

Outline

RNAseq samples

Control VS treatment

Control Samples along time

Treatment Samples along time

Controls

Treatment

Control genes

ATACseq - mapping stats

Outline

RNAseq samples

Control VS treatment

Control Samples along time

Treatment Samples along time

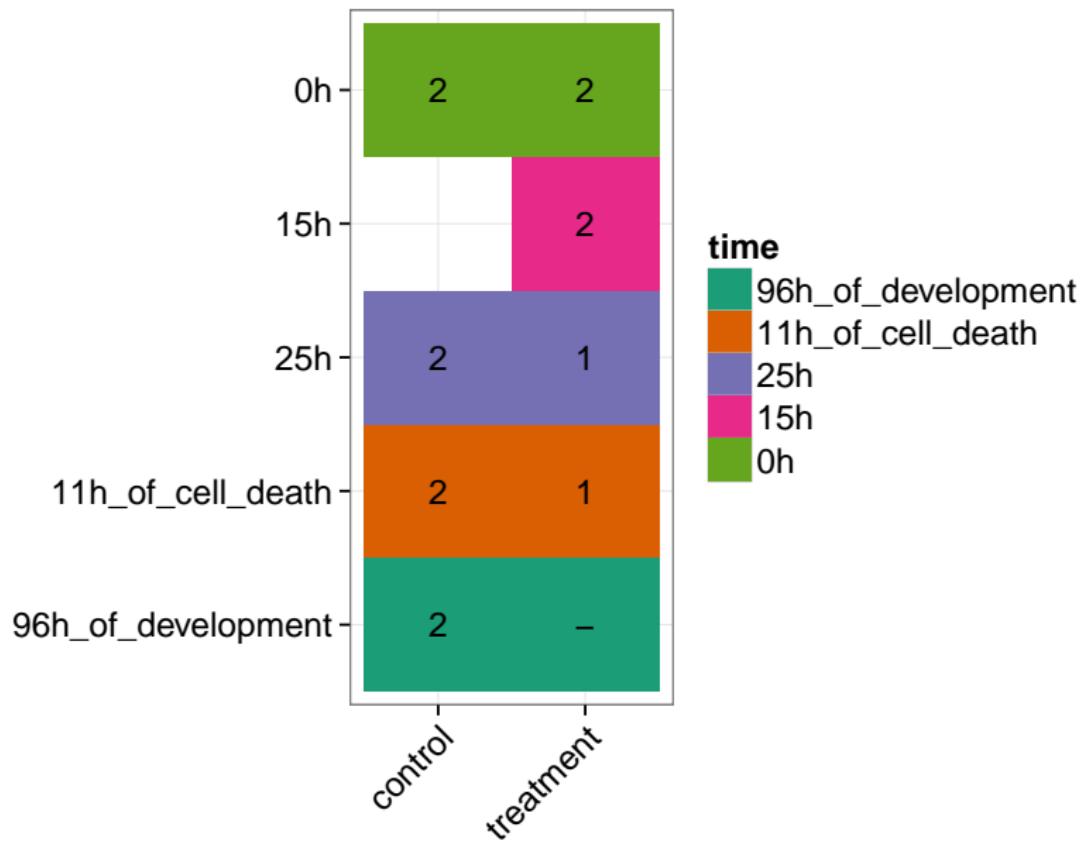
Controls

Treatment

Control genes

ATACseq - mapping stats

RNAseq samples



Outline

RNAseq samples

Control VS treatment

Control Samples along time

Treatment Samples along time

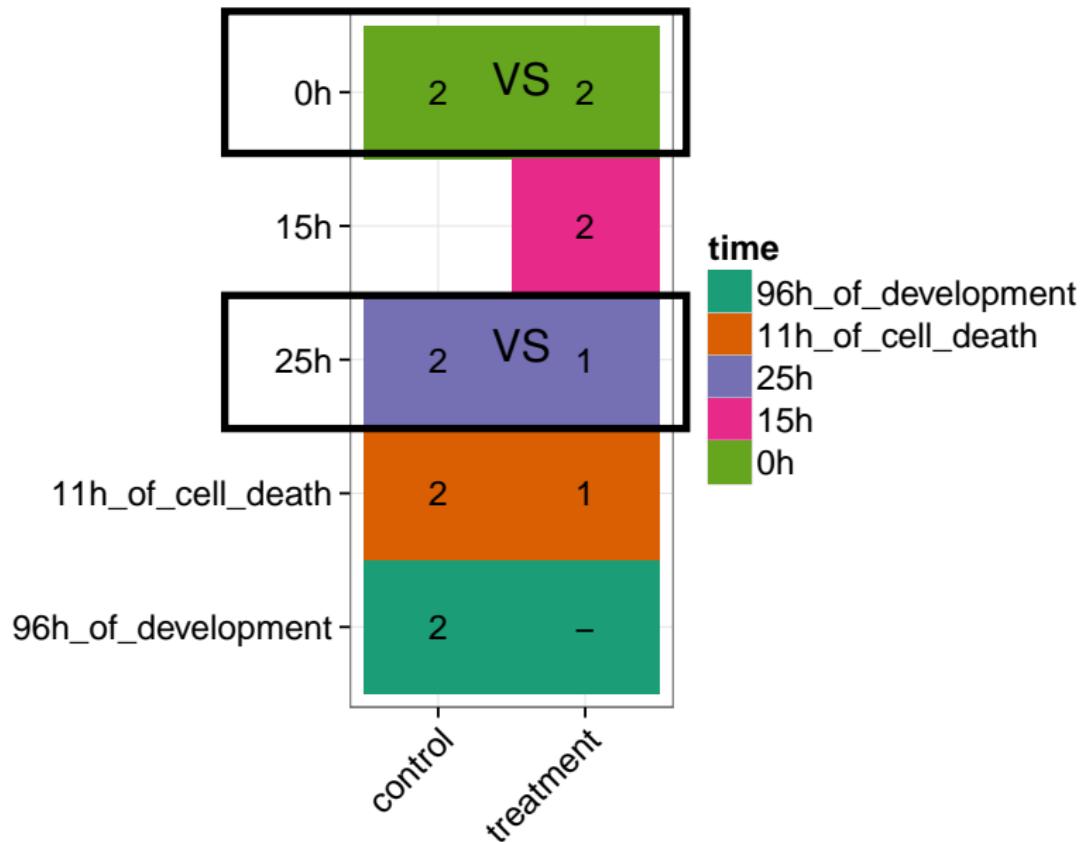
Controls

Treatment

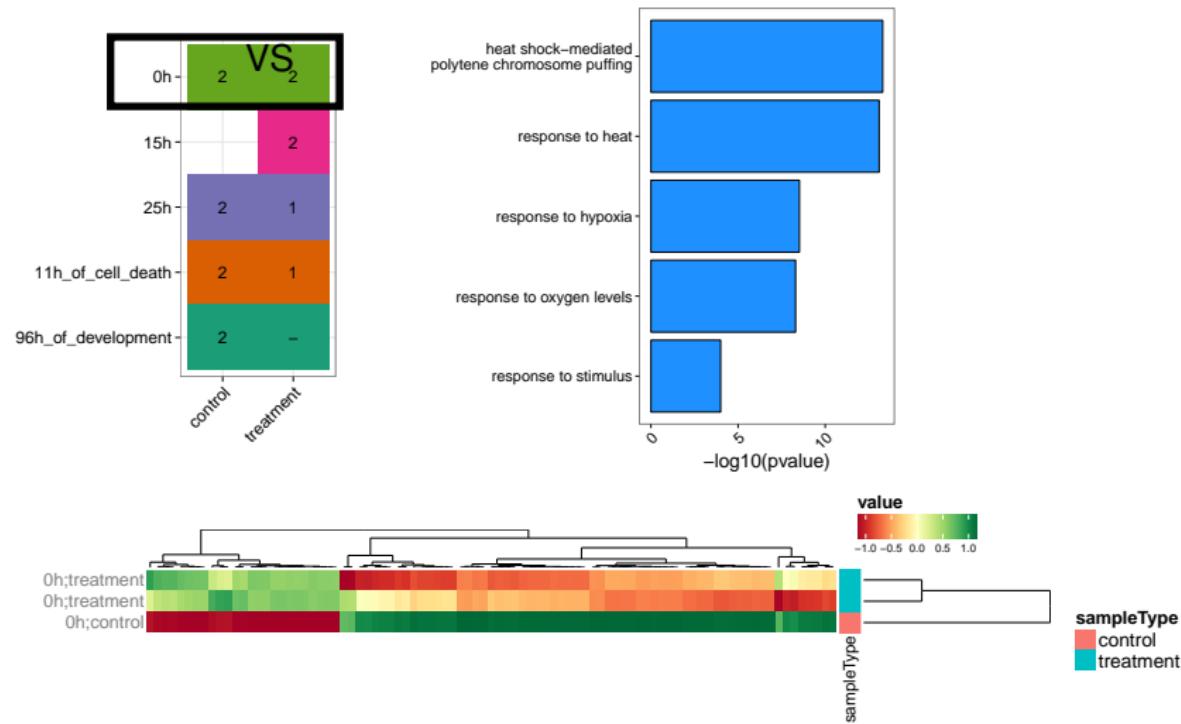
Control genes

ATACseq - mapping stats

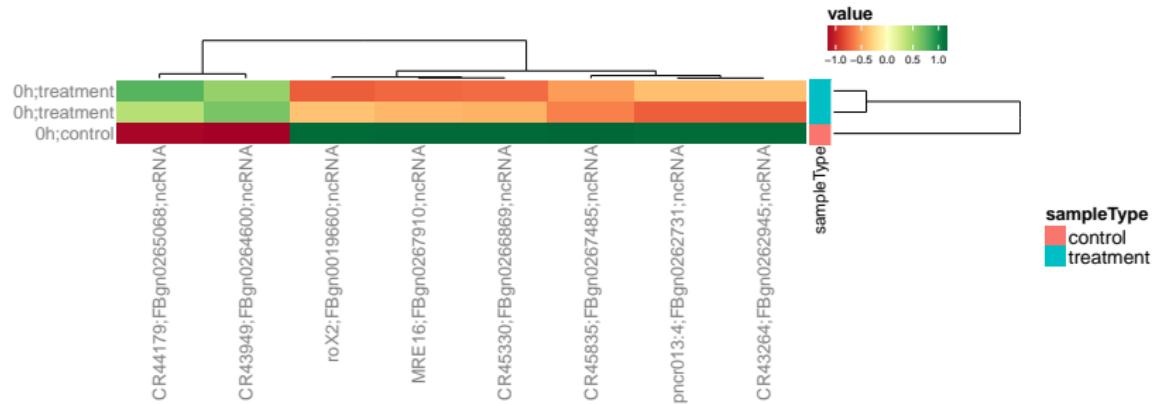
DEG - control VS treatment (EdgeR, FDR<0.01)



