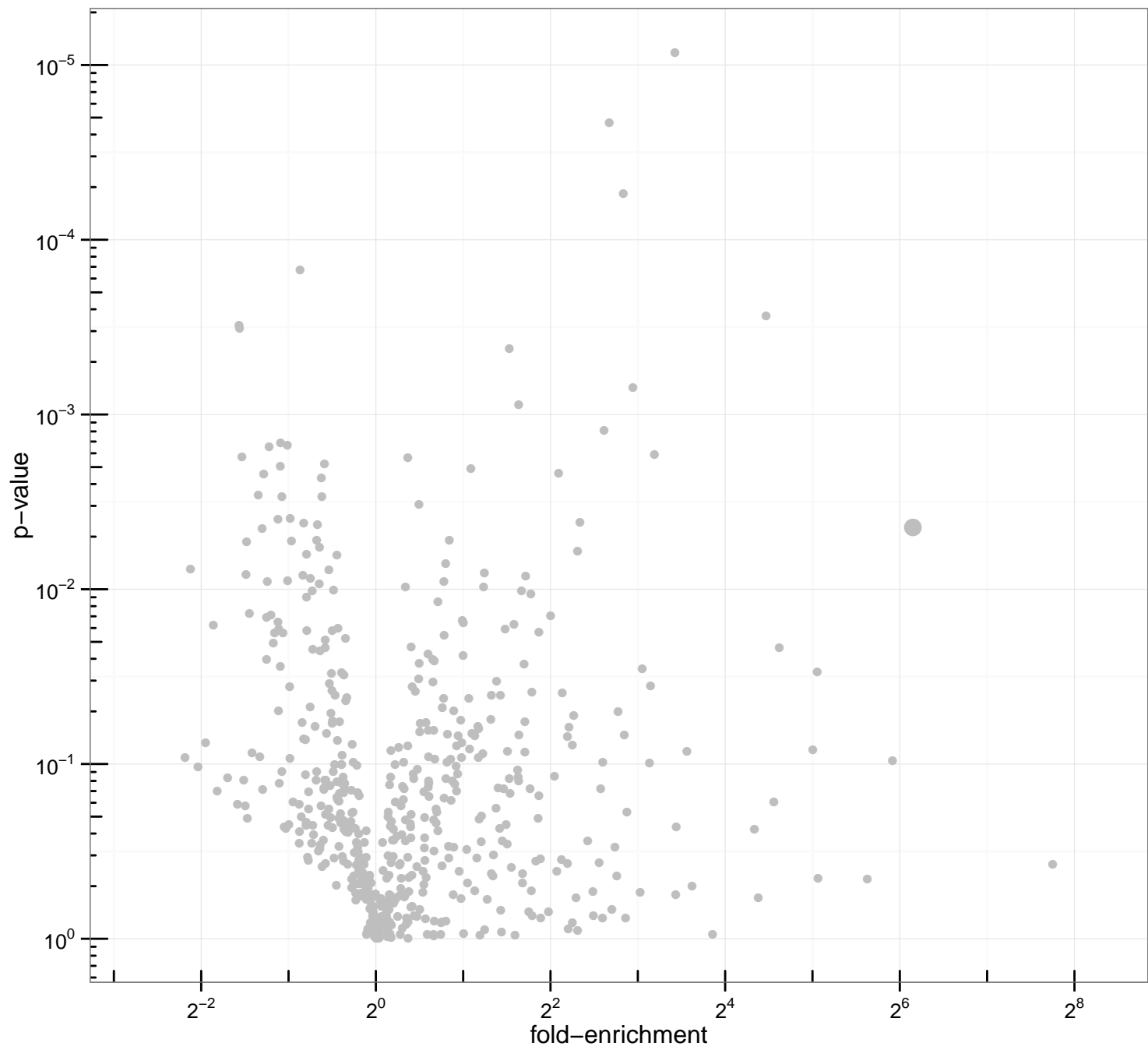


	HAT1	HAT2	HIF1	TY1B-ML1
<i>significance</i>	15.0	12.0	12.0	4.5
<i>interactor class</i>	A+	A+	A+	B+

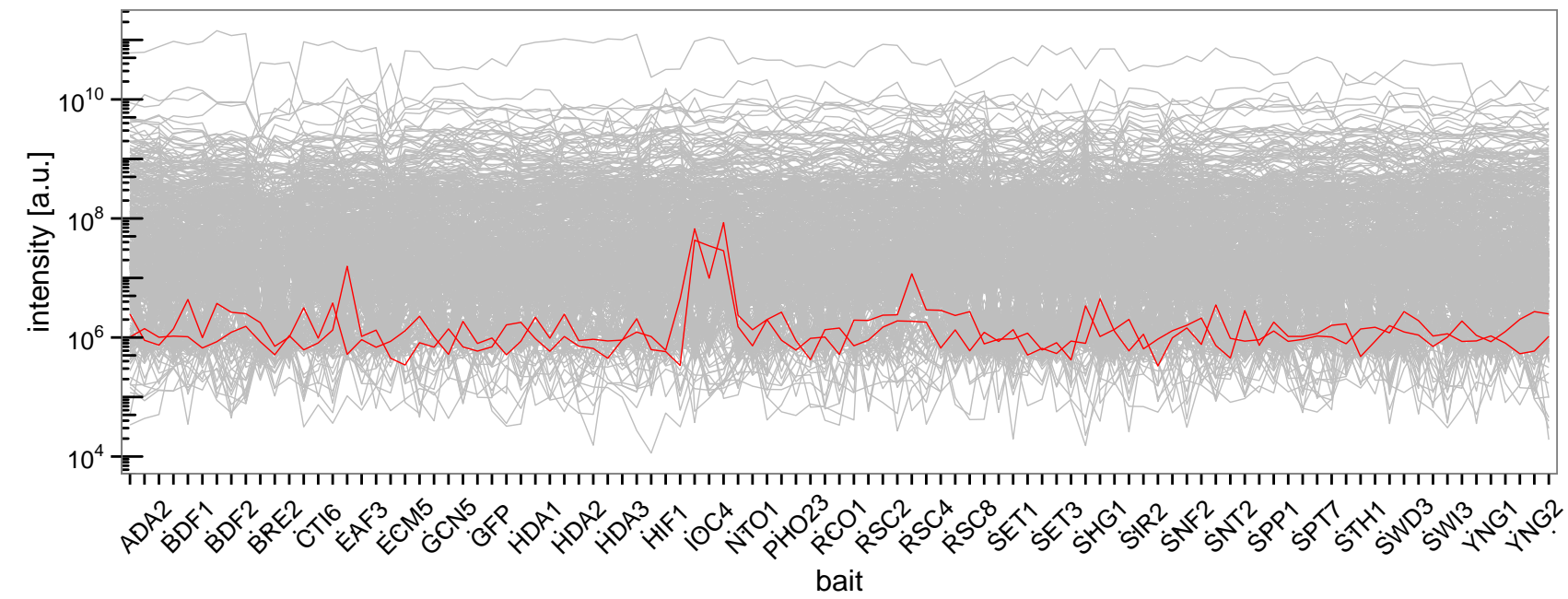
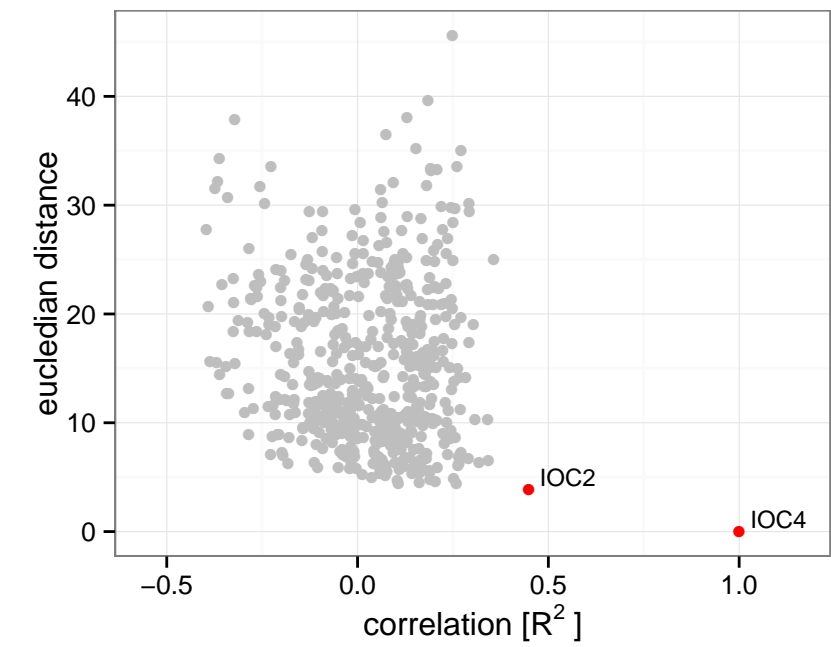
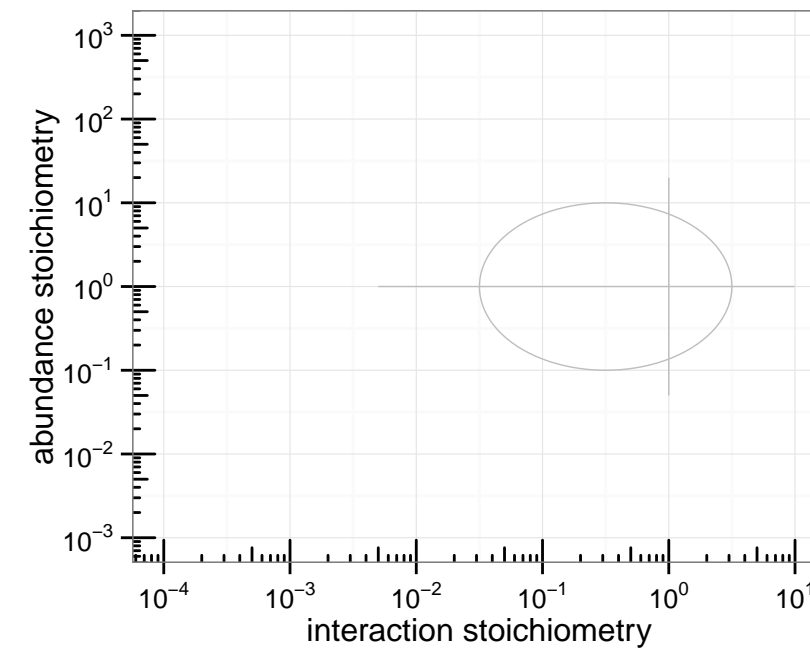
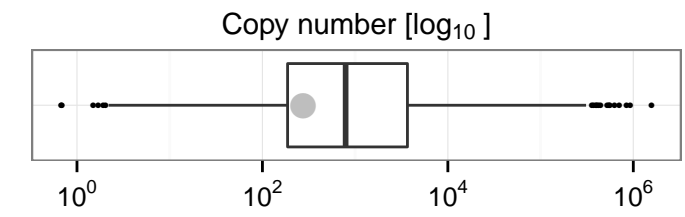
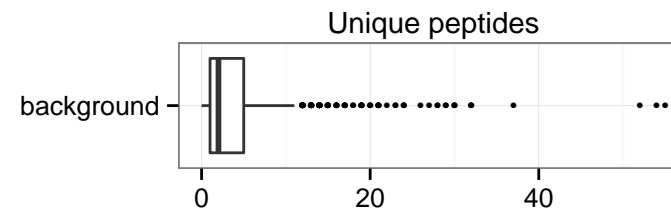


<b>bait</b>	IOC4
<b>experiment</b>	27 minutes

<b>interactors</b>	0
<b>recovery</b>	0 %



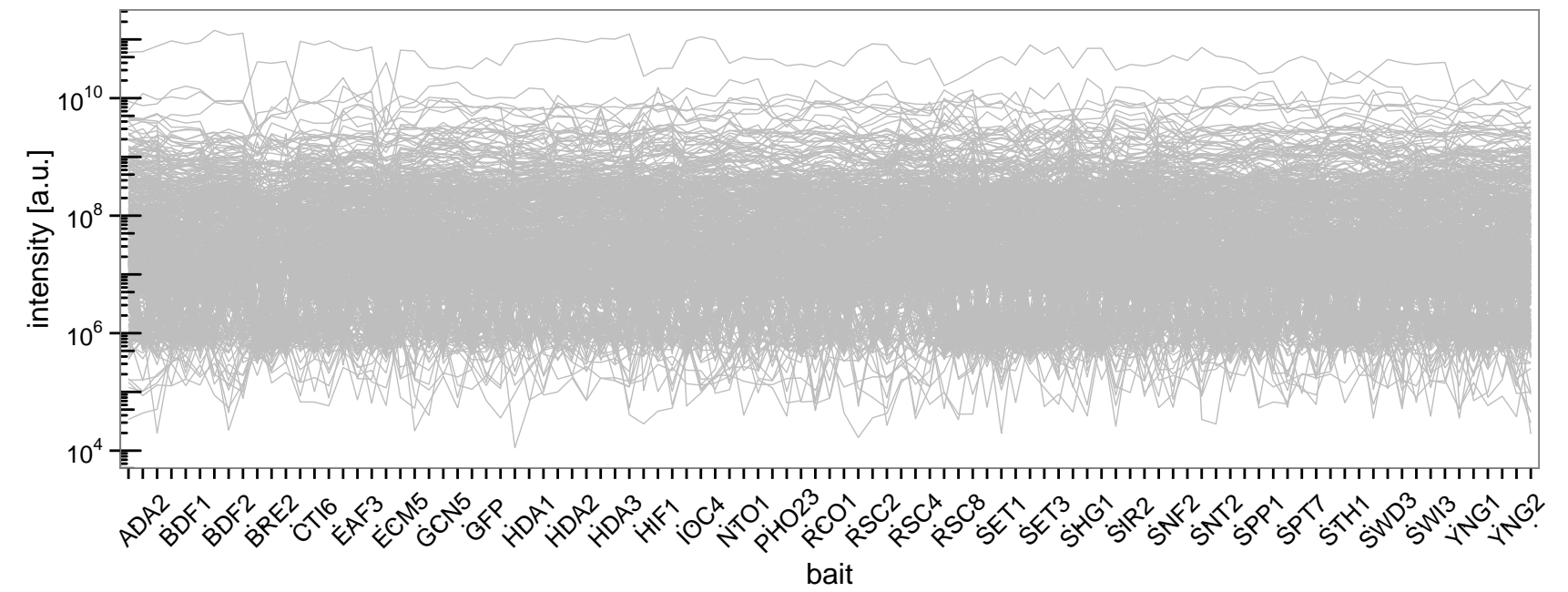
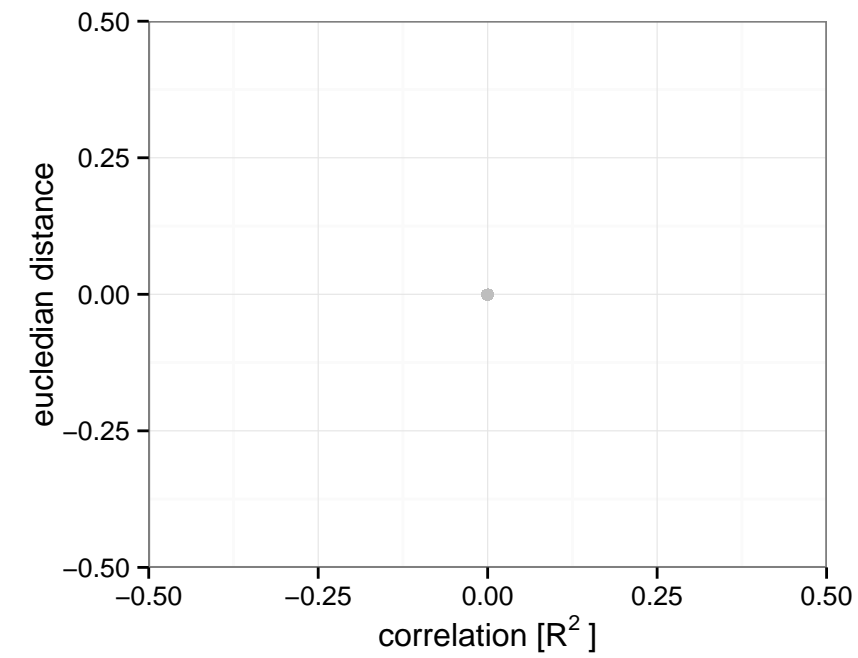
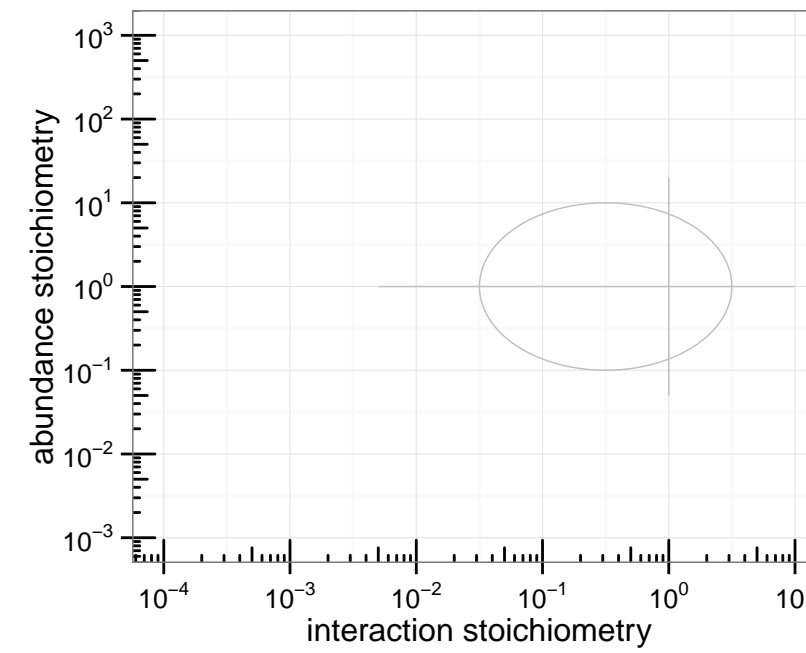
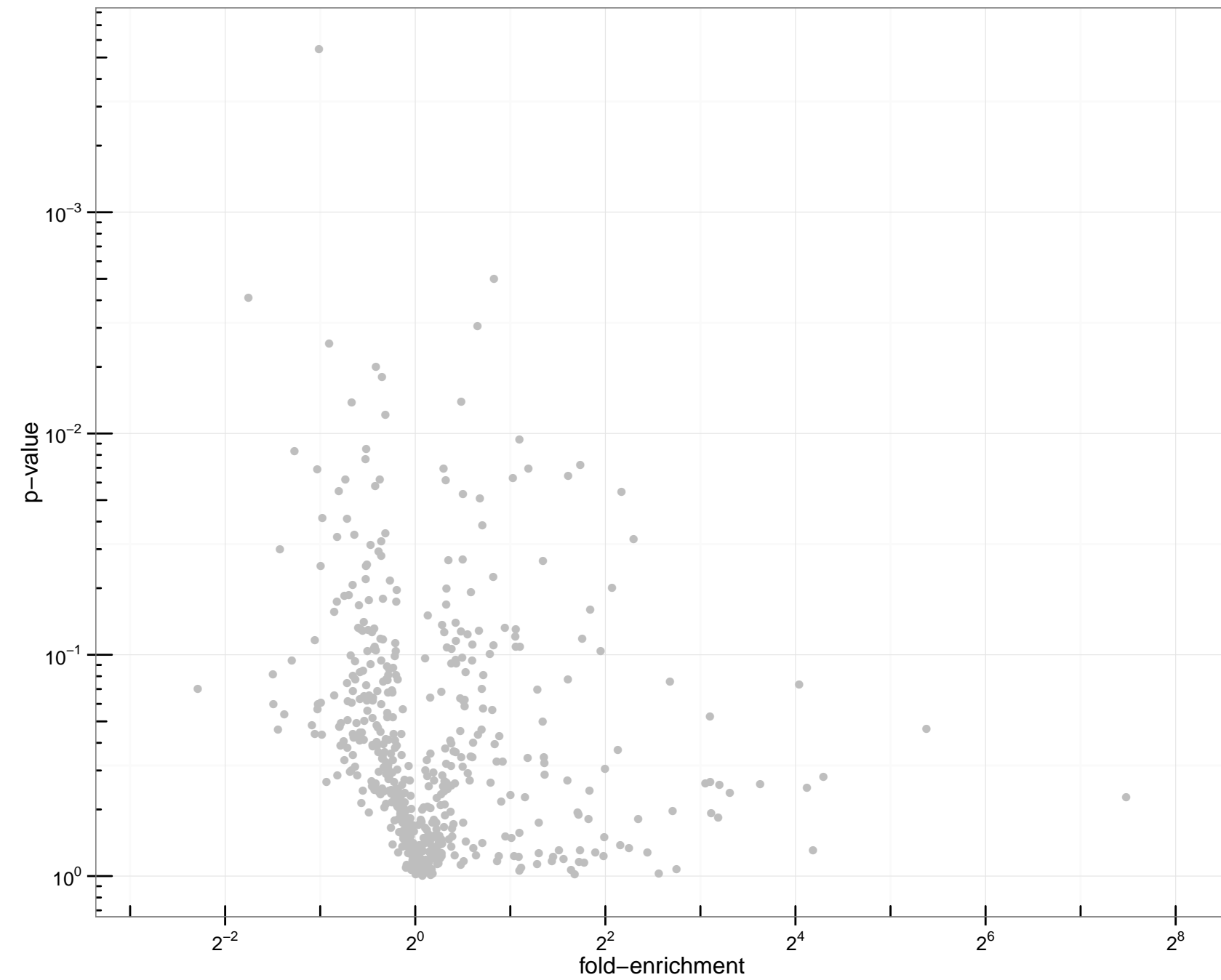
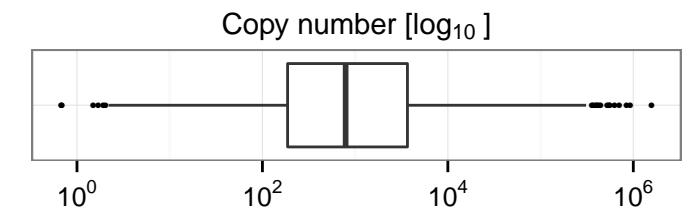
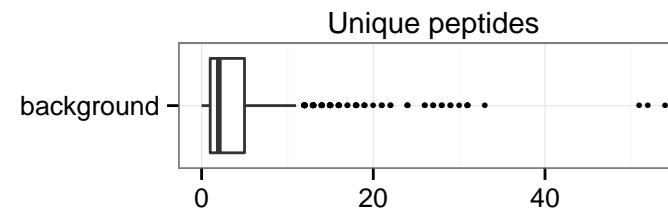
**Interactor class**  
 -



