

■ ¹ parent

0.8 acetyltransferase complex cation channel complex chaperone complex

cytochrome complex

ER to Golgi transport vesicle membrane focal adhesion

0.2 glutamatergic synapse

inner mitochondrial membrane protein complex intrinsic component of postsynaptic membrane

large ribosomal subunit

lumenal side of membrane

lysosomal lumen

lytic vacuole membrane

main axon

microtubule

myelin sheath

polysome

postsynaptic density

proteasome complex

respirasome

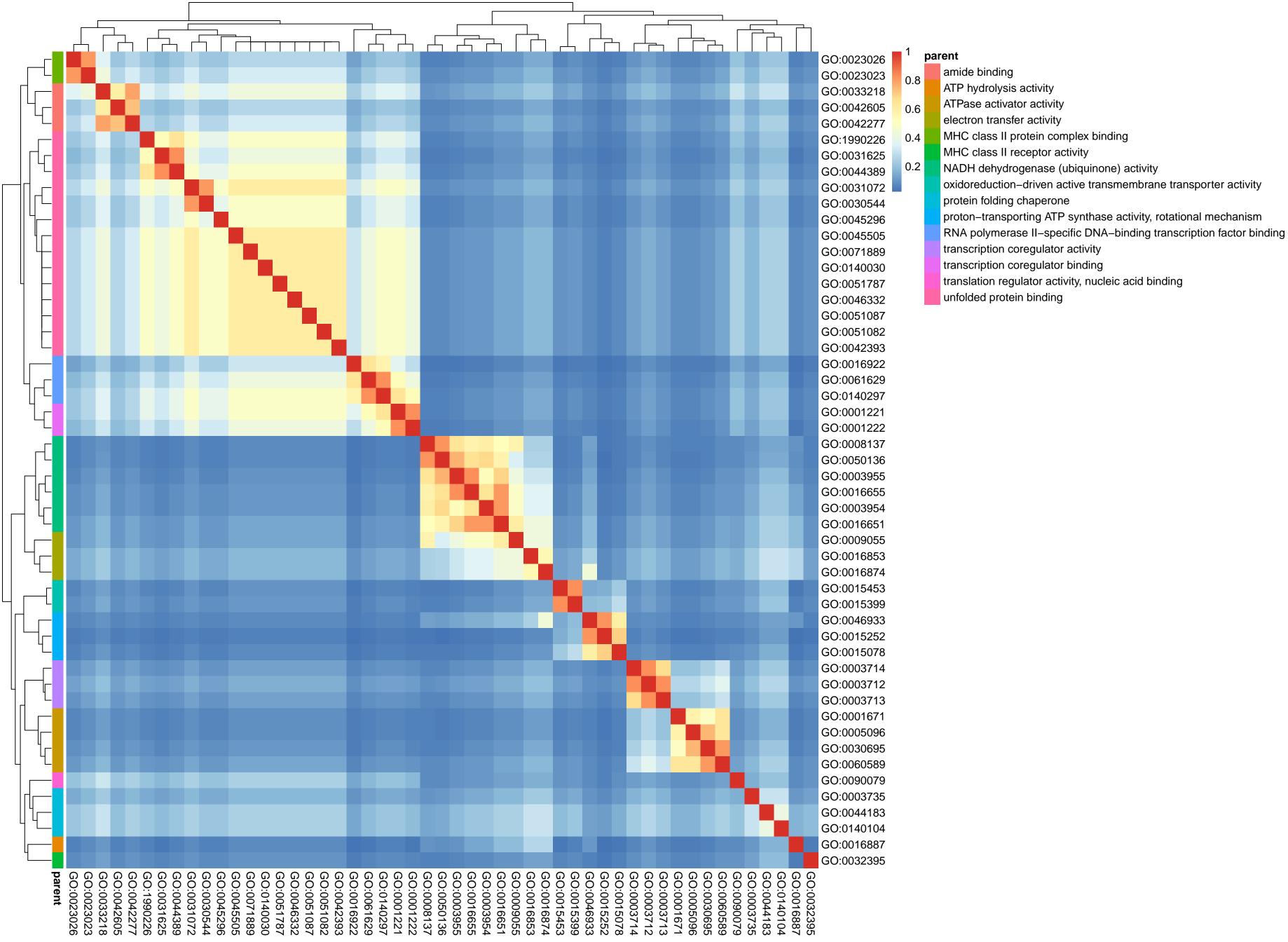
respiratory chain complex

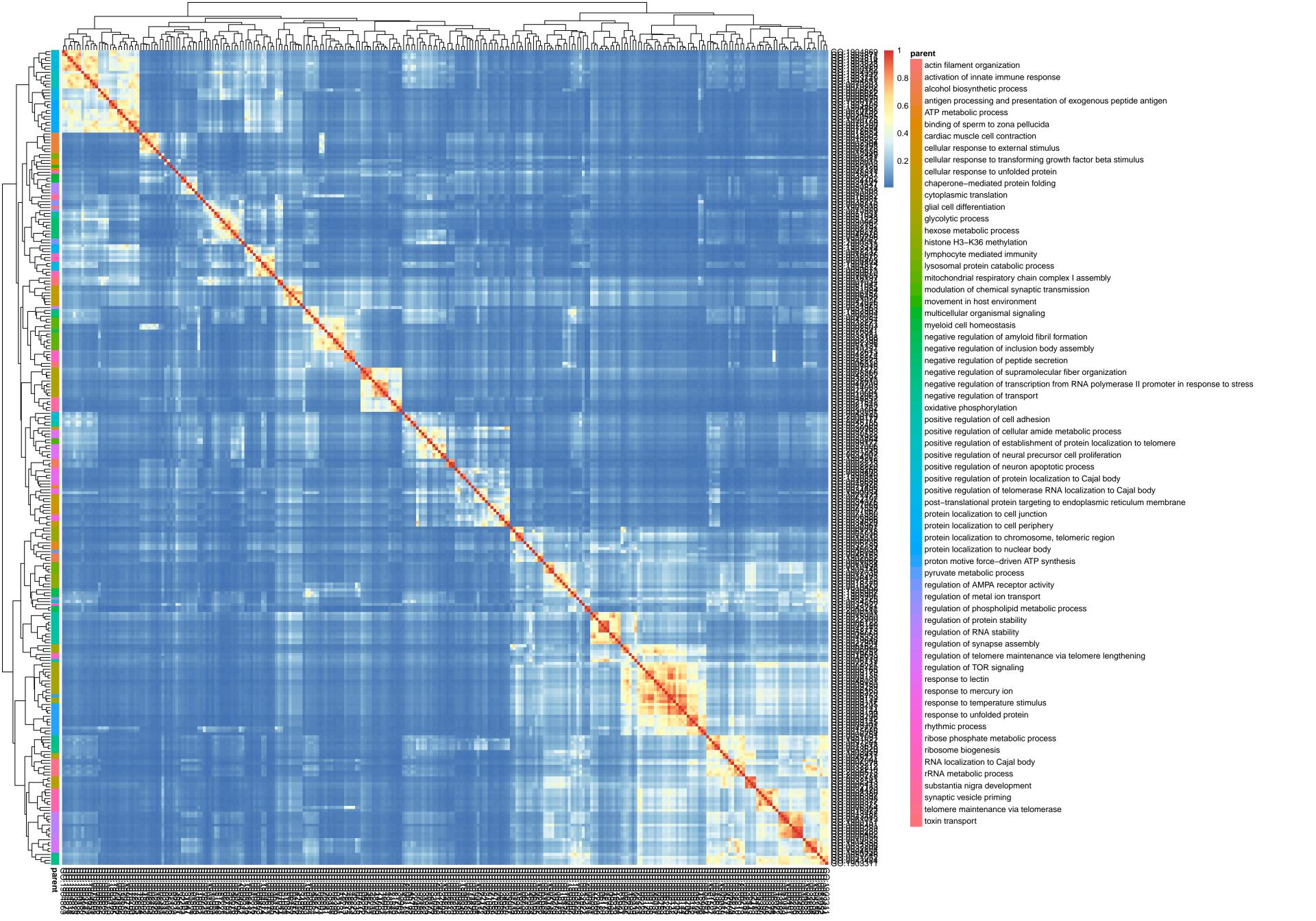
RNA polymerase II transcription regulator complex