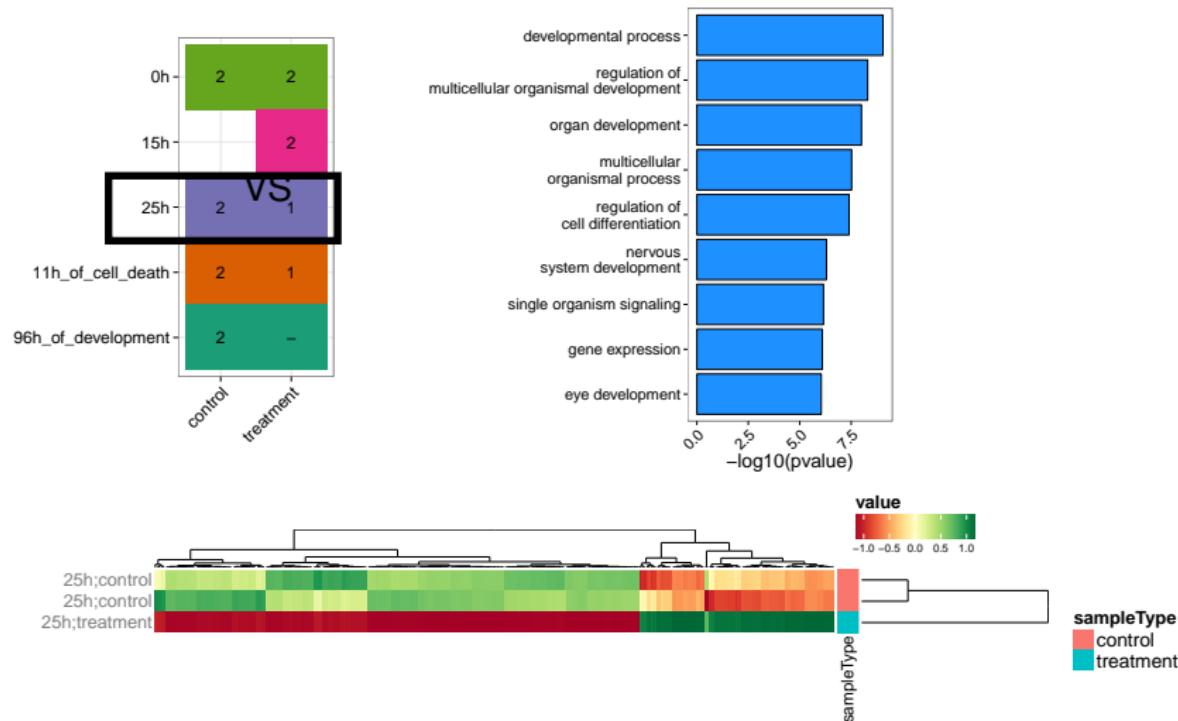
DEG - control VS treatment **0h** - 89 genes



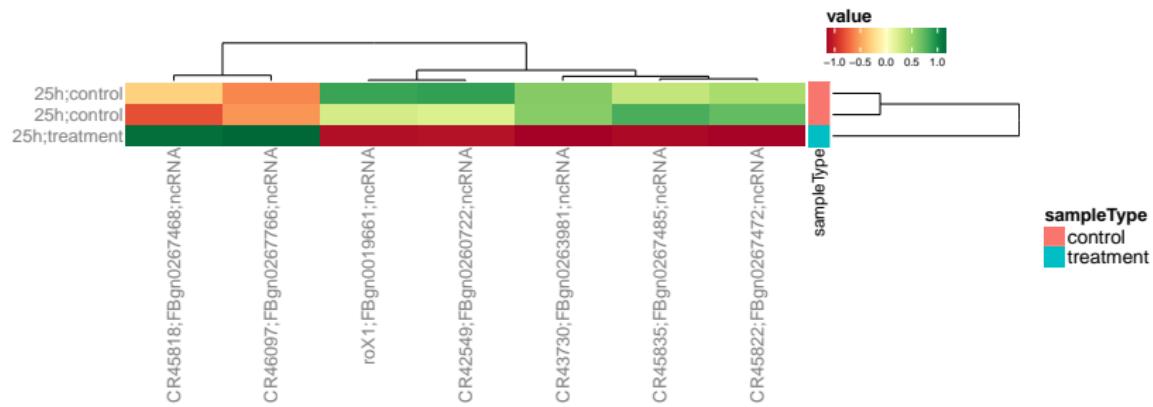
DEG - control VS treatment **0h** - ncRNA



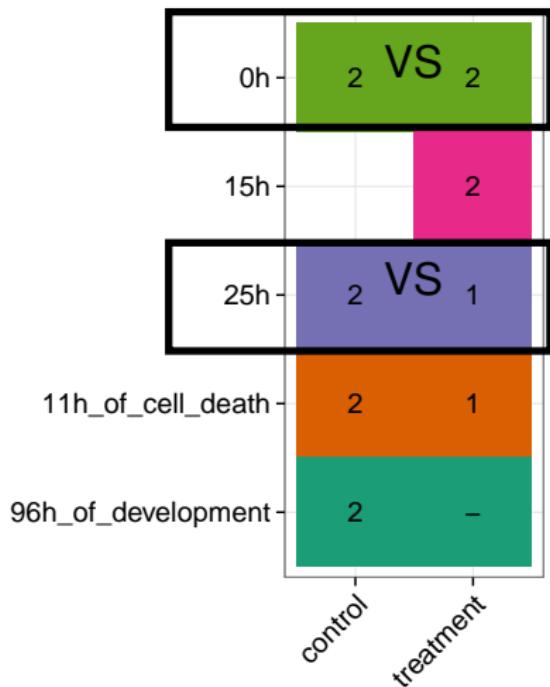
DEG - control VS treatment 25h - 313 genes