*significance*  
*interactor class*

<b>bait</b>	NTO1
<b>experiment</b>	27 minutes

<b>interactors</b>	0
<b>recovery</b>	NaN %

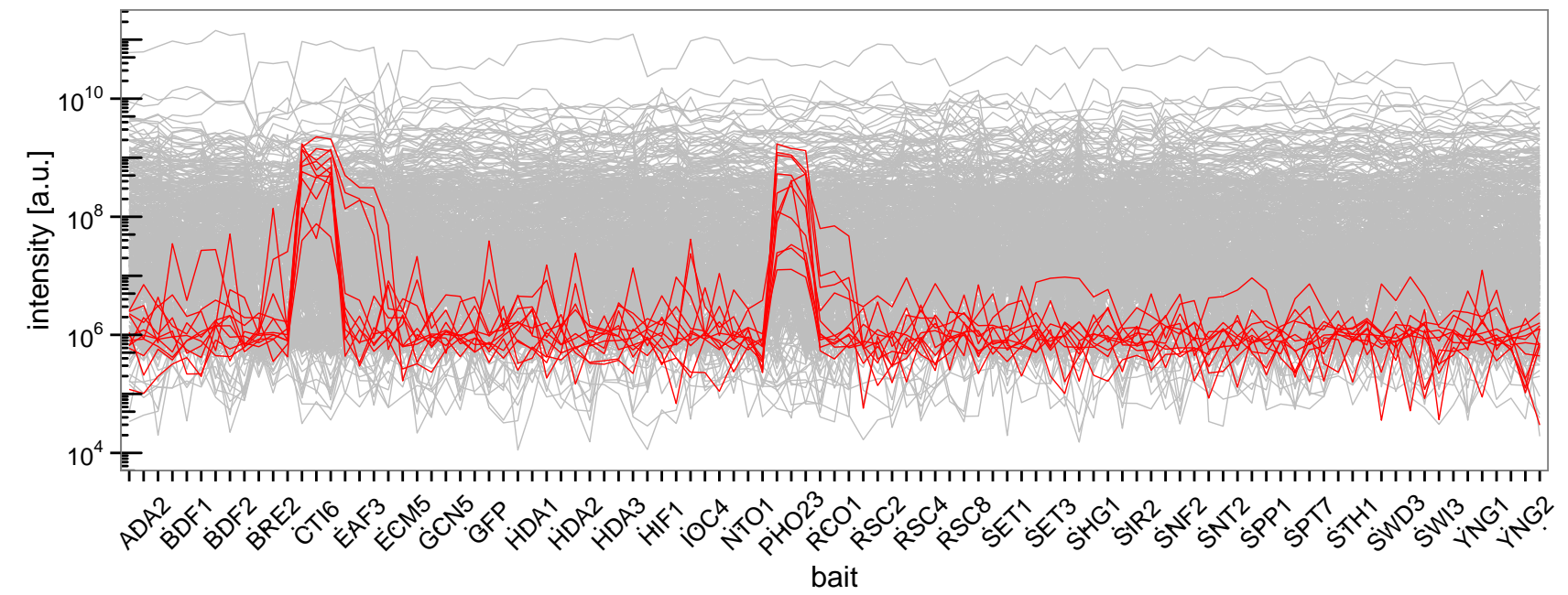
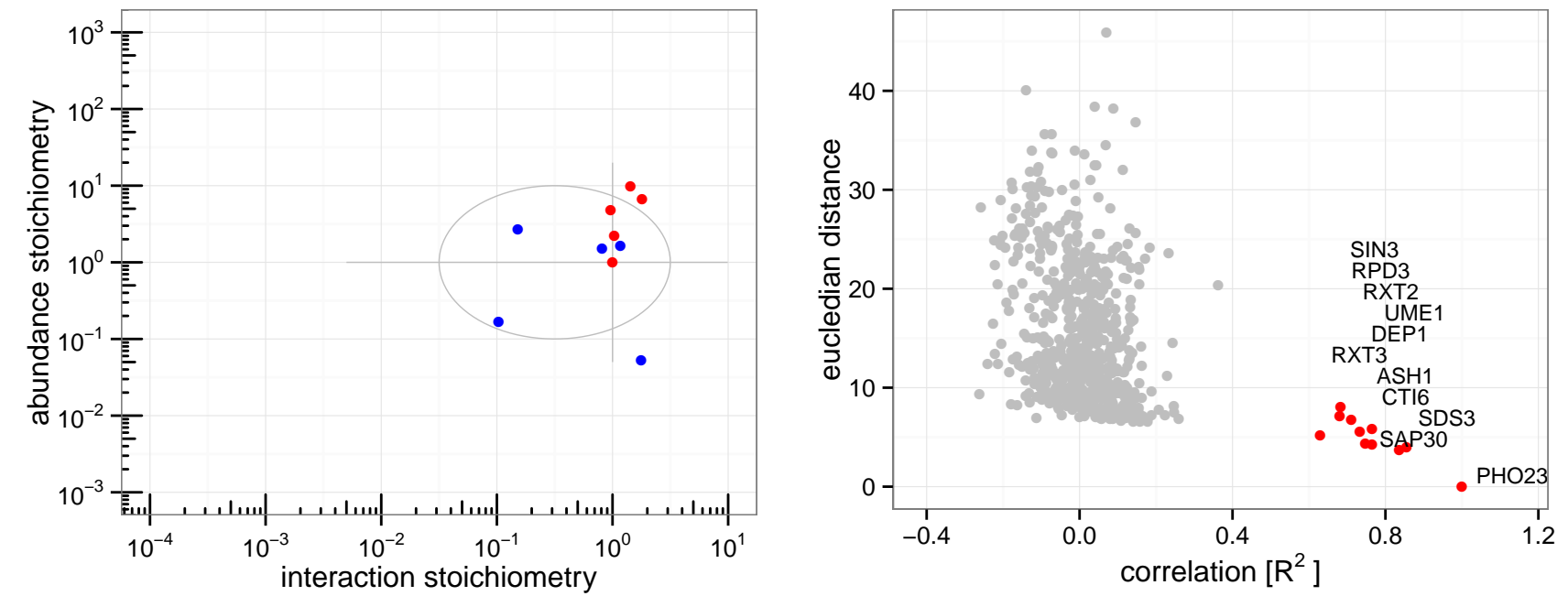
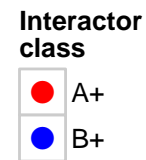
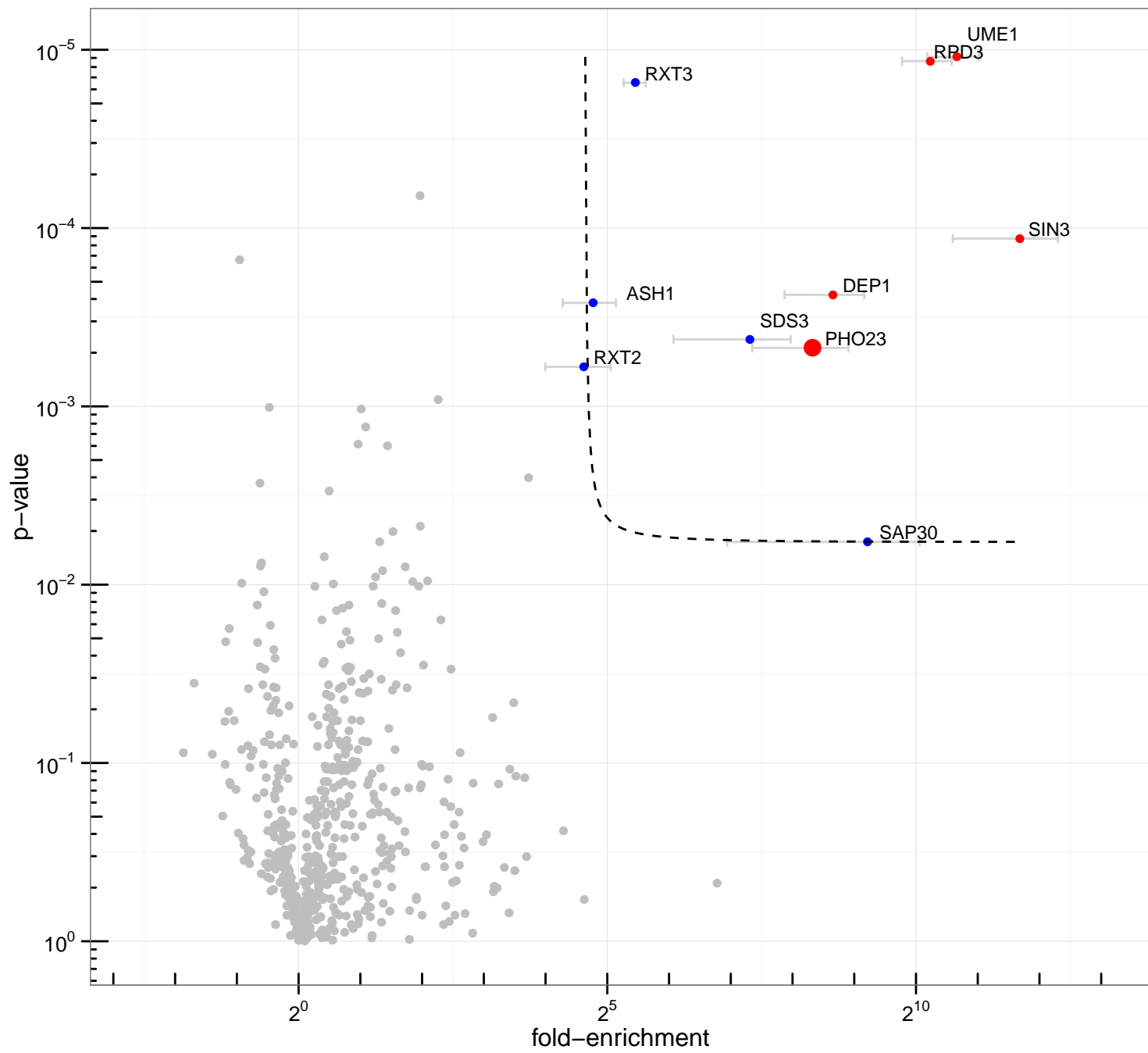
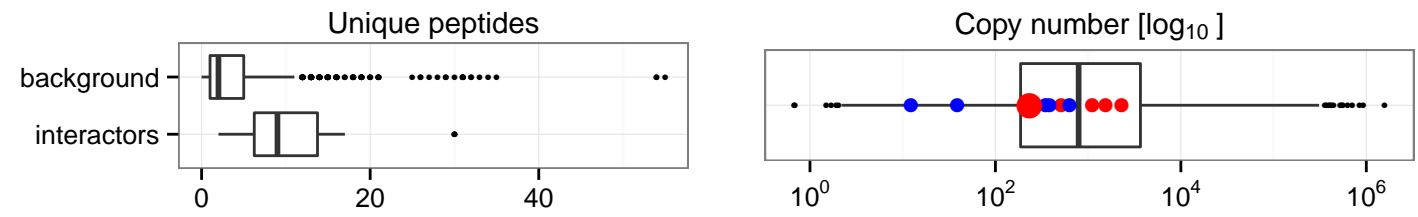


significance

interactor class

<b>bait</b>	PHO23
<b>experiment</b>	27 minutes

<b>interactors</b>	10
<b>recovery</b>	38 %

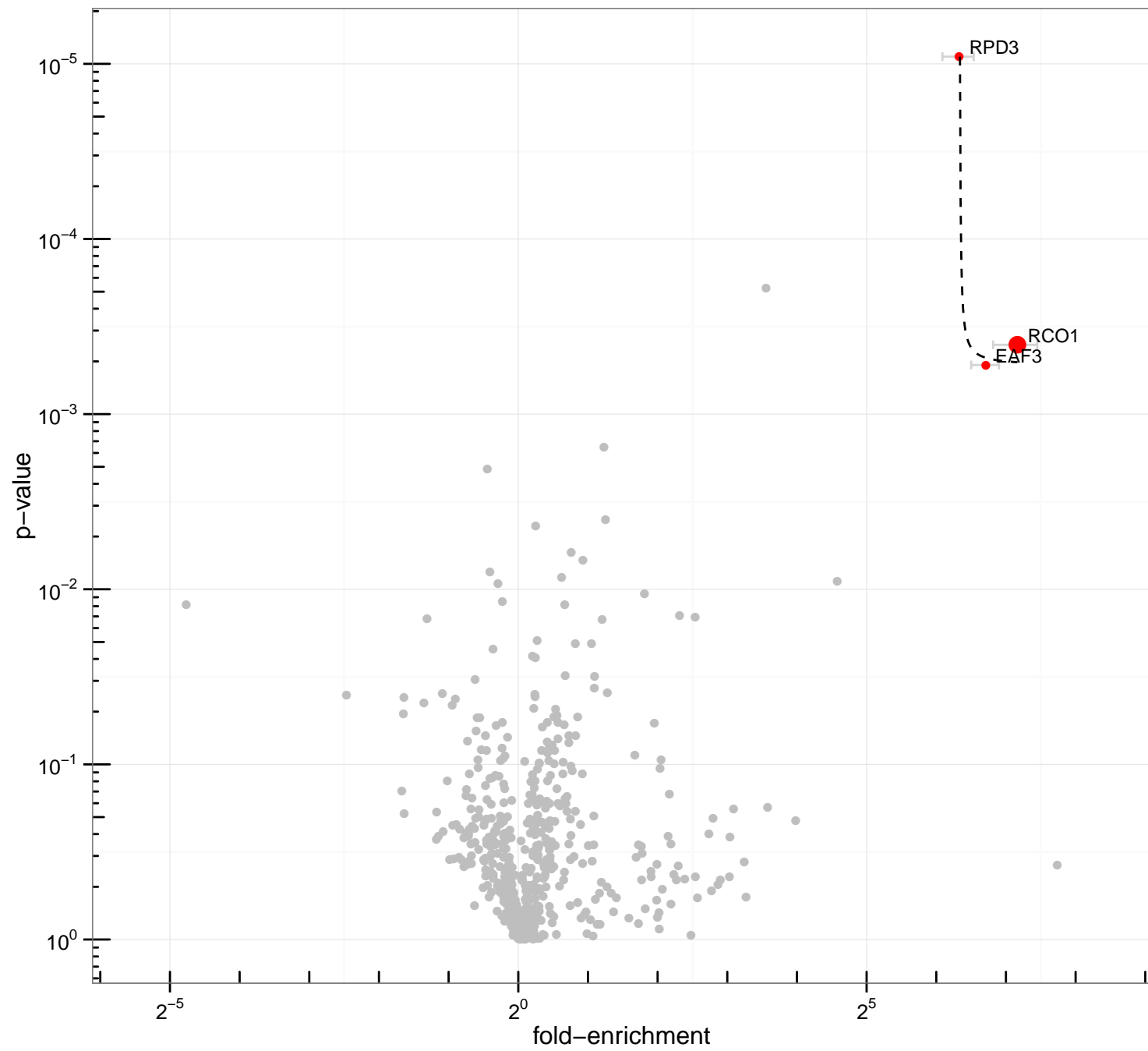


	ASH1	DEP1	PHO23	RPD3	RXT2	RXT3	SAP30	SDS3	SIN3	UME1
<i>significance</i>	5.2	8.5	8.0	10.0	4.8	6.6	8.5	7.2	11.0	11.0
<i>interactor class</i>	B+	A+	A+	A+	B+	B+	B+	B+	A+	A+



