Acoela BP TreeMap

								•							
entry receptor-mediated virion attachment to host cell	establishment of integrated proviral latency	fusion of virus membrane with host plasma membrane	intracellular transport of virus	modulation of process of other organism	DNA biosynthetic process	meiotic DNA double-stran break formation	nucleic acid d phosphodiester bond hydrolysis	RNA phosphodiester bond hydrolysis, endonucleolytic	cell wall biogenesis	cell wall organization	killing of cells of other organism	behavioral response to starvation	cell chemotaxis	endothelin receptor signaling pathway	interferon–gamma–mediated signaling pathway
pore formation by virus in membrane of host cell	viral capsid assembly	viral DNA genome packaging	viral DNA genome replication	viral entry into host cell	DNA integration	RNA-depende DNA rec biosynthetic process	ombination nce	RNA-templated	meiotic <mark>Ce</mark> cell cycle	ell activation transposition, RNA-mediated	vesicle-mediated	res	e to water ivation	regulation recepto estrogen recepto signaling pathway	
transport of virus inbiologo cell to cell	viral genome ical process i integration into host DNA	nvolved in sy	mbiotic intera	ction protein processing	DNA recombination	telomere capping	tRNA-type in splice site recognition a cleavage			neutropial activation of transport of transp		pheromone	cellular response to collement properties of the collement	==	shad show worm and head that
viral budding from nuclear membrane	viral genome replication	viral releas	virion	virion attachment to host cell	negative regulat of cytokine production involv in inflammator response	positive regulation interleukin productio	n of regulation of regulation of interleukin–1	positive f regulation of	negative regulation of glycogen catabolic process negative	negative regulation phosphate activity	n of trans	ansport cytoplasm to v	racuole	positive regulation of attachment of spindle microtubules teregulation of phase of a	y
viral budding via host ESCRT complex	viral life cycle	viral transcriptio	sidection of vertices, vertical to provide the symbol of t		production positive regulat	positive regulation interleukin-	positive proof	gulation of cytokine oduction involved in ammatory response	re regulation regulation reactivity positive	phosphory of STAT pr	on setab	otic sister	an neonanee	regulation of mast cell activation subtelomeric	DAN CONTROL OF THE PROPERTY OF
modulation by virus of host apoptotic process	suppression by virus of host apoptotic process	suppression by virus of host IRF3 activity	by virus of	suppression by virus of host MDA-5 activity		e production ing on		protein	regulation of peptidyl-tyrosic phosphorylation cellular bud	Positive again. In the control of th	estab	romatid homologou chromosom	sister peromatid hesion r	assembly pression by egulation of etic imprinting	regulation of myeloid cell differentiation
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suppression by virus of G2/M transition of host mitotic cell cycle	suppression by virus of host innate immun response	suppressio	DST Repression Repress	way signaling pathway	antibiotic biosynthetic process	nitrogen fixation	terpenoid biosynthetic proce mevalonate-depen		polymeriza	tion with the second se	spern	rmation	sys		biomineral muscle tissue system development process

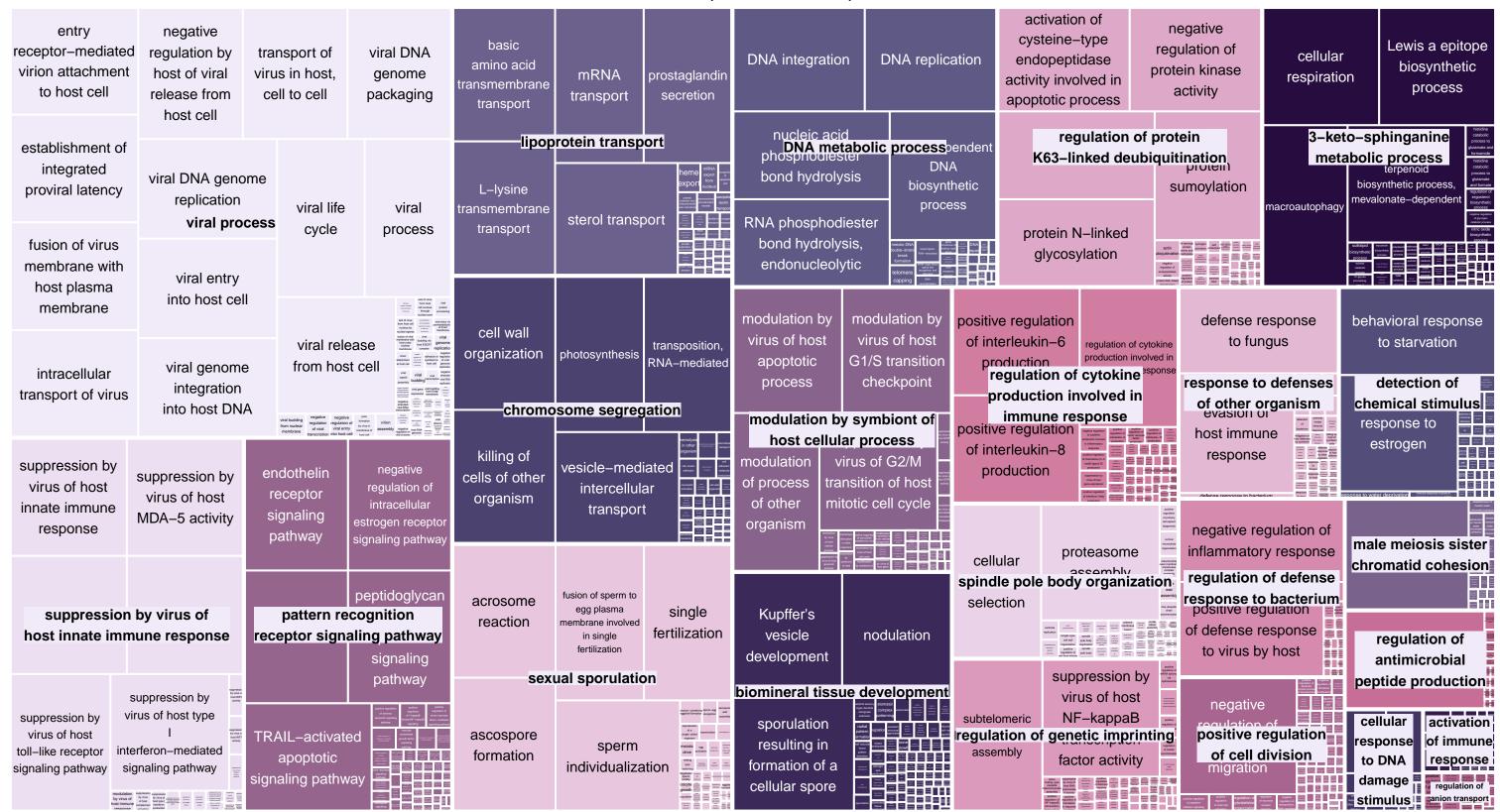
Annelida BP TreeMap

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Arthropoda BP TreeMap

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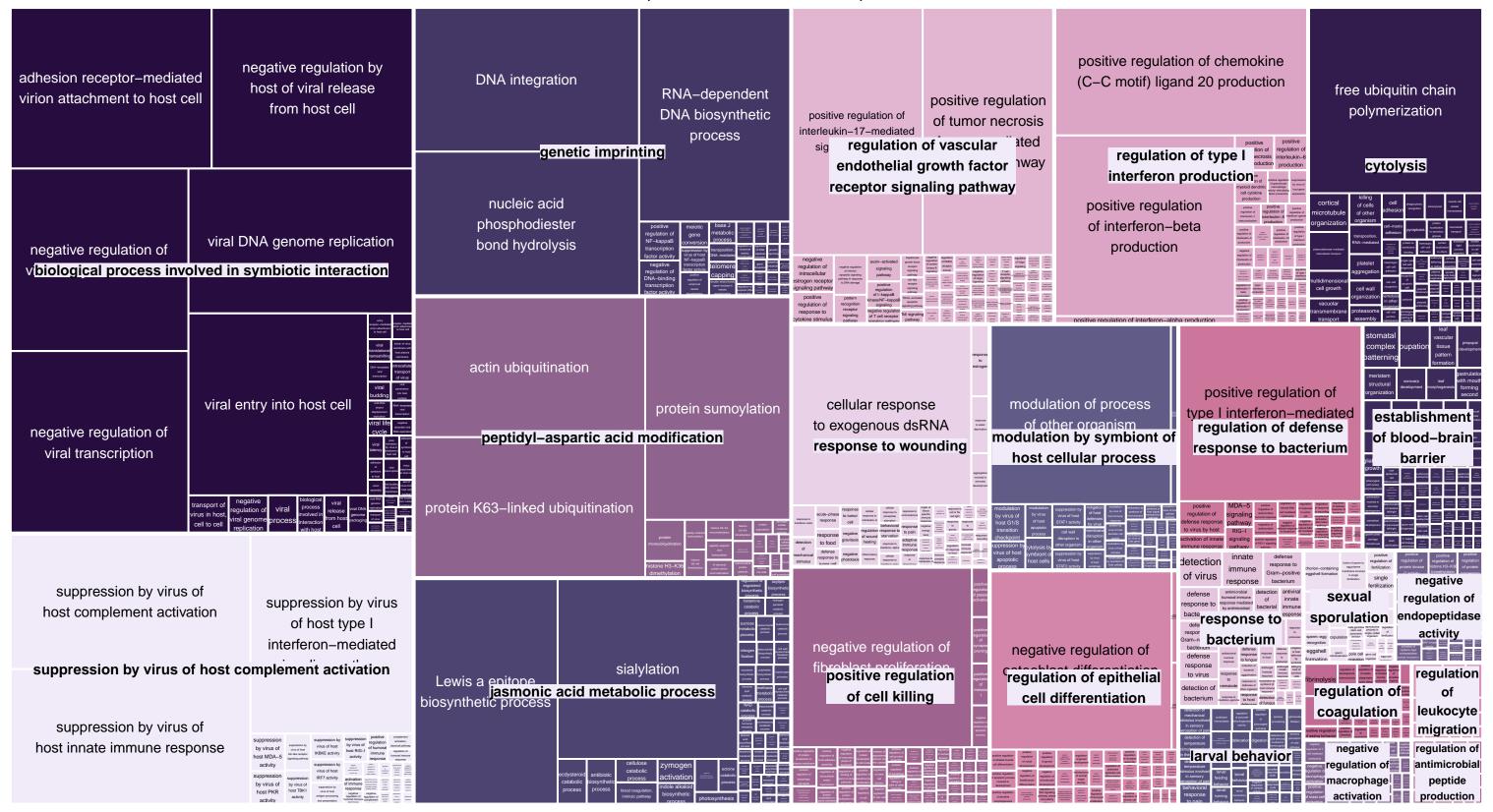
Brachiopoda BP TreeMap