DEG - control VS treatment **25h** - ncRNA



DEG - control VS treatment



Outline

RNAseq samples

Control VS treatment

Control Samples along time

Treatment Samples along time

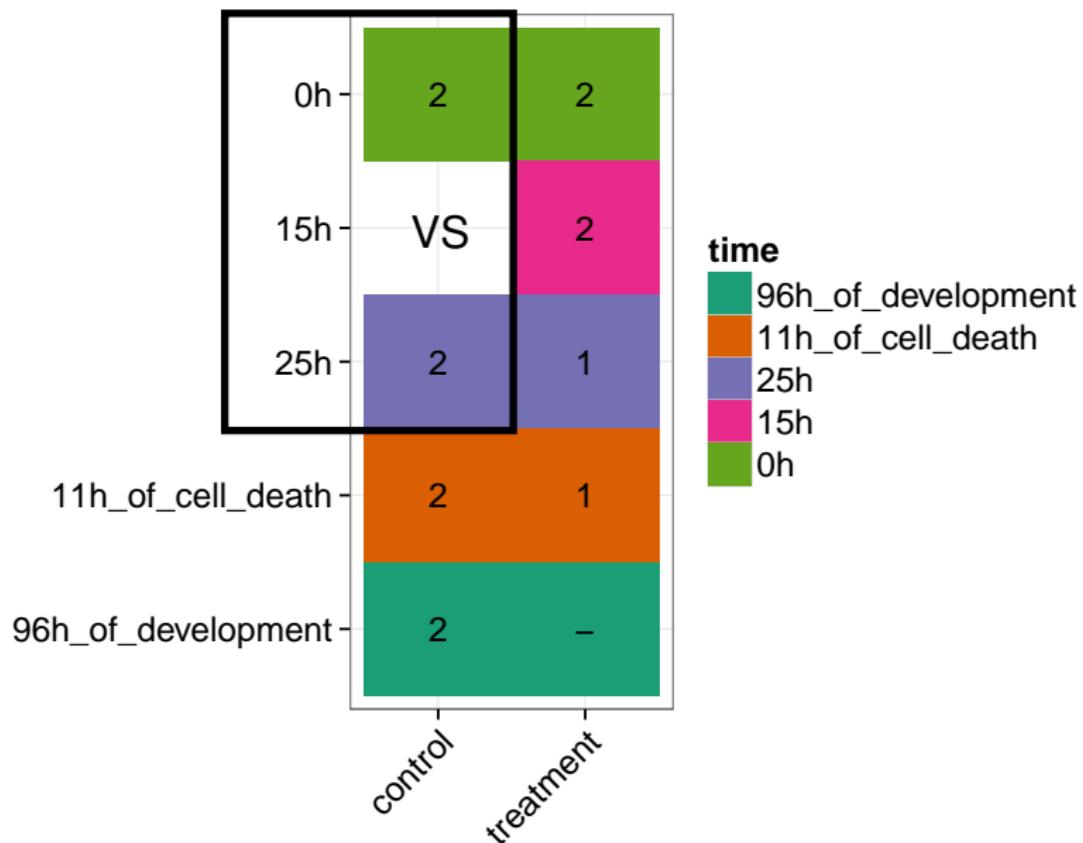
Controls

Treatment

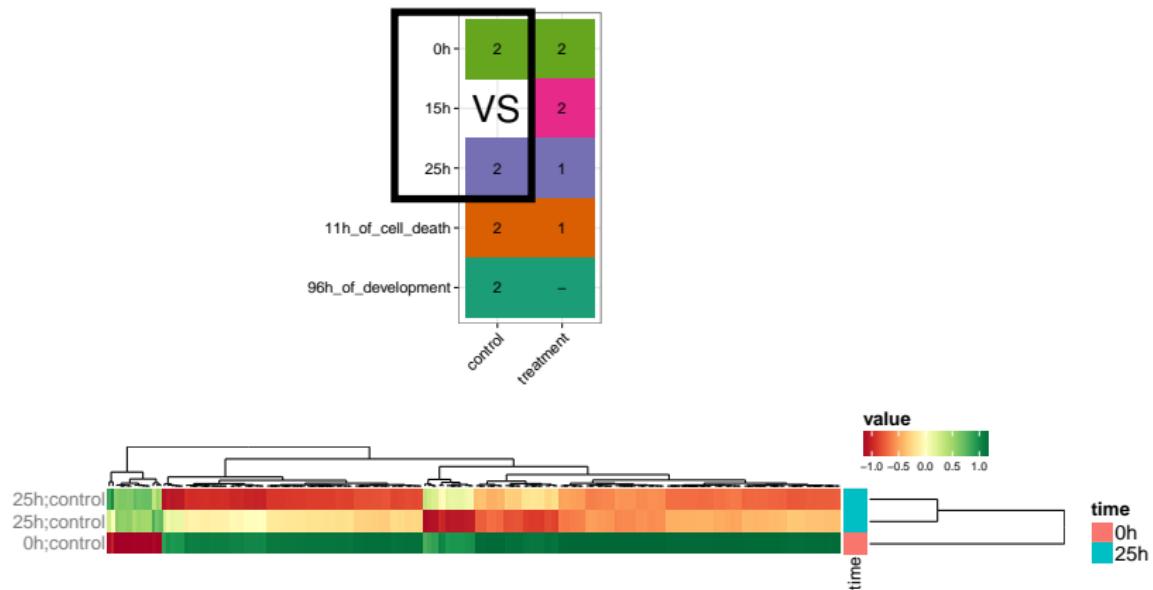
Control genes

ATACseq - mapping stats

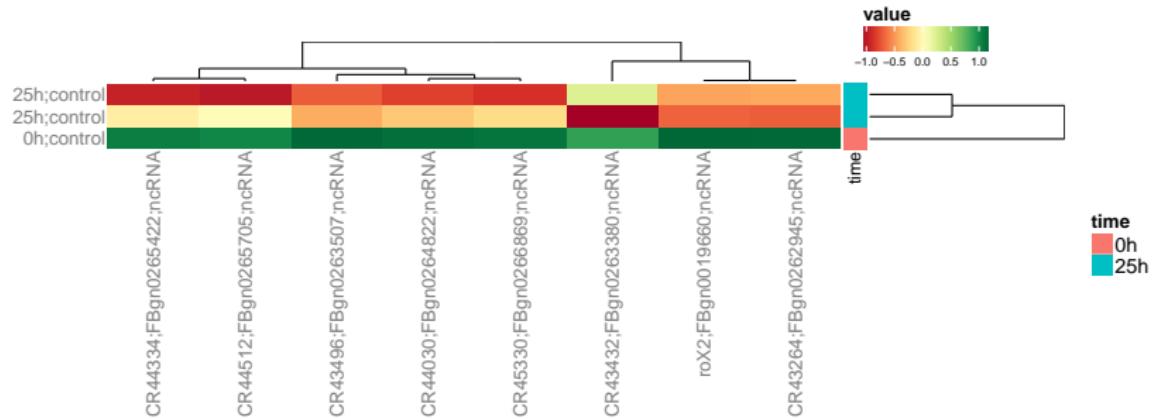
DEG - control samples along time



DEG - control 0h VS control 25h - 200 genes



DEG - control 0h VS control 25h - ncRNA



Outline

RNAseq samples

Control VS treatment