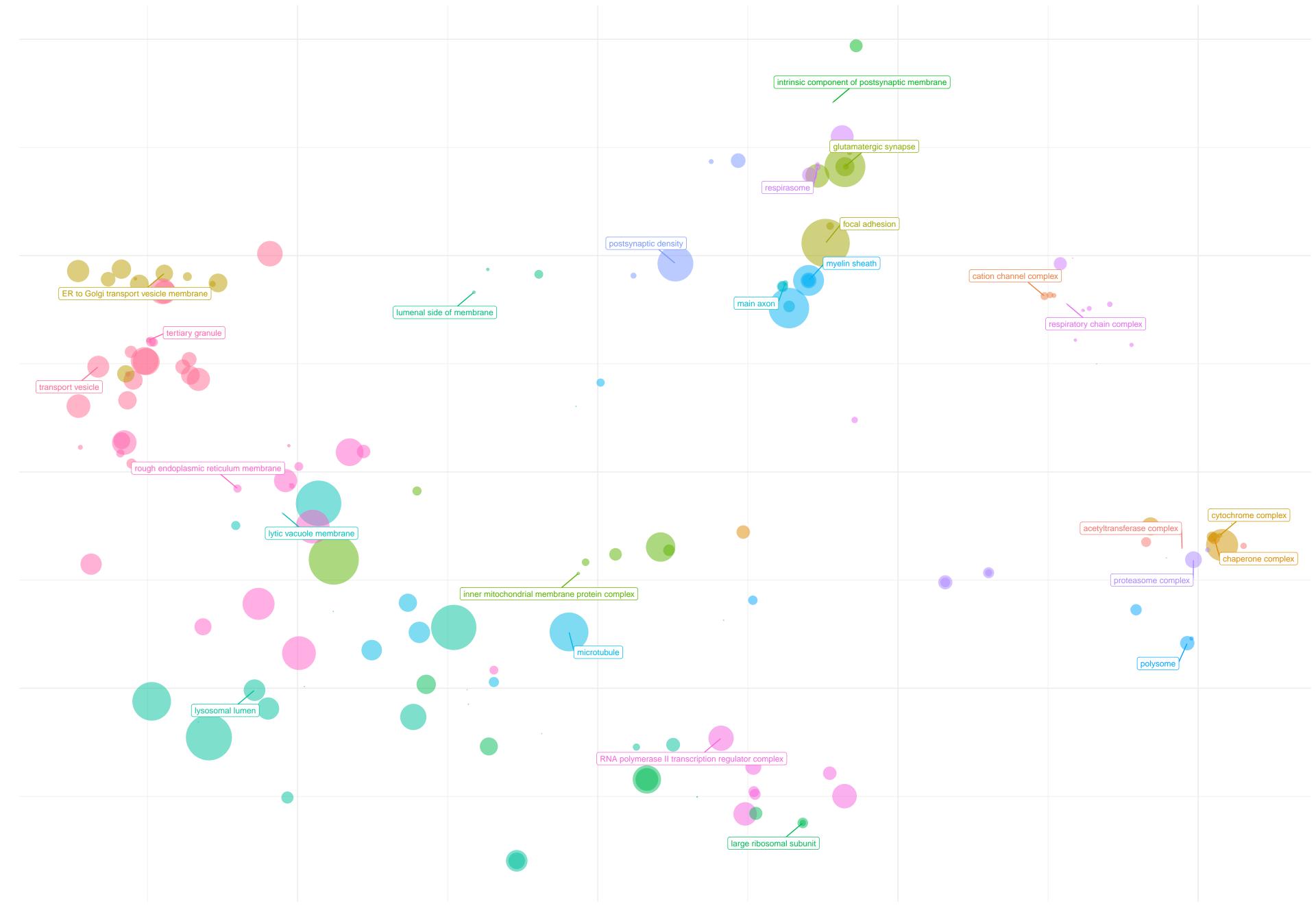
rough endoplasmic reticulum membrane

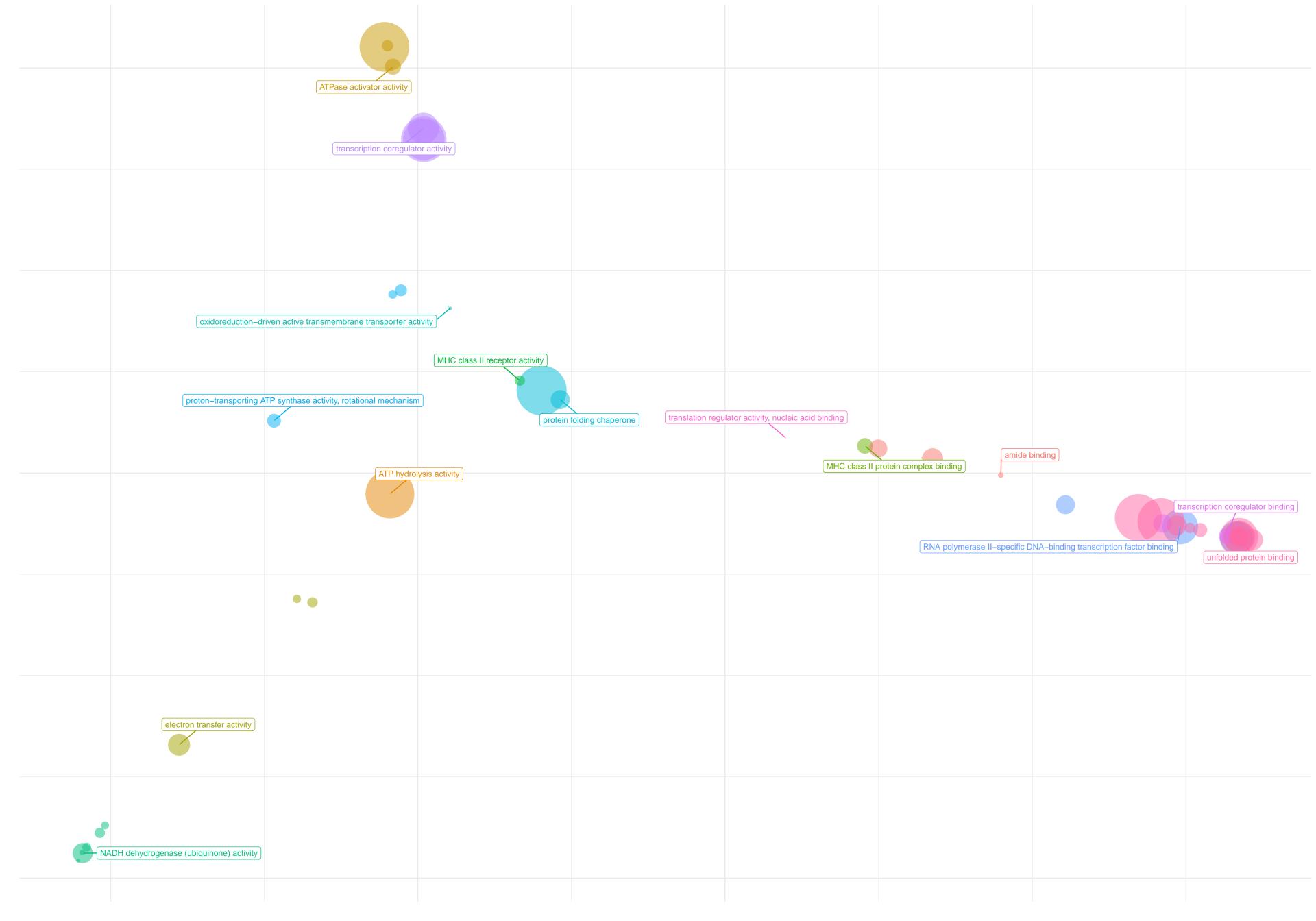
tertiary granule

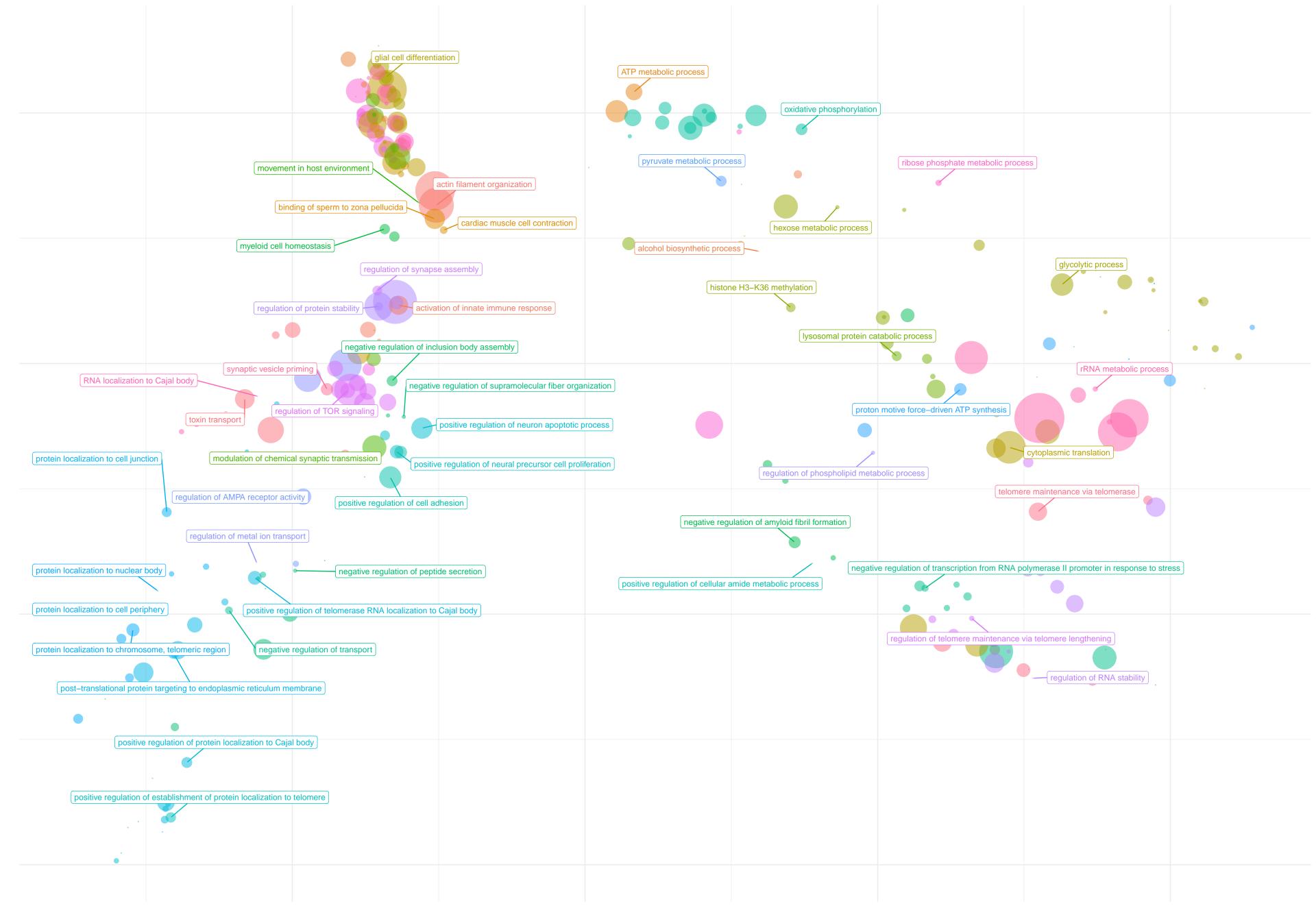
transport vesicle











respiratory chain complex		respiratory chain complex I	- t\	n–transporting wo–sector Pase complex	rough endoplasmic reticulur reticulum membrane chaperor		cnaperone reticulum membrane		lumenal side of endoplasmic reticulum membrane	large ribosomal subunit		polysomal ribo	some	ibosomal bunit	lysosomal lumen		nitochondrial matrix	vacuolar lumen	
proton–transporting		ry chain complex proton–transporting ATP synthase complex, coupling factor F(o)		espiratory chain complex III	rough endop ାଥ୍ୟସନ୍ e r reticulum	integral ugh endopl gylgh endoplasmic reticulum reticulum membran		reticulum membrane nic envelope m		large		ribosomal subunit ribosome			endoplasmic ^{lyso} reticulum lumen		mitochondria intermembran somal lumen space mitochondrial large	mitochondrial small ribosomal subunit organelle envelope lumen	