Bryozoa BP TreeMap

adhesion receptor–mediate virion attachmer to host cell	trans	port ^{vi} rus ⁹	genome	viral DNA genome replication	viral entry into host cell	cAMP-mediated signaling	negative regulation of intrinsic apoptotic signaling pathway in response to DNA damage	neuropeptide signaling pathway	activation of adenylate cyclase activity	anesthesia-resistant memory	cellular bud site selection	free ubiquitin chain polymerization	modulation by virus of host apoptotic process	modulation by virus of host cellular process
entry receptor-mediate virion attachmer to host cell	nt membr	mation us in ane of	viral genome		viral		ttern recognitio			bitter taste	mitochondrial outer membrane translocase complex regulation	positive regulation of centriole on of cell	modulation by virus of host G1/S transition chemodulation	
establishmen of integrated	transp	viral pro	ocession nto host DNA	viral process	release from host cell	pathway negative regulation of		signaling pathway	medium-term memory	olfactory learning	septum a positive regulation of	spindle	of host modulation of process of	suppression by virus
proviral latency fusion of viru	cell to		viral life	virion attachmer	THE STATE OF THE S	intracellular estrogen receptor signaling pathway	of MAPK .				cilium assembly proteasome	duplication	other organism suppression by virus of G2/M	of host autophagy
membrane wi host plasma membrane	ith from ni memb	uclear	cycle	to host ce	regulation of viral assessment where there are a supposed to the supposed to t	negative regulation of glycogen catabolic	negative regulation of receptor	positive regulation of mRNA splicing,	of catalytic activity	behavioral	assembly negative	positive	transition of host mitotic cell cycle	1
	_	positive regulation of	in inflamm	ine nvolved of c	sitive regulation hemokine (C–C notif) ligand 1	process negative regulation of	positive	via spliceosome	response to ethanol	response to starvation	migration	regulation of apoptotic process	Kupffer's vesicle development sporulation	spore wall assembly resulting in
	nacrophage i chemotaxis	nflammatory response	respon positive reg	se ulation pos	production sitive regulation of granulocyte	activity	n of genetic im respiratory burst	PPINTING	response to wa to desiccation		negative coregulation of T	f cell killing of neuronal synaptic	formation of a	cellular spore resulting in ormation of a
	by virus of	suppression by virus of	motif) liga product	nd 20 cold ion fac	ony–stimulating ctor production	negative regulation of protein kinase	suppression by virus of host NF-kappaB transcription			Celidar salar a sa s	cell apoptotic process	plasticity	dial growth	cellular spore
complement actival <mark>regula</mark>	immune		regulation positive p	on of re tive regula	positive equiation of ation of 1-13	activity DNA integration	factor activity meiotic DNA double-strand	nucleic acid	estrogen	No control C	actin ubiquitination mannoprotein me	peptidyl-cysteine S-nitrosylation etabolic process	keratinization	proliferation involved in immune response
suppression suppre	suppression by virus of	suppression by virus of	product positive regulation	e positi	production ive regulation nterleukin-8	DIVA IIILEGIALION	break formation	bond hydrolysis	acrosome reaction	ascospore formation	nitric oxide biosynthetic process	nitrogen fed fraction for the first fed fraction	biomineral tissue development	costimulation
host MAVS activity	host PKR activity	host RIG-I activity	interleuki producti	n-5 p	roduction	DNA DN recombination	RNA-depende A recombination DNA biosynthe process	transcription,	fusion of sperm to egg plasr sexual sp involved in single	orulation spermatogenesis	cell wall		morphogenesis	of mast cell activation
suppression by virus of host MDA–5 activity	suppression by virus of host typ I interferon-media signaling pathwa	e special of the spec	regulation interleuki	producti n of inflamma	on of cytokine ion involved in atory response	via Horriologous	telomere capping		fertilization male courtship behavior		•	cycle transport	evasion of response t	regulation of chondrocyte differentiation
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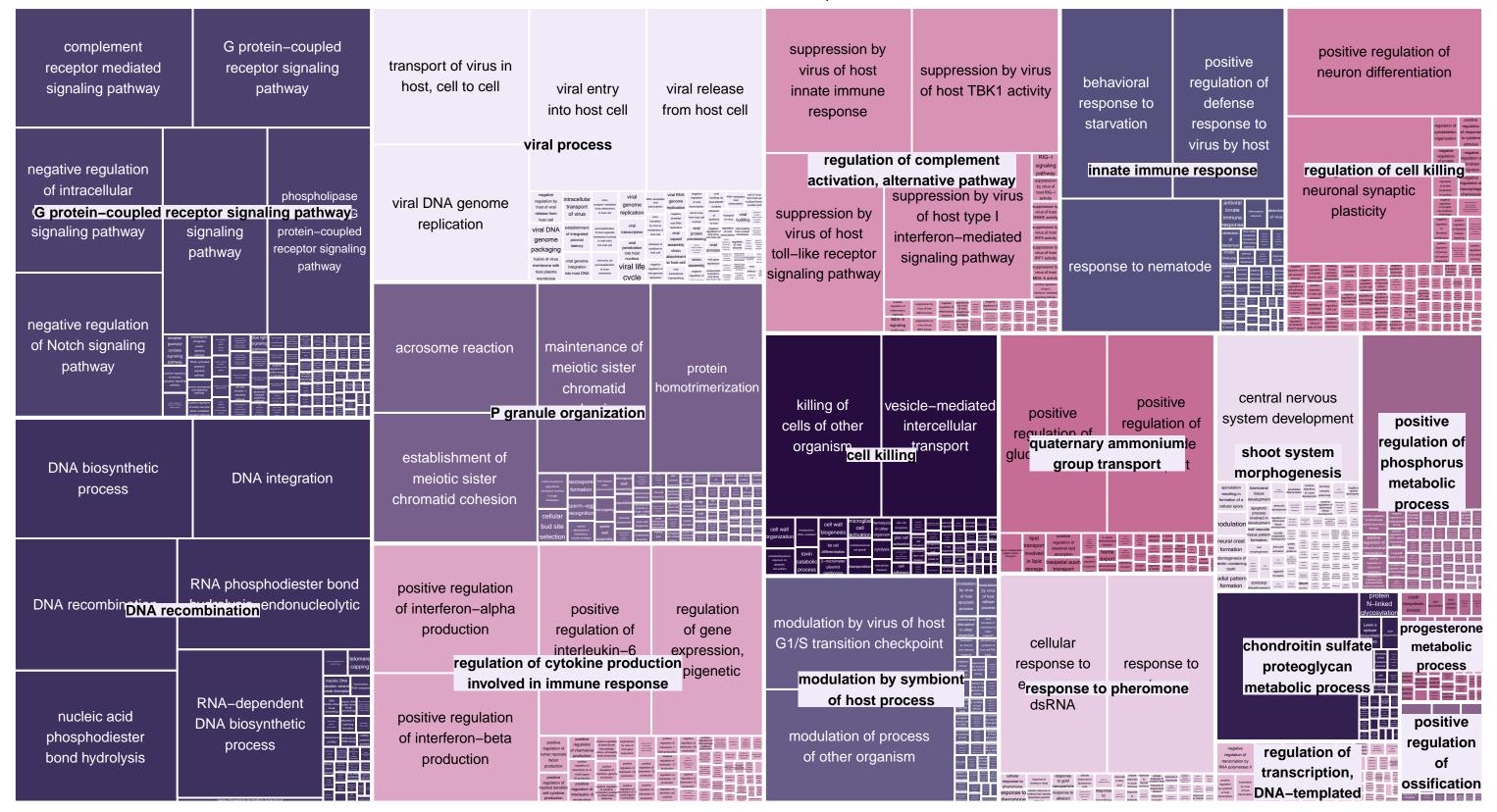
Cephalochordata BP TreeMap



Chaetognatha BP TreeMap

							3		•							
viral DNA replication	intracellular transport of virus	microtubule-dependent intracellular transport of viral material towards nucleus	pore formation by virus in membrane of host cell	transport of virus in host, cell to cell	DNA double-strand break processing involved in repair via synthesis-dependent strand annealing	meiotic DNA double-strand break formation	d phosphodiester bond hydrolysis	acrosome reaction	ascospore formation	bicoid mRNA localization	endothelin receptor signaling pathway	negative regulation of intracellular estrogen recep signaling pathy	of peptidogly recognition p signaling pat	ycan of host	modulation by virus of host cellular process	modulation by virus of host G1/S transition checkpoint
DNA-templated viral transcription	viral budding from Golgi membrane	viral DNA genome replication	viral entry into host cell	viral genome integration into host	DNA	RNA-dependent DNA NA recombina process		fusion of sperm to egg plasma membrane invol SP in single fertilization	ermatogenes	regulation of sis)ole plasm oskar mRNA localization	hydrog	positive en peroxide gnaling pat response X-ray	e mediated hway	otic of ho	lation by syn	nbiont of rus
receptor-mediated virion attachment to host cell establishment of integrated		viral life	viral process	viral release from host	DNA recombination	telomere capping	transcription, RNA-templated	male germline stem cell symmetric division	spermatogon cell division	regulation of type many	involved in conjugation	endothe	ctor	host apoptot	virus of h	on by
proviral latency fusion of virus membrane with	viral DNA genome	viral penetration into host		sharm of manufacture property of the control of the	positive regulation of defense response to virus by host	suppression by virus of host MDA-5 activity suppression		biomineral tissue development	bone mineralization	nodulation	aerobic respiration	cell wall organization	killing of cells of other organism	anaphase–promoting complex–dependent catabolic process	ntidyl-cysteine -nitrosylation	positive regulation of cysteine-type endopeptidase activity involved in execution phase of apoptosis
host plasma membrane behavioral response to starvation	cellula response	regi	gative ulation re	virial companies in the companies of the	suppression by virus of host antigen proce SU and presentatior peptide antigen via def class I	ppression of enses by syn activity	virus of host host re receptor biontng pathway suppression by virus of host type	biominera calcification	complex patternin		ohotosynthes	cytolysis IS transposition, RNA-mediated	vesicle-mediated intercellular transport	negative pregulation of histone K6:	protein degra 3-linked path quitination protein	dation wway
cellular response to osmotic stress	cellular respons to wate	e regul	gative lation of position, o	with zygote positive regulation f acrosome	suppression by virus of host innate immune response		interferon-mediated signaling pathway was the standard of the	sorocarp developmen	prints of prints of the control of t		plasmodesmata-mediat intercellular transport	2-mico	negative	keratinization C		sitive regulation f interleukin–6 production
fever ge <mark>regulatio</mark> r	positive regul of detection of appetite involved in se perception of	ation of pos pos pos nsory spindsteeped	psitive regulem cell proli	E	negative regulation of ribosomal protein gene transcription by RNA polymerase	translation in response to stress	NF-kappaB transcription factor activity		organization	positive regulation of centrosome budglication	piosynthetic b	iosynthetic o	regulation of glycogen catabolic process	cell competion	organism	positive regulation of cytokine production
response to estrogen	cellular response to cold	ribonucleosic reducta	lation of tempe de-diphosphate homec ase activity	erature cellular glucose ostasis homeostasis	regulation of regulation o by RNA polymerase II	transcriptio	athetic process I from RNA polymerase I promoter	p spindle p oassembly	phragmoplast microtubule organization	pole body	nitric 1,6–l bios) meta process	bisphospha bolic proce phosphatase activity	ss _{terpenoid}	sporulation resulting in formation of a cellular spore	a mulicalitar organizin spore wall ssembly and state spore wall ssembly and state spore wall ssembly and state spore spore wall ssembly and state spore spor	gulation of cytokine duction involved in ammatory response
response to water deprivation	behavior entre to the control of the	ene	ergy ostasis equation of saliva escretion of	stasis	positive regulation of mRNA splicing via spliceosome	transcription elongation fro RNA polymera I promoter	Positive regulator of synchron of DNA regulator of synchron of SNA regulator	regulation of mitoti metaphase/anaphas transition	actin fusion positive positive		regulation of ergosterol biosynthetic process					Ome