Control Samples along time

Treatment Samples along time

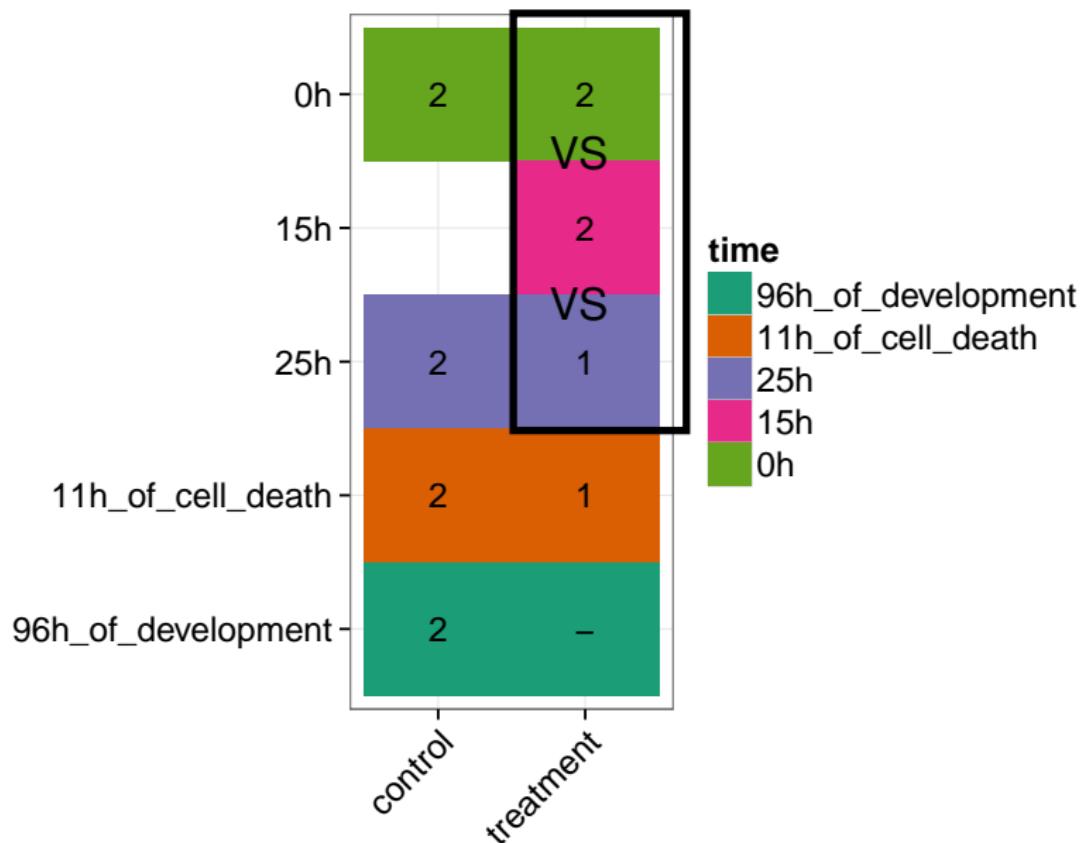
Controls

Treatment

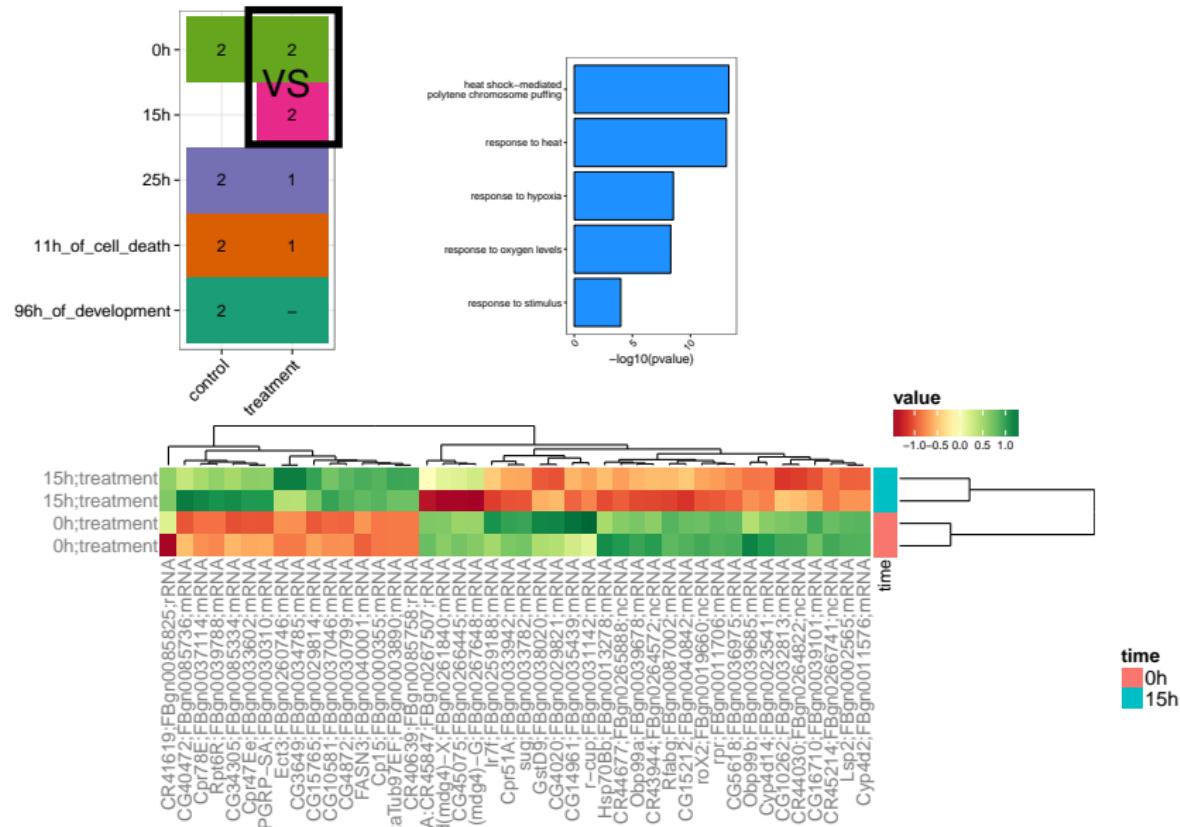
Control genes

ATACseq - mapping stats

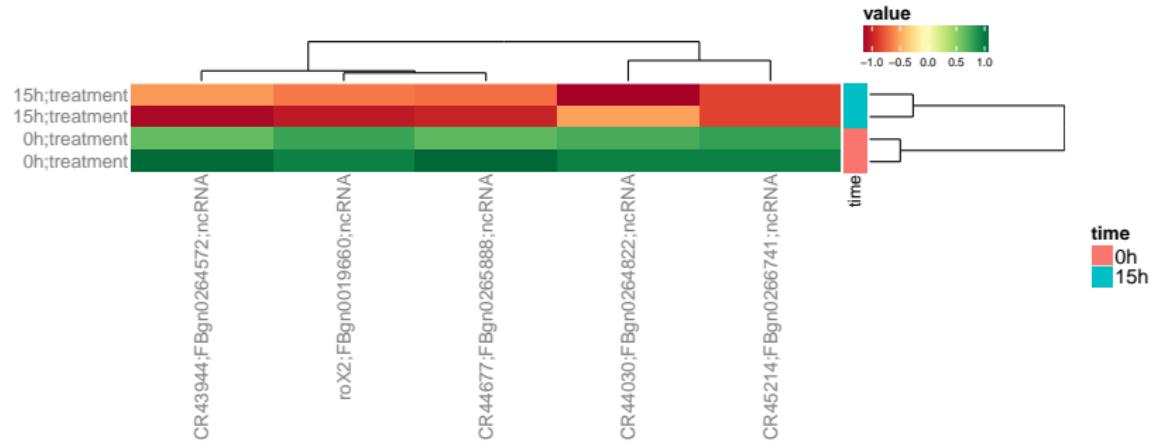
DEG - treatment samples along time



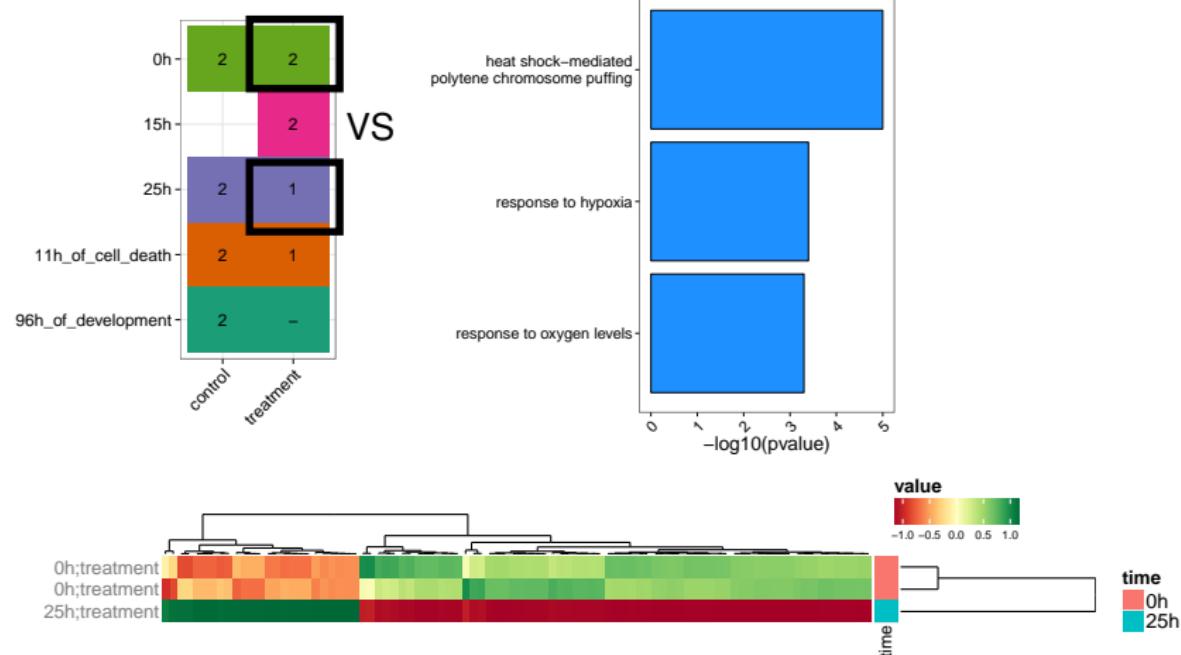
DEG - treatment 0h VS 15h - 44 genes



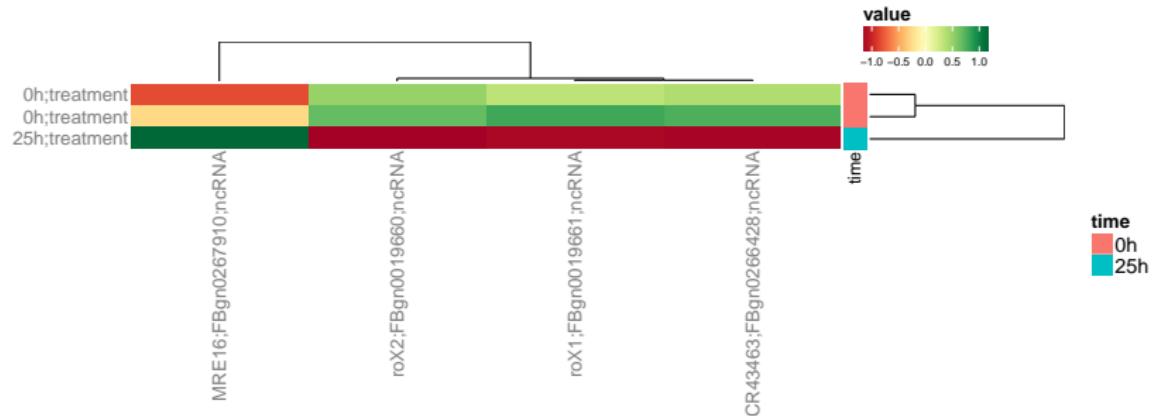
DEG - treatment **0h** VS **15h** - ncRNA



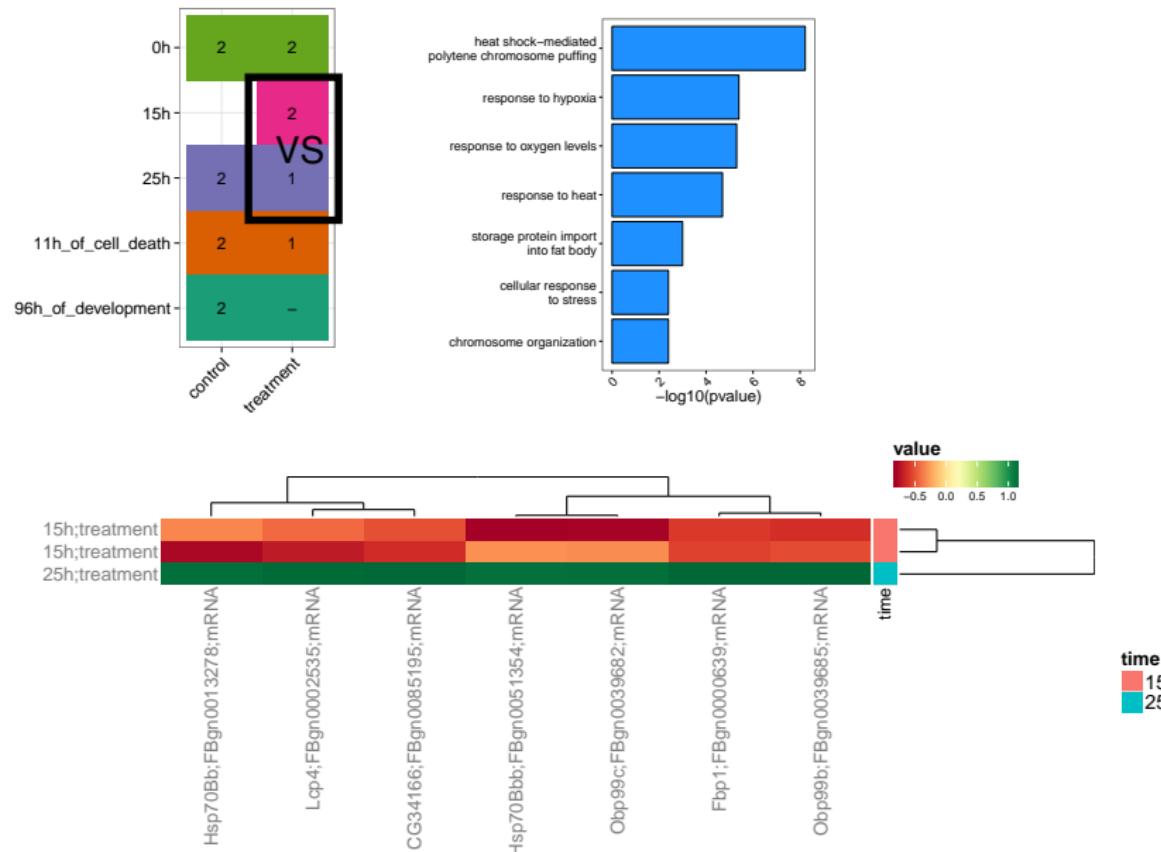
DEG - treatment **0h** VS **25h** - 90 genes