NADH dehydrogenase	e complex	proton-transporting two-sector ATPase complex, proton-transporting		oton-transporting o-sector ATPase complex,	endoplasmic reticulum protein-containing complex intring compone endopla reticul membr		nent of lasmic ulum membrane nuclear		mitochondrial protein-complex	cytosolic large ribosomal subunit		organellar ribosome cytosolic small ribosomal subunit cytosolic ribosome organella ribosomal		small ribosomal subunit lar large	l mitochondrial ribosome	l fibrillar center	ribosomal subunit histone acetyltransferase complex	nuclear speck MLL1/2 complex	
		domain	mitochondrial		respirasome		sarcolemma		proteasome co	endonentidase		RNA polymerase II transcription regulator complex	catalytic step 2 spliceosome	pol	lysome	preribosomo	main axo	node of Ranvier	
inner mitochondrial membrane protein complex		proton-transpo ATP synthat complex	orting se	mitochondrial respiratory nain complex I	·	espirasome	MHC class II protein complex		peptidase complex re		regulatory particle		iption complex U2-type ecatalytic catalytic	preribosome	485	translation preinitiation	neuron	in axon axonal growth cone	
inner n	inner mitochondrial membrane protein co			site also and sign	MHC protein con	nplex	T-tubule membrane microdomain		proteasome accessory complex		complex complex	spliceosomal spliceosomal spliceosomal	iceosome step 2 spliceosome	e precursor	Inroinitiation		cytoplasm	axon initial segment	
mitochondrial respirasome		mitochondria proton-transpor ATP synthas complex, coupl factor F(o)	rting e ing	nitochondrial spiratory chain complex III	ER to Golgi transport vesicle membrane	transport vo membra	port vesicle embrane endocytic vesicle membrane		tertiary granu	le	ficolin–1–rich granule	myelin sheath myelin sheath midbo neuronal cell body membrocontact		lu of	intrinsicompon compon of membrane nenal side of membra membra		ent postsyna densit	density	
			inn	nitochondrial ner membrane	secr ER toൃGolgi⊧trar membrane	tertiary sport vesic granule membrane	vesicle membrane		ter azurophil	azurophil granule tiary granule specific				ane	integral comp		postsynap specializati membran	ion postsynaptic specialization	