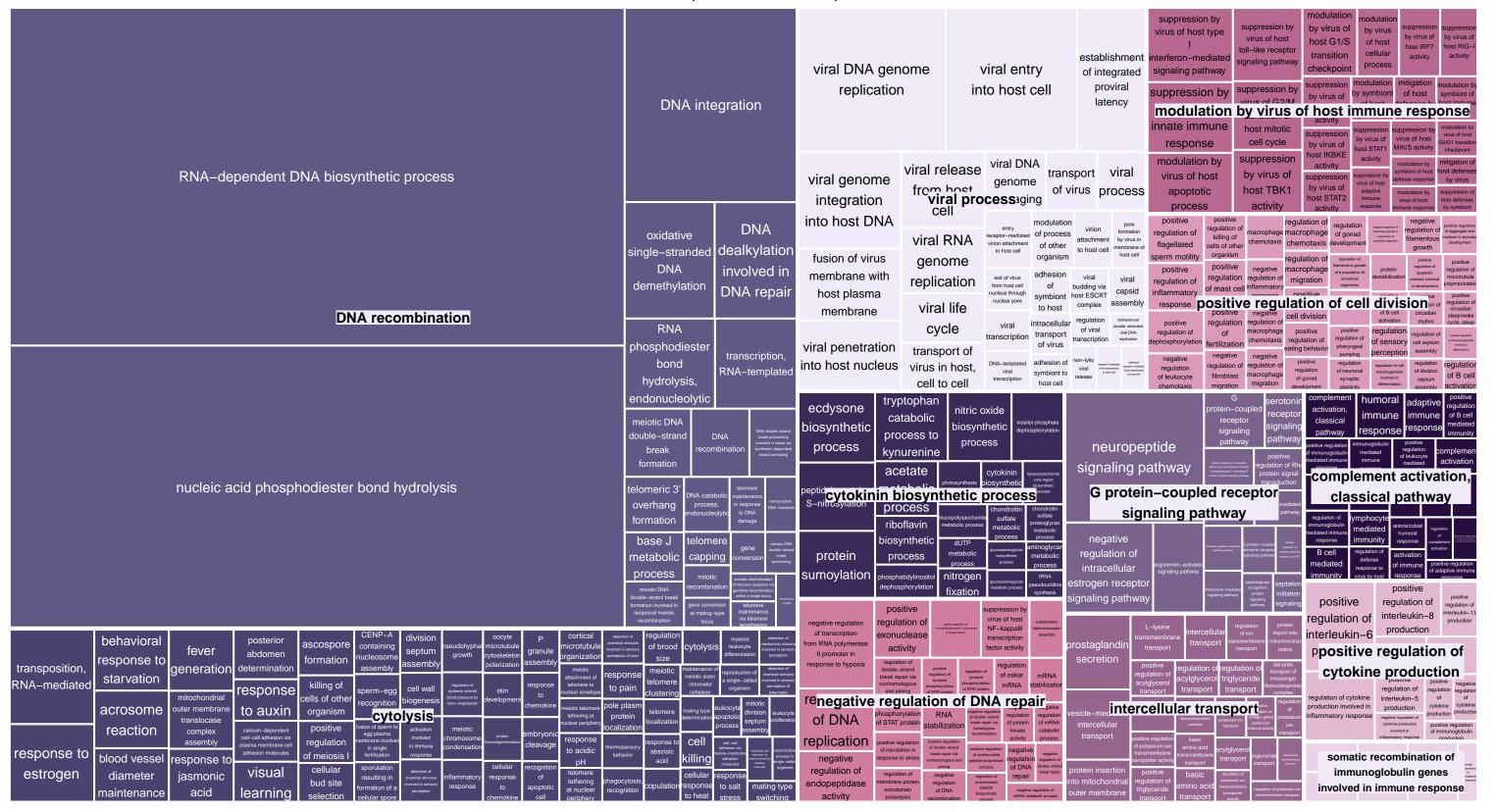
Cnidaria BP TreeMap



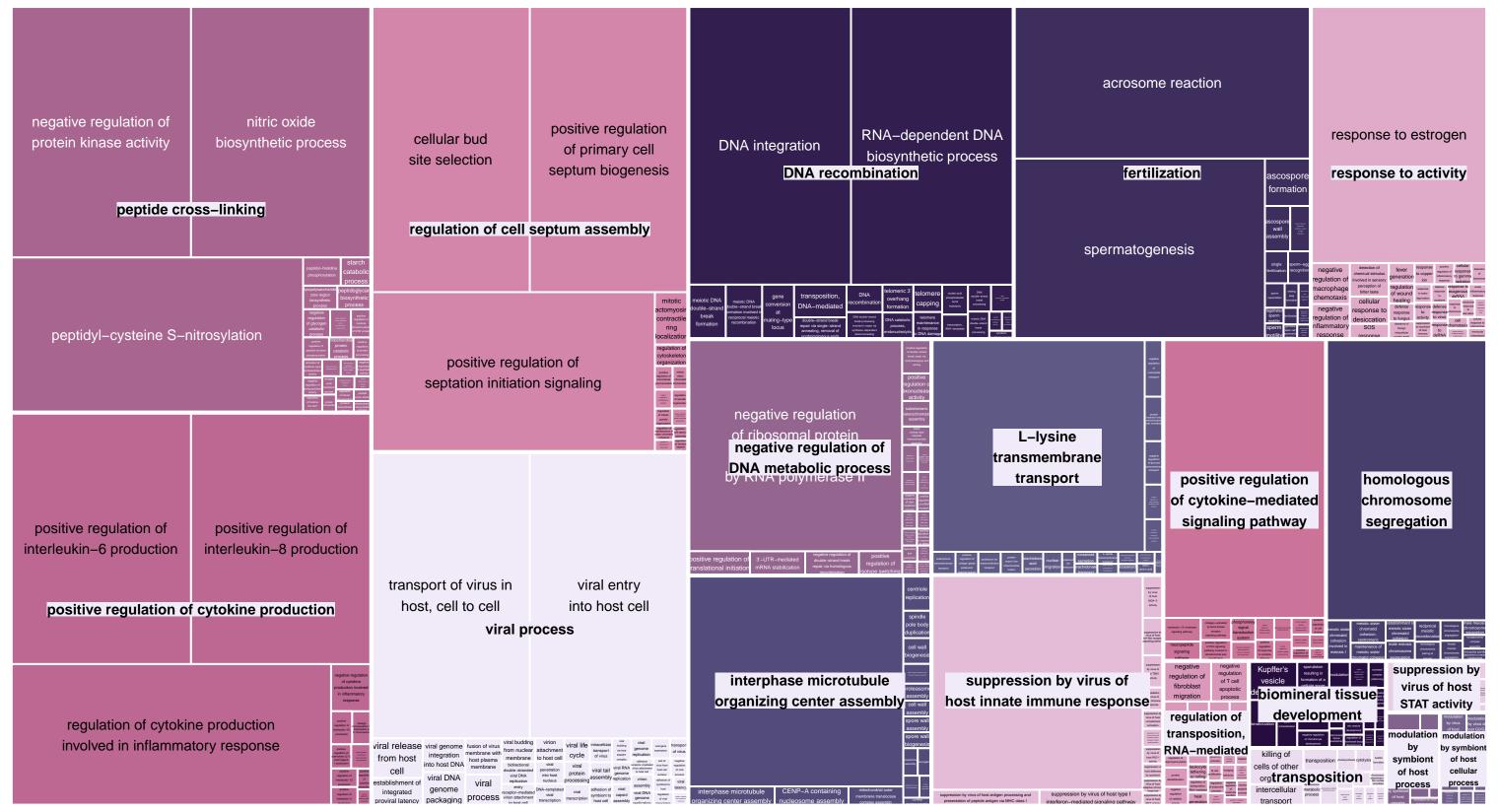
Craniata BP TreeMap

| activation | activation of innate | adaptive | complement | complement activation, | humoral immune response | humoral | adhesion of | evasion by virus of host
 | | usion of virus intrac | elilliar | on modification t by symbiont | by eymbiont | axoneme
 | cellular | cellular | centriole | cilium | common myeloid
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| tumor cell | response | response | response | inflammatory response | immune
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 | transition | | host of other | er genome | release from | assembly
 | localization | meiosis s | : | molecules meiotic sister | mitochondrial
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antimicrobial | protozoan | organism | Oi viius | n yeasi r | esponse
 | cytokinin | dimethylation | recombination | processing | process
 | hydrolysis |
| negative
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 | negative | suppression by | suppression by | suppression by | ransport of | calcium-independent f
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 | |
| of immune response to | inflammatory | natural killer
cell mediated | natural killer
cell mediated | cell mediated | regulation of T | regulation
of type I | interaction
with host | host signal
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 | regulation of
viral entry | host signal | virus of G2/M
transition of host | virus of host
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 | process | DNA m | S-nitrosylation | K63_linked | N_linked
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| inflammatory response | type immune response | response | immunoglobulin | response | | wounding | body | cycle
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 | cell adhesion
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 | cellular | detection of
molecule of | modulation by virus of | respons | of host defenses | by
 | DNA | meiotic DNA
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bond | NA-mediated
 | |
| positive regulation of | positive regulation of | regulation of | regulation of tolerance | regulation | regulation | stimulatory
C-type lectin | NA-templated
viral | virus of host
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| virus by host | production | Тезропас | immune response | upproceion e | uppression s | pathway | establishment
of integrated | modulation by | regulation of | f viral DNA | viral | virion | Appear and the second s | molecules | adhesion | ceii surrace | | | | regulation of bone mineralization | egulation of of e | 3 | ation of
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body |
| positive regulation of humoral immune | positive
regulation of | regulation of
natural killer | suppression by virus of
host antigen processing | by virus of | by virus of | by virus of | proviral | G0/G1 transition
checkpoint | viral entry
into host cell | genome | process a | ssembly | Appendix St. Application of the control of the cont | acute | cellular response to | cellular response to | cellular | cellular | cellular | involved in bone C maturation d | hondrocyte
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activity | latency | negative
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interferon-beta li | response to
ipopolysaccharide
 | negative regulation of | negative n | egative neg | ative nega | negativ | e negative
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| positive | tumor cell
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mRNA | regulation of
NF-kappaB
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regulation | endopeptidase | of double-strand
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 | stimulus | dsRNA
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lrocyte brown fat | cell adhes
 | ion | _ | of establishmen
of left/right | with mouth | vascular
plexus
 | eratinization |
| regulation of humoral | regulation of type 2 | regulation of natural
killer cell mediated
cytotoxicity directed | by virus of | virus of host type | ected against | immune = | stabilization | transcription
factor activity
 | competitive
promoter binding | g | of autophagy | activity involved in not apoptotic process | nhomologous end
joining | acute-phase r
 | Celiulai | of tumor | 4010011011 | of competence r | nflammatory
response to
 | cell-cell
adhesion | differentiation diffe | erentiation differen | ntiation differen | proliferat | ion integrir
 | proliferati | ion proliferation | asymmetry | second r | regression
 | |
| immune
response | immune | against tumor cell target | host IKBKE "
activity | signaling pathway | target t | sponse to
umor cell | activation of | negative
regulation of
 | positive
regulation of | positive regulation of | positive regulation
of NF-kappaB | positive regulation of | positive
regulation of | response
 | starvation | cell | light 1 | for
transformation | wounding
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 | positive positive | | lens | |
 | |
| | positive | | suppression | appression by virus | | | NF-kappaB-inducing
kinase activity | nitric oxide
biosynthetic
 | guanylate
cvclase activity | mRNA splicing, | transcription factor activity | biosynthetic | peptidyl-serine
phosphorylation
of STAT protein | behavioral
 | cellular | inflammatory r | esponse | response | esponse to growth
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pathway-restricted
SMAD protein
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| :ytokine-mediated | DNA damage response,
of signal transduction by p53
class mediator resulting | receptor | G protein-coupled
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kinase/NF-kappaB | immune
response–activating | negative
regulation of | negative regulation
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Ctenophora BP TreeMap