DEG - treatment **0h** VS **25h** - ncRNA



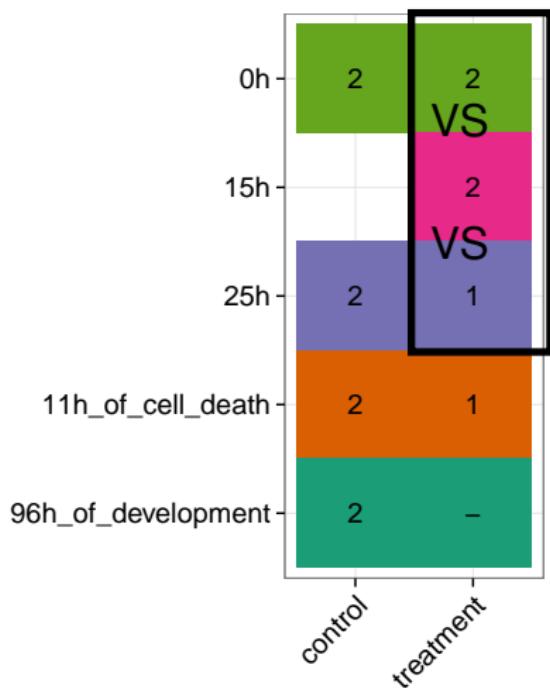
DEG - treatment 15h VS 25h - 7 genes



DEG - treatment **15h** VS **25h** - ncRNA

Not found

DEG - treatment samples along time



Outline

RNAseq samples

Control VS treatment

Control Samples along time

Treatment Samples along time

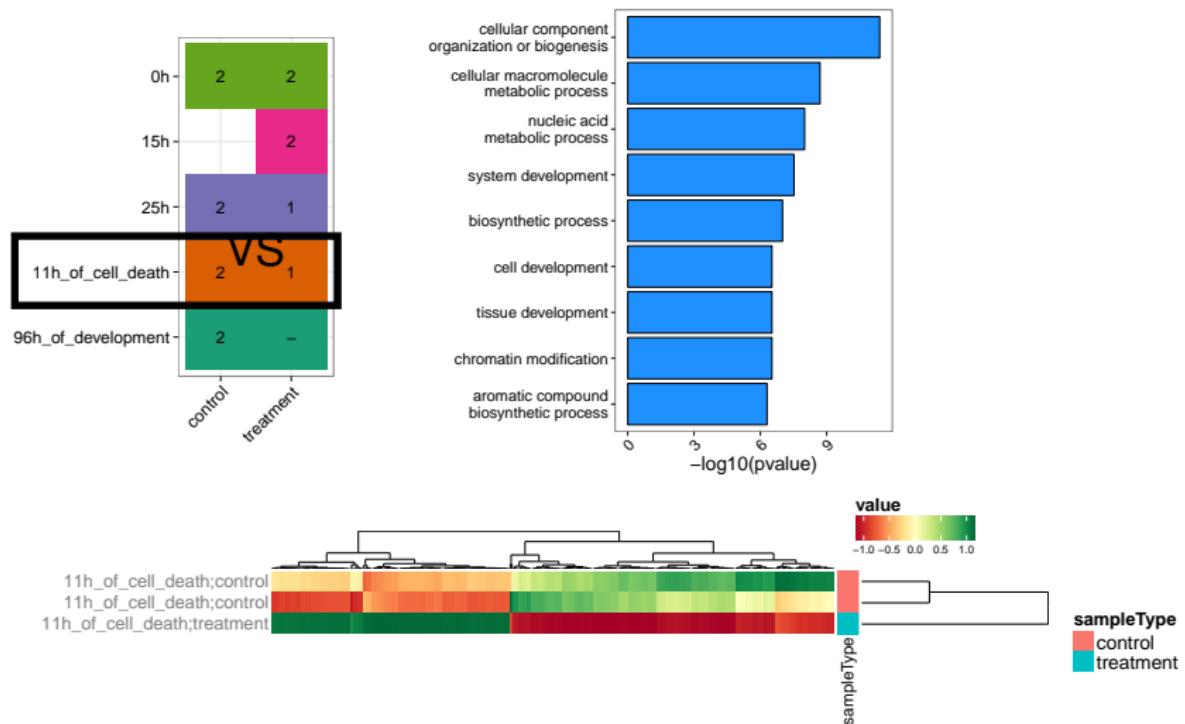
Controls

Treatment

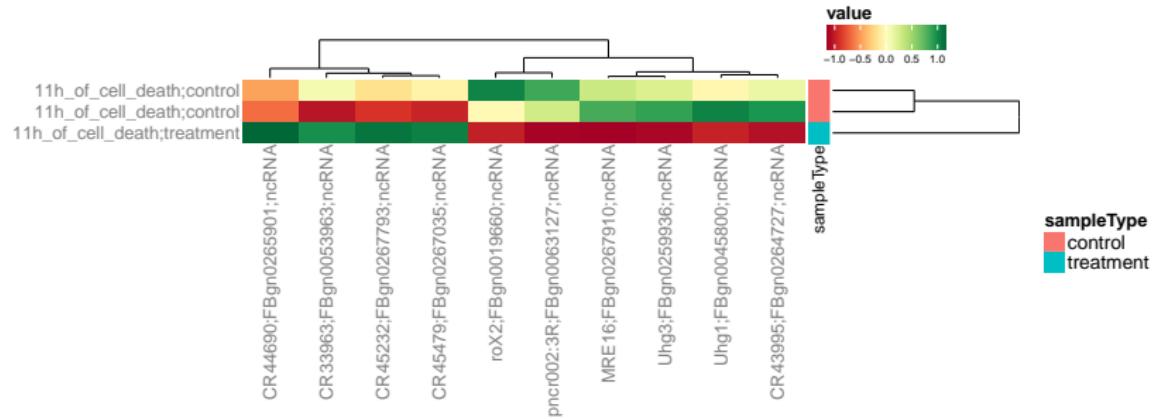
Control genes

ATACseq - mapping stats

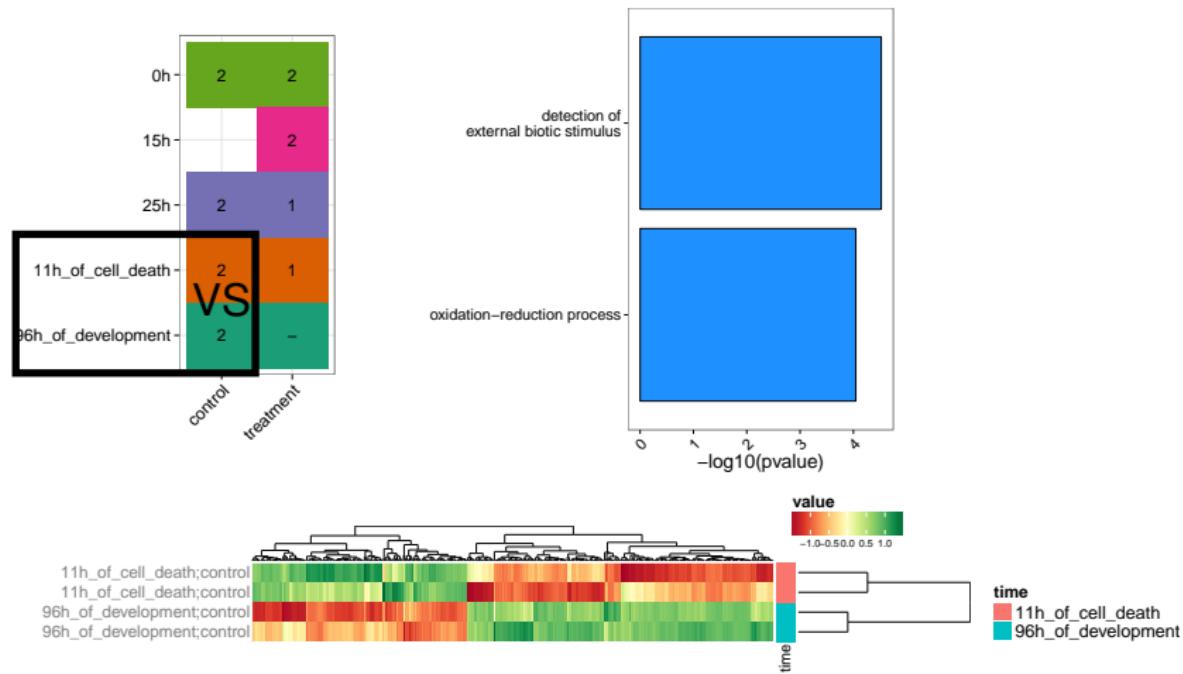
DEG - control VS treatment 11h of cell death - 463 genes



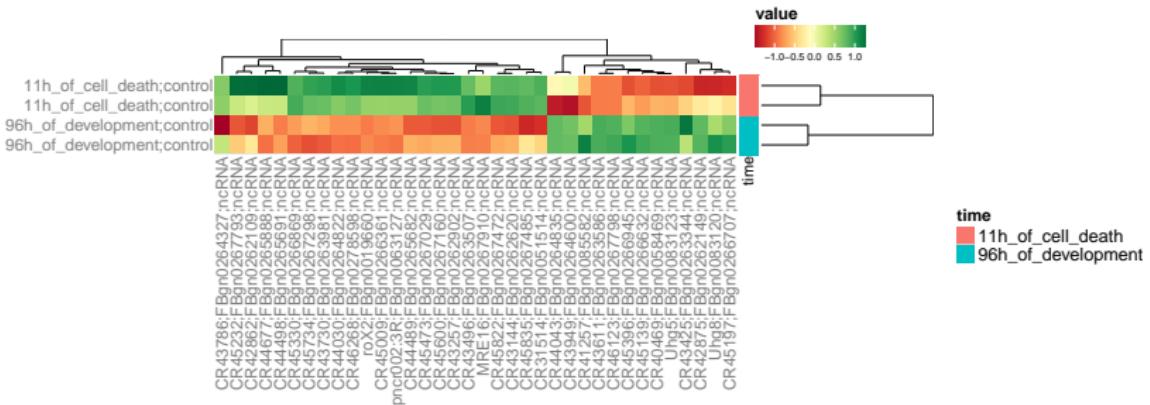
DEG - control VS treatment 11h of cell death - ncRNA



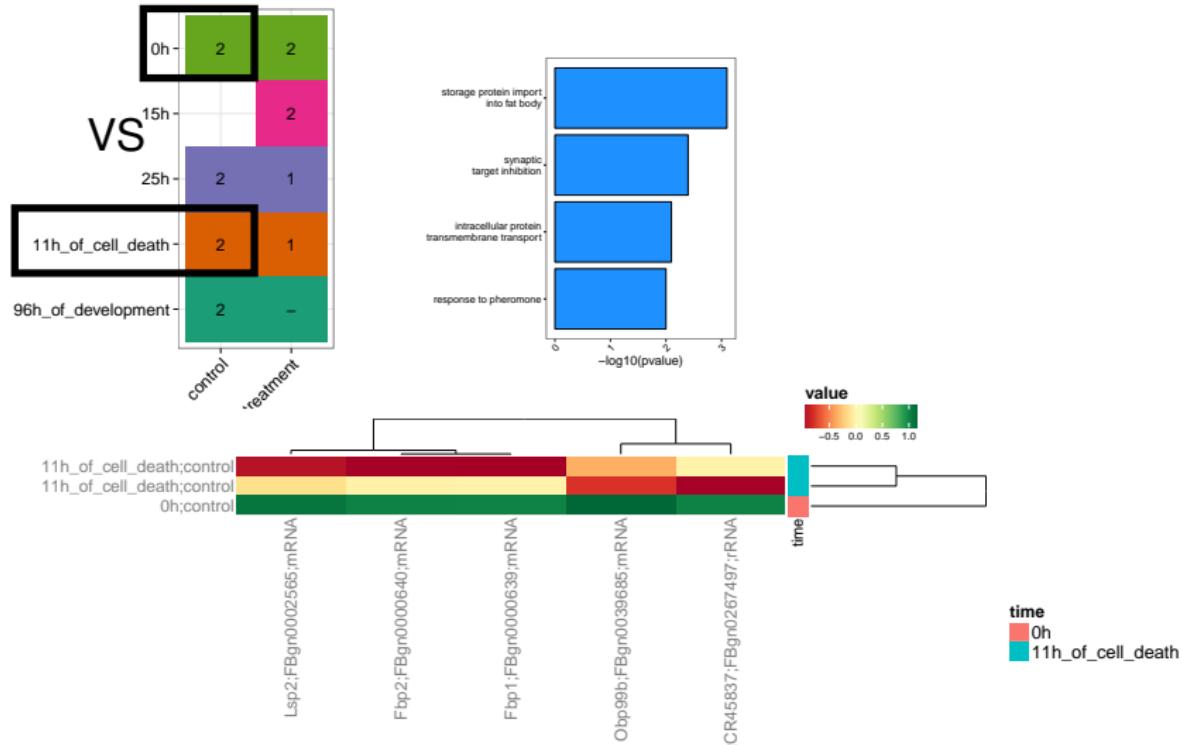
DEG - control 11h of cell death VS 96h of development
- 494 genes



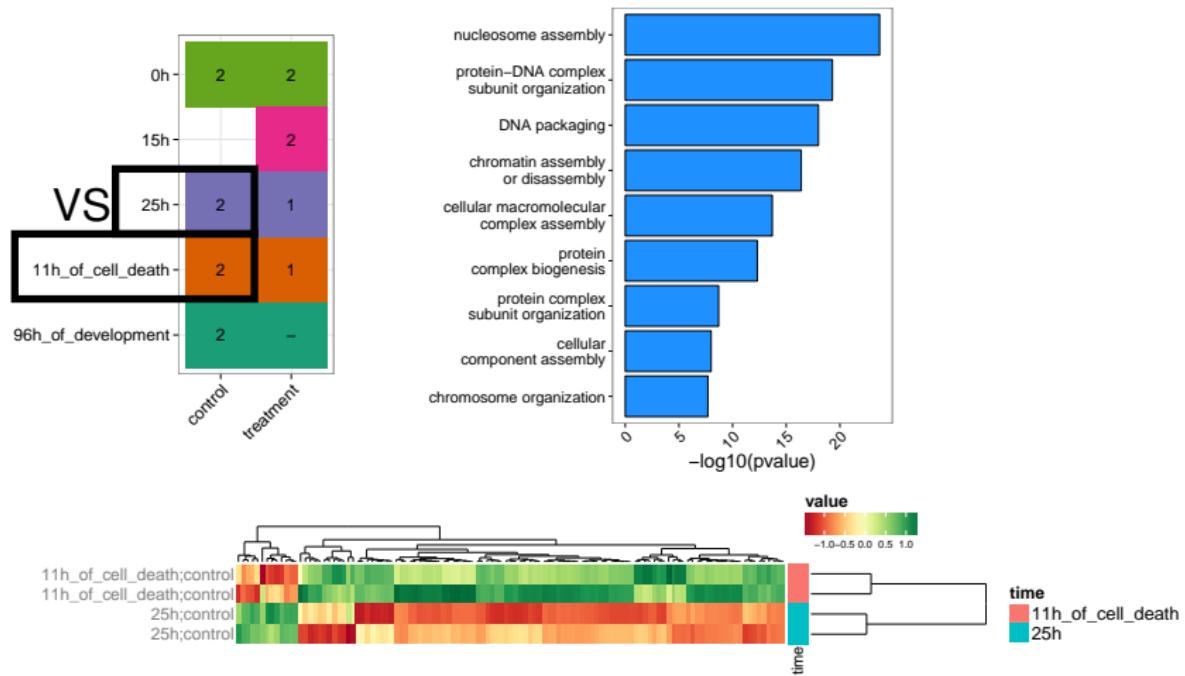
DEG - control 11h of cell death VS 96h of development - ncRNA



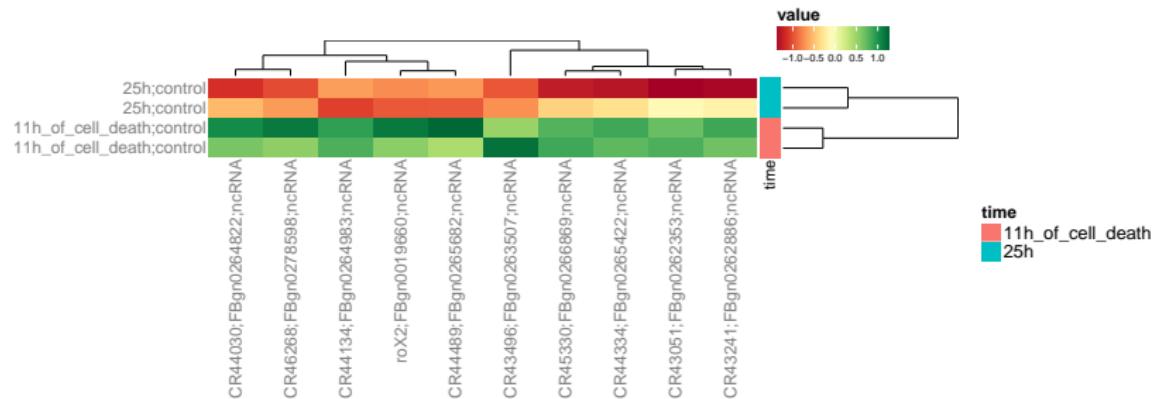
DEG - control 11h of cell death VS control 0h - 5 genes



