## TreeMap\_Enrichm\_DGEs\_ONUN\_Oxygen\_VL\_exp\_node65\_BP

chitin-based larval cuticle pattern formation	gonad development	imaginal disc-derived wing morphogenesis	regulation of mesodermal cell fate specification	regulation of vulval	nematode larval development	canonical Wr signaling pathway	regulatior protein-cc recept signali pathw	<sub>oupled</sub> regulat or of <sup>ng</sup> GTPas	filamentous growth	regulation of sten		negative regulation of cell cycle checkpoint	DNA restriction-modi system	fication regulation gluconeoge	nentidyl-prolyl
segment polarity determination	cell elongation involved in imaginal disc-derived wing morphogenesis	maintenance of dauer yo developme	cell morphogenesis	establishment of imaginal disc-derived wing hair orientation	imaginal disc-derived wing margin morphogenesis		ecdysone eceptor-mediate signaling pathwa egulation of Wnt	andium ion	positive regulation of Wnt signaling pathway involved in dorsal/ventral axis specification cellular response to	cell cycle	regulation of cell of cell cycle pro-	regulation	modification r	otidyl-proline of protideneddy	ein prosphatolinosial 3-prosphatologyment bosymhetic process  ication
salivary gland	digestive tract morphogenesis	larval development	determination of adult lifespan	neuron differentiatior	root hair cell development	t apoptotic ax	involved in dorsal/ventral axis specification  Wnt signaling	activity invasive filamentous	ecdysone invasive growth in response to	positive	tion of	regulation of mitotic spindle	positive regulation of gluconeogenes	editing	cell cycle DNA replication protein
morphogenesis	spiracle	morphogenesis of a polarized epithelium	embryo development	root hair elongation	trichoblast maturation	regulation of p	pathway involved in dorsal/ventral axis specification	growth response to salt	negative regulation of	proliferation regu	llation regulation	elongation mitotic cell cycle	phosphate biosynthetic process positive	base conversion or substitution editing regulation of	maturation by iron-sulfur cluster transfer pyrimidine
mesodermal cell fate determination	morphogenesis, open tracheal system	regulation of vulval development	heart development		generation of neurons	of sodium ion	protein destabilization c	regulation of growth of unicellular organism as a thread of attached cells	positive regulation of organ growth	mitotic cell cycle centro phase transition sepa	elongation	phase transition	regulation of DNA endoreduplicatio	gene expression, epigenetic positive	nucleobase catabolic process regulation of
mitotic actomyos contractile ring assembly	establishmen of meiotic spindle orientation	t membrane fission	supramolecular fiber organization	mitochondrial cytoskeleton fission organization		protein loca to cell divisi		protein ocalization to cell cortex	nuclear	generation p	of germ cell proli	olved	calization larval	regulation of transcription	NA-templated transcription, elongation
	establishmen of mitotic n spindle	cytoplasmic microtubule organization	organizing	extracellular structure organization	cell-cell junction maintenance		cellular	protein	late	3 9 11 11 11	in reproduction ulticellular orga	nism	pehavior slon	gation transcrip polyme elonga  positive	otion, negative regulation of
mitotic actomyos contractile ring maintenance	microtubule org	assembly			regulation of cellular component size	vacuolar transm <mark>cellula</mark> transport	macromoleon macrom	olecule loca cytoskelete synaptic	lization Golgi transport	reproduction in multicellular organism	barbed-end	nemor	migration DN ti	ranscription, of F	pative regulation RNA biosynthetic process organic acid
peroxisome fission mitotic spindle elongation		microtubule-base process	mitotic chromosome movement towards spindle pole	nuclear pore organization	cell	nuclear migration alono microtubule	synaption vesicle budding	endosomal processing	localization	polymerization	actiii	positive regulation of protein lepolymerization  nt cappin	actin filament polymerization trai		insmembrane transport acid
			actin filament	nucleus organization	axonemal central apparatus assembly	protein localization to cell periphery		early of endosome to local late endosome to to transport me	ablishment f protein salization plasma embrane	negative regulatio of actin filament depolymerization	n regulation of protein	actin	actin filament ca polymerization train	rboxylle acid nsmembrane transport	-alpha-amino acid

