## visual behavior regulation of JNK cascade \* \* pupariation \* gene silencing by miRNA salivary gland development · \* \* microtubule-based process \* \* positive regulation of transcription initiation from RNA polymerase II promoter olfactory behavior positive regulation of actin filament polymerization \* \* short-term memory \* \* photoreceptor cell maintenance \* \* spermatid development regulation of protein stability \* positive regulation of RNA export from nucleus \* \* oocyte microtubule cytoskeleton polarization plasma membrane to endosome transport \* regulation of circadian rhythm \* locomotor rhythm neurotransmitter secretion \* \* protein processing developmental pigmentation regulation of protein localization nuclear migration \* protein refolding \* \* establishment or maintenance of apical/basal cell polarity mitochondrial cytochrome c oxidase assembly protein ubiquitination \* \* \* cellularization oogenesis \* \* \* ubiquitin-dependent protein catabolic process mitotic DNA replication checkpoint peptidyl-threonine phosphorylation \* rRNA catabolic process

actomyosin structure organization

## A. Caste-specific DNA methylation B. Caste-specific gene expression

		_		Laborated sympatic transmission
*	*	*	*	chemical synaptic transmission
*	*	*		learning or memory
**	*			- axon guidance
*				intracellular signal transduction
*			*	compound eye development
	*			regulation of Toll signaling pathway
**			**	- cytoplasmic translation
	*			central nervous system formation
*			*	ubiquitin-dependent protein catabolic process
	*		*	negative regulation of glial cell proliferation
**		*	*	- translation
			*	mitotic cytokinesis
			*	- chromatin remodeling
			*	- chromatin organization
			*	histone acetylation
			*	protein sumoylation
	*	*	**	intracellular protein transport
			**	microtubule-based movement
	*		*	protein deubiquitination
	*		*	syncytial blastoderm mitotic cell cycle
		*	*	regulation of alternative mRNA splicing, via spliceosome
	*	*	*	mitochondrion morphogenesis
	*	*	*	- centrosome cycle
	*	*	**	protein import into nucleus
	*	*	*	protein folding
			**	mitotic sister chromatid segregation
	*	*		transcription by RNA polymerase II
		*	*	pre-replicative complex assembly involved in nuclear cell cycle DNA replication
	*	*	*	cellular response to DNA damage stimulus
	*	*	*	eggshell chorion gene amplification
	*	**	**	mitotic cell cycle
	*	*	*	transcription initiation from RNA polymerase II promoter
*	*	*	*	double-strand break repair via break-induced replication
	*	*	*	chromosome condensation
*	*	*	*	ribosome biogenesis
*	*	*	*	ribosomal small subunit biogenesis
	*	*	*	mRNA export from nucleus
*		*	*	tRNA processing
*	*	*		ribosomal large subunit assembly
*	*	*	*	maturation of SSU-rRNA from tricistronic rRNA transcript
	*	**	*	(SSU-rRNA, 5.8S rRNA, LSU-rRNA) translational initiation
**	*	**	**	mRNA splicing, via spliceosome
*		*	**	double-strand break repair via homologous recombination
*	*	*	*	- chromosome organization
	*	**	*	- DNA replication initiation
*	*	**	**	- DNA repair
*	*	*	*	- DNA-dependent DNA replication
**	*	**		- mitochondrial translation
*	*	**	*	- DNA replication
**	**	**	**	rRNA processing
	-	<del> </del>	<u> </u>	The vir processing
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Hours post-grafting

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Hours post-grafting