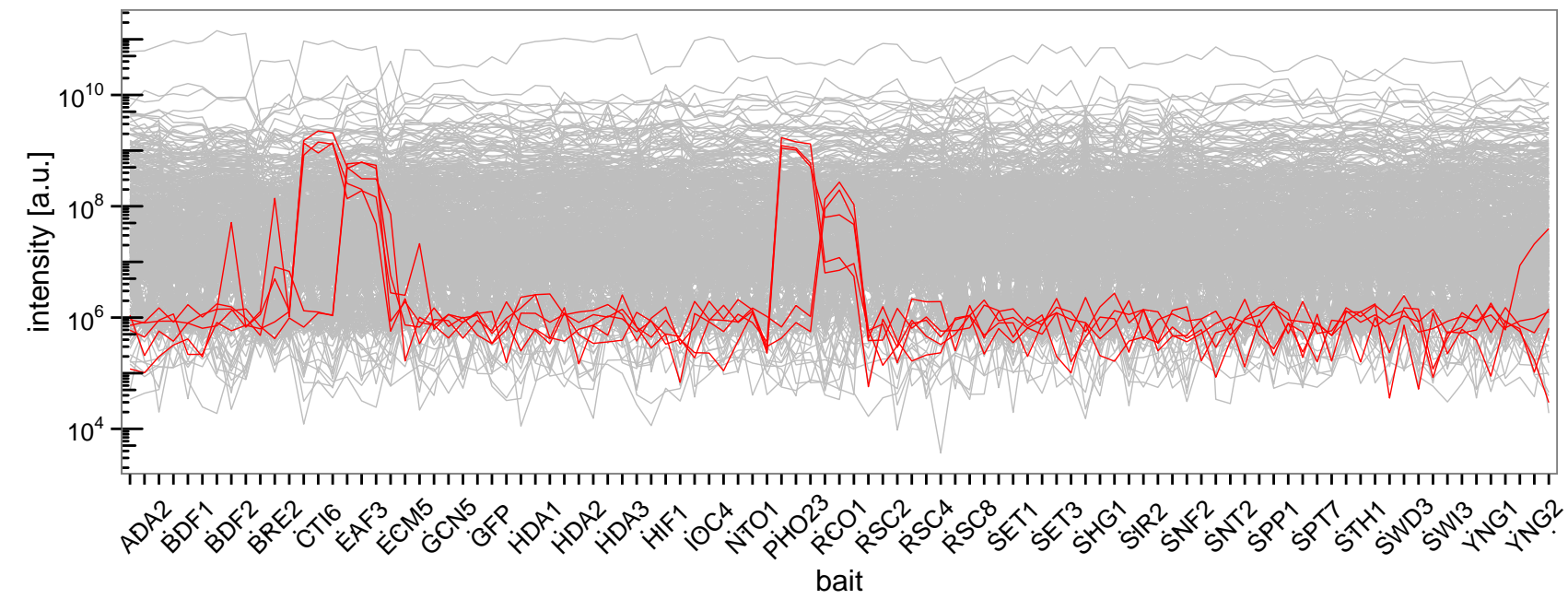
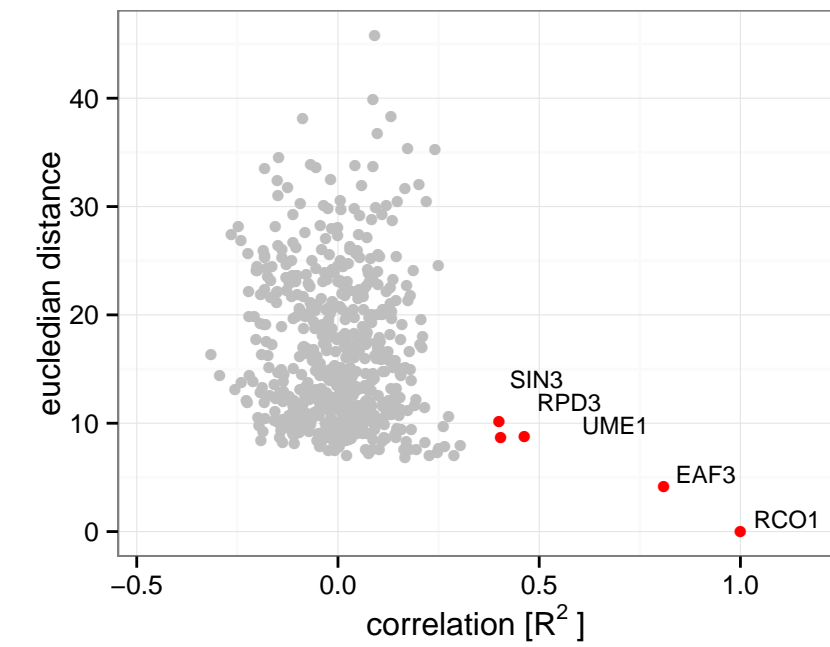
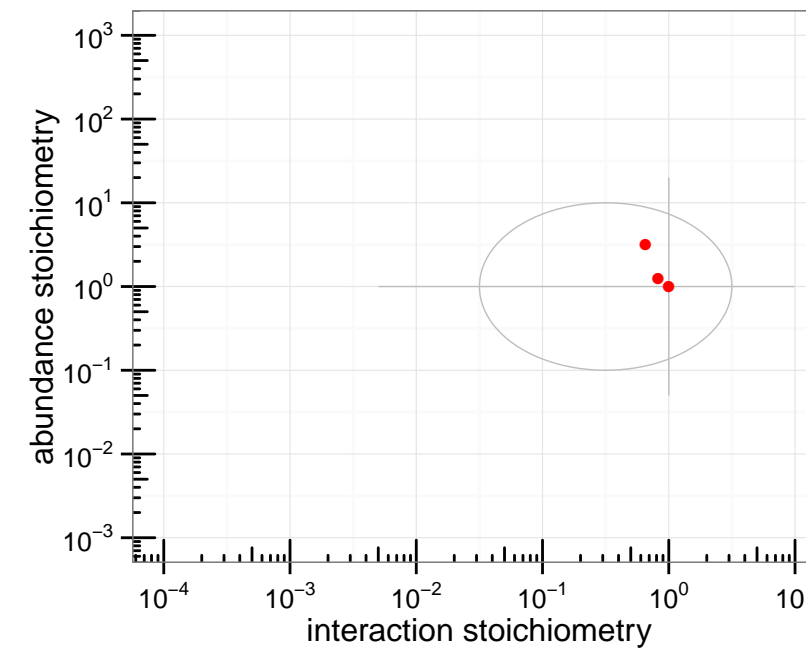
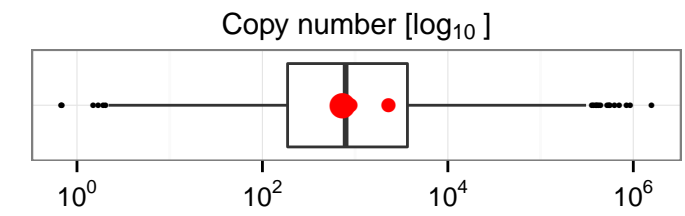
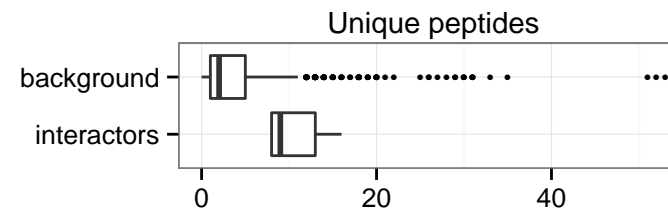
<b>bait</b>	RCO1
<b>experiment</b>	27 minutes

<b>interactors</b>	3
<b>recovery</b>	11 %



**Interactor class**  
● A+

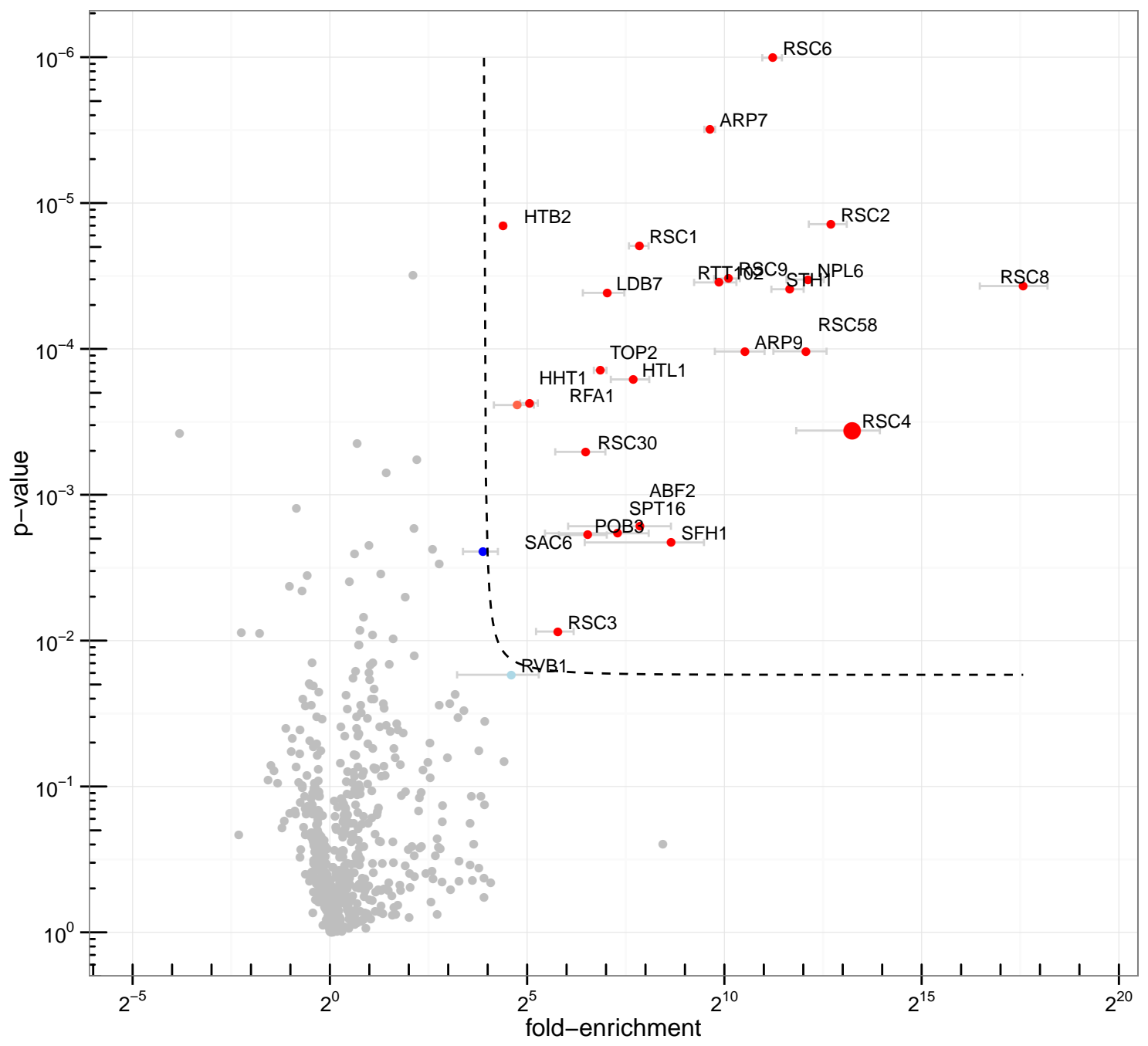
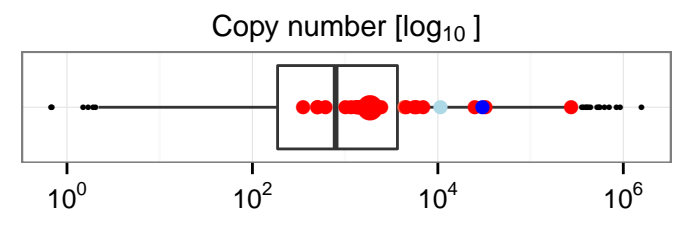
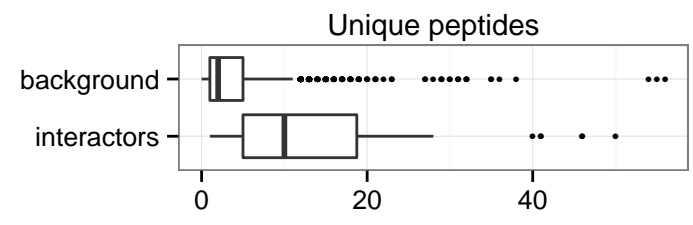
	EAF3	RCO1	RPD3
<i>significance</i>	6.6	7.0	7.3
<i>interactor class</i>	A+	A+	A+





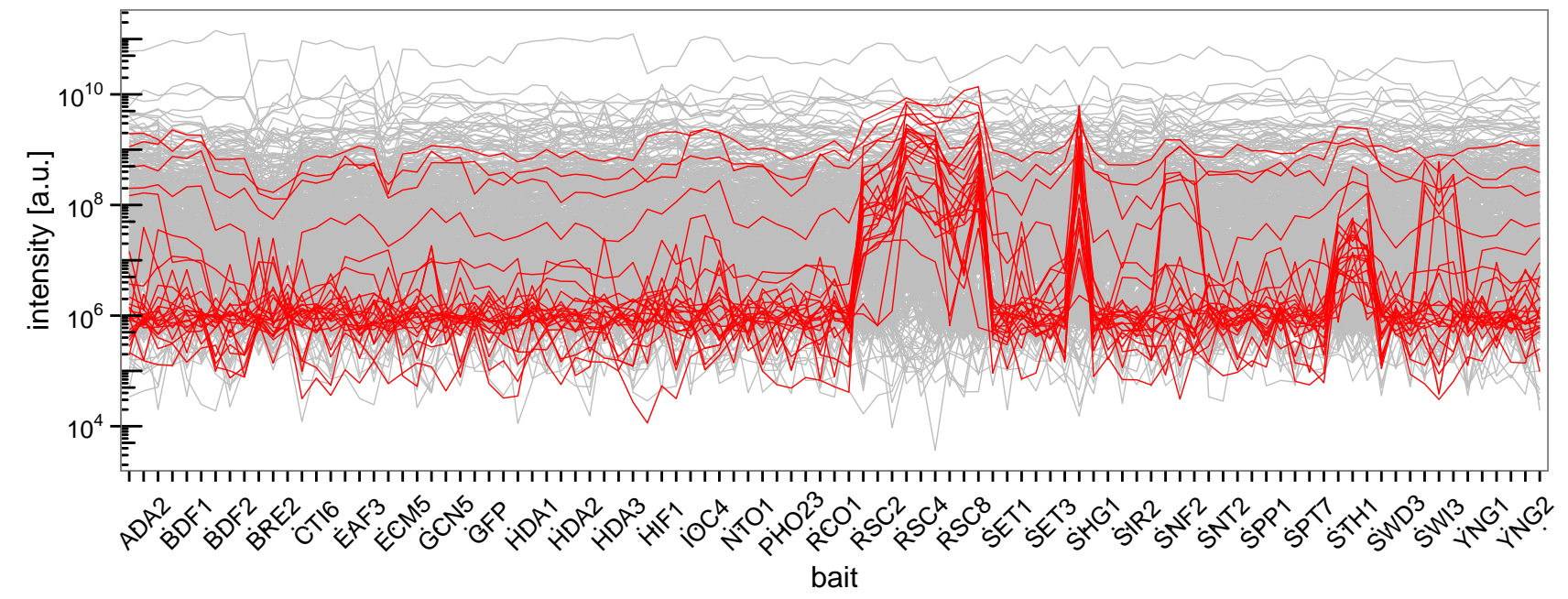
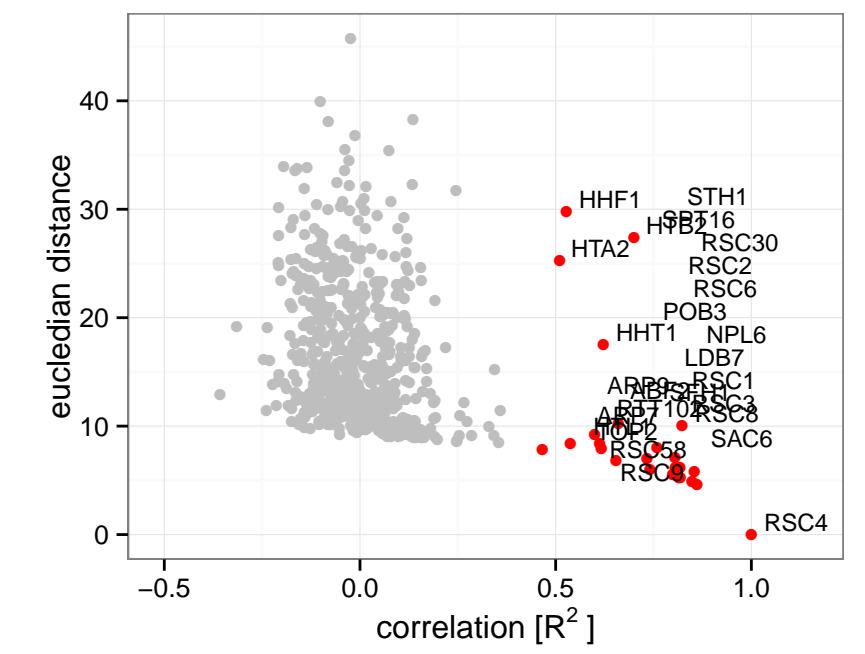
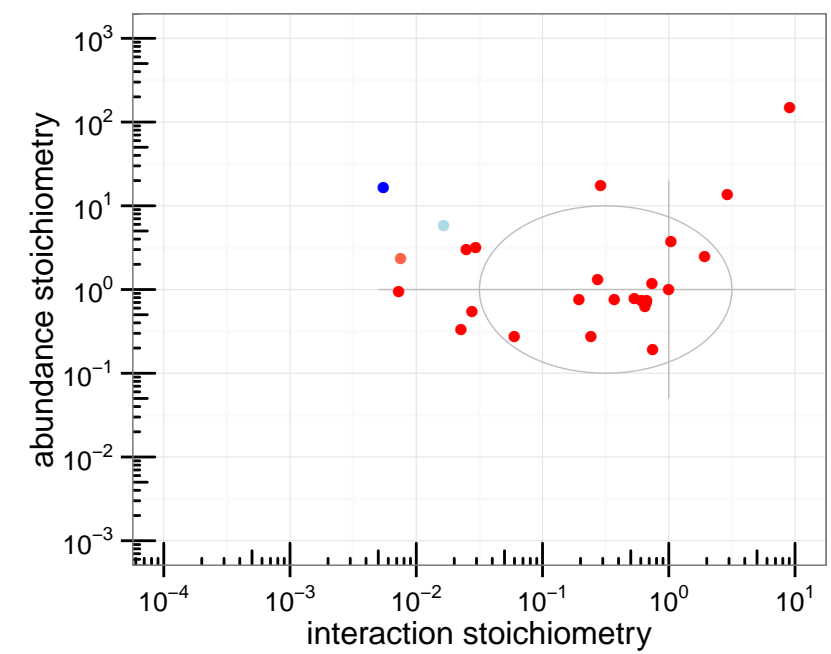
<b>bait</b>	RSC4
<b>experiment</b>	27 minutes