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regulation of macromolecule biosynthetic process	lipopolysaccharide metabolic process error-prone	regulation of DNA biosynthetic process negative regulation	process	protein sumoylation negative	neuron cellulai homeostasis	muscle ce cellular homeostas	comple	promeration	positive regula of transformi growth factor to receptor signa	ng pos regula Notch s	itive Ition of Ignaling Inway	regulation of stem cell oroliferation	embryo developmo ending in b or egg hatc	irth open tra	enesis, digo cheal de	estive tract velopment
ubiquitin-dependent protein catabolic process via the	translesion synthesis	of cellular biosynthetic process	regulation of translation	regulation of biosynthetic process	Oi	vacuolar	cristae	phagocytosis,	pathway  DNA damage	signal		tive	salivary glar morphogene	sis morphoge	nesis morp	gland phogenesis
multivesicular body sorting pathway	regulation of transcription by RNA	requiation	regulation of glu	can regulation of	apoptotic cell	transport  vacuolar tra	formation insport	engulfment	signaling	of cellular response to DNA damage	of DNA damage	regulation of cellular		masculinizat		ent
transcription by RNA	polymera:regui	autophagy lation of trans		ess process	transport via	poptotic cell clearance	plasma membrane	membrane invagination	DNA integrity checkpoint	stress-activated MAPK cascade		process	salivary glar developme	hormanhrod		hermaphrodite germ-line sex ent determination
polymerase II	leucine catabolic	motabolio	positive regulation of transcription, positive	nuclear-transcribed mRNA catabolic process,	multivesicular body sorting pathway	negative	invagination negative regu	1	signaling negative	stress-activated	regulation of cellular	small GTPase mediated	exocrine	first cell cyc	le	
regulation	regulation	DY0000	DNA-templated biosyr proc		1	apoptotic cell clearance	of phagocyt engulfme	tosis,	regulation of DNA damage checkpoint	protein kinase signaling cascade	response to stress	signal ransduction	system developme	pseudocleav	ane	ocleavage
expression	voressien		ptidyl–lysine oligosaccharide nodification biosynthetic polysacch process proces		pathway	negative regulation of engulfment of apoptotic cell	tion of regulation ment of of membrane		contin ring	spindle	nuclea organi		microtubule cytoskeleton organization	protein	regulatior of protein	targeting to
polysaccharide biosynthetic	regulation of cellular amide pmetabolic	regulation of polysaccharide biosynthetic	positive regulation of macromolecule	translesion		pos	sitive		septin ring organization	organizatior	n organi		involved in mitosis	localization to centrosome	controcom	involved in autophagy
process	process	process	biosynthetic process	synthesis	regulation of mitotic cell		ation of cellular	mesodermal cell fate	microti	ubule organizi	centros na center		ntriole-centriole		ment of price	
positive	positive regulation			G2/MI transition	cycle, embryc	onic orga		determination	actomyosin	organizing cent organization	ter   dapliet	r	egulation of microtubule	establishment of protein		protoin
regulation of mitotic	of meiotic cell cycle		meiotic cell cy phase transiti			cell elongat	ion	segment	contractile ring assembly	regulation	centros	ome	nucleation regulation	localization to vacuole	to vacuole	to nucleus
cell cycle	positive regula of G2/MI transi	tion regulatio	regulation	of meiotic cell cycle phase	regulation of embryonic	involved in ima embryonic c morphogene	aginal <mark>leavage</mark> de		3 1 ,	of spindle assembly	cycl	C	of spindle organization			
positive regulation of	of meiotic ce	llation of cell	cycle process	transition meiotic cell cycle	development _	morphogene regulation of			response to	ATP regula detect	tion of Sition of invalid stimulus	ection of timulus rolved in	sensory perception	sexual reproduction	sex etermination	reproductive process
cell cycle process	meiotic cell cycle	cell cycle phase	cell cycle G2/M phase	phase transition positive regulation		mesoderma cell fate	photorect cell	regulation of	stimulus	export involved in perception	n sensory S n of touch pe	ensory rception	of touch	sexual	reproduct	tion
	regulation o	transition	positive	of mitotic cytokinetic process	chitin-based larval cuticle	specificatio	n morphoge	enesis embryonic development	pos	esponse to me	defe	nse ^-	TP locomotor		formation	) pole cell