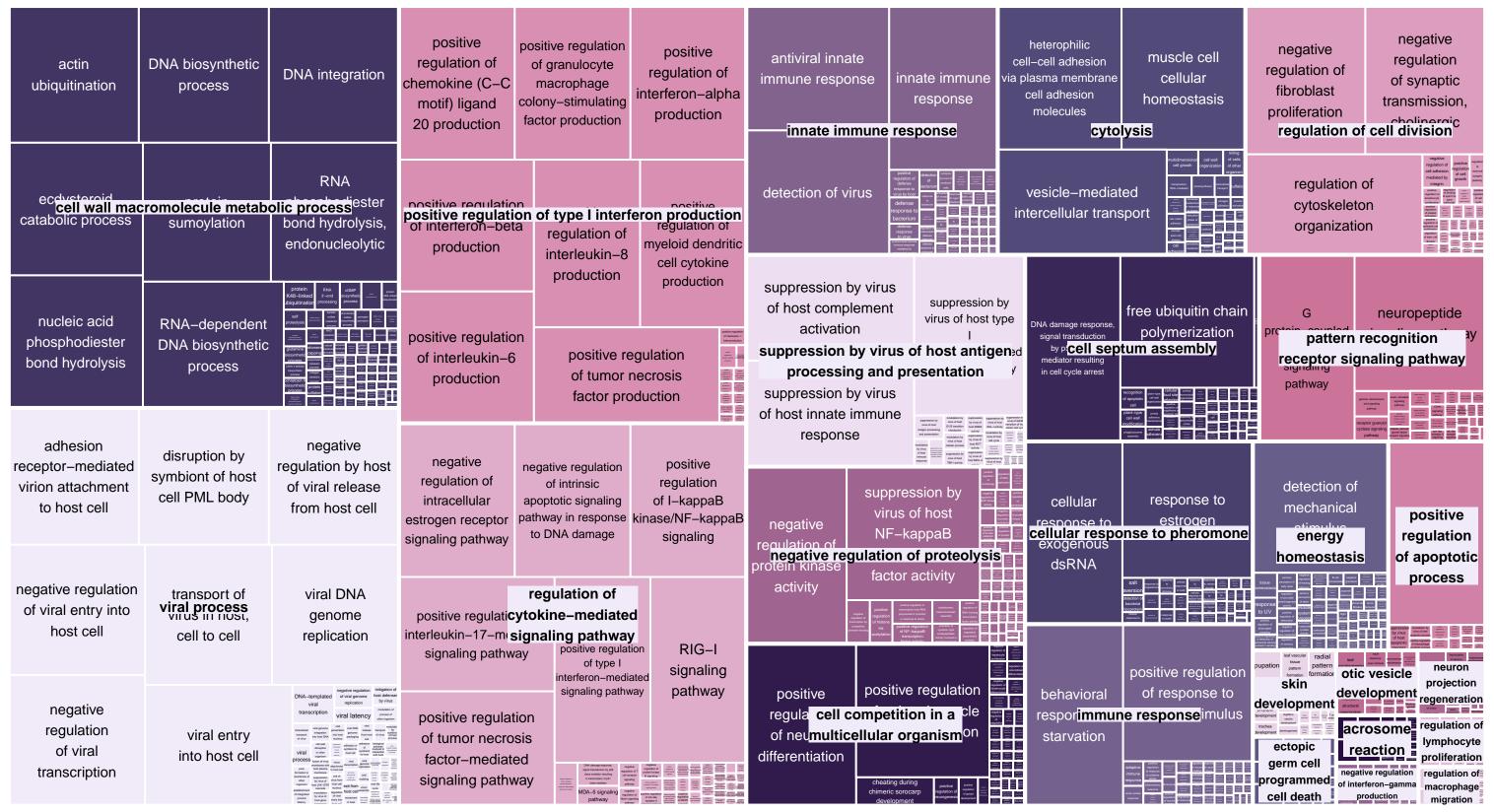
Cycliophora BP TreeMap



Dicyemida BP TreeMap



Echinodermata BP TreeMap



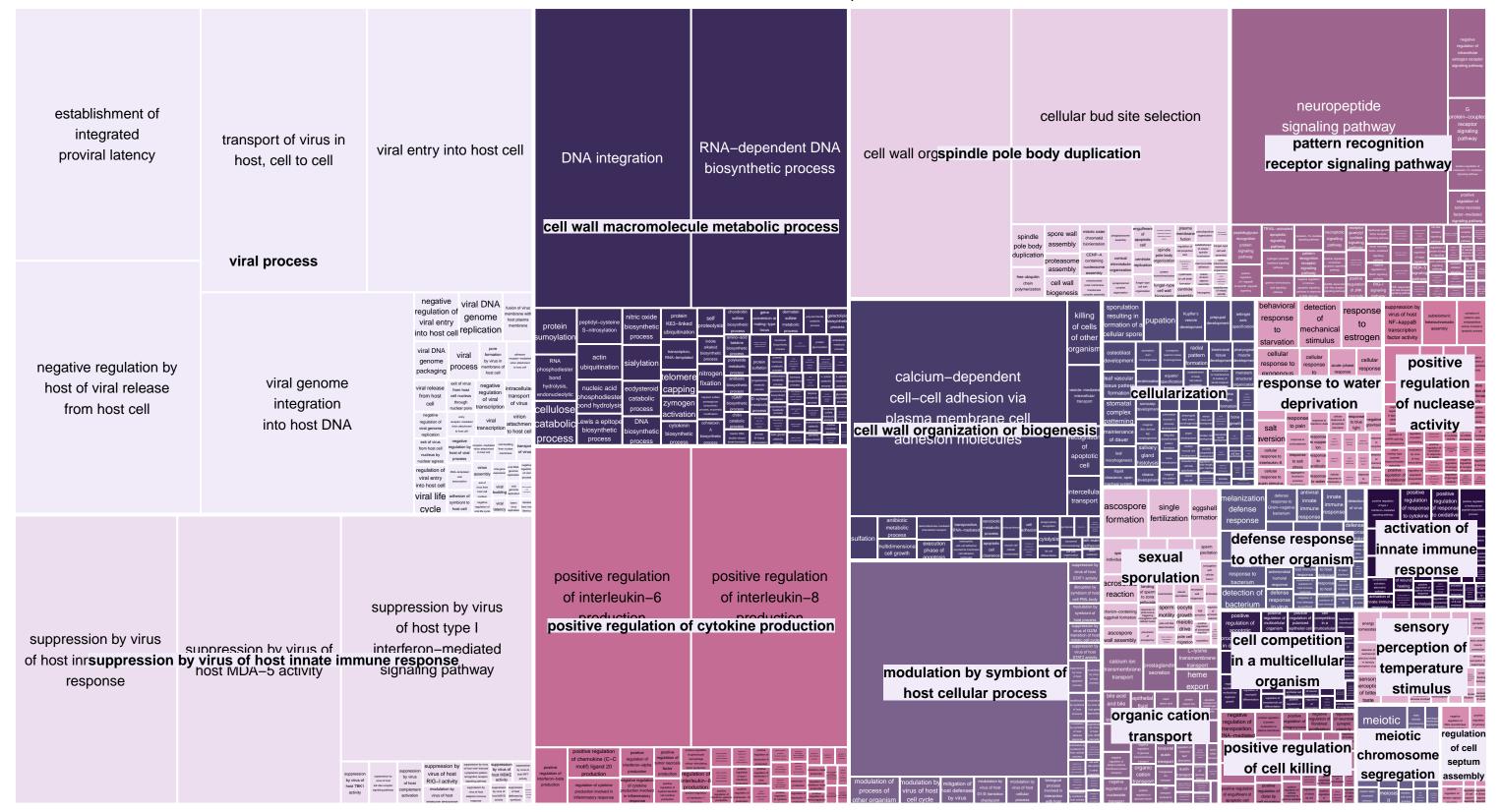
Entoprocta BP TreeMap

entry receptor-mediated virion attachment to host cell	establishment of integrated proviral latency	fusion of virus membrane with host plasma membrane	modulation of process of other organism	negative regulation of catalytic activity	negative regulation of imacrophage chemotaxis	negative regulation of T cell apoptotic process	negative regulation of transposition, RNA–mediated	DNA integration	DNA recombination	meiotic DNA double–strand break formation	cytokinin biosynthetic process	DNA unwinding involved in DNA replication	bone mineralization	keratinization
pore formation by virus in membrane of host cell	viral capsid assembly	viral DNA genome packaging	viral DNA genome replication		positive regulation of apoptotic ve regulation of	•	ation		dent			nitric oxide biosynthetic process cromolecule c process	•	osteoblast development etition in a r organism
transport of vbiological p	rocess involve into host cell	d in interactio viral process	n with host in processing	regulation of fibroblast migration negative	positive regulation of appetite positive regulation	regulation of neutrophil chemotaxis	regulation of ribonucleoside-diphosphate reductase activity	telomero maintenanc recombina	e via	sis ription ation from polymerase promoter	nitrogen fixation	terpenoid biosynthesis biosynthetic process, mevalonate-dependent	regulation of chondrocyte differentiation	stomatal complex patterning
viral budding from Golgi membrane	viral genome integration into host DNA	viral releas	replication fusion of viral	regulation of	of circadian sleep/wake cycle, non–REM sleep	of pyruvate dehydrogenase activity	positive	termination RNA polyme I transcript	erase RNA-te	ner netabolic con	peptidyl-cysteine S-nitrosylation		sporulation resulting in formation of a cellular spore	
viral budding via host ESCRT complex	viral life cycle	viral transcriptio	Note	focus assembly	chromosome localization to nuclear envelope involved in homologous chromosome segregation cortical	chromatid	regulation of centriole elongation	cellular response to auxin stimulus	cellular response to cytokinin stimulus	cellular response to desiccation	activity	Catabolic process	cell wall organization	intercellular transport
modulation by virus of host apoptotic process	suppression by virus of G2/M transition of host mitotic	suppression by virus of host antigen processing and presentation of peptide antigen via MHC class I	suppression by virus of host apoptotic process	cellular bud	spindle pole boo organization mitochondrial	dy duplication assembly	of cilium increasus chromatid ructear polymerization cohesion	detection of che stimulus inverse sensory percep bitter taste	esponse to f		reactive ox	regulation of sygen species lic process	killing of cells of cell div organism	Vision plasmodesmata-mediated intercellular transport
modulation by virus of host G0/G1 transition	cell cycle suppression by virus of host innate immune	suppression by virus of host RIG-I	suppression by virus of host STAT1	containing nucleosome assembly	outer membrane translocase complex assembly	body duplica	AND DESCRIPTION OF THE PARTY NAMED IN COLUMN TWO IS NOT THE PARTY NAMED IN COLUMN TWO	fever gener	cellular cellular response response response	en deprivatio	regulation of protein kinase activity		meiotic cell cycle egulation suppress	sion by
modulat modulation by virus of host G1/S transition checkpoint	response ion by virus of suppression by virus of host MAVS activity	suppression by virus of host TBK1	suppression by virus of host type linterferon-mediated	of cytokine re- production involved cher in inflammatory mi- response 1	positive gulation of nokine (C-C otif) ligand production production ve regulation of other positive regulation of the positive regulation regulatio	regulation of interleukin-production	of regulation of -5 interleukin–6 n production	acrosome reaction	fusion of sperm egg plasma membrane involv in single fertilization	meiotic drive	negative regulation of intracellular settlement recentor	of DNA- transcription	binding virus of on factor NF-ka regulation of netic imprinting	host ppaB ption regulation of natural killer cell
negative regulation by symbiont of host apoptotic process	suppression by virus of host MDA–5 activity	activity suppression by virus of host toll-like receptor signaling pathway	signaling pathway	beta facto	ve regulation granulocyte y-stimulating or production production production	regulation of interleukin–8	regulation of cytokine production involved in inflammatory response	ascospore formation	permatogen spermatoger	decidualization Epiam program and program	pathway via pheromone-dependent signal transduction involved in conjugation with cellular fusion	STAT DNA reputation positive (innated)	e immune respo	activation

Gastrotricha BP TreeMap



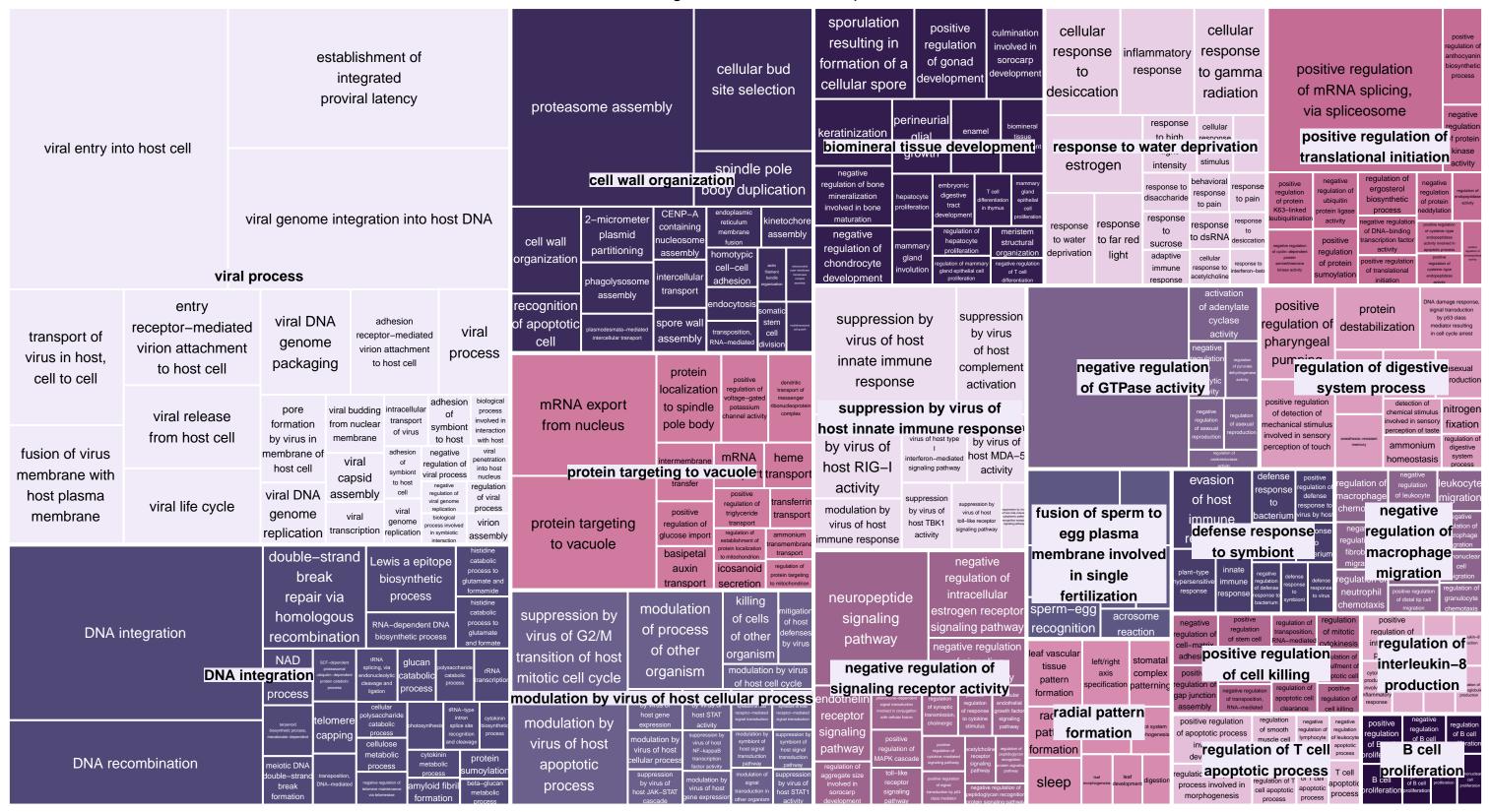
Hemichordata BP TreeMap



Kinorhyncha BP TreeMap

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adhesion receptor-mediated virion attachment to host cell	bidirectional double-stranded viral DNA replication	DNA-templated viral transcription	entry receptor–mediated virion attachment to host cell	DNA integration	DNA recombination	meiotic DNA double-strand break formation	exit of virus from host ce nucleus through nuclear pore	transport	antibiotic biosynthetic process	histidine catabolic process to glutamate and formamide	endothelin receptor signaling pathway	negative regulation of cell–cell adhesion	cell wall organization	chromosome segregation
establishment of integrated proviral latency	t viral DNA genome replication	viral entry into host cell	viral genome integration into host DNA	bond hydroly pl	nucleic acid	transcription, RNA-templated	microtubule-dependent intracellular transport intracellular	transport of virus of virus nuclear		onisin n e	negative regulation of introculturar stro signal tran gnain absence	of ligand ^y	killing of cells of other cell agg organism	meiotic regation <mark></mark> rcle
fusion of virus membrane with host plasma membrane	viral lif viral p i	rocess release from host cell	viral tail assembly	RNA boo phosphodiester bond hydrolysis endonucleolytic RNA-depender	, transposi	tion,	transport of virus in host, cell to cell	viral penetration into host nucleus	photosynthesis meval	ynthetic process,	nosphorelay of r signal sy ransduction system pla	asticity = ==================================		sicle-mediated intercellular transport
viral capsid assembly	viral process	viral transcription	virion attachment to host cell	DNA biosyntheti process	endonucle		cellular buc site selectio	n chromatid		odulation by virus modulation	401030111	tunion of approximate	cytokinin	nitric oxide
viral DNA genome packaging	viral protein processing	virion assembly	And or general and of the second of the seco	basic amino acid transmembrane transport	mRNA transport	prostaglandin secretion	cell sep	cohesion regulation of spindle tym assembly body	interaction Microbial parts	of host cellular of other orocess involved ction with host	sexual	membrane involve in single sporulation	aromatic aro	biosynthetic amino acid osynthetic cess
by virus of host to	virus of G2/M	ost antigen processing	suppression by virus of host apoptotic process	dendritic transport of messeng(<mark>lipid</mark> ribonucleoprotein complex	protein insertion into mitochondrial export from in apoptotic signaling pathway	cell sterol transport		organization duplication	of host	by virus in host cell	cheating	HORAL STATE OF THE PROPERTY OF	catabolic process	
process modulation		suppress by virus of hos MAVS MDA-8	ion suppression by virus of	L-lysine transmembrane transport	siderophore transmembrane transport		assembly behavioral	cellular response	of cytokine production involved in inflammatory	positive regulation of interleukin–8 production	chimeric sor regula	mineralization ation of bone ion	fibroblast migration cellular extraction negative regulation of macrophage	pilus-dependent
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modulation	processing and by virus of	d presentation suppress	sion suppression by	mRNA stabilization	regulation of translationa		cellular		regulation of interleukin–6	production involved in inflammatory response	a developiti	ent	Lewis a epi <mark>lipopolysa</mark>	
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regulation by	host IRF7 host	virus of virus of the STAT2 interferonsignaling	ssion by something of the state	positive regulation of mRNA splicing, via spliceosome	transcript attenuat		cellular response to gamma radiation	The column The	biomineral ti	ssue developmer	nt. protei	peption and the control of the contr	regulation regulation of g deacety catabolic	of protein activity