<b>interactors</b>	26
<b>recovery</b>	94 %



**Interactor class**

- A
- A+
- B
- B+

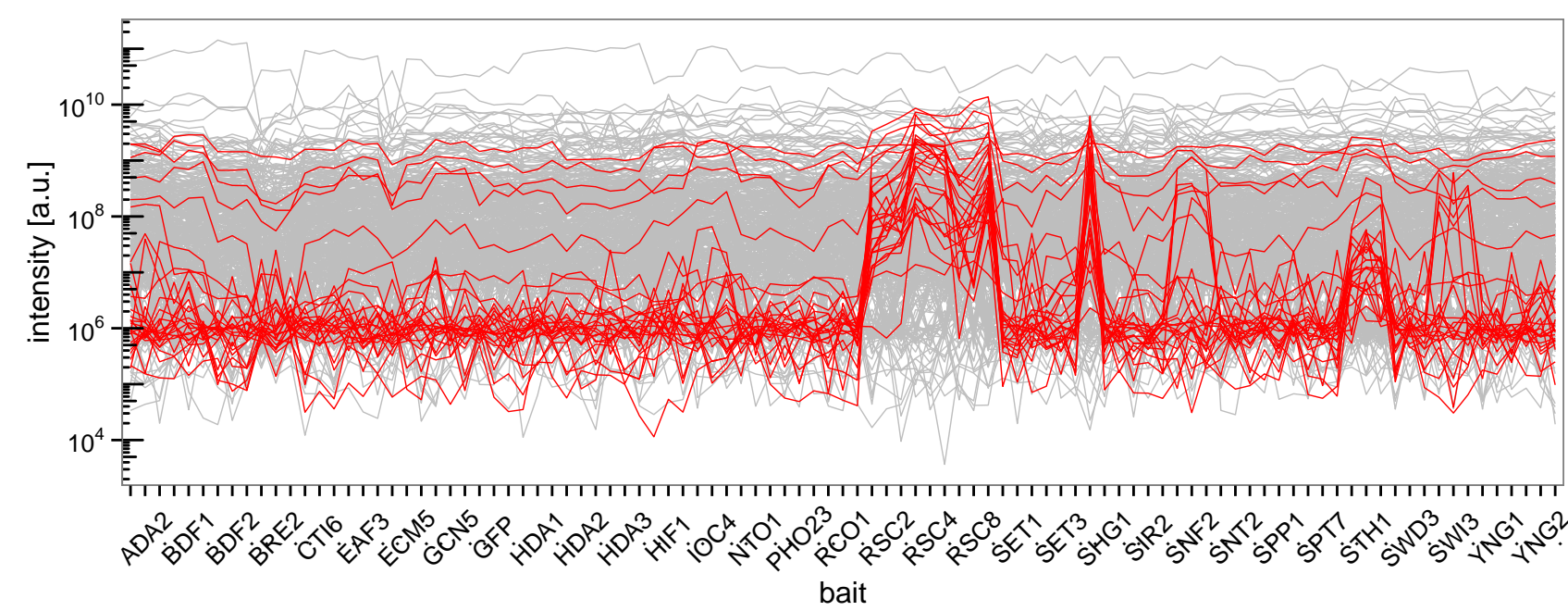
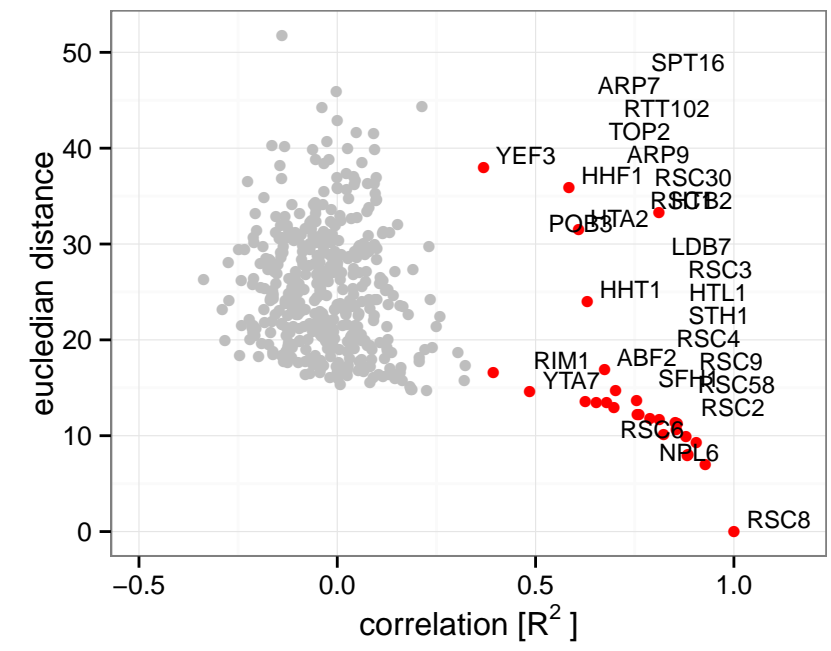
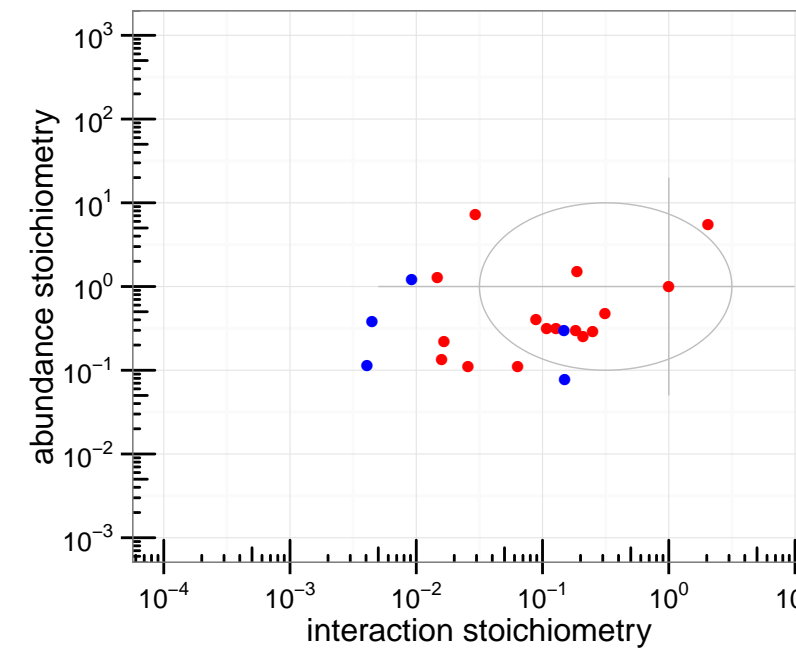
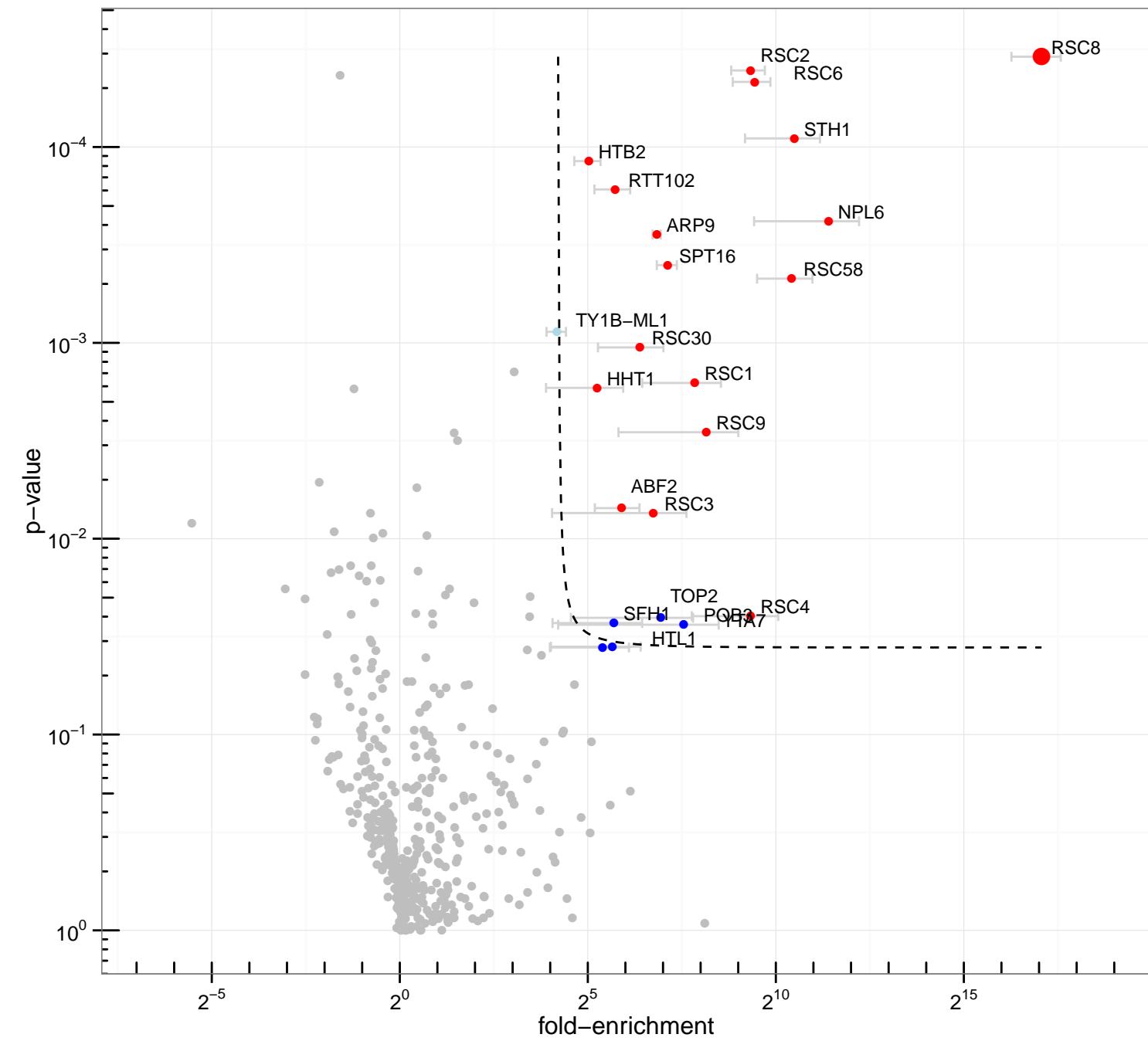
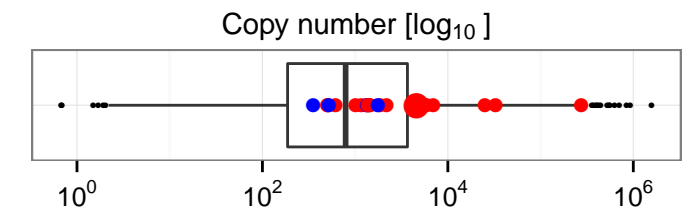
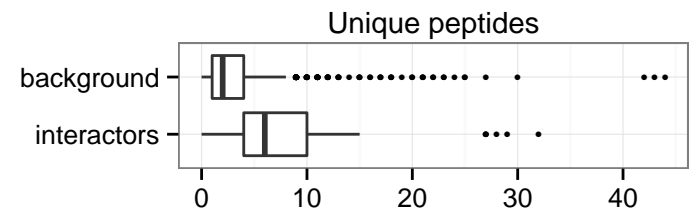


	ABF2	ARP7	ARP9	HHT1	HTB2	HTL1	LDB7	NPL6	POB3	RFA1	RSC1	RSC2	RSC3	RSC30	RSC4	RSC58	RSC6	RSC8	RSC9	RTT102	SAC6	SFH1	SPT16	STH1	TOP2
<i>significance</i>	7.4	10.0	10.0	5.4	5.9	7.7	7.5	12.0	6.2	5.2	8.3	13.0	5.2	6.4	13.0	12.0	12.0	17.0	10.0	9.9	3.9	8.1	6.9	12.0	7.0
<i>interactor class</i>	A+	A+	A+	A+	A+	A+	A+	A+	A+	A	A+	A+	A+	A+	A+	A+	A+	A+	A+	A+	B+	A+	A+	A+	A+



<b>bait</b>	RSC8
<b>experiment</b>	27 minutes

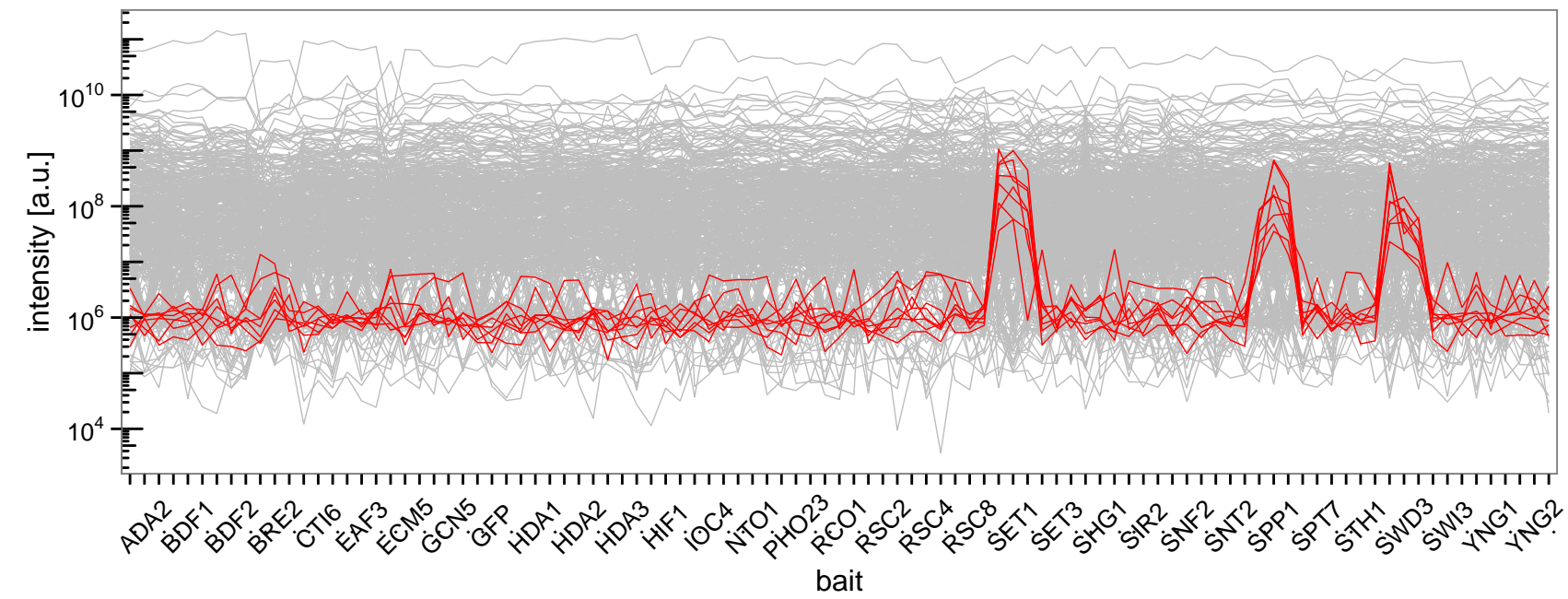
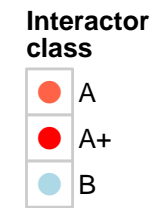
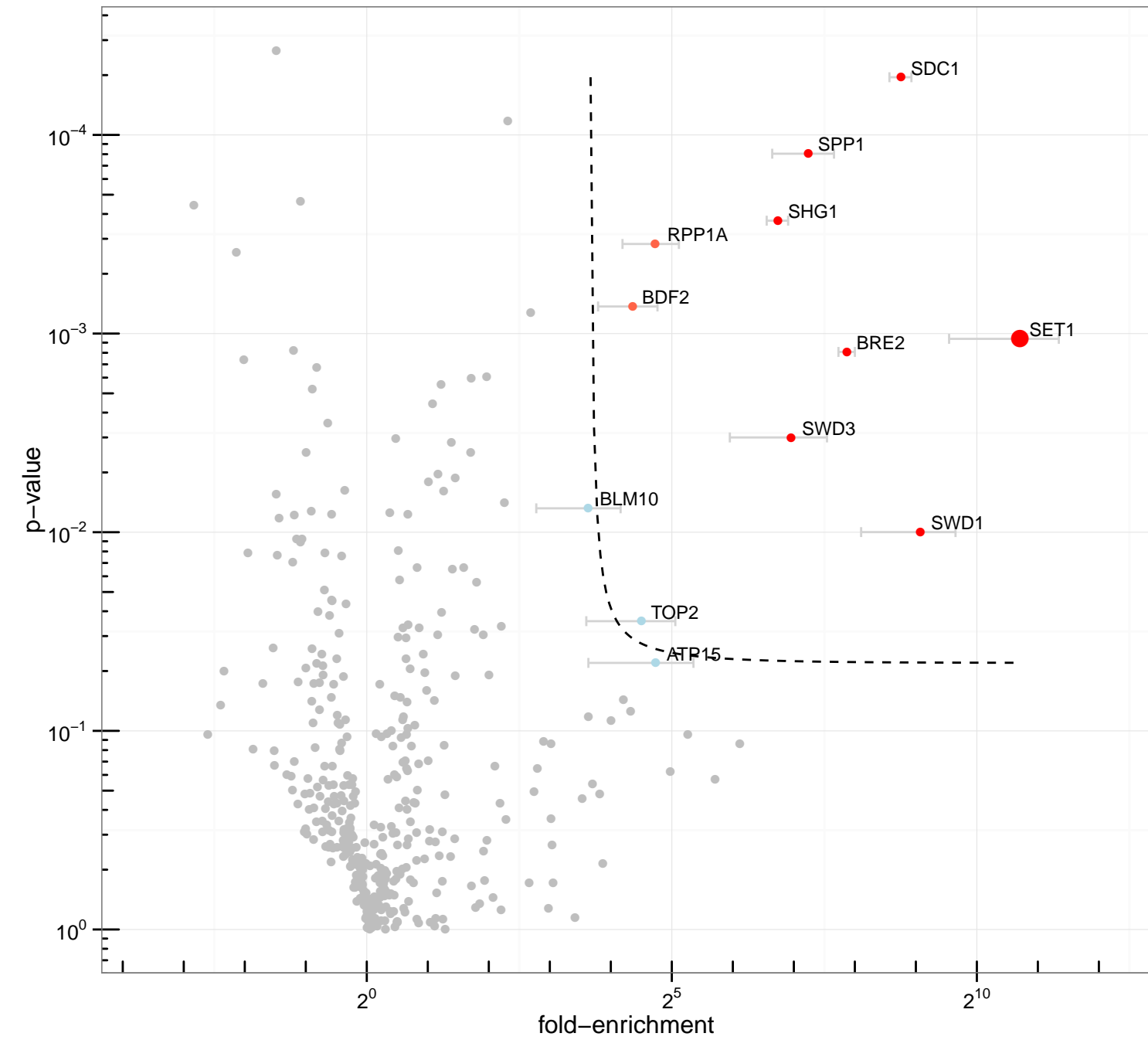
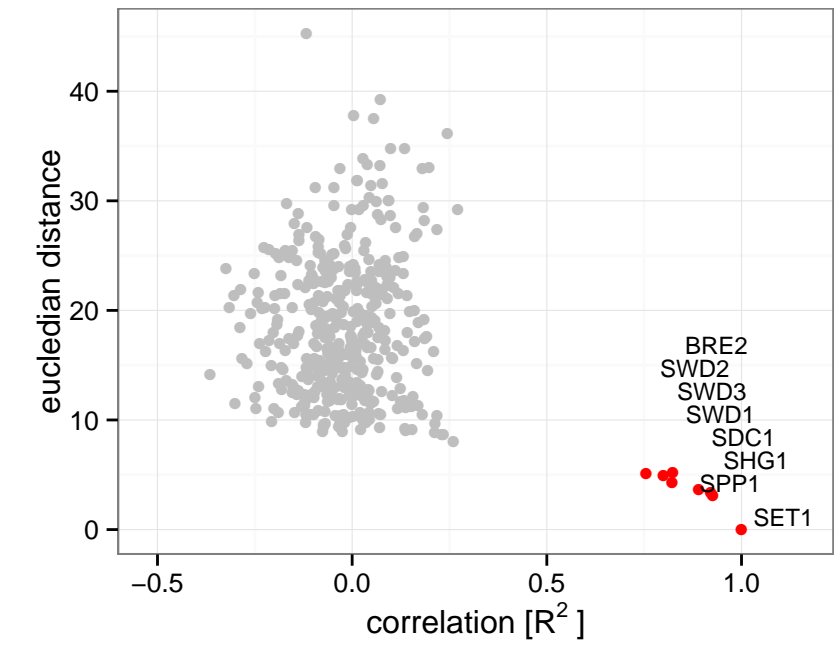
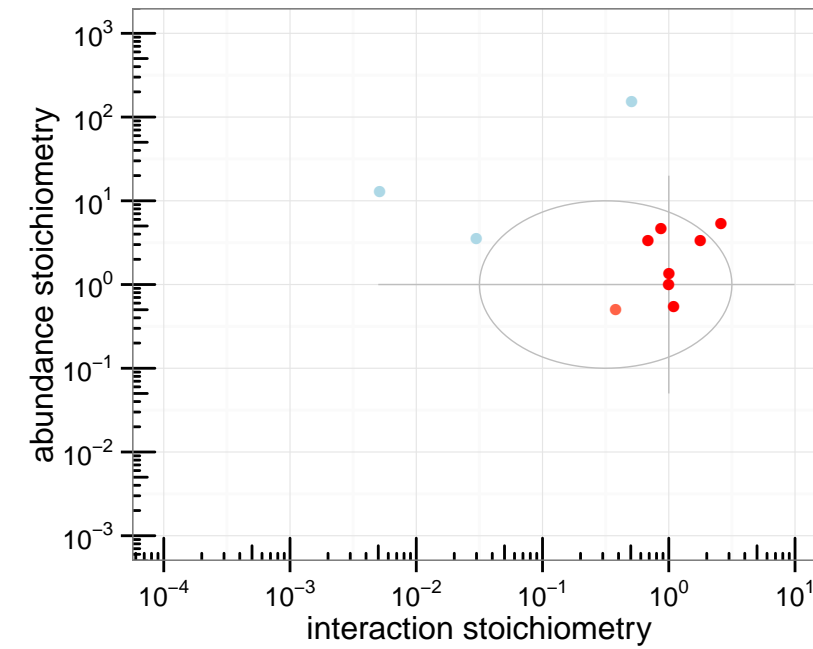
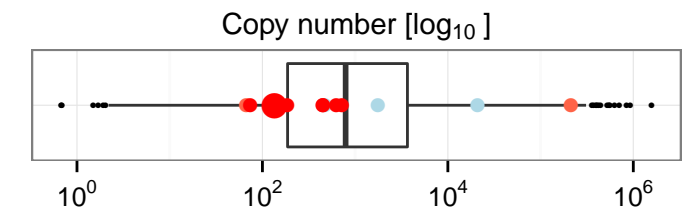
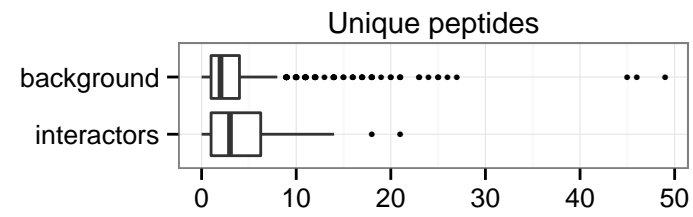
<b>interactors</b>	23
<b>recovery</b>	82 %