transport vesicle	late endosom membrane	e secretory granule lumen	cytoplasmi vesicle lumen	vesicle lumen	coated vesicle membrane clathrin-coa		vesicle membrane azurophil		granule lumen tertiary granule lumen	granule platelet alpha granule granule lumen		glutamatergic – CA1 syr synapse glutamatergic synapse		apse			iocal ad focal a	cell–substrate adhesion junction	
	coated vesicle	e exocytic vesicle vesicle	endocytic vesicle melanosome		lysosomal membrane		membrane		cytochrome complex	Prp19 complex		presynapse	asymmetric synapse ne	mmetric neuron to neuron synapse		complex cullin-RING preductase complex ligase complex		e complex plex	
late endosome	multivesicula body	platelet pigment alpha recycling granule granule endosome lumen		vacuolar membrane lytic vacuole membrane					hrome:complex repressor complex		microtubule mic				NAC nembrane	complex	intrinsic		
COPII–coated ER to Golgi transport vesicle	synaptic vesic	endocytic vesicle lumen	phagocy vesicle	endosome	lytic vacuole membrane primary lysoso		some	transcriptior regulator comp	n olex n	nucleocytoplasmic transport complex	cytoplasmic stress granule	cytoplasm ribonucleopro granule	otein	complex on channel complex	transporter	OT	component of of ic membrane synaptic membrane		