Micrognathozoa BP TreeMap



Mollusca BP TreeMap

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Nematoda BP TreeMap

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adhesion of	from host	virus from	membrane with	fusion of virus membrane with	intracellular	symbiont	fusion		of host	by virus of	regulation of	regulation of	cAMP-mediate	ed receptor	r apoptotic	protein-couple	DNA	DNA	DNA	break	negative regulation of cytokine	negative regulation of	positive regulation of	regulation
symbiont to	cell nucleus	host cell	host outer	host plasma	transport	of host	involved in	humoral	defenses by	host immune		defense	signaling	signaling	g signaling	receptor signaling				repair via	production involved	interleukin–17	hemokine (C-C	of
host cell	through		nuclear membrane	membrane	of virus		viral entry	response	symbiont	response	response	response to		pathway	y pathway	pathway	integration	10001112111211011	repair	homologous	response	production	motif) ligand 1 production	chemokine
	nuclear pore	nucleus		1.1.7	1.1.0	cells	into host cell	antimicrobial	·			virus by host								recombination				production
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receptor-mediated virion attachment	intracellular transport	by virus of	by virus of host	by virus of host G0/G1	by virus of host G1/S	by virus	of process	response mediated	regulation o	f by virus of host	by virus of	host innate	nterferon-gamma-mediated signaling pathway	of peptidoglycan recognition protein	regulation of positive reg	lation of regulation of	double-strand	RNA-dependent DNA	telomere	telomere maintenance	positive regulation	positive regulation of	positive regulation of	regulation of
to host cell	towards nucleus	host cell	cellular	transition	transition	of host	of other	peptide	inflammator	compleme	nt host IKBKE	immune			cytokine-mediated signaling pathway	receptor signalir pathway via STA	5	biosynthetic		via	colony-stimulating	interleukin–13 ii	nterleukin–23	interleukin–5
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activity	k	inase activity	deacetylation		behavior	Í		cell apoptotic	cell apoptotic	neutrophi						developme		development		· uc				
positive				negative				process	process	chemotax					ascospo		: al a4:				skeletal	system	develop	ment
regulation of	positive regulation	positive regulation of	positive regulation of fructose	·	positive regulation of	positive regulation of CD4-positive, CD25-positive,	positive	p100033		cellular			acrosom	ne ascosp	ore	astrocy	inductive	perineuria	al	b	iomineral	S	tomatal 1	
amyloid-beta	peptide biosynthetic	fructose 1,6-bisphosphate 1-phosphatase activity	1,6-bisphosphate	regulation	calcidiol	CD4-positive, CD25-positive, alpha-beta regulatory T cell differentiation involved in	regulation of	behavioral	cellular	response	cellular	cellular	reaction	format	wall tion .	•	SVNCVt	ium form	ationation		tissue la	ctation	omplex	
formation	process		metabolic process	of catalytic	1-monooxygenase activity	immune response	binding	response	response to	response	response	response to			assemb	ly activation	on signaling	yılal	formation of	syncytium de			atterning	
	e regulat	ion of ce	ellular 🖁	activity				to ethanol		to gamma		pheromone		female			Signaling	growth	a cellular	formation		F.	The state of the s	
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	drate me	or protein	tyrosine	of detection of	protein	of pyruvate	regulation of ribonucleoside–diphosphate	behavioral	detection of	humoral	olfootor	olfo oto m	eggshell formati		metric in single	cell fate	korotini-ati-		-		empetition in re	egulation of bone mineralization	of spindle	cellular
ectodomain			phosphorylation	mechanical stimulus involved in sensory	stabilization	dehydrogenase	ribonucleoside-diphosphate reductase activity	response		immune	olfactory	unactory		divisio	on fertilization	specification	keratinization	ⁿ wall	nodubrico and service and serv	a	multicellular i	nvolved in bone	microtubules	bud site
proteolysis	leacetylation de	eubiquitination	of STAT protein	perception of touch		activity		to	nercention of small		behavior	learning	f. 10	matin	ng meioti	C		assembly	Senescence of contract of cont	TOTAL CONTROL DESCRIPTION OF THE PROPERTY OF T	organism	maturation	400	selection
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regulation of of	vitamin D		OP-ribosylation		perception	perception			detection of	esponse	гозропас	salt		formati	1011	cell wall	containing		ter membrane translocase	oteasome	regulati	ion of	mitotic	spindle
nitric oxide bio	osynthetic		100000 page 1		of chemical .	of smell	memory	cell	chemical stimulus involved in sensory	to	to water	aversion	male	cnorm	-000	= biogenesi	s nucleosome			ssembly				_
biosynthetic process	process sup	pression by	regulation agency agenc	pumping	stimulus			chemotaxis	perception of taste	estrogen	deprivation	aversion	courtship	sperm-			interpha	se micro	tubule		e hemop	010919 = =	-	body
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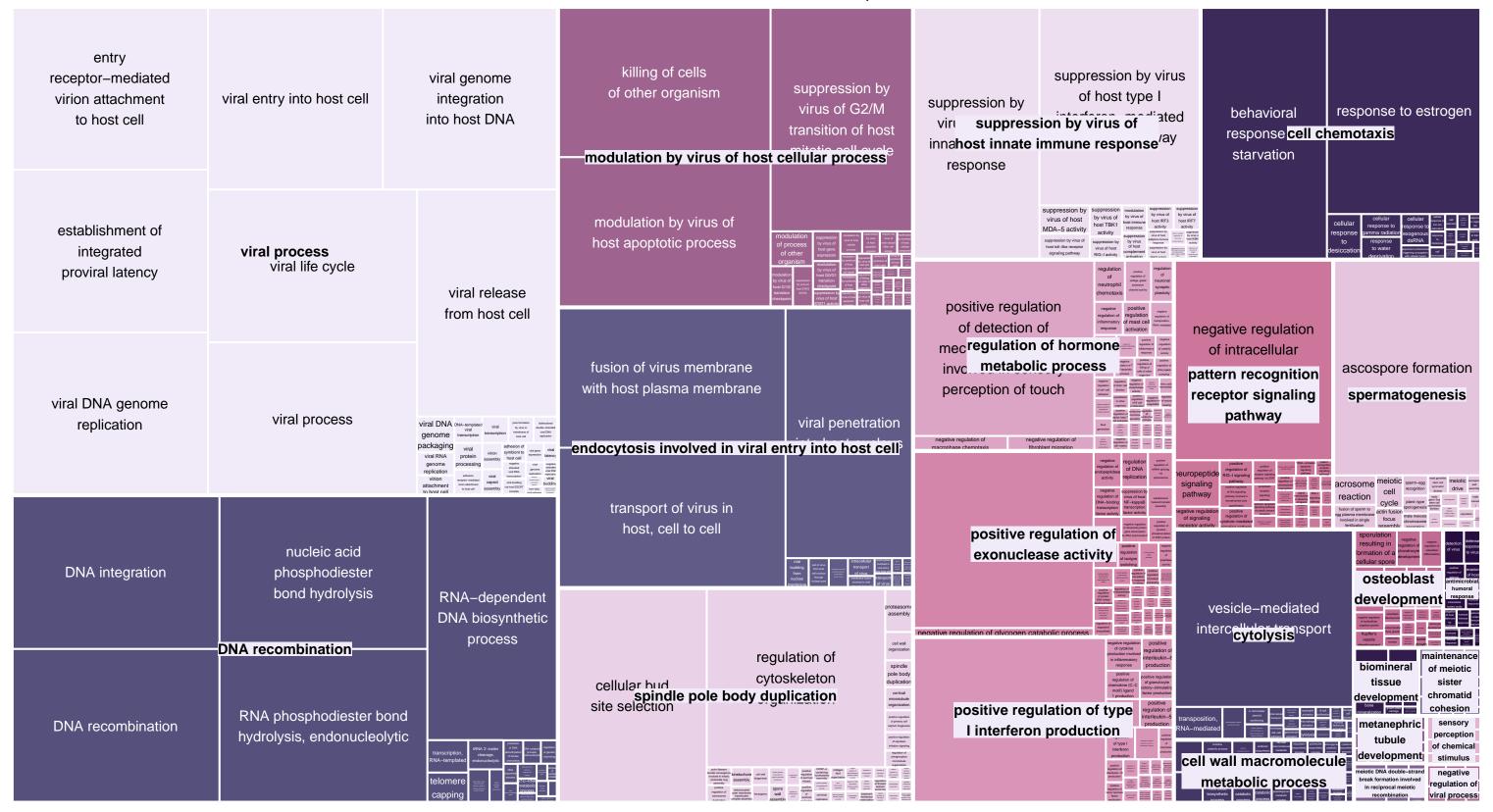
Nematomorpha BP TreeMap



Nemertea BP TreeMap

adhesion of symbiont to host cell	adhesion receptor-mediate virion attachmen to host cell		biological process involved in interaction with host	DNA-templated viral transcription	entry receptor-mediated virion attachment to host cell	cellular bud site selection	establishment of meiotic sister chromatid cohesion	establishment of mitotic sister chromatid cohesion	free ubiquitin chain polymerization	cell wall biogenesis	hemolysis in other organism	intercellular transport	killing of cells of other organism	acrosome reaction	fusion of sperm to egg plasma membrane involved in single fertilization	mating type switching	3'-UTR-mediated mRNA stabilization	positive regulation of mRNA splicing, via spliceosome	positive regulation of telomerase activity positive
establishment of integrated proviral latency	intracellula transport of virus	7	n modulation at by symbiont of host process		negative regulation by host of viral release from host cell		maintenance meiotic siste chromatid	positive regulation of sontation	assembly	cell wall organization	localizatio cell cycle			ascospore	meiotic drive spermatogene sperm	male germit stem cell symmetric division	negative regulation of regulation geregulation by RNA polymerase II	regulation of telomere capping on of genetic positive regulation of translational	virus of host
exit of virus from host cell nucleus through nuclear pore	negative regulation of viral transcription	transport of virus	viral budding from Golgi membrane	membrane	viral budding via host ESCRT complex	centriole replication cortical	mitochondria outer membrar translocase complex assem positive regulati	spindloplication		cytolysis	plasmodesmata-mediated intercellular transport	vesicle-media intercellular transport	1907 - 100 -	egg activation	sperm-egg recognition	spermatogenesis susual properties of the second sec	positive regulation of exonuclease activity	subtelomeric heterochromatin assembly	NF-kappaB transcription factor activity
exit of virus from host cell nucleus	pore formation by virus in membrane of host cell	VIRAI DINA	overession	viral genome integration nto host DNA viral	viral life cycle	organization endothelin receptor	of primary cel	. presse	neuropeptide	negative	regulation of		n positive regulat	humora humora humora respons	al respons	e actin ubiquitination	peptidyl-cysten		detection of chemical stimulus involved in sensory perception of bitter taste
fusion of viral membrane with host outer nuclear	pore formation in membrane of other	–	viral penetration into host nucleus	release from host cell	viral transcription	signaling pathway	apoptotic signaling pathway in response to DNA damage pheromone-depen	of Notch signaling pathway	signaling pathway	negative regulation encopeptica activity	n of prote se protein K6	3–linked er		respons of oth	se to defense ner organism		a epitope etic proces	CHETTIC	onse to onse omone o
membrane with	organism transport of virus in	viral	viral process viral protein	virion assembly virion	Value Valu		pattern receptor signal	ognition ling pathw	TRAIL-activated apoptotic signaling pathway	negative regulat of glycogen catabolic proce	positive re of tyro ss phosphory STAT p	gulation particular pa	process	evasior host imm	NUMBER OF STREET	glycosylation	on = = = = =	copper io	to solution to sol
membrane modulation by virus	host, cell to cell modulation by virus of	host cell suppression by virus	processing suppression by virus	attachme to host co suppression by virus of	nt season	negative	nterleukin-17-med signaling pathwa positive regulation o	diated vasculary vasculary endothe	elial actor	of cytokine production invol- in inflammator response	ved positive regulat	regulation interleukin-	13 interleukin-	-5 Tespirati	Ibiosyntheti	c regulation	regulation o cytoskeletor organization egulation	regulation of fibroblast mi(regulation	of voltage-gated potassium channel ion of ion
of host apoptotic process modulation	host immune response positive	of host apoptotic process suppression	of host complement activation suppression		host IKBKE activity suppression	intracellular estrogen receptor signaling pathway DNA	RIG-I signali pathway		meiotic DNA	motif) ligand production	cytokine	productio	in .pe	positive egulation	olic process biosynthetic proces mevalonate-depend	positive regulation of release of cytochrome c from mitochondria	killing	reg tran of T cell apoptotic	embrane sport
of host cellular process modulation	regulation of syncytium formation by virus nodulatio suppression by	host innate immune response n by virus	host MAVS activity of host cells	host MDA-5 activity	host RIG-I activity	process	ecombination	nating-type locus	break formation	positive regulati of chemokine (C motif) ligand 2 production	positive r of interl	eukin–8	sporulation		negative		ulation of _{regulati}	gative negative negative regulation of	behavioral response to starvation
by virus of host G0/G1 transition checkpoint	virus of G2/M transition of host mitotic cell cycle	suppression by virus of host IRF3 activity	by virus of host STAT1 activity	by virus of host TBK1 activity	virus of host toll–like receptor signaling pathway	break processing	posphodiester DNA recom hydrolysis	nbination process	telomere capping	keratinization	nodulation	assembly	resulting ir formation of a cellular	generati negative	activity e regulation o	response che activation immune res	n of dit	egulation of he had not been determined as the had not been de	response deprivation
modulation by virus of host G1/S transition checkpoint	suppression by virus of host adaptive immune response	suppression by virus of host IRF7 activity	suppression by virus of host STAT2	by virus of host type I interfe	of host type I oron-mediated aling pathway	integration		Inscription, sp A-templated red and	intron blice site cognition I cleavage	Kupffer's vesicle	osteoblast developmen	stomata complex patternin	March	regulation of pyruvate dehydrogenase activity	ular function ribonucleoside-diphosphate reductase activity	positive regulation of detection of mechanical stimulus involved in sensory perception of touch	cho	rentiation myeloid leu	pallular