	ABF2	ARP9	HHT1	HTB2	HTL1	NPL6	POB3	RSC1	RSC2	RSC3	RSC30	RSC4	RSC58	RSC6	RSC8	RSC9	RTT102	SFH1	SPT16	STH1	TOP2	YTA7
<i>significance</i>	5.4	6.8	5.1	5.6	4.6	11.0	6.7	7.4	9.4	6.1	6.2	8.5	10.0	9.5	17.0	7.6	6.1	5.0	7.0	10.0	6.2	4.9
<i>interactor class</i>	A+	A+	A+	A+	B+	A+	B+	A+	A+	A+	A+	A+	A+	A+	A+	A+	A+	B+	A+	A+	B+	B+

<b>bait</b>	SET1
<b>experiment</b>	27 minutes

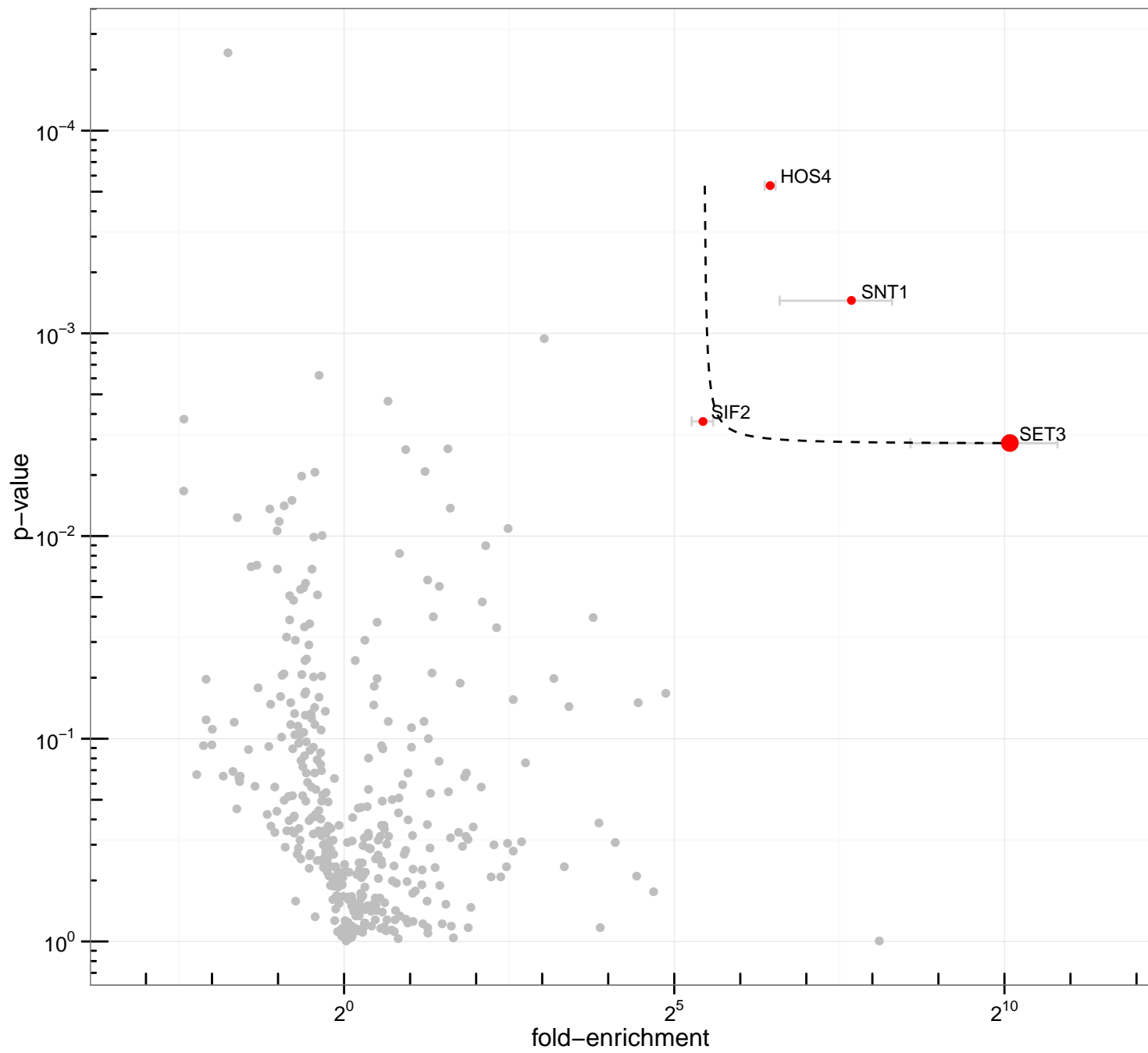
<b>interactors</b>	12
<b>recovery</b>	86 %



	BDF2	BRE2	RPP1A	SDC1	SET1	SHG1	SPP1	SWD1	SWD3
<i>significance</i>	4.6	7.5	5.1	8.9	10.0	6.8	7.4	8.3	6.5
<i>interactor class</i>	A	A+	A	A+	A+	A+	A+	A+	A+

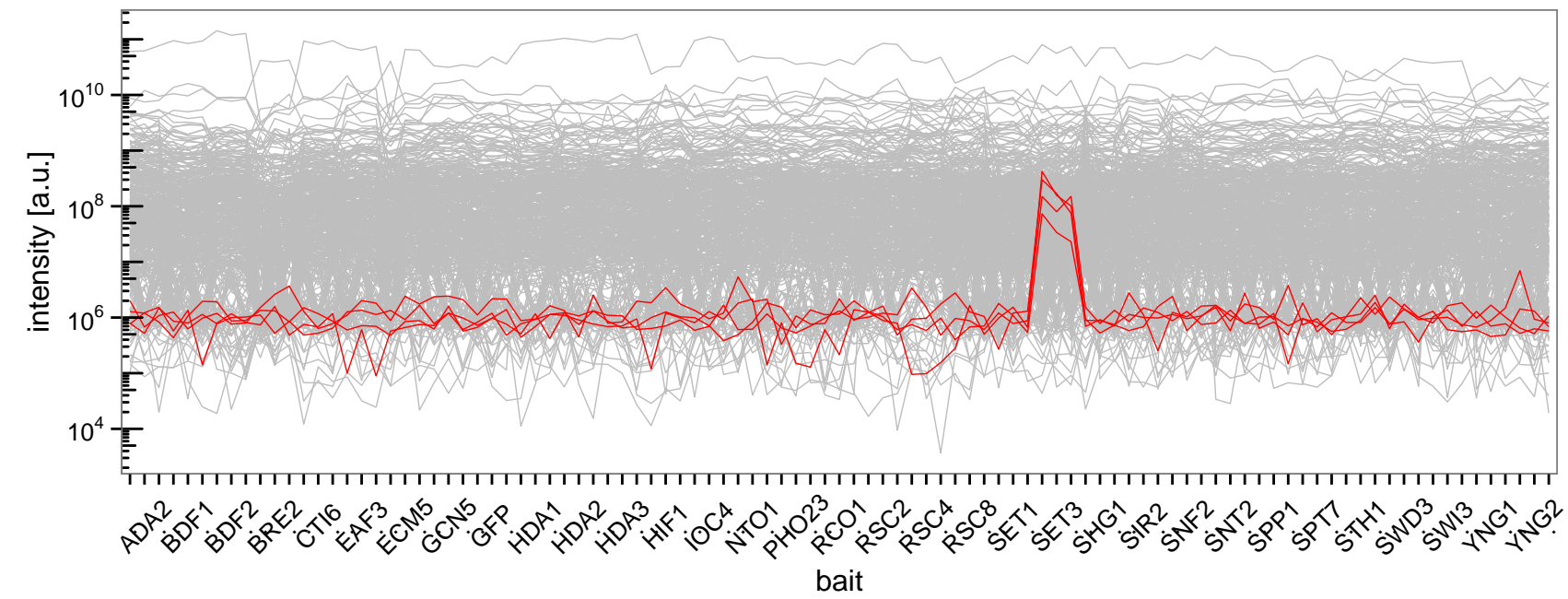
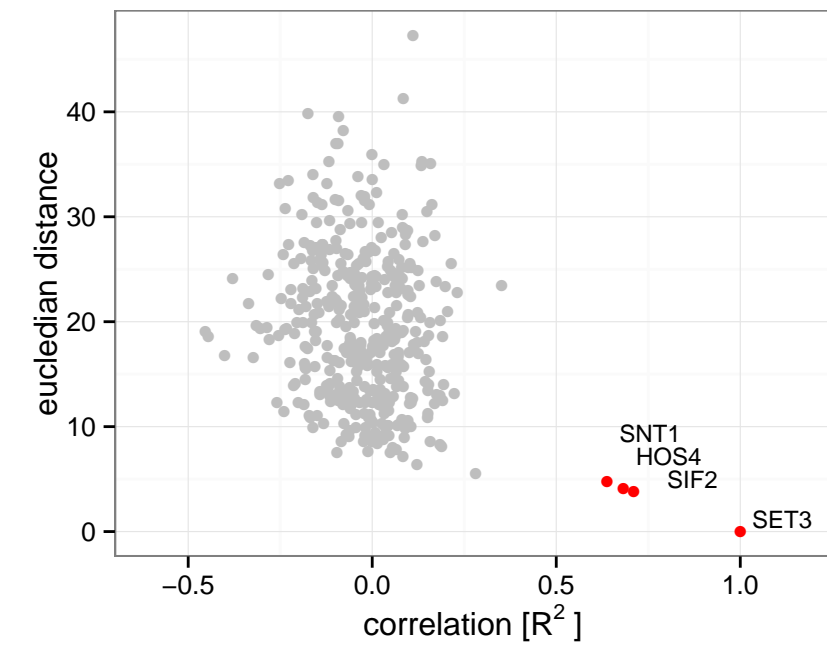
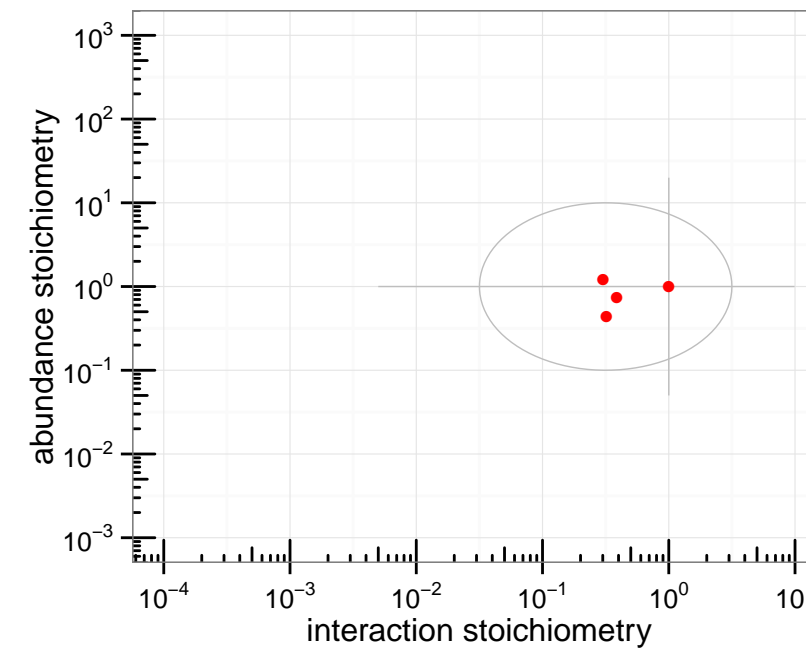
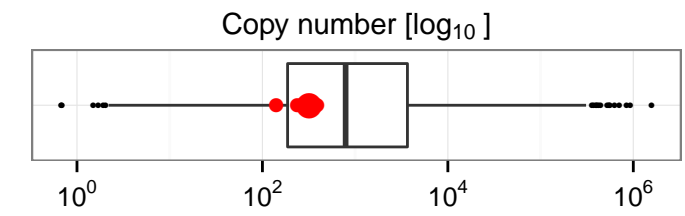
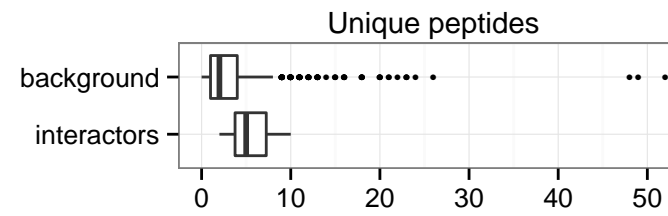
<b>bait</b>	SET3
<b>experiment</b>	27 minutes

<b>interactors</b>	4
<b>recovery</b>	18 %



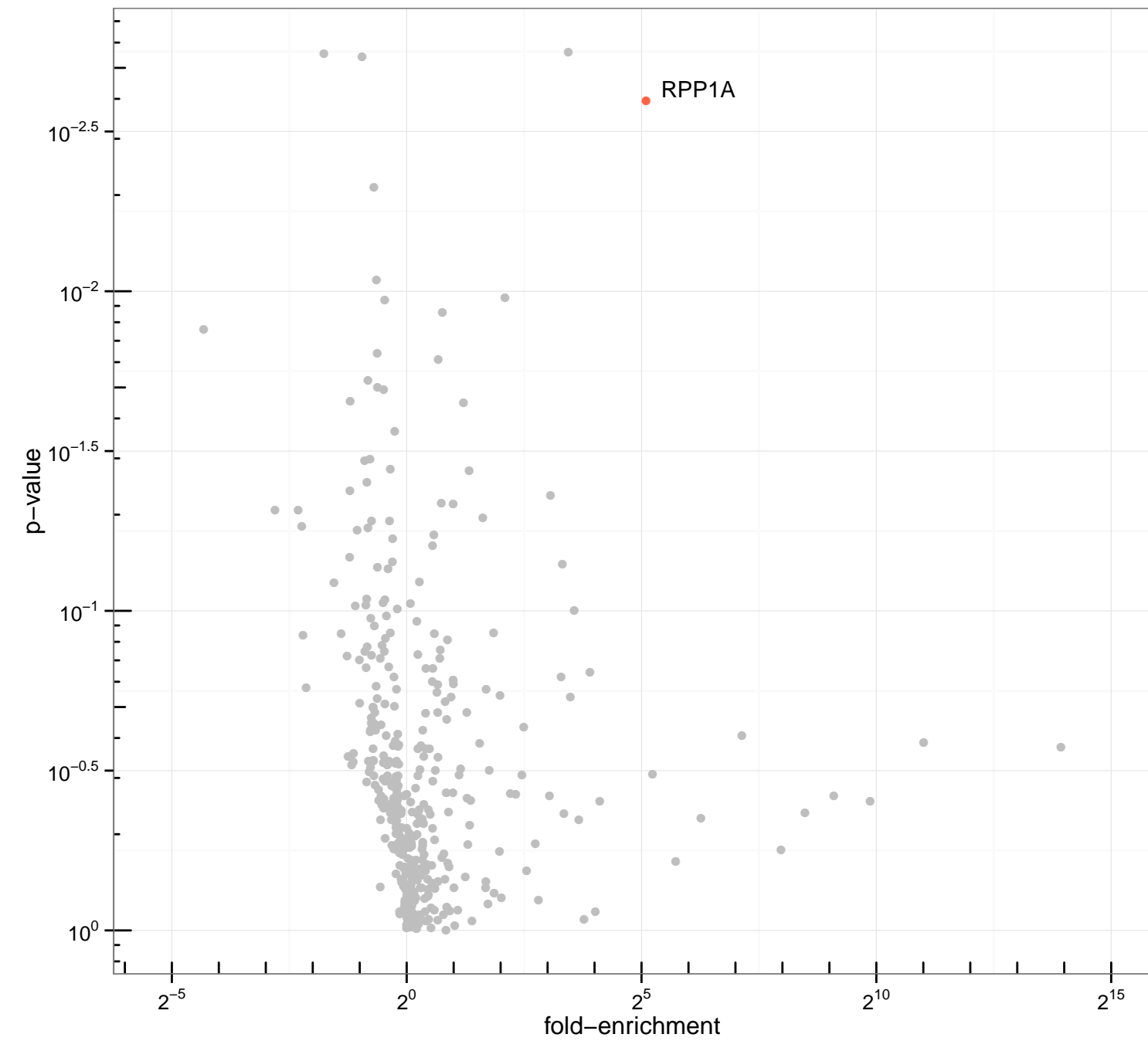
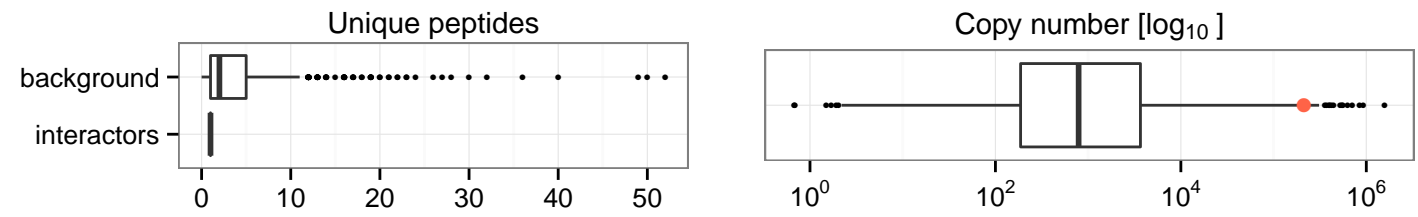
**Interactor class**  
● A+

	HOS4	SET3	SIF2	SNT1
<i>significance</i>	6.6	9.4	5.1	7.4
<i>interactor class</i>	A+	A+	A+	A+

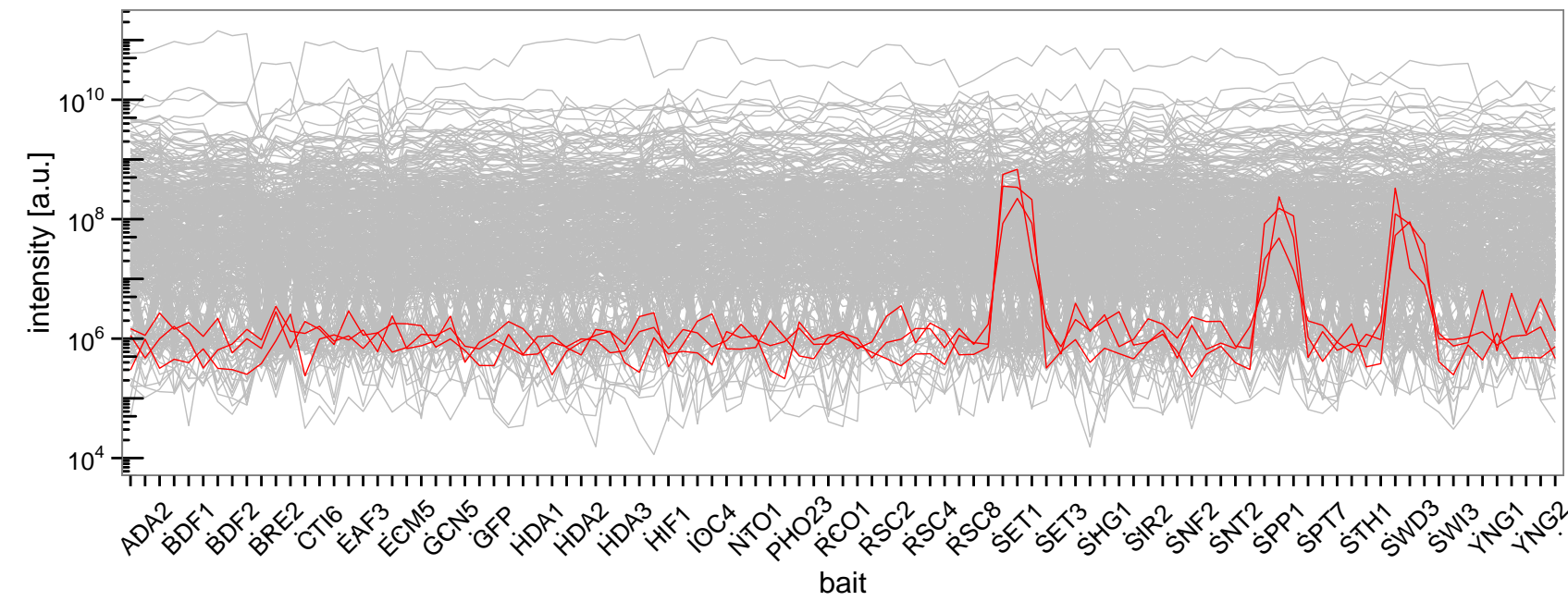
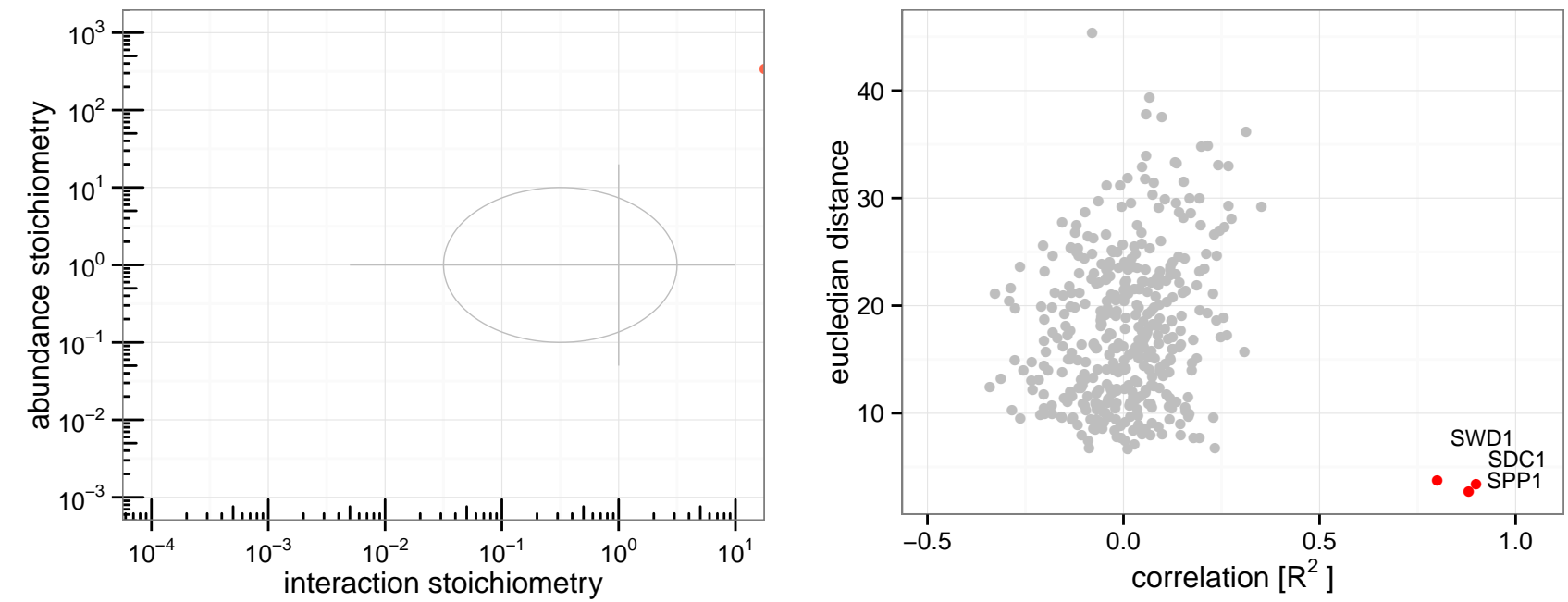