unfolded protein binding			histone binding			AD binding	activity, rota	orting ATP synthase ational mechanism g ATP synthase activity	proton transmembrane y, rotational mechanism transporter activity		protein folding chaperone protein folding chaperor	molecular carrier activity	
		unfolded prote		ubiquitin protein ligase binding		n intermediate ain binding	proton c	hannel activity		s	structural constituent of ribosome		
heat shock protein binding	histone methyltransferas binding	cadherin	binding	modification-depend protein binding		Hsp70	ATPase activator	GTPase regulator	MHC class II protein co	mplex binding		isomerase	
		14–3–3 pro	14–3–3 protein binding		ubiquitin–like protein ligase binding		activity ATPase activa	activity ator activity	MHC class II protein co	mplex binding	electron transfer activi	activity	
	NADH dehydrogenase NADH dehydrogenase (ubiquinone) activity (quin				DNIA nelymaraga II. angeifig			GTPase activator activity	MHC protein compl	ex binding	ligase a	ctivity	
				RNA polymerase II–specific DNA–binding transcription factor binding			regulator activity	activity		primary active	transcription coregulator binding		
NADH dehydrogenase activity oxide		one) activity oxidoreductase activity, acting on NAD(P)H,		RNA polymerase II–specific DNA–binding transcription factor binding DNA–binding transcription factor binding			transcription	transcription	oxidoreduction-drive transmembrane transpo	n active embrane	coregulator binding	ATP hydrolysis activity	
		quinone or similar compound as acceptor					coregulator activity transcription core	coactivator activity	amide binding		transcription corepressor binding		
		oxidoreductase activity, acting on NAD(P)H	ridelical receptor biriding				transcription core	pressor activity	amide binding peptide antigen binding	peptide binding	MHC class II receptor activit	translation regulator y activity, nucleic acid binding	