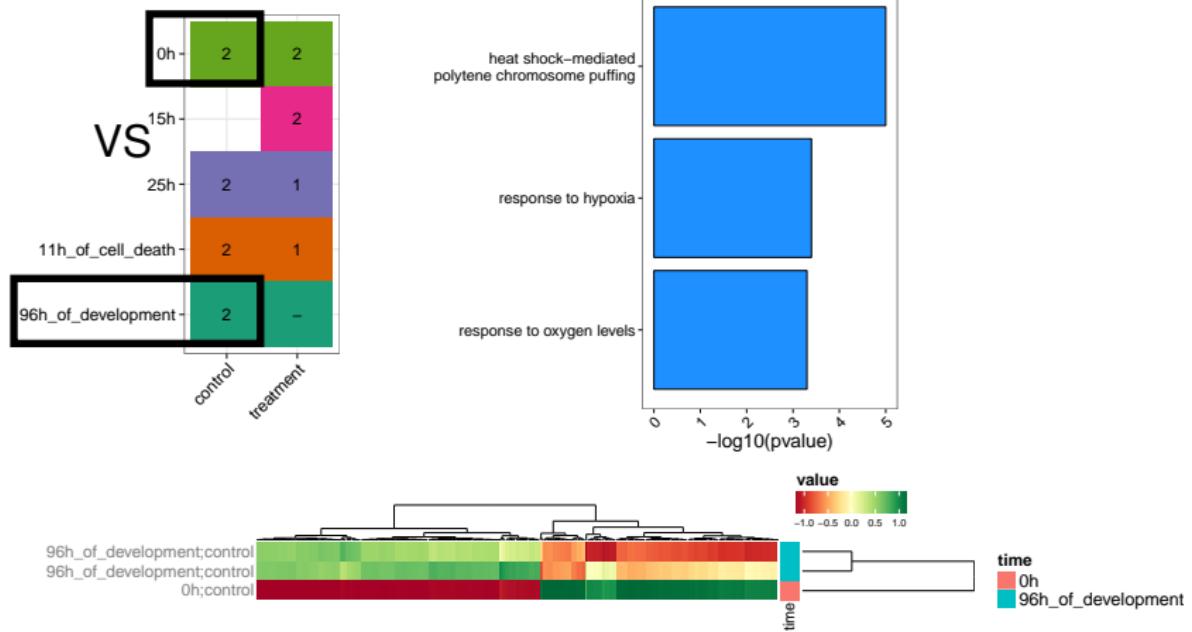
DEG - control 11h of cell death VS control 25h - 116 genes



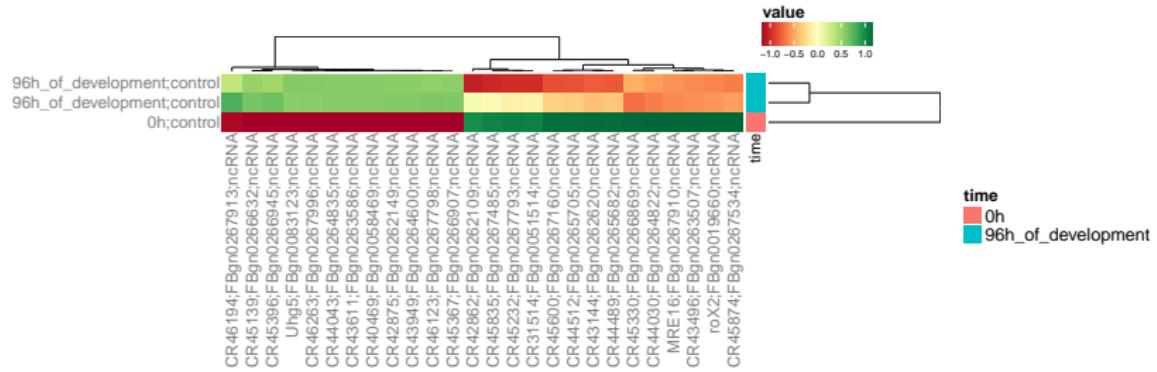
DEG - control 11h of cell death VS control 25h - ncRNA



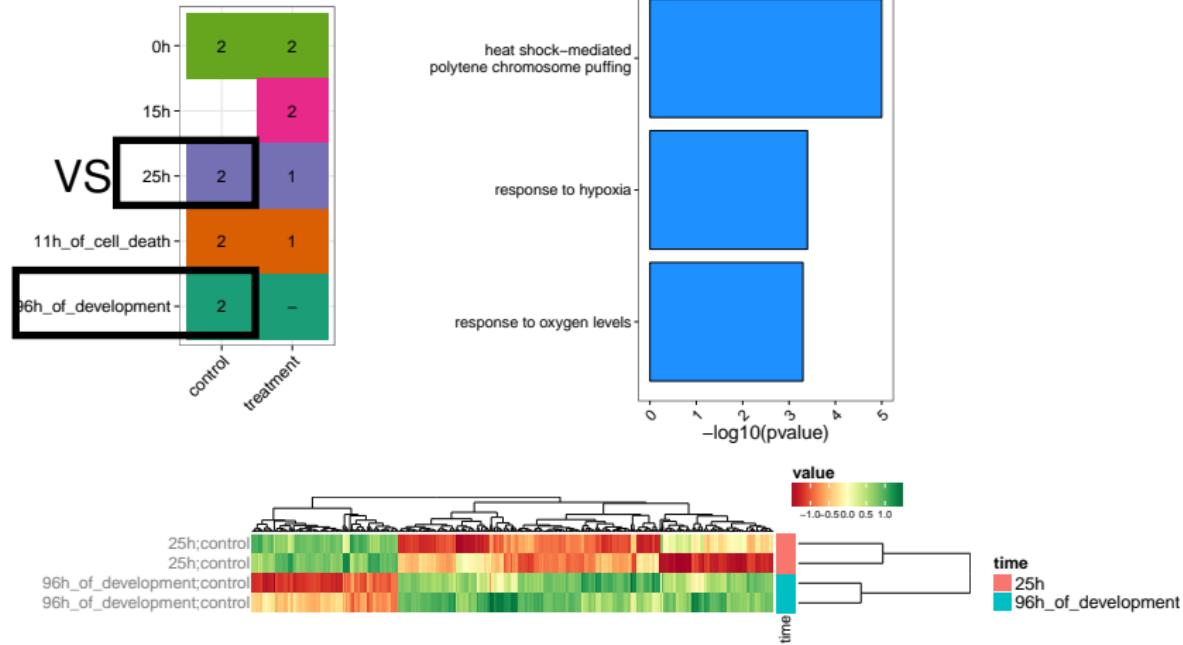
DEG - control 96h of development VS control 0h - 46 genes



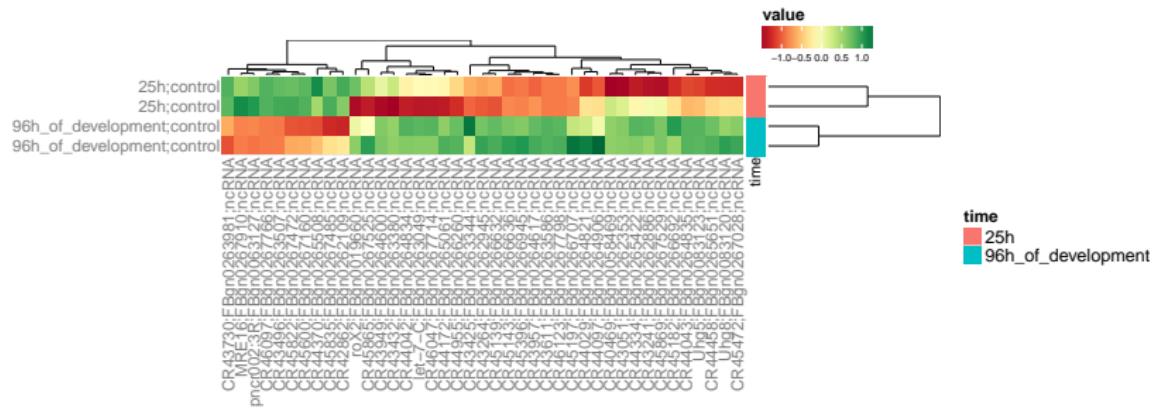
DEG - control 96h of development VS control 0h - 46 genes