<b>bait</b>	SHG1
<b>experiment</b>	27 minutes

<b>interactors</b>	1
<b>recovery</b>	0 %



**Interactor class**  
● A

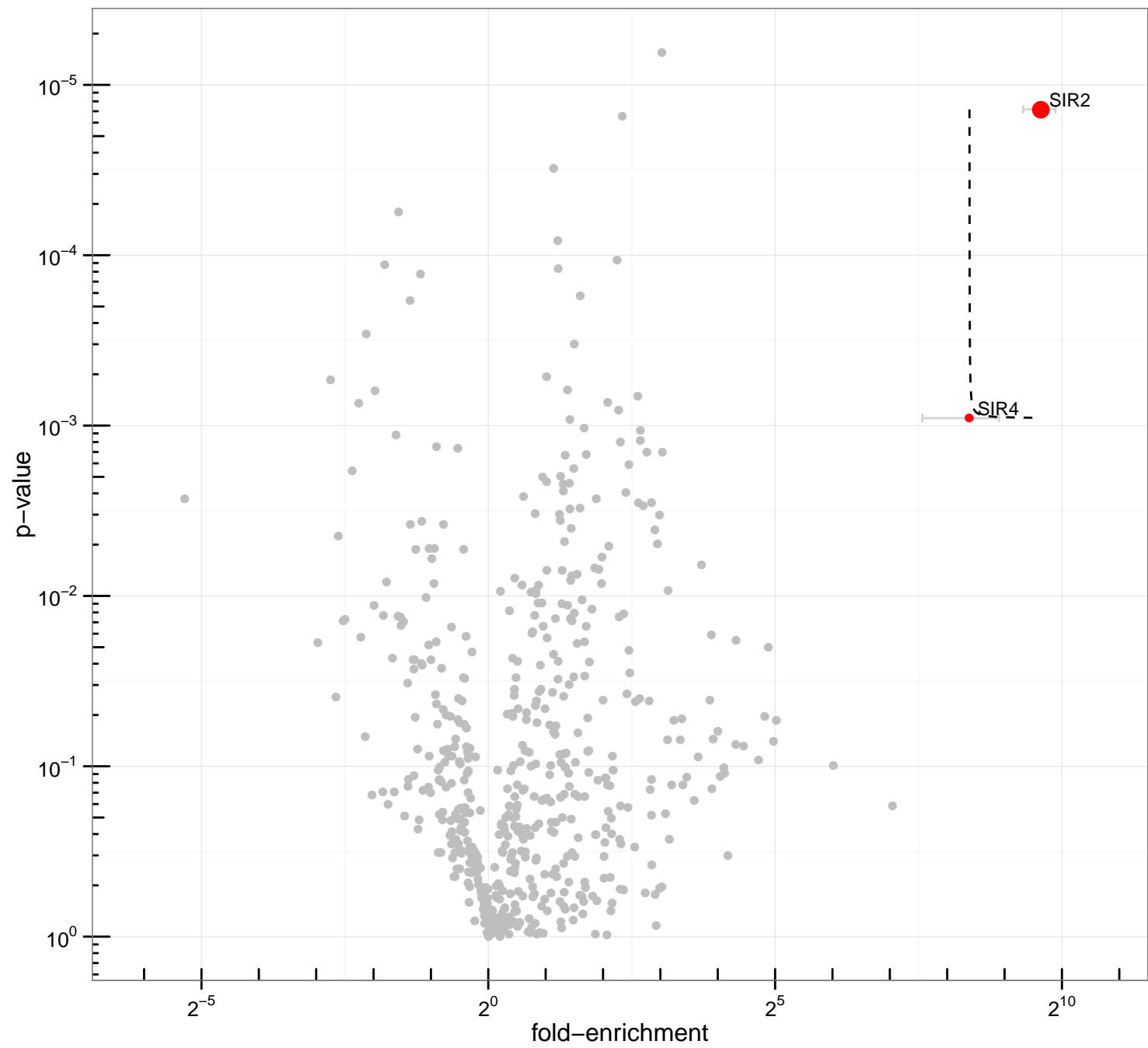


	<b>RPP1A</b>
<i>significance</i>	4.9
<i>interactor class</i>	A



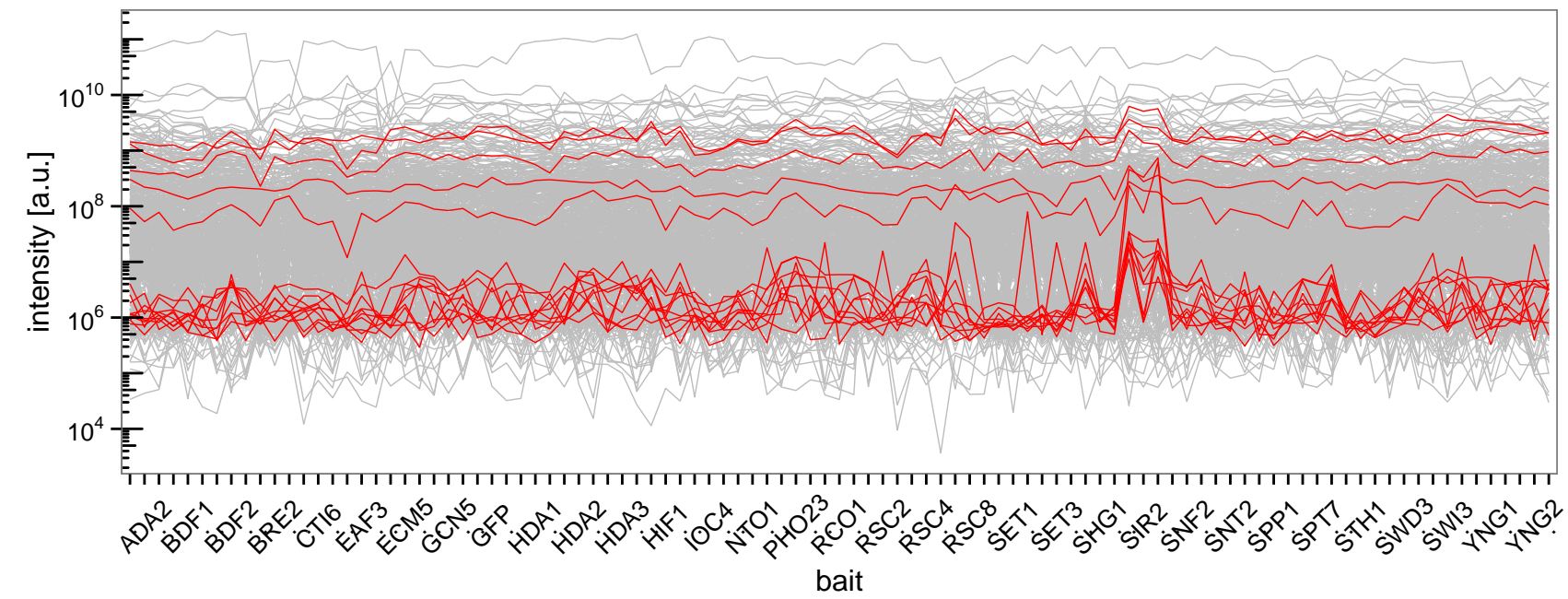
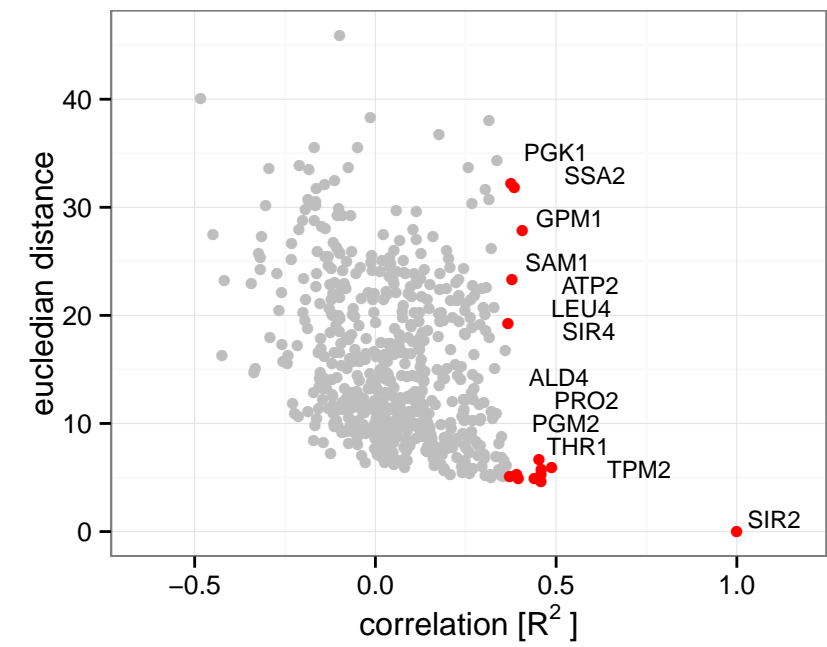
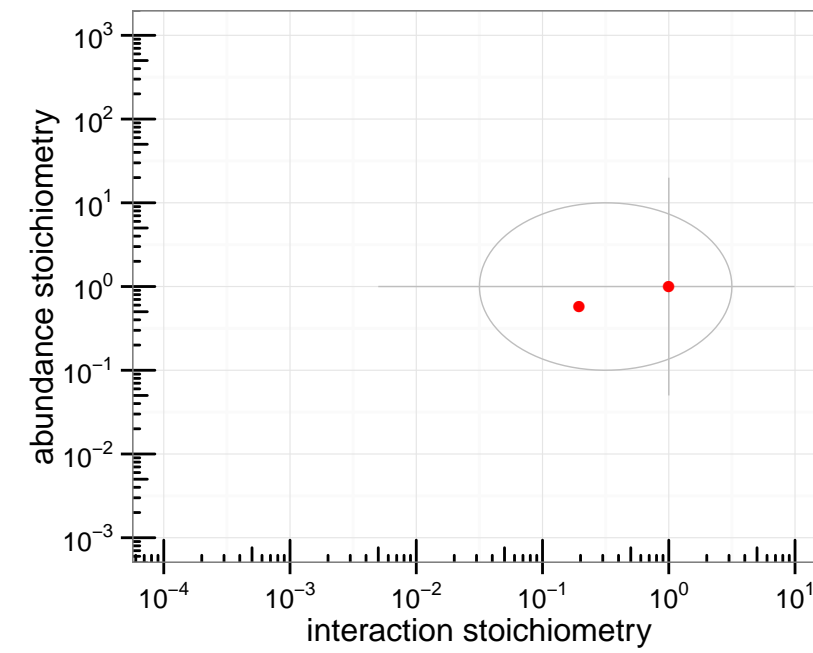
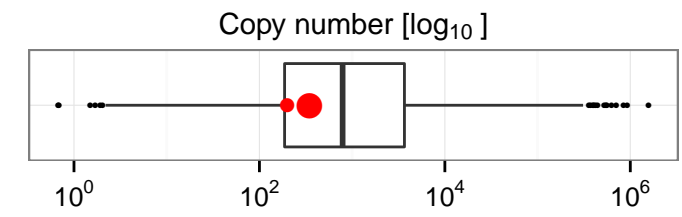
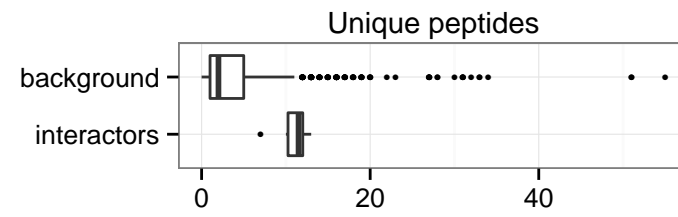
<b>bait</b>	SIR2
<b>experiment</b>	27 minutes

<b>interactors</b>	2
<b>recovery</b>	20 %



**Interactor class**  
● A+

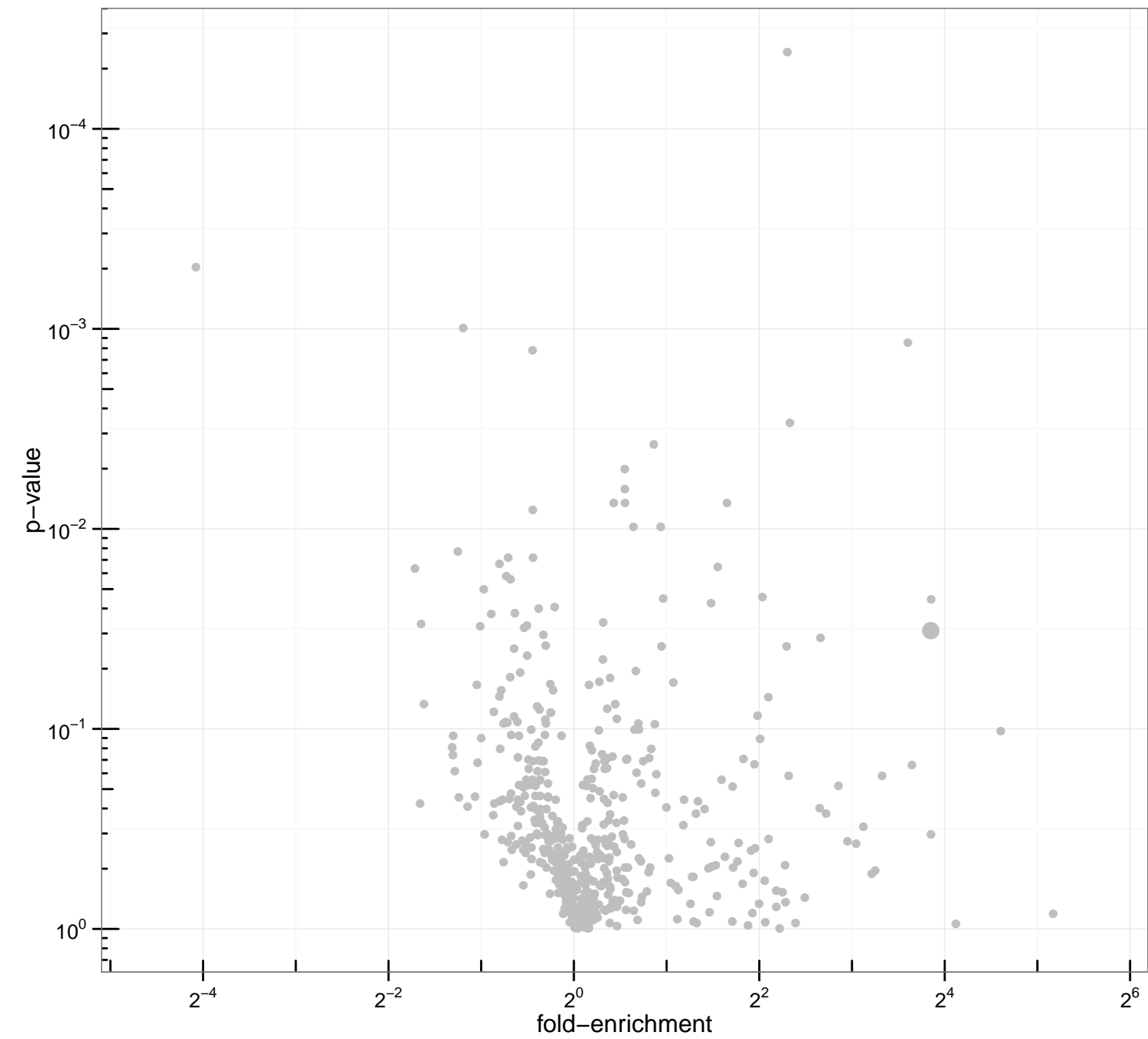
	SIR2	SIR4
<i>significance</i>	9.9	8.0
<i>interactor class</i>	A+	A+