oxidative phosphorylation		electron transport		from ADP p glycolytic nu process dip phos	etabolic diport not not not not not not not not not no	eotide—sugar metabolic process eotide—sugar metabolic process cess nucl dipho metabolic process	urine leotide tabolic ocess leoside osphate tabolic ocess	rRNA mer proce rRNA		mRNA processing ic proces RNA splicing, via transesterification reactions with bulged adenosine as nucleophile	mRNA splicing, via spliceosome S RNA splicing, via transesterification reactions	negative regulation of transcription from RNA polymerase Il promoter in response to stress nega transcriptio Il promote	RNA splici tive regulat n from RNA	ion of a polymerase	of mRNA stability	of RNA stability	regulation of mRNA catabolic process abilityNA catabolic process		protein localization to chromosome, telomeric region calization to telomeric establishment of protein localization to mitochondrion
aerobic electron oxidative phosphory aerobic respiration		energy derivation electron by oxidation transport of organic chain compounds generation of precursor		diphosphate metabolic process purine ribonucleoside diphosphate metabolic metabolic	metabolic process ryrimidine ucleotide netabolic r	onucleotide metabolic process ucleotide letabolic can	rocess	regulation of TOR signaling	negative regulation of TOR	intrins apopto signalii	ic otic ng res	of mRNA metabolic process cellular sponse to	lipoprotein metabolic process cellular response to topological	ovodonous	of presentation exogenous	and n of substar s nigra		establishment of protein localization to organelle posit regulati protein localization to Cajal	establishment of protein localization to chromosome ve regulation of protein protein localization
cellular respiration	respiratory and energy electron		bolites energy Irial electron ubiquinol to	response to temperature stimulus response to temperature		response to	cellular response to heat re stimulus G		regulation of TOR signal in of intrinsic apoptotic signaling pathway regulation of small GTPase mediated signal transduction signaling pathway regulation of small signal transduction pathway signaling pathway		cellular respon		protein smic cellul sponse to se to semic stress	presentation peptic potein mic folded cellular response to salt mic stress presentation peptic antigen processing and presentation of exogenous peptide antigen via MHC class II regulation		d sub	evelopment dentate gyrus development	ra posit	ion telomeric region ein positive regulation of protein localization
chaperone-mediated protein folding chaperone-mediated protein folding chaperone-mediated protein folding 'de novo' chaperone-mediated protein folding 'de novo' post-translational			protein folding		regulation of cellular response to heat osome biogenesis regulation of cellular response to heat		t	cytoplasmic translation positive cytoplasmic translation positive cytoplasmic translation of translation translation translation mitochondrial		ational ation ation of slation	maintenance via telomerase telomere maintenance via telomerase RNA-templated DNA biosynthetic regulation of telomere		of establish protein loca to telom positi establish localization of regulation	establishm of prote localizati to telome we regulation shment of pro ation to telom on of	histone H3-K36 methylation histone H3-K36 hmethylation modification modification modification protein acetylation regulation of metal ion regulation to metal ion regulation to metal ion regulation of metal		localization to Cajal body		toxin vacuolar transport toxin transport toxin transport /sosomal endosomal transport
	cofactor-d protein re ne nucleoside phosphate	tripriospriate		ribosome biogenes ribonucleoprotein complex biogenesis		riboson large su biogen enesis riboson small su	ibunit lesis mal	negative regulation of amyloid fibring fregative	regulation of amyloid fibril formation regulation of		regulation of telomere maintenance via telomere maintenance via telomere lengthening regulation of telome lengthening maintenance via telomere lengthening telomere lengthening maintenance via telome lengthening lengthening maintenance via telomere lengthenin		protein localization to mitochondrion post-translational protein targeting to endoplasmic reticulum membrane				seconda alcohol metabo osynthetic process	ion	actin filament actin filament of organization chromatin
ATP synthesis	ribo ribo ribo ribo process bi	purine onucleoside ATPs synthesis iosynthetic process purine ribonucleoside triphosphate biosynthetic process purine nucleoside		response to		response to topologically	esis a	regulation of cysteine-type endopeptidase activity involved in apoptotic process are defined as a myloid fibril formation		regulation of ysteine-type ndopeptidase activity	hexose netabolic process glucose	positive regulation telomere maintenar glucose metabolic process e metabolic cocess	lysosom protein cataboli lysoso	catabolic process in protein le process chaperone-mediat autophagy	regulation AMPA rece activity protein	ptor me	ibose osphate etabolic rocess egative ulation of	negative regulation of inclusion body assembly	ly process gene expression
mitochondrial ATP synthesis ribonucleoside triphosphate triphosphate biosynthetic process metabolic process mitochondrial respiratory chain ribonucleoside triphosphate biosynthetic process peptide antigen assembly with MHC class II		biosynthetic process tigen with MHC protein complex	response to unfolded protein response to unfolded protein response to ax		onse to axon		ATP metabolic process ATP metabolic process NADH regeneration		cess	regulation action potent stategulation protein_stategulation_stategulati		of telo loca al Ca	re regulation merase RNA lization to ajal body	cell junction sup fiber		amolecular organization ac muscle ontraction	modulation of chemical synaptic transmission	priming	
mitochondrial NADH dehydrogenase complex I assembly	respiratory chain complex assembly respiratory chain complex chain complex chain complex assembly	protein com	assembly ssembly regulation of protein-containing complex assembly ith	axon glia (ensheathment	nvalination I	igodendrocyte in no significant in no significan	cell	4 4 4	of peptide secretion	of peptide hormone confereion to megulation of peptide transport	to transformin growth factor Cellular beta stimulus transfor	se cellular response to stimulus ming growth stimulus growth	ne activation	localization to localization localization localization to nucleoplasm stimulatory C-typ lectin receptor ion of innate activating cell surface receptor		e lympon me	oliferation	organismal signaling regulation of phospholipid	positive regulation of neuron apoptotic process pellucida movement in host environment esponse to nercury ion binding of sperm to zona pellucida cellular response to external stimulus