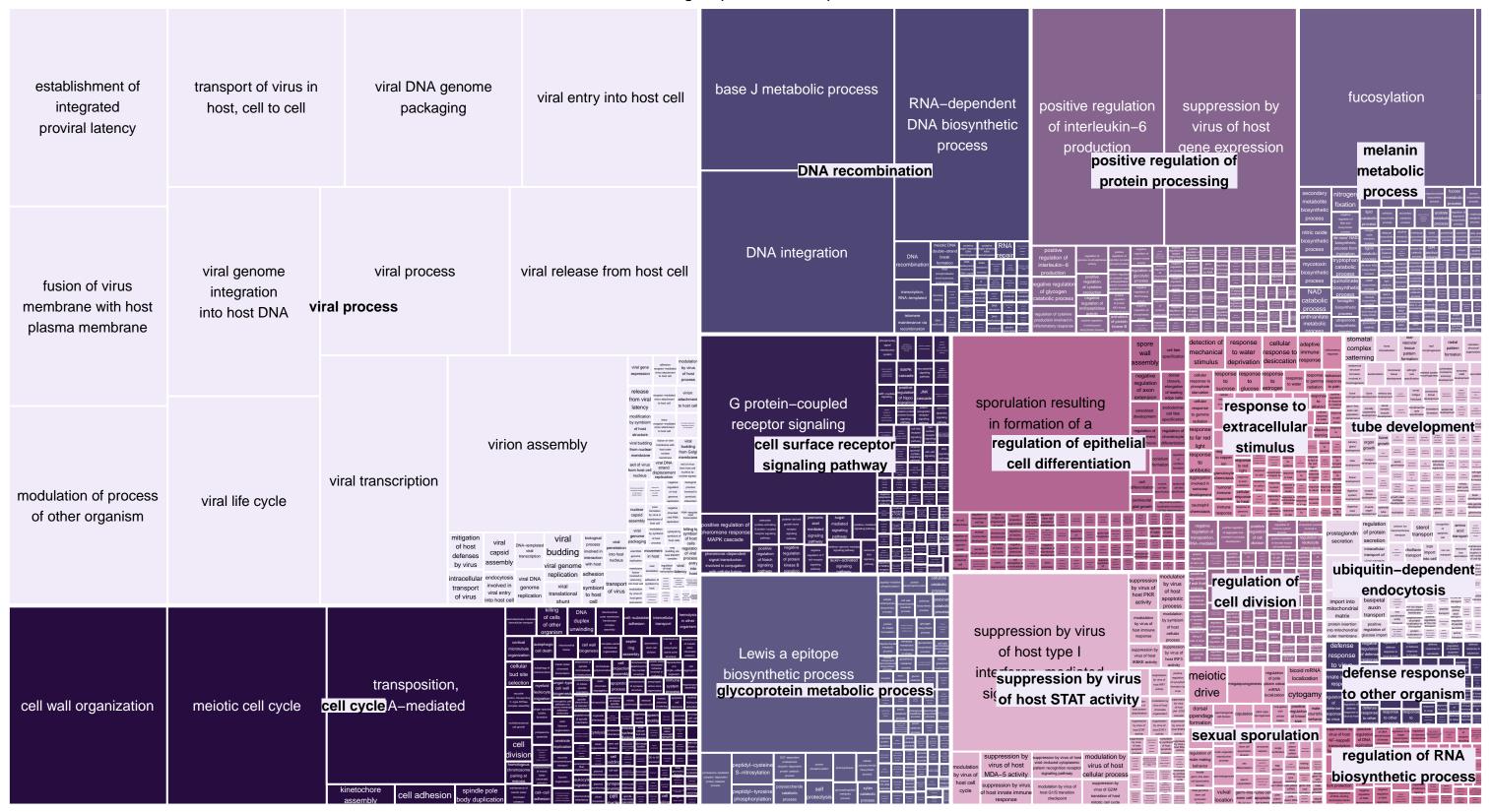
Nemertodermatida BP TreeMap



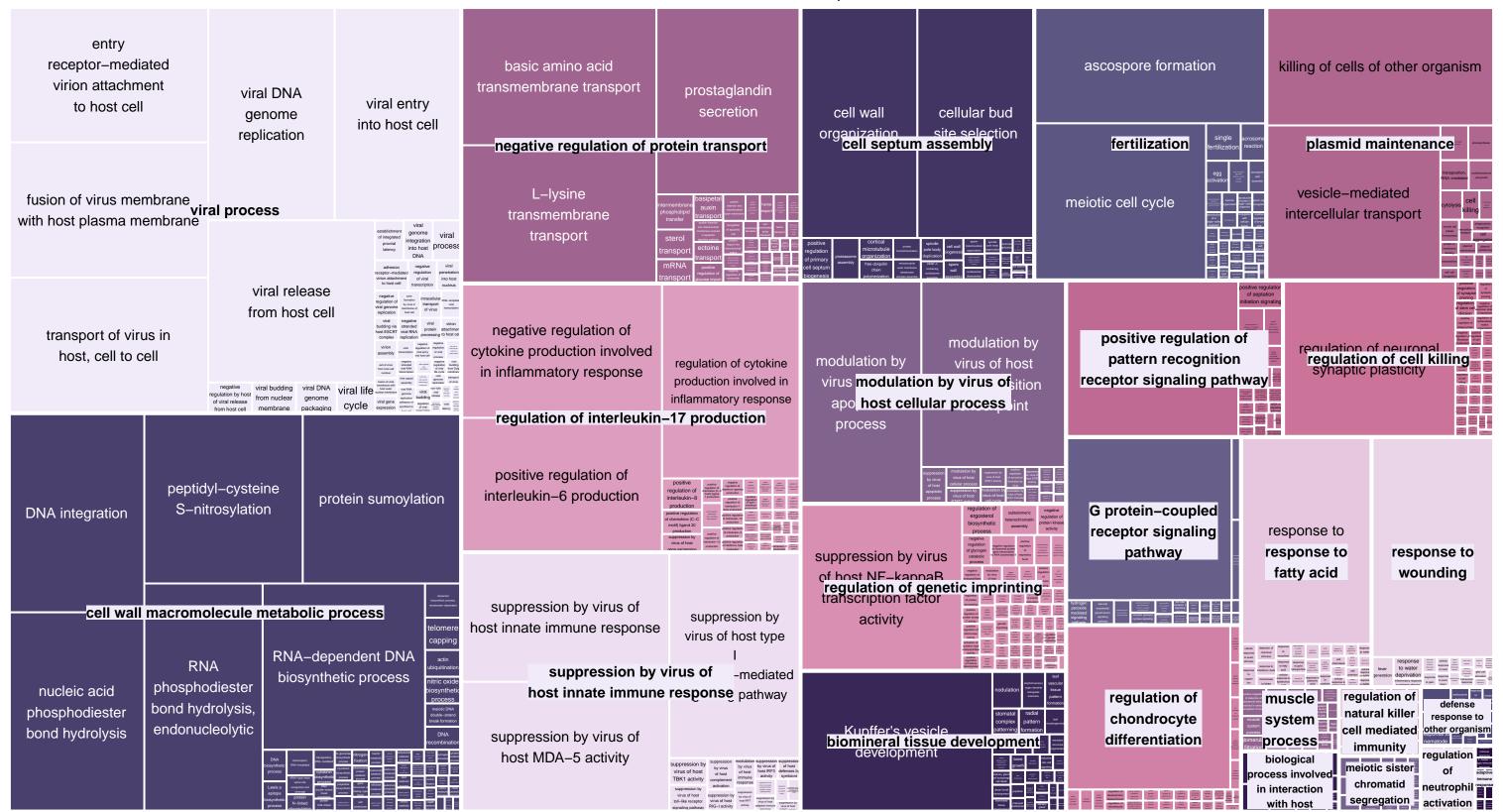
Onychophora BP TreeMap

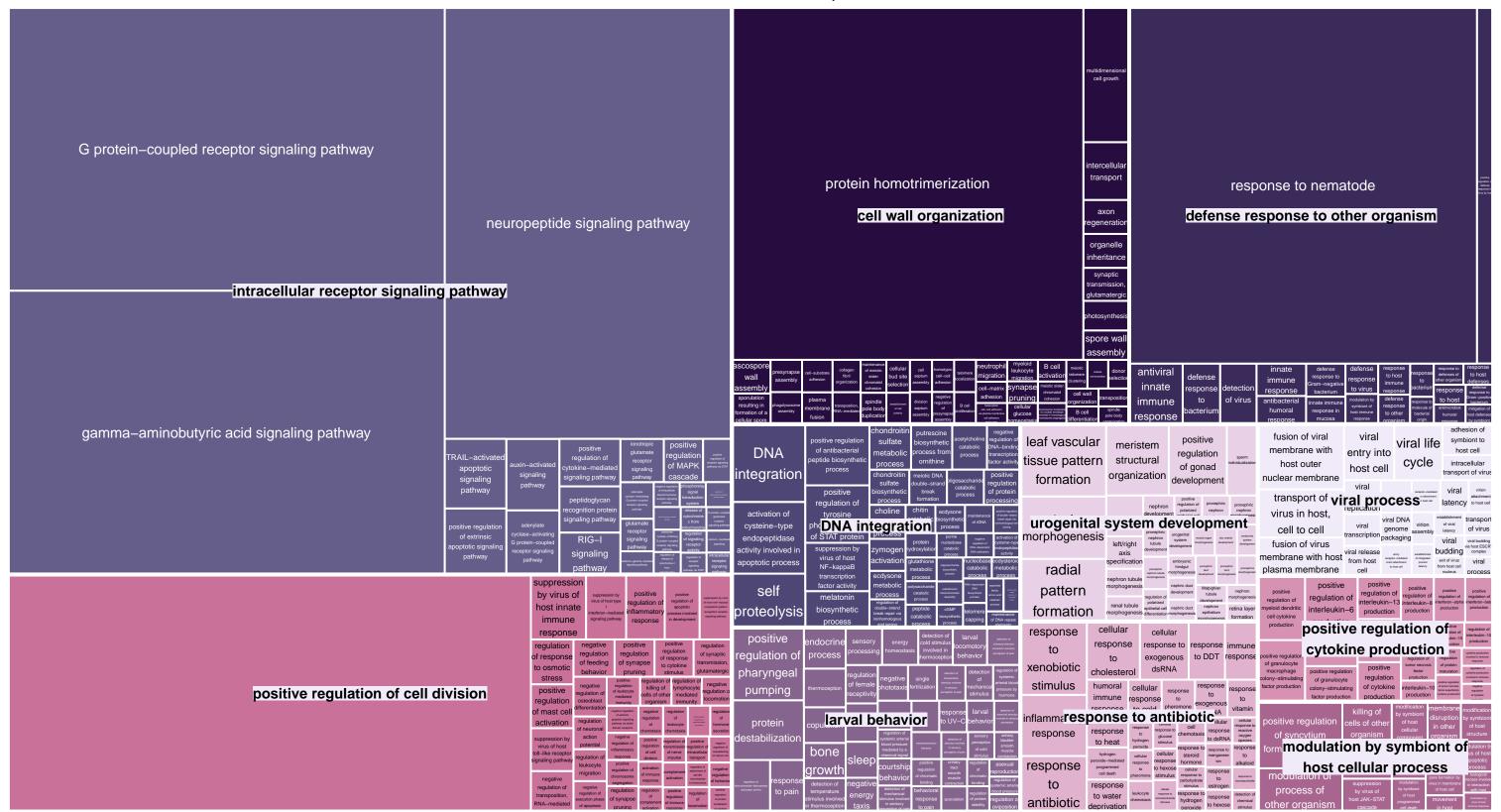
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adhesion of symbiont to host cell	establishment of integrated proviral latency	exit of virus from host cell nucleus through nuclear pore	fusion of virus membrane with host plasma membrane	extrinsic anontotic	negative regulation of protein localization to nucleolus	neuropeptide signaling pathway	maintenance of meiotic sister chromatid cohesion	meiotic cell cycle	meiotic sister chromatid cohesion involved in meiosis I	cellular bud site selection	deactivation of mitotic spindle assembly checkpoint	positive regulation of translational initiation	suppression by virus of host gene expression	negative regulation of protein kinase	peptidyl-cysteine S-nitrosylation
intracellular transport of virus	transport of virus in host, cell to cell	viral DNA genome packaging	viral DNA genome replication	negative regulation of signal transdufibroblast migration	pheromone-depender Iction in abse Involved in conjugation with cellular fusion		meiotic sist male meiosis chromosome	spindle	d segregation reciprocal meiotic ecombination	rec <mark>septum a</mark> exit from mitos	on of cell tive assembly ation of septation initiation	of host t	on by virus ranslation on by virus of host NF-kappaB transcription		tion of -tyrosine orylation
negative regulation by host of viral transcription	viral pro	viral life	viral penetration	negative regulation of intracellular estrogen receptor	positive regulation of release of cytochrome c from					positive regulati of primary cel septum biogene	positive regulation and regulation a	suppression virus of hos IRF7 activi	st	proteir sumoylat	1980 1980
pore formation by virus in membrane of	11001 0011	cycle	into host nucleus	modulation by	mitochondria modulation by virus of	suppression by virus of G2/M	cell wall modification	centriole replication phase micro	karyogamy tubule	negative regulation of cytokine production involved in inflammatory	positive regulation of interleukin–6	acrosome reaction		negative egulation of telomerase	regulation of DNA replication
host cell positive regulation by host of viral	viral genome , integration into host	release	viral RNA genome eplication proces control of the	apoptotic process	host G0/G1 transition checkpoint suppression ation by symb	iont of	cell wall	ring center and an analysis of the control of the c	ribosome disassembly	regulation of inflan	kin–13	ascospore mer	mbrane involved = C	activity regulat transcri PONA-ten of telomere	ion of iption, nplatedbe cassette
transcription DNA biosynthetic		gene	maintenance	cell cycle	cellular proc apoptotic process	ess virus of host STAT2 activity	DNA	NAD	negative regulation	interleukin–8 production			fertilization =	via elomerase	erochromatin assembly
process	maintin DNIA	mating-type locus	of rDNA	virus of host cellular process	suppression virus of hos STAT1 activi	modulation by special strain of the control of the	me	catabolic process eto-sphinga etabolic proc	biosynthetic anine process	defense response to fundus respons	plant-typ hypersens respons se to defenses	itive 3'-UTR-m e mRN	NA mRNA cataboli process, no-go decay	regulation	positive regulation of plant-type ation of ve
DNA catabolic process, endonucleolytic	double-strand break formation involved in	phosphodieste bond hydrolysis	RNA-dependent r DNA biosynthetic process	suppression by virus of host adaptive immune response	by virus of	suppression by virus of host RIG-I activity	lipopolysaccharide core region biosynthetic process	nitric oxi biosynthe proces	de = = = = = = = = = = = = = = = = = = =	of oth	er organism symbiotic fungus	Section of	egulation of etic imprinting ositive ulation of	defense to viru positive re	e response s by host egulation signaling
DNA double–strand break processing involved in repair via synthesis–dependent strand annealing	meiotic DNA double-strand break formation	telomere capping	transcription, RNA-templated	innatchost inna	ression by vir	us of	basic amino acid transmembrar transport	mRNA transport		killing of cells of other organism	transposit RNA-medi	ion, ated	nuclease activity sortion atinization	path	way pe intron
DNA integration	meiotic DNA double-strand break processing	telomeric : overhang formation	double-stand maintenance service servi	suppression by virus of host MAVS activity	suppression virus of hos toll–like rece signaling path	st ptor	L-lysine transmembrar transport	protein inse	ertion into	transposition	vesicle-mediate intercellular transport	ed spc mo	ryous system rphogenesis mation of a ular spore	splice recognit cleav	ion and