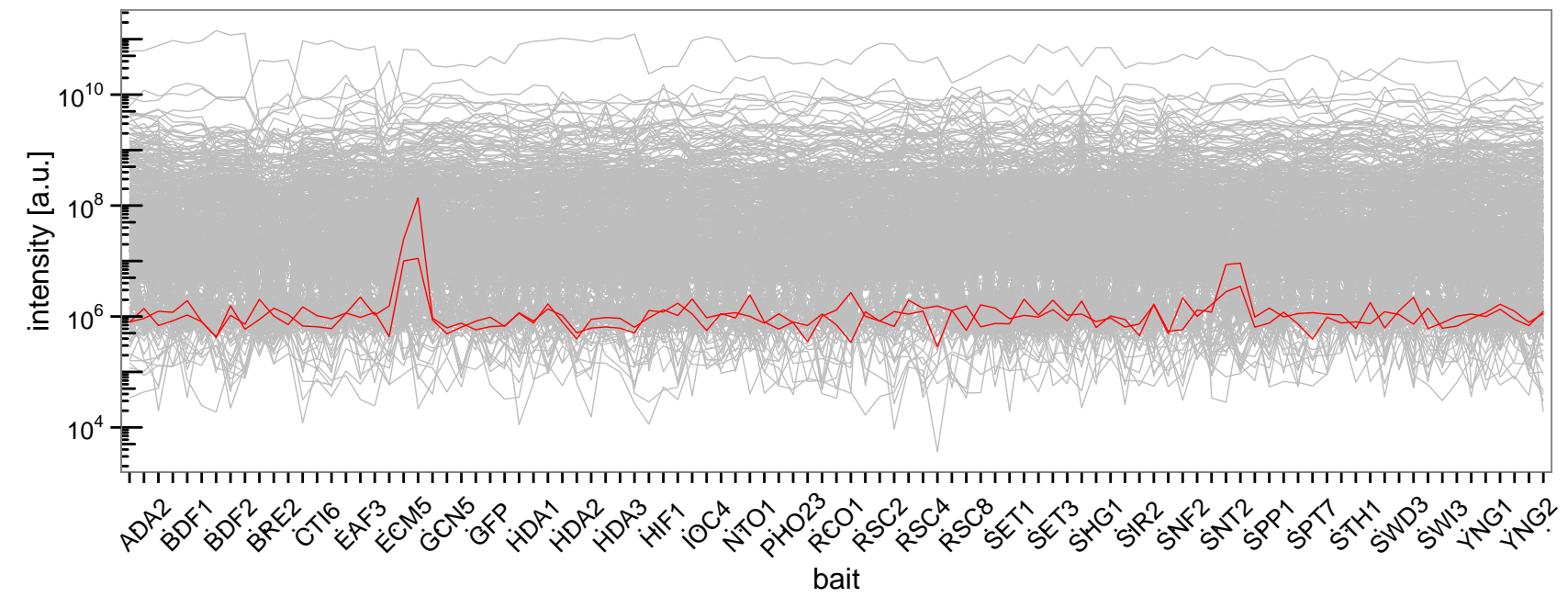
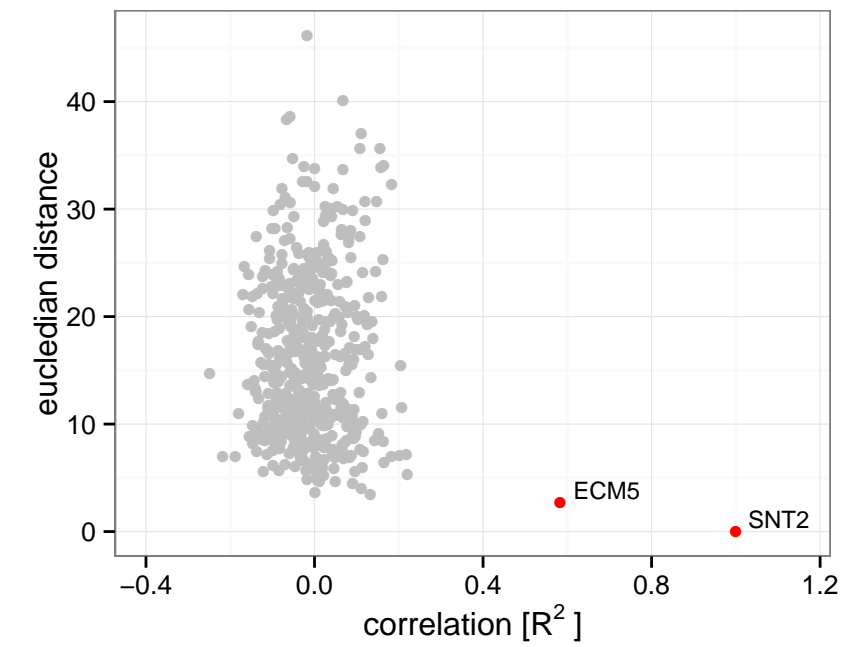
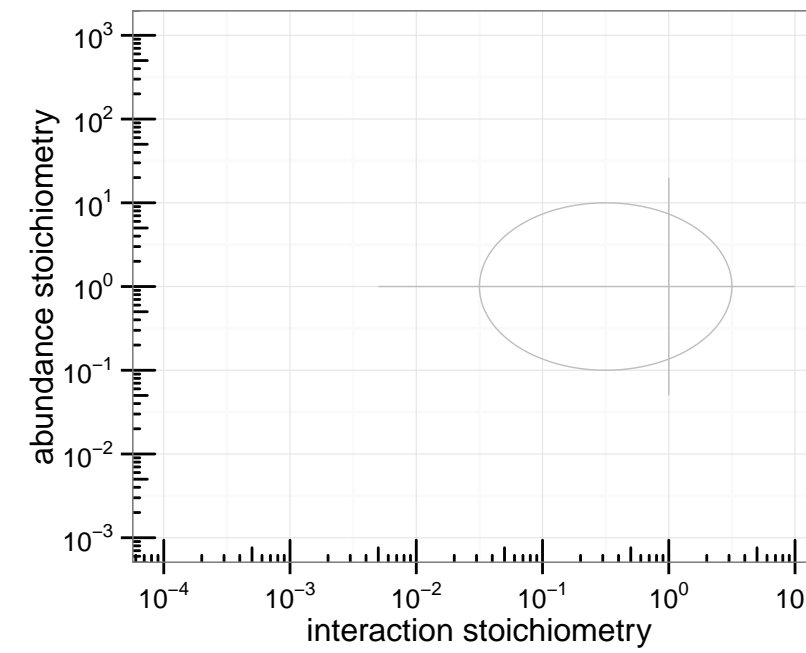
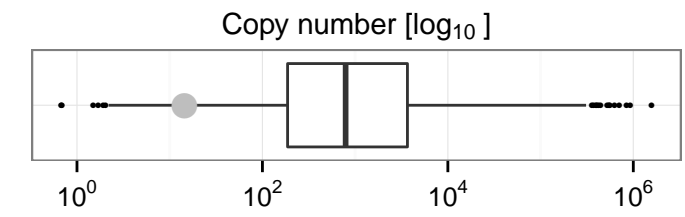
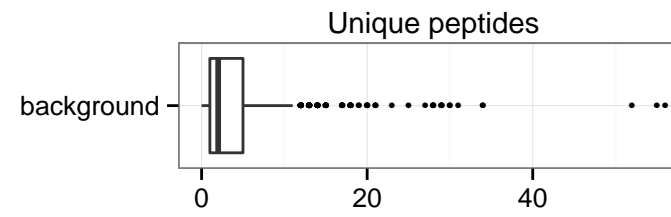


<b>bait</b>	SNT2
<b>experiment</b>	27 minutes

<b>interactors</b>	0
<b>recovery</b>	0 %



**Interactor class**  
 -



*significance*  
*interactor class*



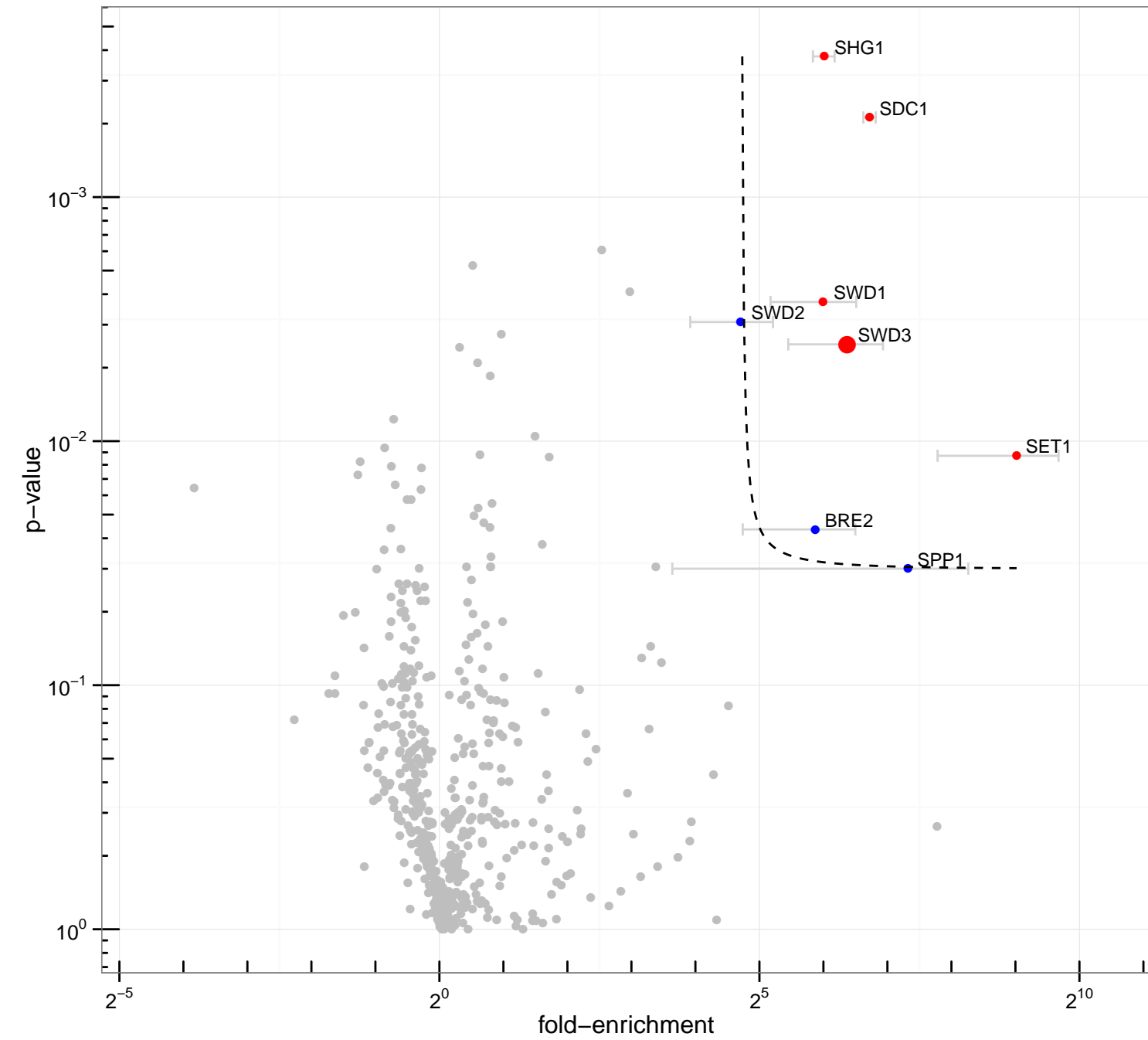
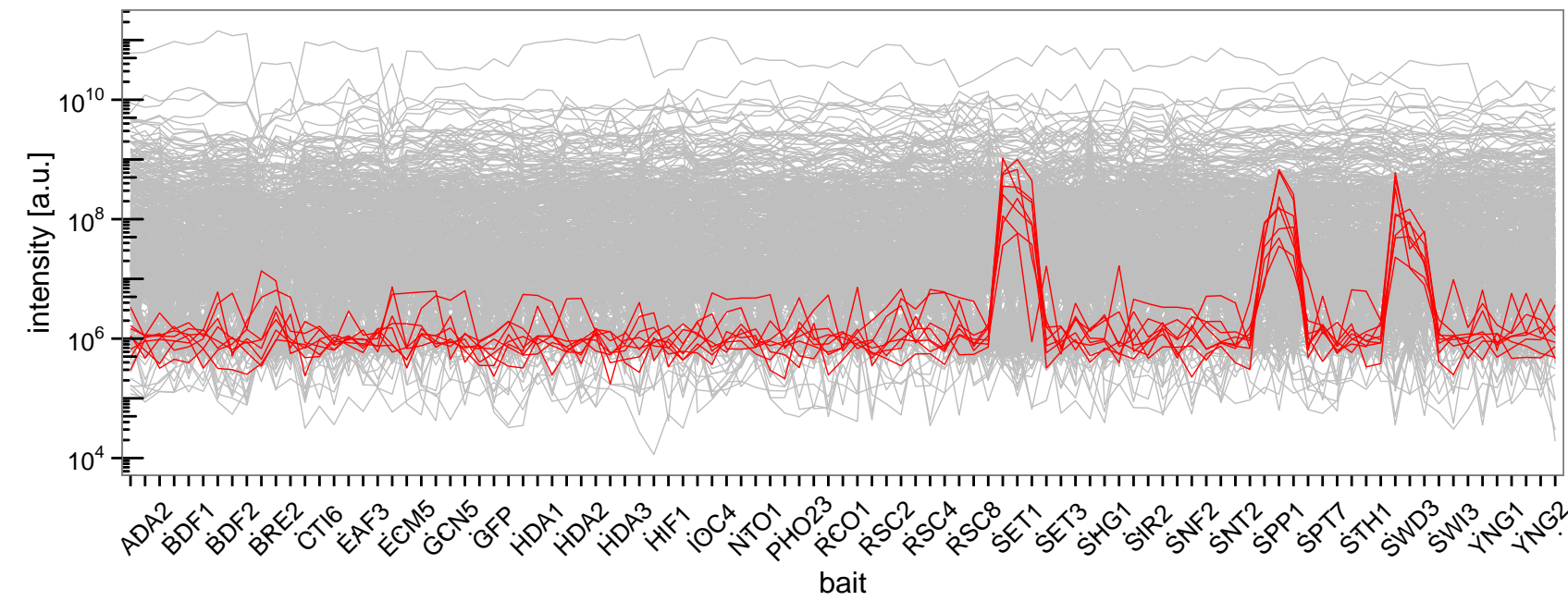
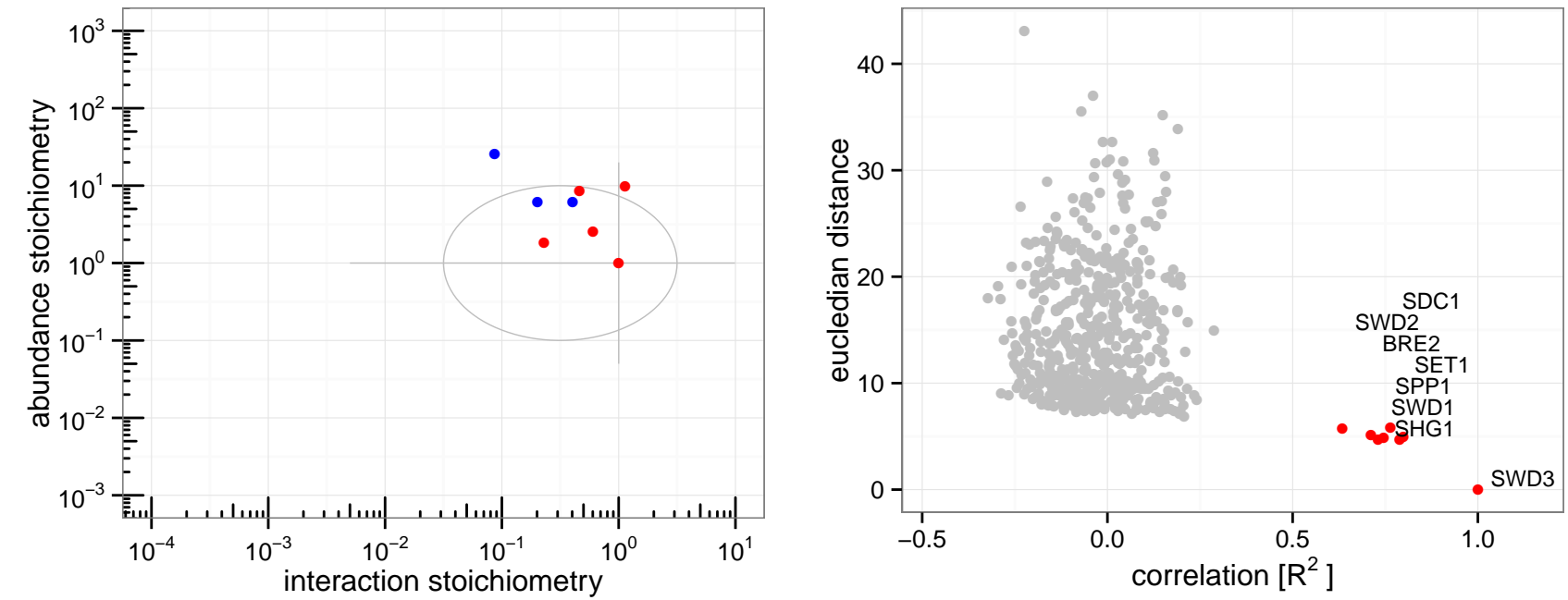
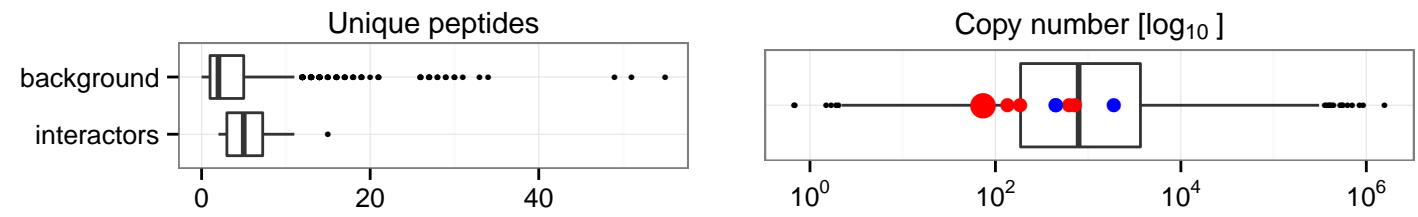






<b>bait</b>	SWD3
<b>experiment</b>	27 minutes

<b>interactors</b>	8
<b>recovery</b>	100 %



**Interactor class**

- A+
- B+

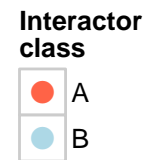
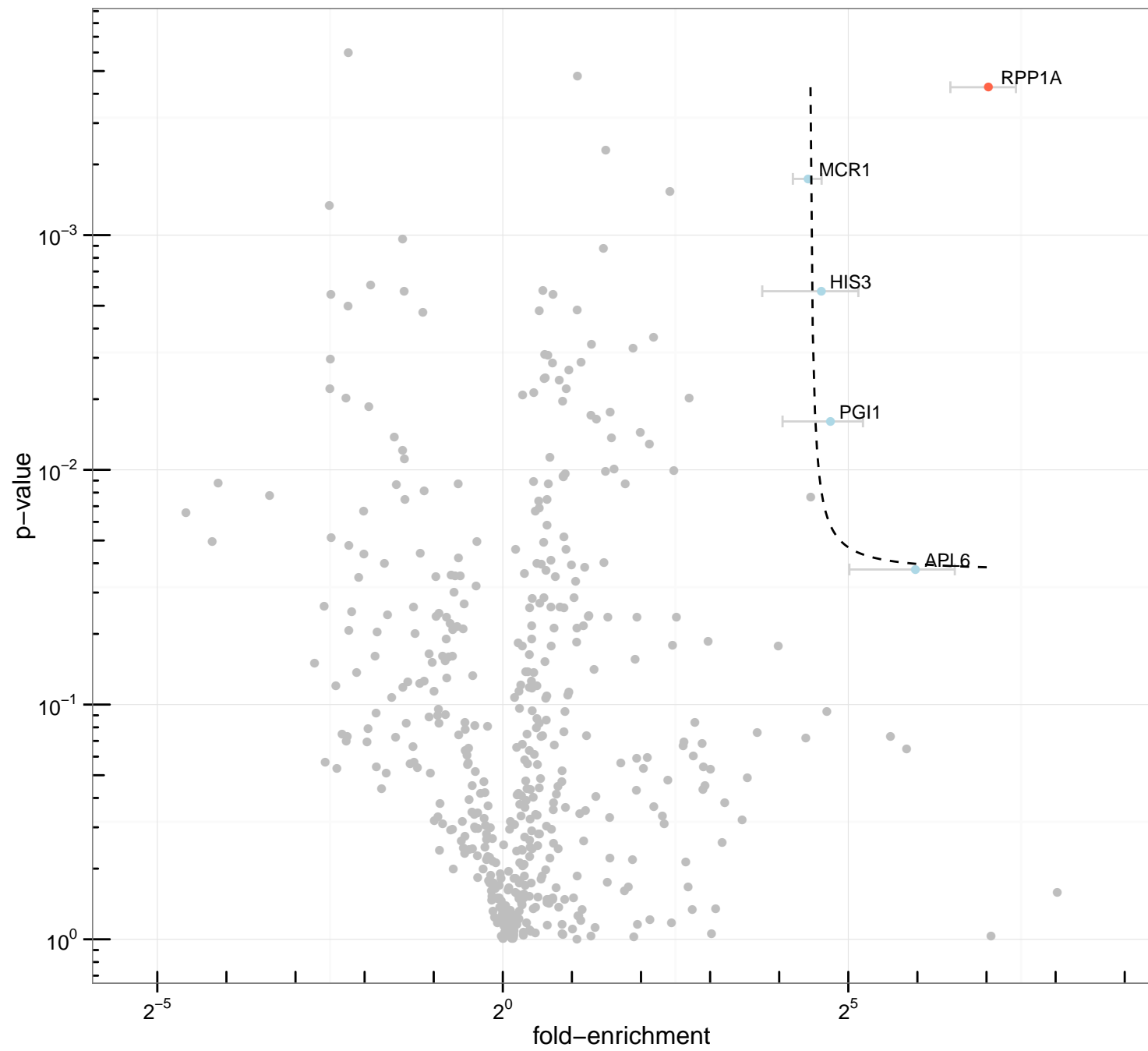
	BRE2	SDC1	SET1	SHG1	SPP1	SWD1	SWD2	SWD3
<i>significance</i>	5.1	6.6	8.2	6.2	6.5	5.6	4.5	5.9
<i>interactor class</i>	B+	A+	A+	A+	B+	A+	B+	A+