mitotic cytokinesis	G2/MI transiti of meiotic ce cycle	regulation of G2/M transiti	of regulation in the second se	mitotic cell cycle process	pattern formation	syncytium formation	er	mbryonic leavage	nucleobase-containing mechanisms mechanisms compound transport invo	hanical stimulus involved in sensory	respor al stimulus n sensory n of touch	egative trans		ovulation	positive regulation fertilizatio	of

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myeloid dendi cell differential		protein localizatior to cell	loca	id droplet alization to ore membrane ding edge	error–pron translesior synthesis	e reg	sitive ulation DNA ynthetic	positive regulation of DNA repair	positive regulation of cytokinesis	regulation of primary cell septun biogenesis	regulation of septation initiation	primary cell septum biogenesis	mRNA splicing, via spliceosome	ncRNA processi		RNA 5'-end processing
		division site	e la	actation	.,		ocess			regulation of mitotic	positive regulation of	positive regulation of mitotic	tRNA	RNA metabolic	ncRNA metaboli	RNA
	body fluid	d mamma	ary , arachido	arachidonic	transcription	by symbiont <b>i</b>		regulation	positive regulate regulation of mitotic cell cycle	septum assembly	ry cell septu assembly	m biogenesis process	5'-leader removal	RNA proces	process	processing
	romosome entry into dis		to diapause transport secretic		p <b>modulation b</b>		of gene host trans	of DNA nscription	phase transition positive regulation	positive regulation	of mitotic reg	pulation division	production of small RNA	production of siRNA involved	sno(s)RN	sno(s)RNA metabolic
maintenance of transmembrane	transmembrane entry into		glucose		suppression by virus of host RNA polymerase	transcription	positive		of primary cell septum biogenesis	septum	,	mitotic septum  okinesis assembly	involved in gene silencing by RNA	in RNA interference	processin	process
electrochemical gradient	cellular	Impo	plas memb	ma homeostasis	Il activity	by RNA polymerase II	regulation of nucleobase-containing compound metabolic process	by virus of host gene expression	negative regulation of cellular	negative regulation of macromolecule	positive regulation of	protein	phosphorylati	meio on metaph		meiotic
dauer entry	dauer entry response to social			odium ion omeostasis	suppression by virus of host transcription	regulation of DNA-dependen DNA replication	transc	ription, emplated	biosynthetic process	biosynthetic process	DNA-dependent DNA replication	sumoylation mitochondrial		I pla congres		cell cycle
negative regulation of	reg	positive positive regulation regulation of apoptotic of response		regulation of sporulation		termi	regulation of terminal button organization spindle midzone assembly			regulation of regulation of regulation osynthetic prolesynthetic process	of	protoin	osphorylation lab peptidyl-lysine by virus modification host ge express	involved ene germarium-de	erived egg	ormation karyosome formation
DNA damage checkpoint		ocess t	positive regulation	positive	aggresome asse	spind			negative regulation of fatty acid metabolic process	metabolic biosynthetic		protein phosphorylation	protein modification	chromos organization in meiotic c	involved	oocyte karyosome formation
regulation of establipositive maintenance of	prog	rammed	of glucose	regulation of mitotic mulus	vesicle targeting, rough ER to cis-Golgi	mitotic spindl	ing cytochrome	respiratory I chain complex		response to exogenous	viral RNA genome	positive regulatio	signal	positive regul of maintenan meiotic sis	ce of m ter	regulation of naintenance of meiotic sister
bipolar cell polari regulating cell sha	ity po ape regu	positive regulation of growth rate		T cell costimulation	· ·			IV assembly	response to interferon–gamma response to	dsRNA replication  interferon-gamma		signal transduction transduction  positive regulation  of intracellular  signal transduction		positive regulatio maintenance of si chromatid cohes		of sister
mitotic DNA damage checkpoint signaling	reg of g transr	alucose	egulation of growth rate	ot alucose	vesicle coating	vesicle targeting, to, from or within Golgi	terminal button organization	COPII-coated vesicle budding	RNA-templated viral transcription	replication response to dsRNA	to tumor necrosis factor	regulation of I-kappaB kinase/NF-kappal signaling	positive	positive regulation	r of natid	regulation of ster chromatid cohesion