DEG - control 96h of development VS control 25h - 501 genes



DEG - control 96h of development VS control 25h - 501 genes



Outline

RNAseq samples

Control VS treatment

Control Samples along time

Treatment Samples along time

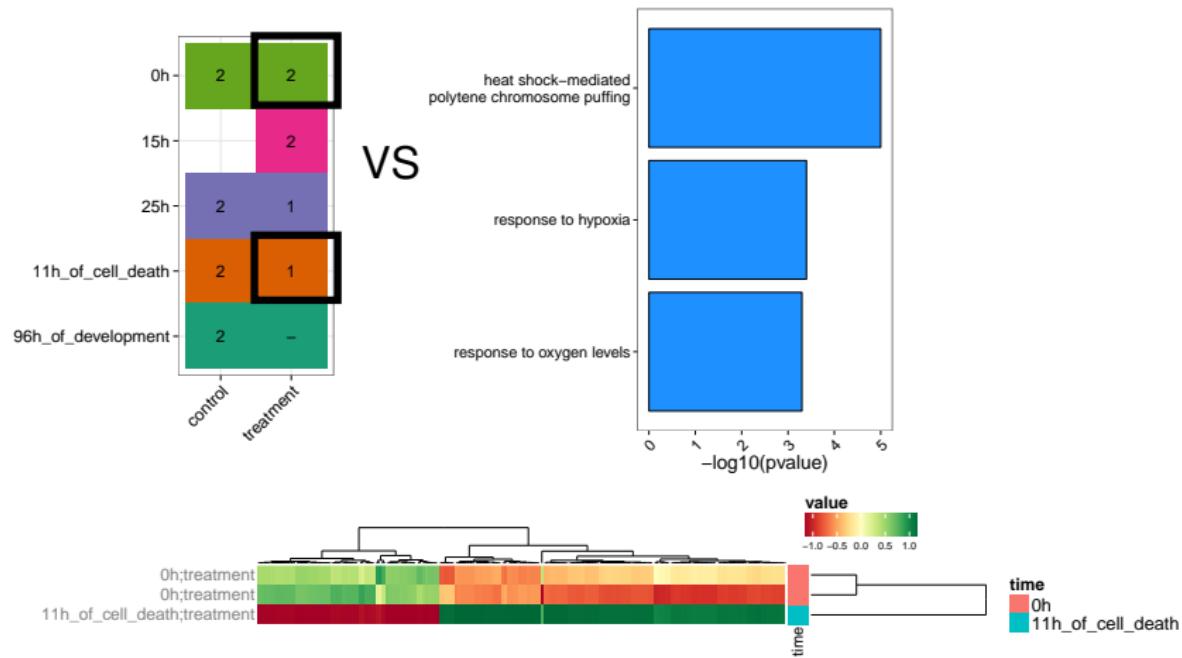
Controls

Treatment

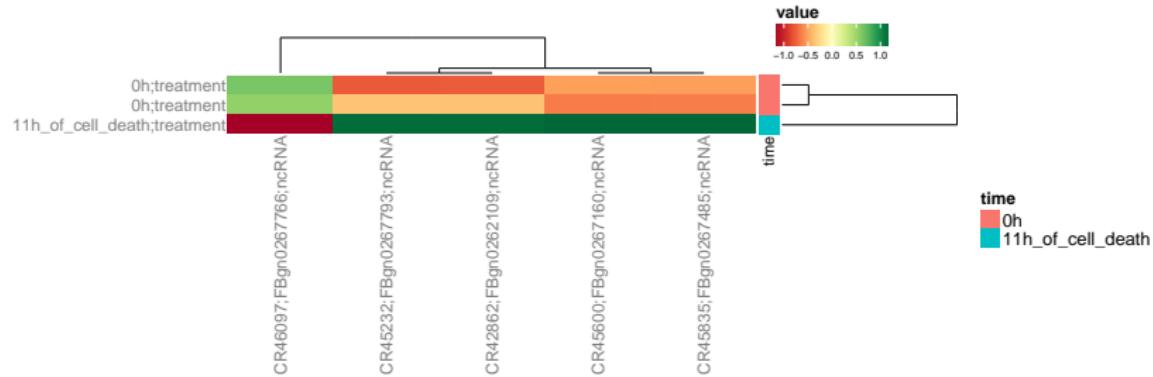
Control genes

ATACseq - mapping stats

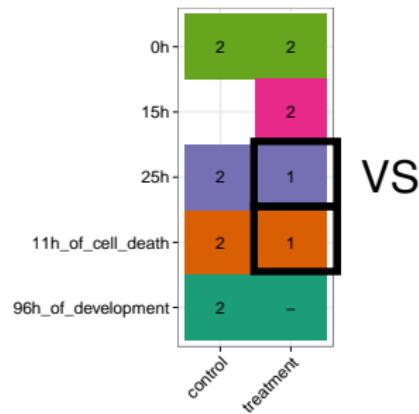
DEG - treatment 11h of cell death VS treatment 0h - 192 genes



DEG - treatment 11h of cell death VS treatment 0h - 192 genes



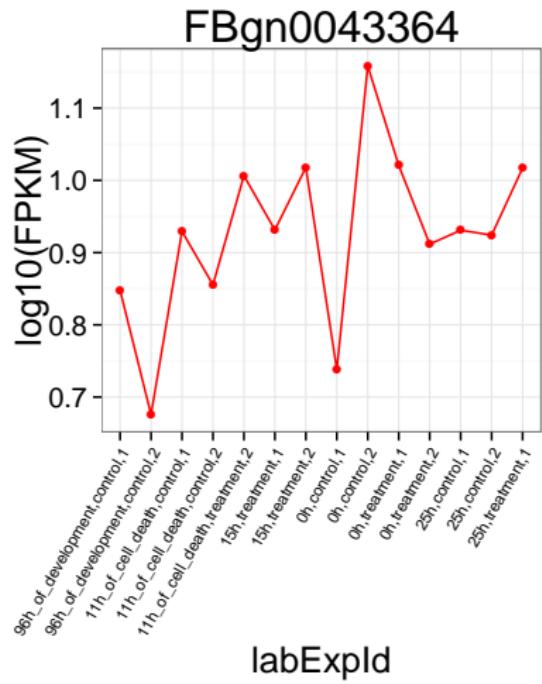
DEG - treatment **11h** of cell death VS treatment **25h**



VS

Not enough samples

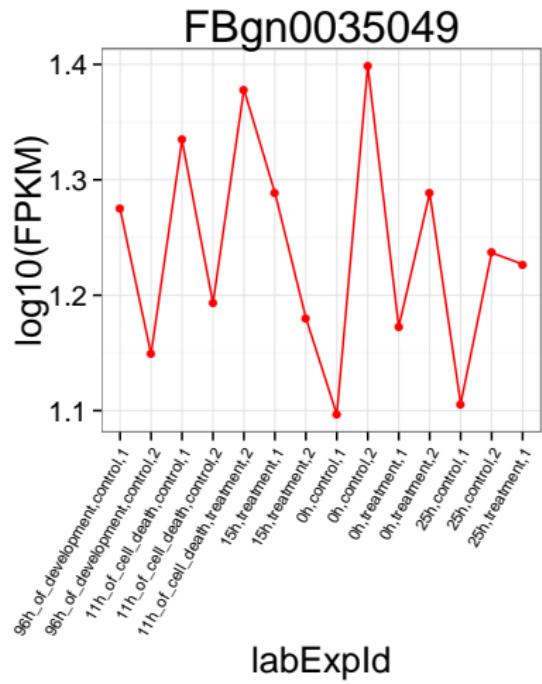
Control genes - differential expression analysis



Control genes - differential expression analysis

gene id	gene name	gene type	DEG	logFC	PValue	FDR
FBgn0043364	cbt	mRNA	control.fer.cdv	-0.33	1.8e-01	5.0e-01
FBgn0043364	cbt	mRNA	control.fer.ser	0.36	3.5e-01	1.0e+00
FBgn0043364	cbt	mRNA	control.fer.slr	-0.25	3.8e-01	9.3e-01
FBgn0043364	cbt	mRNA	control.ser.cdv	0.02	9.8e-01	1.0e+00
FBgn0043364	cbt	mRNA	control.ser.slr	0.11	8.0e-01	9.7e-01
FBgn0043364	cbt	mRNA	control.slr.cdv	-0.1	6.9e-01	8.5e-01
FBgn0043364	cbt	mRNA	fer	-0.08	8.3e-01	9.6e-01
FBgn0043364	cbt	mRNA	ser	0.28	5.8e-01	1.0e+00
FBgn0043364	cbt	mRNA	slr	0.19	5.8e-01	8.4e-01
FBgn0043364	cbt	mRNA	treatment.fer.flr	-0.24	6.6e-01	1.0e+00
FBgn0043364	cbt	mRNA	treatment.fer.ser	0.08	8.5e-01	9.9e-01
FBgn0043364	cbt	mRNA	treatment.flr.slr	0.21	7.0e-01	1.0e+00
FBgn0043364	cbt	mRNA	treatment.ser.flr	-0.16	7.2e-01	1.0e+00
FBgn0043364	cbt	mRNA	treatment.ser.slr	0.06	8.9e-01	1.0e+00

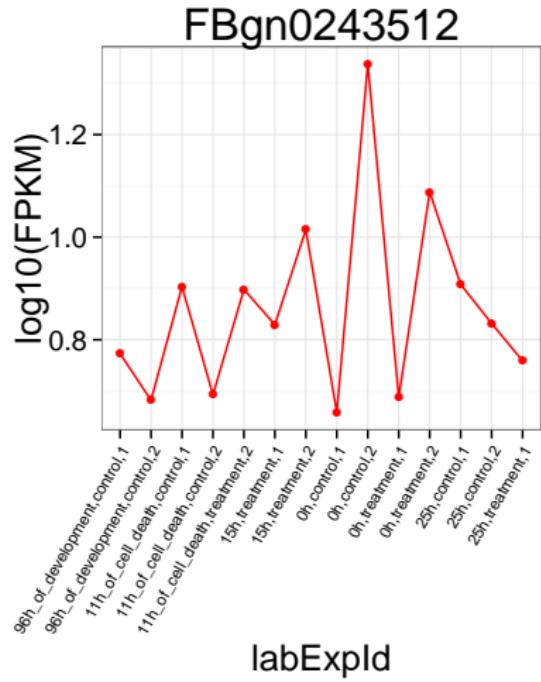
Control genes - differential expression analysis



Control genes - differential expression analysis

gene id	gene name	gene type	DEG	logFC	PValue	FDR
FBgn0035049	Mmp1	mRNA	control.fer.cdv	-0.1	6.2e-01	8.6e-01
FBgn0035049	Mmp1	mRNA	control.fer.ser	0.45	1.7e-01	1.0e+00
FBgn0035049	Mmp1	mRNA	control.fer.slr	-0.62	1.2e-02	1.9e-01
FBgn0035049	Mmp1	mRNA	control.ser.cdv	0.34	1.1e-01	3.8e-01
FBgn0035049	Mmp1	mRNA	control.ser.slr	-0.18	5.1e-01	8.8e-01
FBgn0035049	Mmp1	mRNA	control.slr.cdv	0.5	8.5e-03	5.6e-02
FBgn0035049	Mmp1	mRNA	fer	-0.1	7.4e-01	9.2e-01
FBgn0035049	Mmp1	mRNA	ser	0.03	9.5e-01	1.0e+00
FBgn0035049	Mmp1	mRNA	slr	0.1	6.8e-01	8.9e-01
FBgn0035049	Mmp1	mRNA	treatment.fer.flr	-0.49	4.0e-01	1.0e+00
FBgn0035049	Mmp1	mRNA	treatment.fer.ser	0.39	2.3e-01	6.5e-01
FBgn0035049	Mmp1	mRNA	treatment.flr.slr	0.02	9.4e-01	1.0e+00
FBgn0035049	Mmp1	mRNA	treatment.ser.flr	-0.09	8.2e-01	1.0e+00
FBgn0035049	Mmp1	mRNA	treatment.ser.slr	-0.07	8.7e-01	9.9e-01

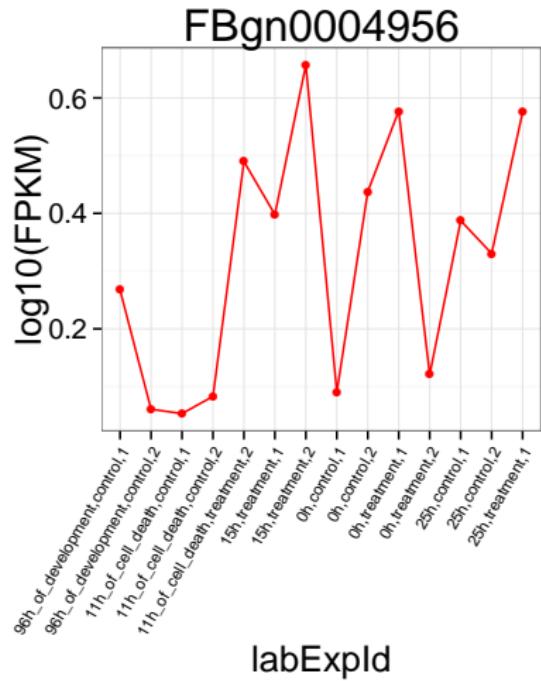
Control genes - differential expression analysis



Control genes - differential expression analysis

gene id	gene name	gene type	DEG	logFC	PValue	FDR
FBgn0243512	puc	mRNA	control.fer.cdv	-0.2	4.2e-01	7.4e-01
FBgn0243512	puc	mRNA	control.fer.ser	0.34	4.0e-01	1.0e+00
FBgn0243512	puc	mRNA	control.fer.slr	-0.13	6.6e-01	9.8e-01
FBgn0243512	puc	mRNA	control.ser.cdv	0.13	6.5e-01	8.7e-01
FBgn0243512	puc	mRNA	control.ser.slr	0.2	6.0e-01	9.1e-01
FBgn0243512	puc	mRNA	control.slr.cdv	-0.08	7.1e-01	8.6e-01
FBgn0243512	puc	mRNA	fer	-0.12	7.6e-01	9.3e-01
FBgn0243512	puc	mRNA	ser	0.45	4.2e-01	1.0e+00
FBgn0243512	puc	mRNA	slr	-0.55	1.4e-01	4.5e-01
FBgn0243512	puc	mRNA	treatment.fer.flr	-0.07	8.9e-01	1.0e+00
FBgn0243512	puc	mRNA	treatment.fer.ser	-0.15	8.0e-01	9.8e-01
FBgn0243512	puc	mRNA	treatment.flr.slr	-0.55	4.1e-01	1.0e+00
FBgn0243512	puc	mRNA	treatment.ser.flr	-0.22	6.5e-01	1.0e+00
FBgn0243512	puc	mRNA	treatment.ser.slr	-0.75	1.7e-01	6.8e-01