Outgroup BP TreeMap



Phoronida BP TreeMap

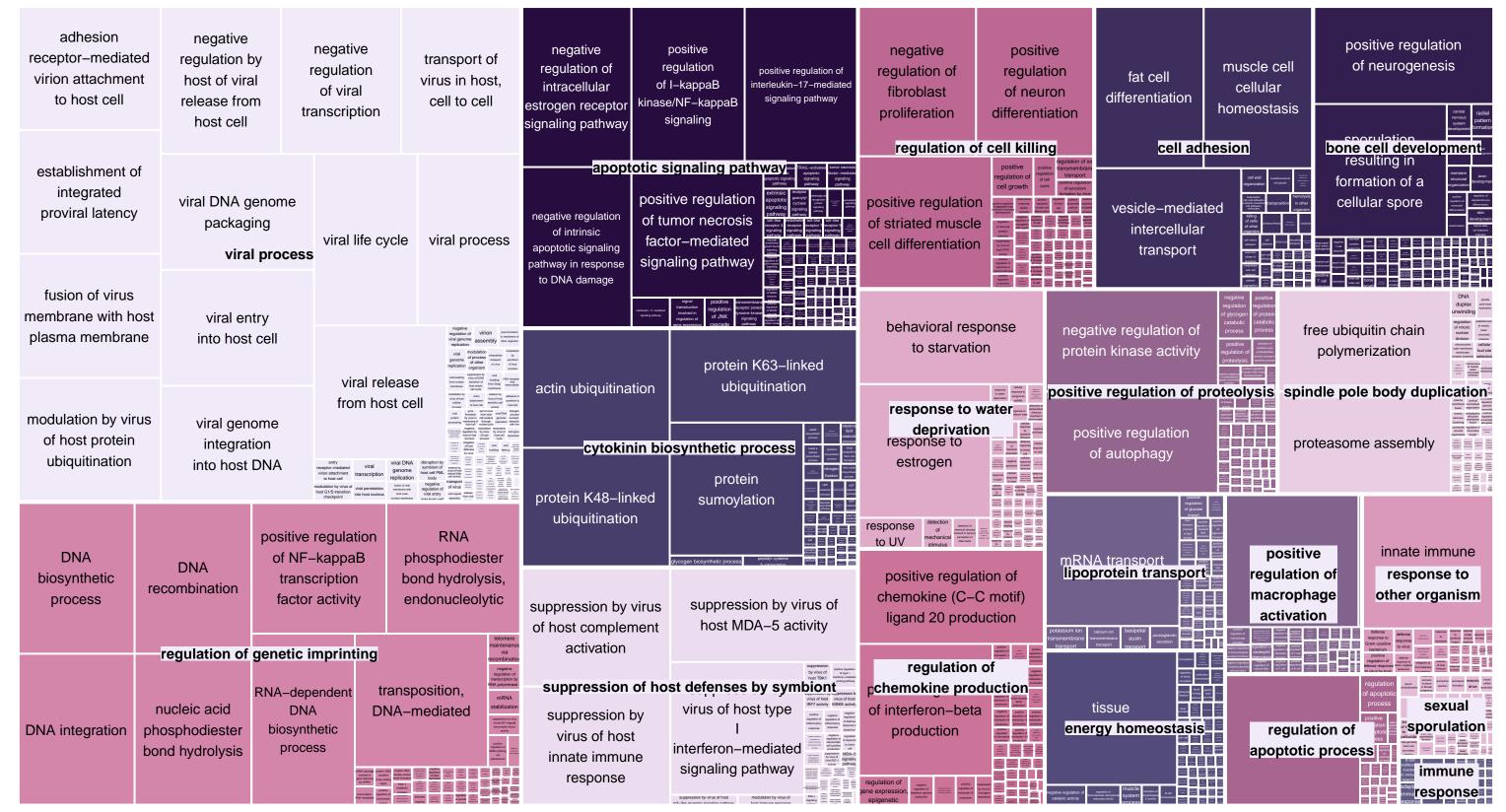




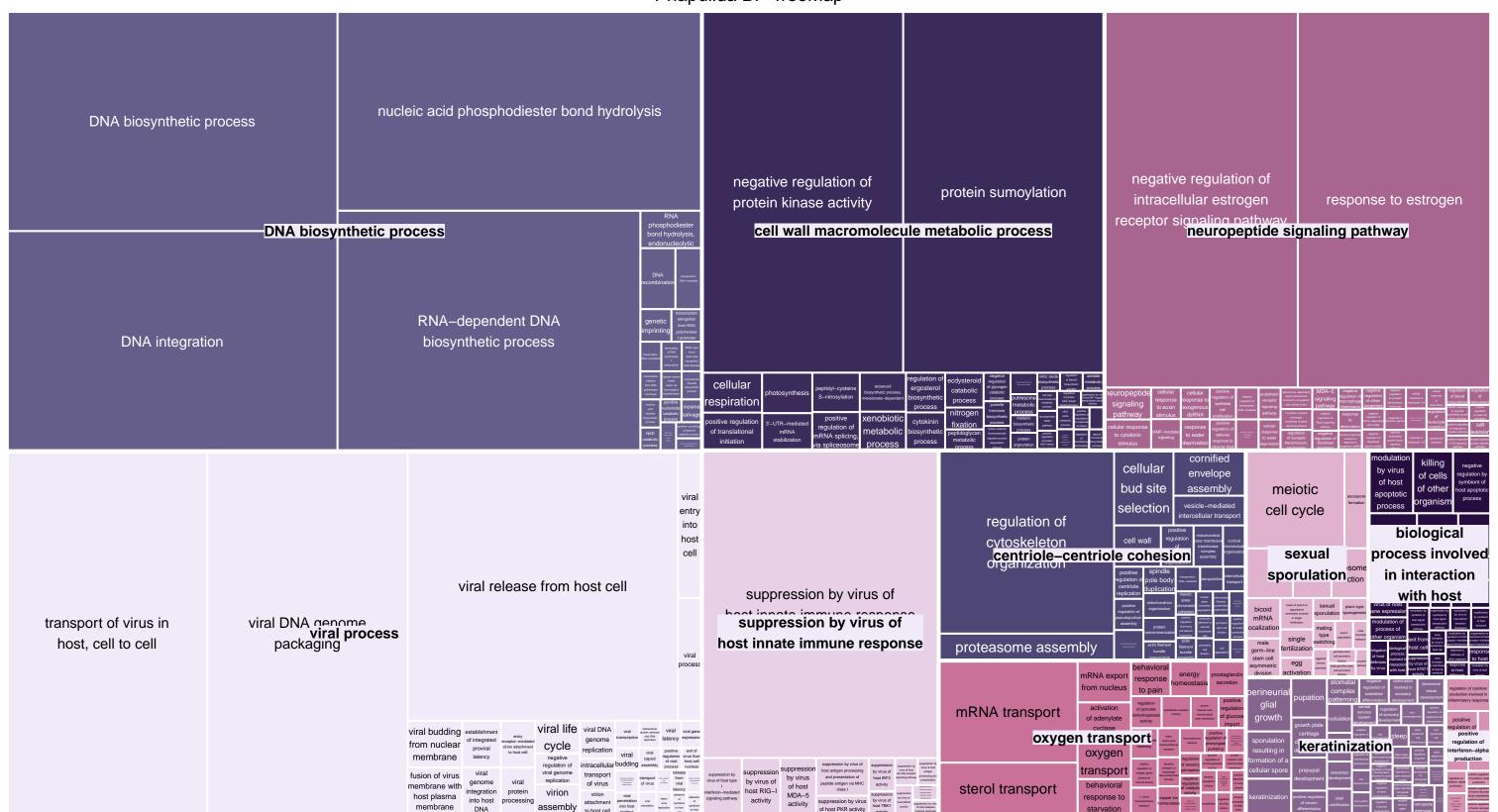
Platyhelminthes BP TreeMap

Second Control Contr													αι , σ .				Γ										
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Column C	adhesion of				process	process	clathrin-dependent	actiii iusioii			kinetochore		attachment	chromatid	adaptive	complemen	regu	lation of regulation	Of all LITE and lated		regulation	negativ			regulation of	regulation of	regulation
Second S	symbiont to				involved in	involved in	endocytosis of	focus	microtubule	karyogamy			of telomere	cohesion	immune		immune activ	ation of	mPNIA.	-	of DNA	break		oduction involved :	-		
War	host cell	symbiont			interaction	interaction	virus by host cell	assembly	organization		assembly				rocponco	activation	rocponco	librane	stabilization	of DNA	metabolic O	f DNA hom	mologous	ar imarimator y			
		to host		·	with host	with symbiont		,					envelope	meiosis I	response		, , , , , , , , , , , , , , , , , , , ,	complex respons	}	demethylation	process rep	olication	ombination				
March Marc		endocytosis		ostablishmont		exit of virus	exit of			meiotic		positive		positive	negative	positive		suppression	ру					F	1		•
March Marc	DNA-templated					from host	virus from	aggresome	mitotic spindle	telomere	peroxisome	regulation		regulation of	regulation of	-	regulation of		negative regulation	0	positive		otection re	egulation	·	•	
	viral			· · · · · ·		cell nucleus		assembly			inheritance	of centriole		microtubule	macrophage		inflammatory .	immuno	of ribosomal protei	n of double-strand	regulation of regulation	J	of DNA of	of cytokine			
Column C	transcription	•			•	through	nost cell		checkpoint	clustering		elongation	centromeric	polymerization	chemotaxis		response	notaxis	gene transcription by RNA polymerase	break repair via nonhomologous end			ethylation	т р	roduction	production	production
		into host cell		latericy	nacioai ogroco	nuclear pore	nucleus	cellular	establishment of	mitochondrial	positive	- Januari	rogulation		Onemotaxis					joining	activity sp			Toduction			
Second Color Col	fusion of viral			membrane	membrane	mitigation	modification			outer membrane		regulation of		sister					Dy negative				nacioad	ocitive regulati			positive regulation of
Column C	membrane with		intracellular	disruption	fusion	of host	by symbiont	bud site	chromatid	translocase	of primary		Of	chromatid	negative regulation of pentidoglycan	nega	tive regulati	on virus of hos	t regulation	negative	e regulati	ion of	po	of granulocyte re	gulatior	of type	umor necrosis
Company Comp	host outer		transport		involved in		of host	selection				orani-otion			recognition protein			RIG-I activi	V telomere	_	_		col	olony-stimulati			factor
Part			of virus				cellular		regula	ation of c	cell sept	um asse	mblytion	Dionemation	signaling pathway	of im	nune respo	ารย	maintenance D	NA met	abolic pı	ocess:	rochromatin	ector productic inte	rferon r	oroductic	on production
Column C	membrane			organism	into host cell	by virus	component		establishment of	mitotic							suppress	ion by suppression b	telomerase			a	assembly			***	
Part	modification	modulation	modulation	negative	pore						-		synaptonem	nal vacuolar		suppression by	by virus of virus of	host	negative		- 1			positive	ositive po	ositive	
## PROPERTY OF STATE	by symbiont	by virus	of process	J	formation	receptor-mediated	regulation	nucleosome		contractile ring		pole body	complex		negative regulation of type I		TRK1 a	rtivity	regulation of	regulatio	∩			regulation of			suppression
Second S		.,			by virus in		of viral	assembly	conesion	localization		duplication	assembly		interferon-mediated	anugen processing and	nost innate	3ignaing pain	transcription by	of recent	or suppression	Dy	int	iterreron-beta		interferon-ga	n of by virus of
Certificity County of the Coun		UI HUSI	or other		membrane of	to host cell	transcription		homologous	mitatia sistar					signaling pathway	presentation	suppress		and the same of th		virus of ho	virus of ho		production pro	oddollori	production	ion host gene
Color Colo		process	organism	replication	host cell			centriole	chromosome		proteasom	e spindle	100000 100000 100000 100000 100000				interferon	The second secon		recycling		імг-карра	aB = E		proc	duction	expression
Solicitics process involved in symbolic interaction from the process of the proce	modulation	release			viral	viral	inal DNIA	replication	pairing at	chromatid		pole body	chromosome				suppression signaling			regulation of	f Ture delivi	·	vity	р	ositive		
	biologi	cal proc	ess inv	olved in	symbio	otic inte	eraction	replication		biorientation	assembly	organizatio	n		positive regulation of CD4-positive,		by virus of suppression		nuclear-transcribe	a C	suppression	by		regulation of reg	ulation of regulati	tion of cytokine	NAME OF TAXABLE PARTY.
Column C	of host	TION VIII	II IIOM nucleal	mom piasma		capsid	genome			monopolar	protocooms	J. ga. iizatio		華田幸富田田舎田			Сарріссової	d cytoplasmic					inte	nterferon-gamma inter	rleukin-6 producti	natory response	