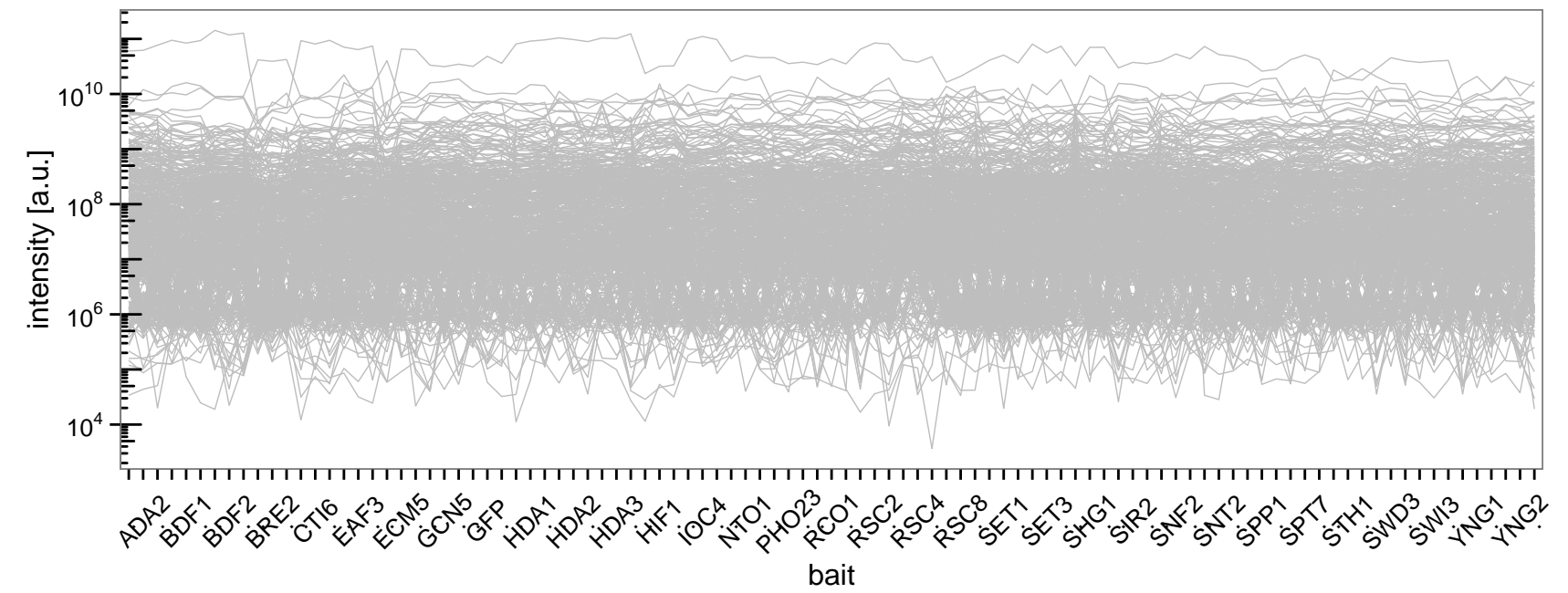
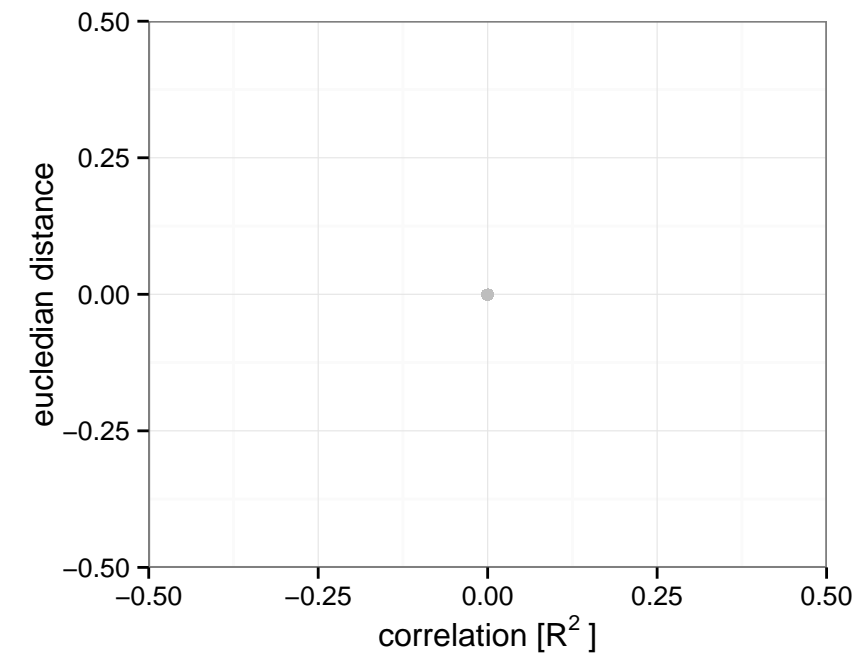
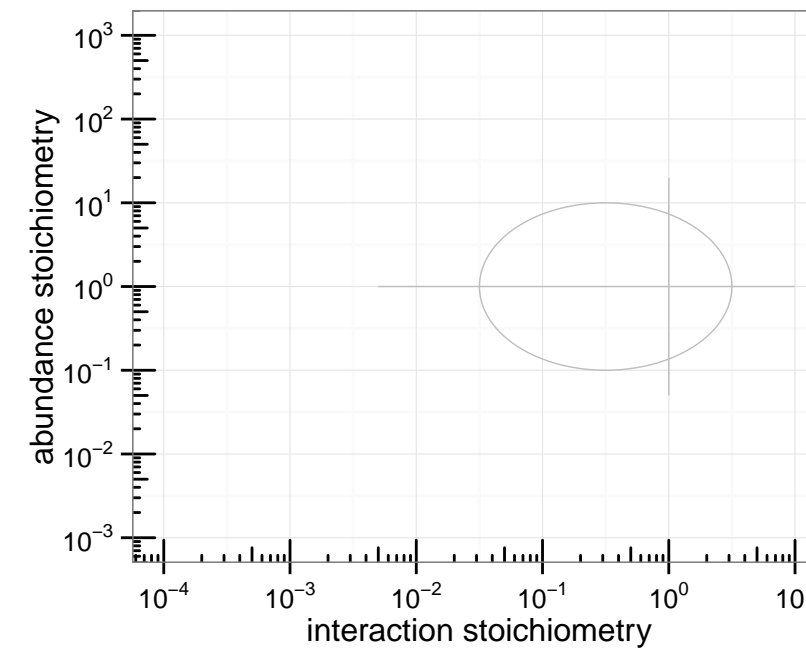
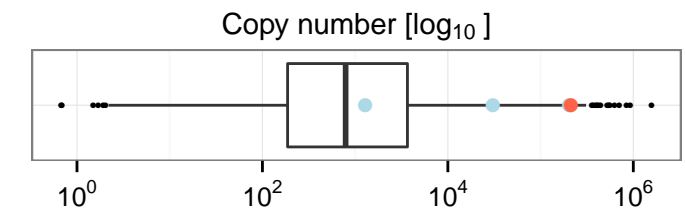
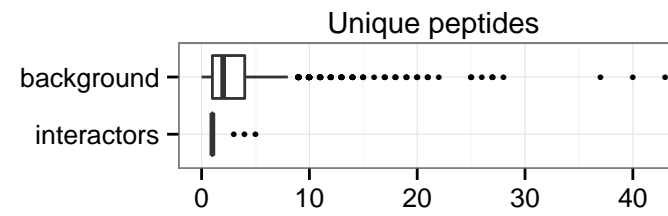


<b>bait</b>	YNG1
<b>experiment</b>	27 minutes

<b>interactors</b>	5
<b>recovery</b>	NaN %

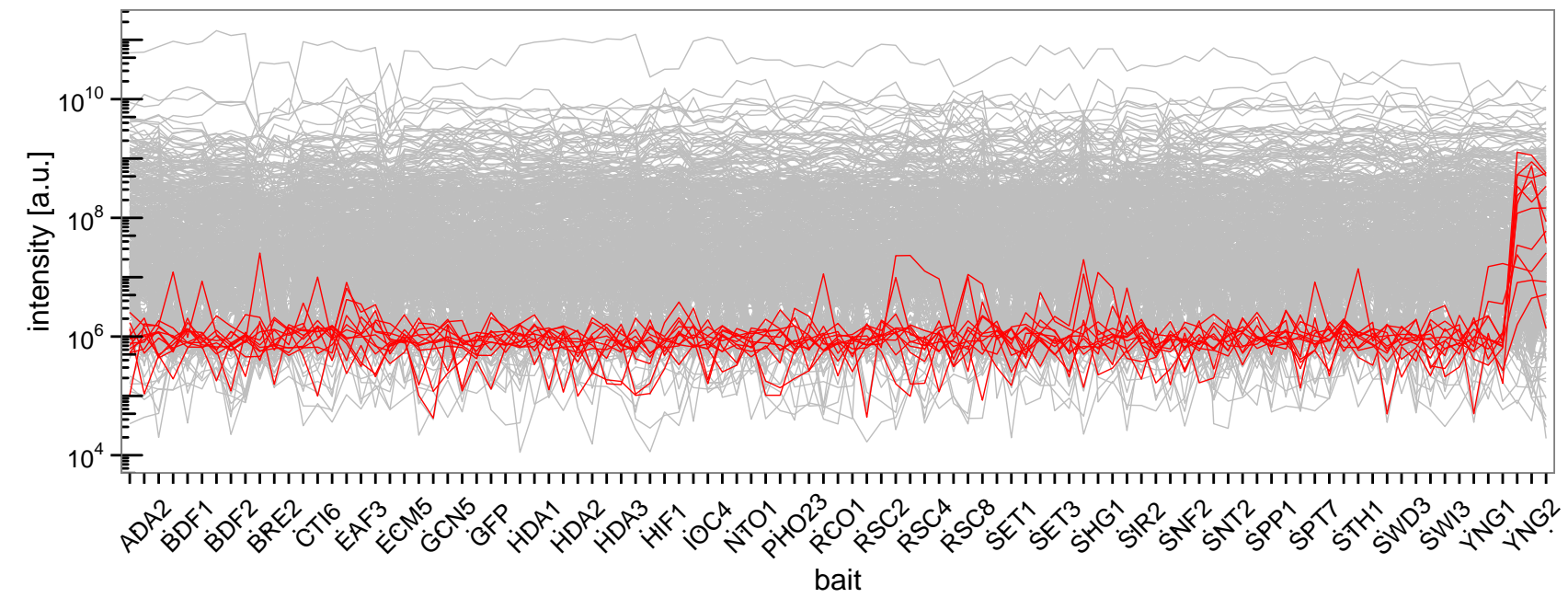
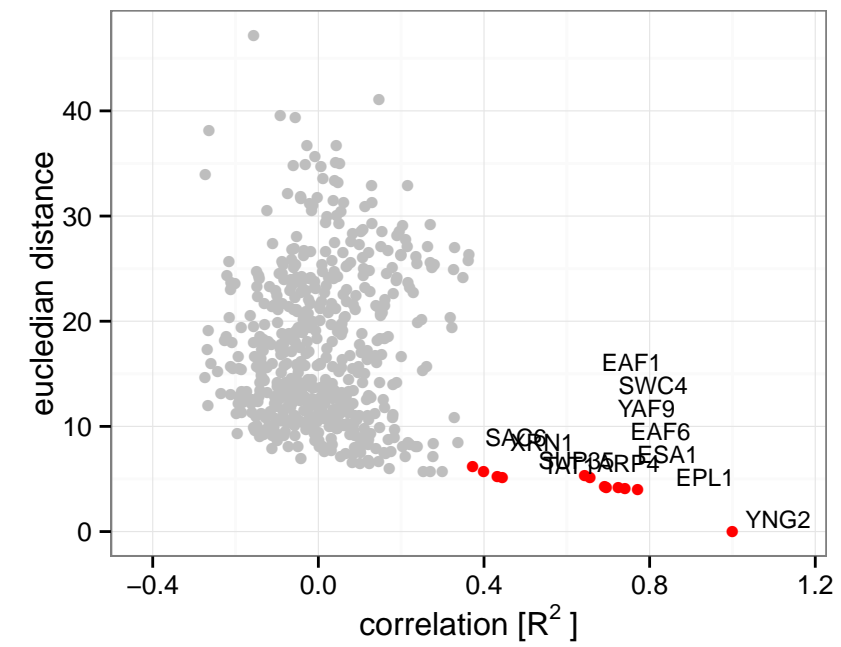
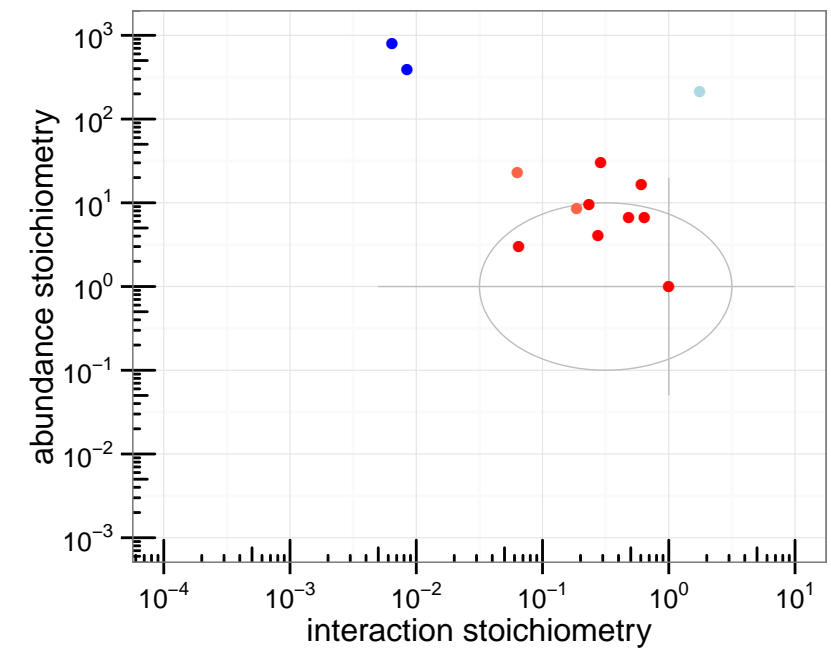
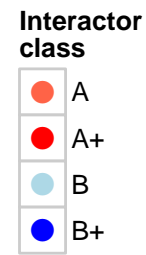
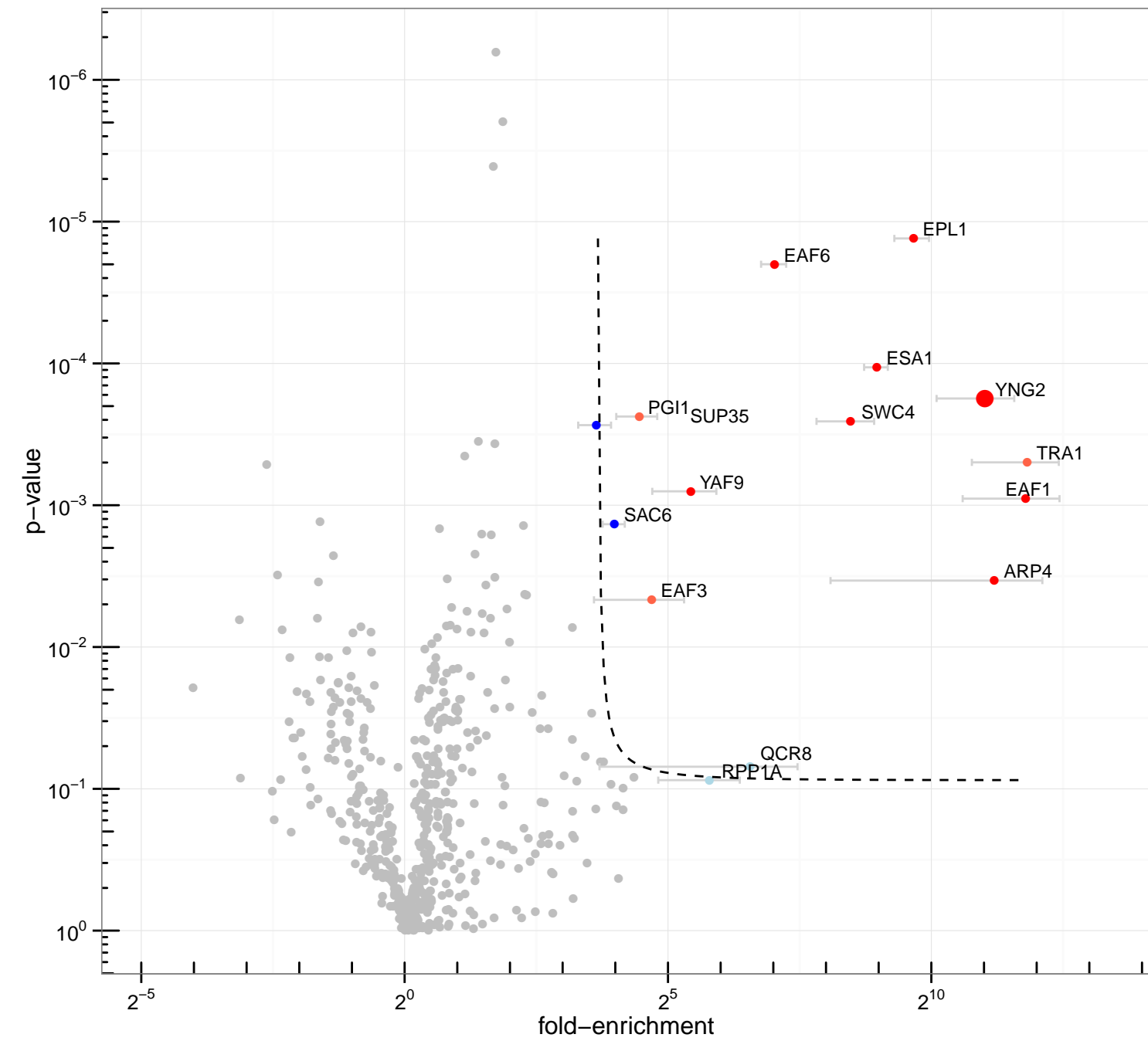
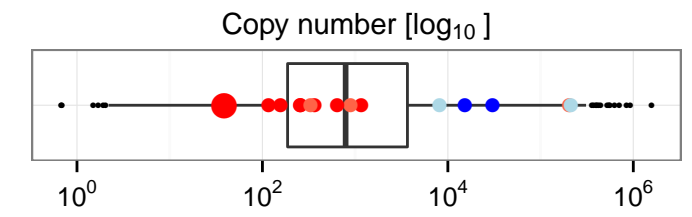
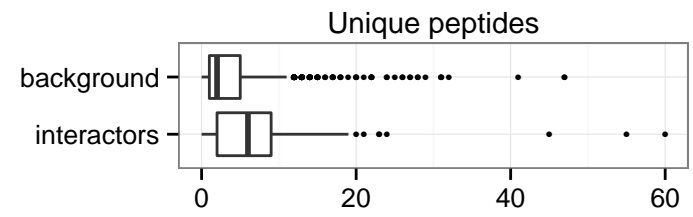


	<b>RPP1A</b>
<i>significance</i>	7
<i>interactor class</i>	A



<b>bait</b>	YNG2
<b>experiment</b>	27 minutes

<b>interactors</b>	15
<b>recovery</b>	69 %



	ARP4	EAF1	EAF3	EAF6	EPL1	ESA1	PGI1	SAC6	SUP35	SWC4	TRA1	YAF9	YNG2
<i>significance</i>	10.0	11.0	4.4	7.6	9.9	8.9	5.0	4.1	4.4	8.3	11.0	5.4	11.0
<i>interactor class</i>	A+	A+	A	A+	A+	A+	A	B+	B+	A+	A	A+	A+