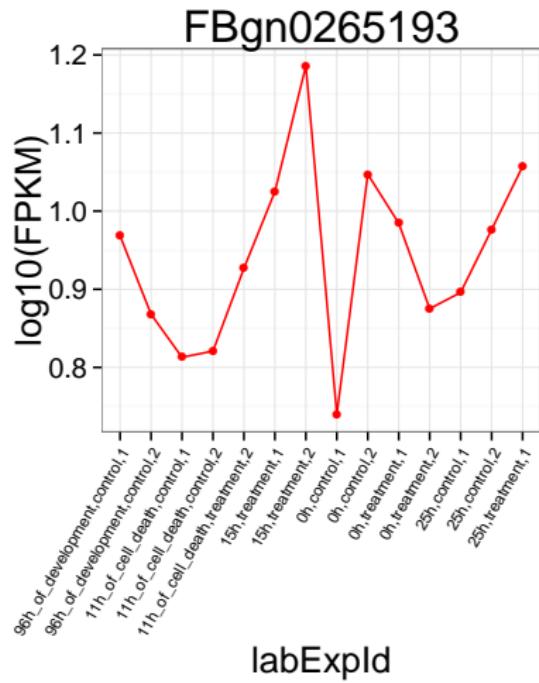
Control genes - differential expression analysis



Control genes - differential expression analysis

gene id	gene name	gene type	DEG	logFC	PValue	FDR
FBgn0004956	upd1	mRNA	control.fer.cdv	0.37	3.5e-01	6.7e-01
FBgn0004956	upd1	mRNA	control.fer.ser	-0.22	6.9e-01	1.0e+00
FBgn0004956	upd1	mRNA	control.fer.slr	0.6	2.0e-01	8.1e-01
FBgn0004956	upd1	mRNA	control.ser.cdv	0.14	8.1e-01	9.5e-01
FBgn0004956	upd1	mRNA	control.ser.slr	0.36	5.8e-01	9.0e-01
FBgn0004956	upd1	mRNA	control.slr.cdv	-0.23	5.4e-01	7.5e-01
FBgn0004956	upd1	mRNA	fer	0.85	1.0e-01	3.3e-01
FBgn0004956	upd1	mRNA	ser	0.57	5.3e-01	1.0e+00
FBgn0004956	upd1	mRNA	slr	0.64	2.3e-01	5.7e-01
FBgn0004956	upd1	mRNA	treatment.fer.flr	0.13	9.2e-01	1.0e+00
FBgn0004956	upd1	mRNA	treatment.fer.ser	0.13	8.4e-01	9.9e-01
FBgn0004956	upd1	mRNA	treatment.flr.slr	0.2	7.5e-01	1.0e+00
FBgn0004956	upd1	mRNA	treatment.ser.flr	0.25	7.0e-01	1.0e+00
FBgn0004956	upd1	mRNA	treatment.ser.slr	0.46	5.2e-01	9.0e-01

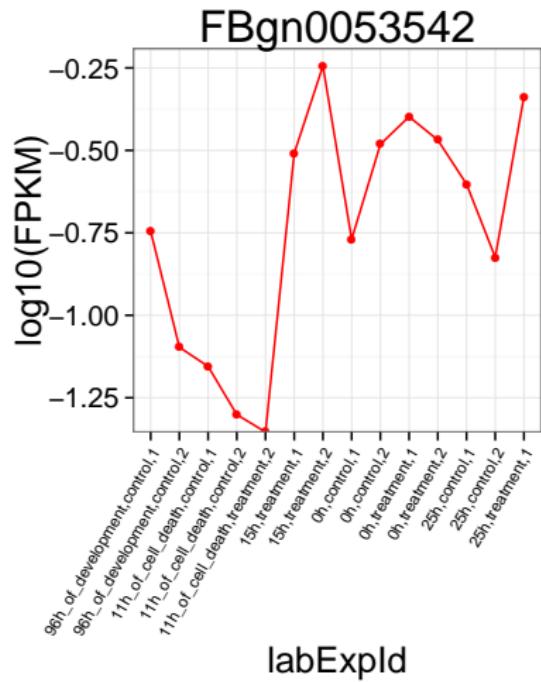
Control genes - differential expression analysis



Control genes - differential expression analysis

gene id	gene name	gene type	DEG	logFC	PValue	FDR
FBgn0265193	Atf-2	mRNA	control.fer.cdv	0.45	1.0e-01	3.7e-01
FBgn0265193	Atf-2	mRNA	control.fer.ser	0.07	9.3e-01	1.0e+00
FBgn0265193	Atf-2	mRNA	control.fer.slr	0.06	8.9e-01	1.0e+00
FBgn0265193	Atf-2	mRNA	control.ser.cdv	0.51	1.2e-01	3.9e-01
FBgn0265193	Atf-2	mRNA	control.ser.slr	0.12	8.7e-01	9.9e-01
FBgn0265193	Atf-2	mRNA	control.slr.cdv	0.38	1.6e-01	3.8e-01
FBgn0265193	Atf-2	mRNA	fer	-0.12	8.4e-01	9.6e-01
FBgn0265193	Atf-2	mRNA	ser	0.16	8.2e-01	1.0e+00
FBgn0265193	Atf-2	mRNA	slr	0.34	4.3e-01	7.5e-01
FBgn0265193	Atf-2	mRNA	treatment.fer.flr	0.53	4.6e-01	1.0e+00
FBgn0265193	Atf-2	mRNA	treatment.fer.ser	-0.14	8.5e-01	9.9e-01
FBgn0265193	Atf-2	mRNA	treatment.flr.slr	-0.06	9.8e-01	1.0e+00
FBgn0265193	Atf-2	mRNA	treatment.ser.flr	0.39	4.2e-01	1.0e+00
FBgn0265193	Atf-2	mRNA	treatment.ser.slr	0.33	5.3e-01	9.1e-01

Control genes - differential expression analysis



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RNAseq samples

Control VS treatment

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Treatment

Control genes

ATACseq - mapping stats

id	reads	Uniquely mapped reads	% Uniquely mapped reads	mapped multiple loci	% mapped multiple loci	unmapped too short
eye1	38,164,421	25,859,480	67.76%	1,086,242	2.85%	26.11%
eye2	39,553,256	33,523,739	84.76%	1,422,159	3.60%	7.81%
ctrl-96h-1	31,165,523	23,912,148	76.73%	790,514	2.54%	18.22%
ctrl-96h-2	42,554,815	33,301,213	78.25%	1,940,209	4.56%	13.04%
11h-0h-ctrl-1	42,755,866	33,232,371	77.73%	996,926	2.33%	17.32%
11h-0h-ctrl-2	40,629,916	30,849,827	75.93%	1,318,698	3.25%	17.48%
11h-0h-1	37,206,314	23,521,988	63.22%	2,055,780	5.53%	26.39%
11h-0h-2	39,172,203	28,179,076	71.94%	1,530,227	3.91%	20.77%
16h-0h-ctrl-1	27,229,630	23,345,989	85.74%	924,314	3.39%	7.59%
16h-0h-ctrl-2	31,163,300	24,285,870	77.93%	887,087	2.85%	16.46%
16h-0h-1	33,530,934	25,385,401	75.71%	985,095	2.94%	18.69%
16h-0h-2	39,498,659	26,695,941	67.59%	959,131	2.43%	27.88%
16h-15h-ctrl-1	33,805,236	19,462,562	57.57%	1,109,199	3.28%	35.99%
16h-15h-ctrl-2	35,428,731	25,439,143	71.80%	1,383,546	3.91%	20.37%
16h-15h-1	34,716,712	28,706,599	82.69%	1,433,437	4.13%	9.57%
16h-15h-2	30,936,937	22,732,653	73.48%	952,562	3.08%	20.47%
16h-25h-ctrl-1	36,511,208	29,609,781	81.10%	1,102,594	3.02%	12.67%
16h-25h-ctrl-2	39,248,886	30,389,394	77.43%	929,551	2.37%	17.50%
16h-25h-1	32,414,365	23,552,045	72.66%	1,348,374	4.16%	19.53%
16h-25h-2	36,262,439	26,846,043	74.03%	1,172,847	3.23%	19.68%
wing Marina	97,722,180	83,644,595	85.59%	2,877,021	2.94%	8.20%
Aerts et al 2015	16,077,656	14,138,498	87.94%	537,516	3.34%	4.21%

Number of peaks called

id	extsize	number of peaks
eye1	50	C8D2LACXX-6-N701-N502-NX-peak-26165
11h-0h-ctrl-2	50	C8D2LACXX-6-N701-N517-NX-peak-28151
eye2	50	C8D2LACXX-8-N701-N503-NX-peak-27501
ctrl-96h-1	50	C8D2LACXX-8-N706-N504-NX-peak-30739
ctrl-96h-2	50	C8D7CACXX-4-N705-N503-NX-peak-30947
11h-0h-ctrl-1	50	C8D7CACXX-4-N706-N503-NX-peak-29791
wing Marina	25	FCC6YA8ACXX-L6-CHKPEI15020080-peak-39309
Aerts et al 2015	25	SRR1506107-peak-34541
	100	SRR1506107-peak-25086

Number of peaks called

chr	id	number of peaks
chr2L	eye1	4595
chr2L	11h-0h-ctrl-2	4912
chr2L	eye2	4883
chr2L	ctrl-96h-1	5392
chr2L	ctrl-96h-2	5176
chr2L	11h-0h-ctrl-1	5269
chr2R	eye1	4888
chr2R	11h-0h-ctrl-2	5305
chr2R	eye2	5152
chr2R	ctrl-96h-1	5728
chr2R	ctrl-96h-2	5653
chr2R	11h-0h-ctrl-1	5696
chr3L	eye1	5276
chr3L	11h-0h-ctrl-2	5746
chr3L	eye2	5586
chr3L	ctrl-96h-1	6252
chr3L	ctrl-96h-2	6111
chr3L	11h-0h-ctrl-1	6145
chr3R	eye1	5717
chr3R	11h-0h-ctrl-2	6389
chr3R	eye2	6173
chr3R	ctrl-96h-1	6939
chr3R	ctrl-96h-2	6823
chr3R	11h-0h-ctrl-1	6861

chr	id	number of peaks
chr4	eye1	446
chr4	11h-0h-ctrl-2	299
chr4	eye2	349
chr4	ctrl-96h-1	279
chr4	ctrl-96h-2	293
chr4	11h-0h-ctrl-1	338
chrM	eye1	13
chrM	11h-0h-ctrl-2	10
chrM	eye2	13
chrM	ctrl-96h-1	13
chrM	ctrl-96h-2	9
chrM	11h-0h-ctrl-1	9