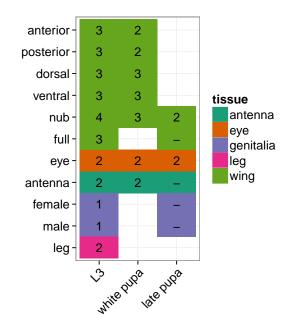
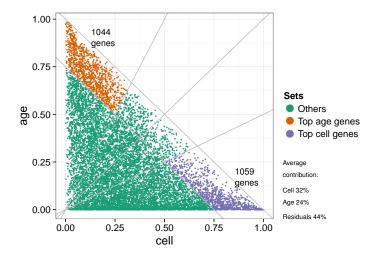
Overview of processed RNA-seq samples

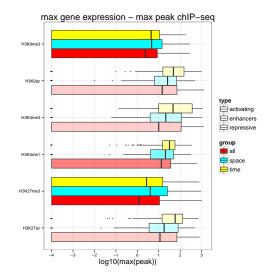


Decomposing the variation of gene expression across time and space



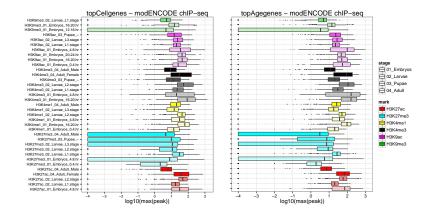
The highest peak (measured as the log10 of the signal profiles reported by

modENCODE) within the gene body at the time point which the expression is maximum

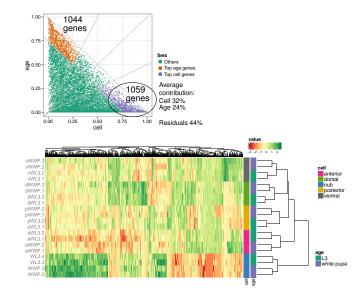


The highest peak (measured as the log10 of the signal profiles reported by

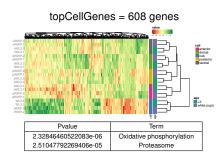
modENCODE) within the gene body



Gene sets with high variation across space

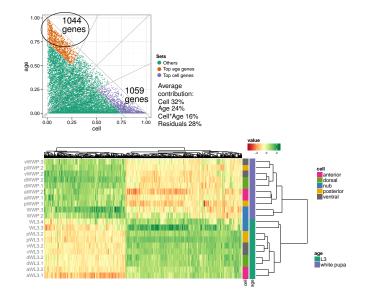


Decomposing the variation of gene expression across space



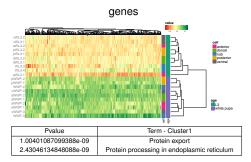
Pvalue	Term
1e-11	morphogenesis of an epithelium
7e-10	digestive system development
2e-09	appendage morphogenesis
5e-09	imaginal disc-derived appendage development
8e-09	post-embryonic organ development
2e-08	antennal development
2e-08	instar larval or pupal development
4e-08	renal system development
4e-08	tube morphogenesis
Pvalue	Term
5e-07	respiratory chain
8e-07	proteasome complex
2e-06	mitochondrial respiratory chain complex I
2e-06	NADH dehydrogenase complex
7e-06	mitochondrial inner membrane
3e-05	proteasome core complex, alpha-subunit complex
Pvalue	Term
2e-11	sequence-specific DNA binding transcription fac-
	tor activity
1e-07	oxidoreductase activity
4e-06	threonine-type endopeptidase activity
6e-06	sequence-specific DNA binding
7e-06	glutathione transferase activity
1e-05	RNA polymerase II distal enhancer sequence-
	specific DNA binding transcription factor activity
1e-05	NADH dehydrogenase activity
10-05	NADH denydrogenase activity

Gene sets with high variation across time



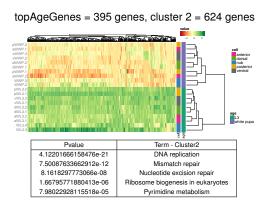
Variance decomposition

topAgeGenes = 395 genes, cluster 1 = 435



Pvalue	Term - Cluster1
1e-11	morphogenesis of an epithelium
7e-10	digestive system development
2e-09	appendage morphogenesis
5e-09	imaginal disc-derived appendage develop- ment
8e-09	post-embryonic organ development
2e-08	antennal development
2e-08	instar larval or pupal development
4e-08	renal system development
4e-08	tube morphogenesis
Pvalue	Term - Cluster1
5e-07	respiratory chain
8e-07	proteasome complex
2e-06	mitochondrial respiratory chain complex I
2e-06	NADH dehydrogenase complex
7e-06	mitochondrial inner membrane
3e-05	proteasome core complex, alpha-subunit complex
Pvalue	Term - Cluster1
2e-11	sequence-specific DNA binding transcription factor activity
1e-07	oxidoreductase activity
4e-06	threonine-type endopeptidase activity
6e-06	sequence-specific DNA binding
7e-06	glutathione transferase activity
1e-05	RNA polymerase II distal enhancer
	sequence-specific DNA binding transcription factor activity
1e-05	NADH dehydrogenase activity

Variance decomposition



	T. 01 + 0
Pvalue	Term - Cluster2
1e-11	morphogenesis of an epithelium
7e-10	digestive system development
2e-09	appendage morphogenesis
5e-09	imaginal disc-derived appendage devel-
	opment
8e-09	post-embryonic organ development
2e-08	antennal development
2e-08	instar larval or pupal development
4e-08	renal system development
4e-08	tube morphogenesis
Pvalue	Term - Cluster2
5e-07	respiratory chain
8e-07	proteasome complex
2e-06	mitochondrial respiratory chain complex
	1
2e-06	NADH dehydrogenase complex
7e-06	mitochondrial inner membrane
3e-05	proteasome core complex, alpha-
	subunit complex
Pvalue	Term - Cluster2
2e-11	sequence-specific DNA binding tran-
	scription factor activity
1e-07	oxidoreductase activity
4e-06	threonine-type endopeptidase activity
6e-06	sequence-specific DNA binding
7e-06	glutathione transferase activity
1e-05	RNA polymerase II distal enhancer
	sequence-specific DNA binding tran-
	scription factor activity
1e-05	NADH dehydrogenase activity