THE PARTY OF THE P	process	latency	membrane	membrane		assembly	packaging	chromosome localization				spore wa				complement	activity pattern recog	nition receptor	decay			The same of the same of the same		production pro	oduction		
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The state of the control of the cont	programmed		genome	integration	genome	genome		activation of	negative		p	ositive regulation	positive	positive	reaction	formation	waii copi		cytokinin	to	in other	migration	signaling	\a	involved in conjugat		d receptor signaling
The state of the s	cell death	signal transduction	replicatio	n into host	packaging	replication	latency		regulation of			_	regulation of	regulation			assembly	partitionin		nheromon	organism	mgration	pathway	_	· Willi Colloid TodalOi	signaling pathway	y pathway via STAT
Comparison Com			viral DNA	DNA		'	, i		phosphatase	in inactivation of protein kinase activity			histone H4	of isotype								_		nogotive	الساق		
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wild of wild be a property of the property of			replication	Cycle		_{ng} from hos	Streplication	cysteine-type	regulation of	regulation of m		- T			rertilization				anobyto	aotivati	J V	Calvation		. ogala		Jigi iaiii ig	signaling
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Posperson symbol and the symbol and	cellular	of virus	entry int	0 '	vir	al v	ririon	no notive	pogativo	positive	positive	p00.10			stem cell		- sermarius	anderived ear	to gamma				signaling pathway			aved iii	aled
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Process development of the process o		DNA				double-strand	d		species biosynthetic				acti	vity ADP-ribosylation	ocparation			print print and	CD8-positive				myoloid	/ I	clearance of	defense	defense
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The periodic of the periodic o	process			replication	-,		nonhomologous ends	·	negative		positive re				determination	fertilization						air	merentiation	response	nucleic acids	to fungus	to virus
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Diosynthetic process p	DNA	alucosinolate	nucleic acid	rhodopoin	RNA	RNA-dependent	SCF-dependent				ام	cells of other						a latina	industive	liquid					host immune	host immu	une
Process proces		U	phosphodiester				proteasomal	modulation by				organism	activation		I –lysine	phosphatidylserine	positive		inductive		etenhlast	-1000-	差		·	response	e =====
Integration of process integration of process of proces		nrococc	bond	biosynthetic	bond	biosynthetic	protein catabolic			negative		regulation of	rogulation	regulation	transmembrane		requiation of		cell-cell	open de	evelopment patt	erning					
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DNA catabolic process, endonucleolytic recombination process and process of the p	nuc	<u>eic acid</u>	a pnosp	nodiest	er bond	<u>nydrol</u>	ysis					-	macrophage	9 .		Cell sunace	into nuclous		Signaling	system	cleavage teacher to question a	Manage Ma		response	host immune	interferon-gar	amma
process endorucleolytic recombination of some requisition of companies of some regulation of specific regulation o	DNA catabolic			4010	telomeric			process	migration	J p. 00030	proliferation	organism	migration				protein	attachment	of						response		
endorucleolytic recombination stand annealing process of integration of process. DNA double-stand break processing process of a damage. DNA double-stand annealing process of integration of integratio	process,		peptidyl-cysteine	telomere	3'	terpenoid	transcription,	modulation by	negative	positive regulation				plasticity	monosaccharide	notassium ic	n ii protei	n insertion					-1 **	cell	negative	positive	positive
DNA manney-incestand processor integration of integ		recombination	S-nitrosylation	capping	overhang	biosynthetic process, mevalonate-dependent	RNA-templated		or DOS	itive rea	ulation	f cell kill	inappressi	ion suppression				ne involved microtubul		CVICIVS	IS cell	photosynthesis		competition in	regulation of		regulation of
Lewis a epitope protein processing processin				- capping					localization	itive regu	ulation C	OI SVINSION	IC by virus				matrix. in a	poptotic	3	""		p	partitioning	a multicellular	r multicellular	r .	osteoclast
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DNA integration in		process				and cleaved			muście cell	electrical coupling	a		ost		nucleus		outer membrane					transposition,	intercellular				
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checkpoint process checkpoint process envelope matrix Secretion process envelope matrix		mannosyl-inositol phosphorylceramide biosynthetic process	meiotic	1	tRNA threonylcarbamoyladenosi modification	ine E i E E		VIRUS OF HOST G1/S transition		regulation of		apoptotic				mitachandria	of insulin		. the muslean	cells of oth	transpositi	on E		chondrocyte	of gonad	of bone	

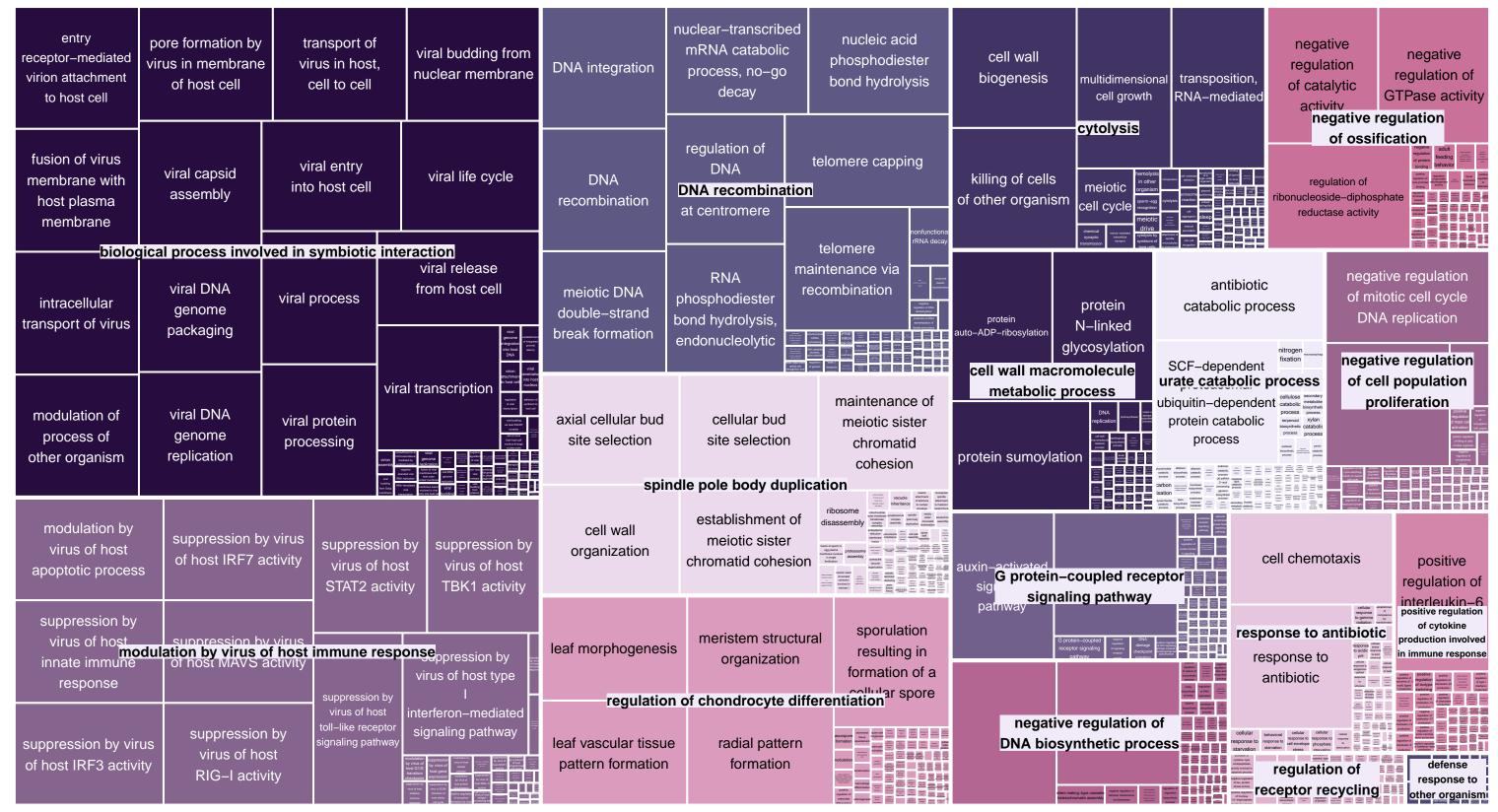
Porifera BP TreeMap



Priapulida BP TreeMap



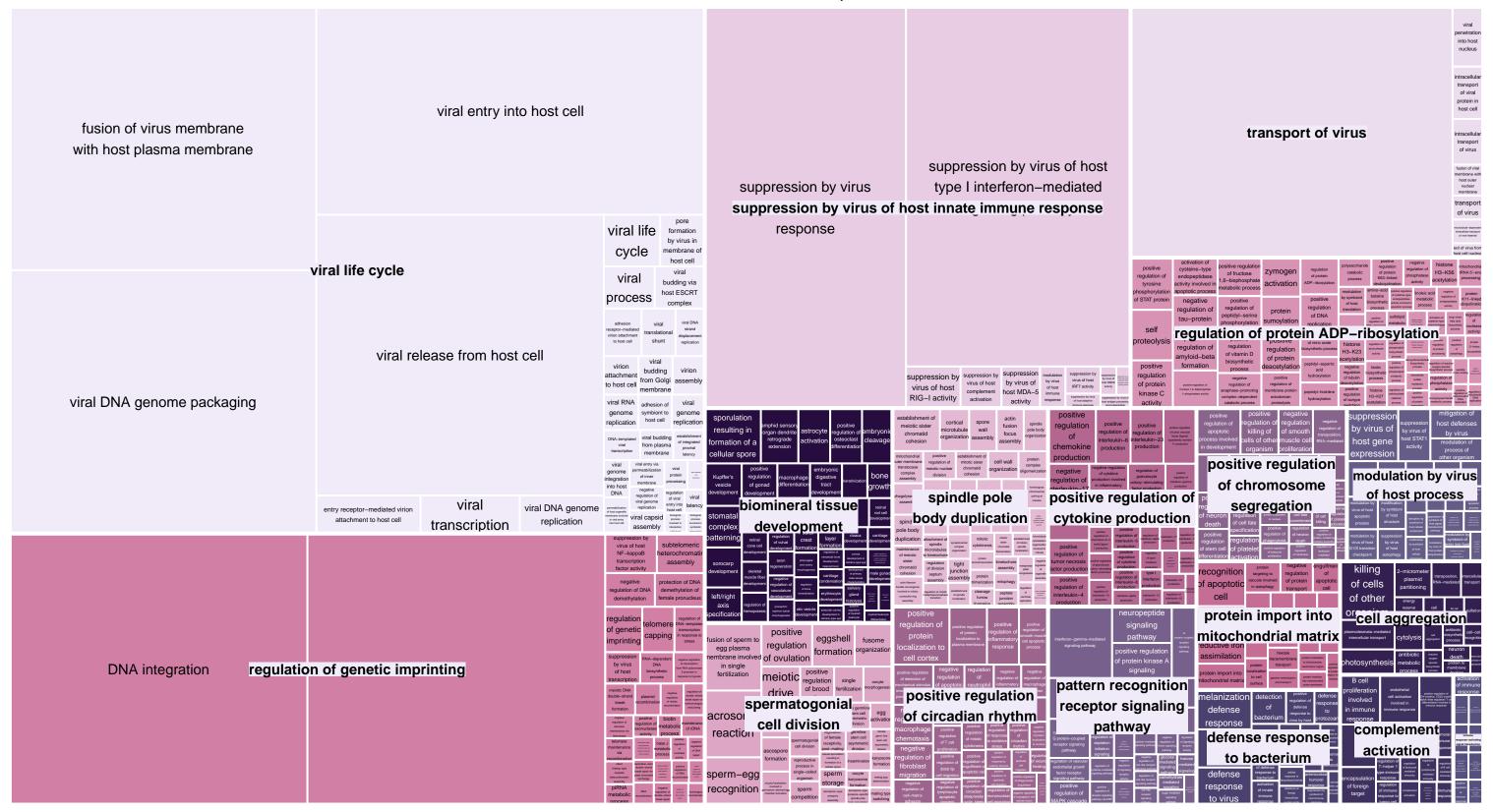
Rotifera BP TreeMap



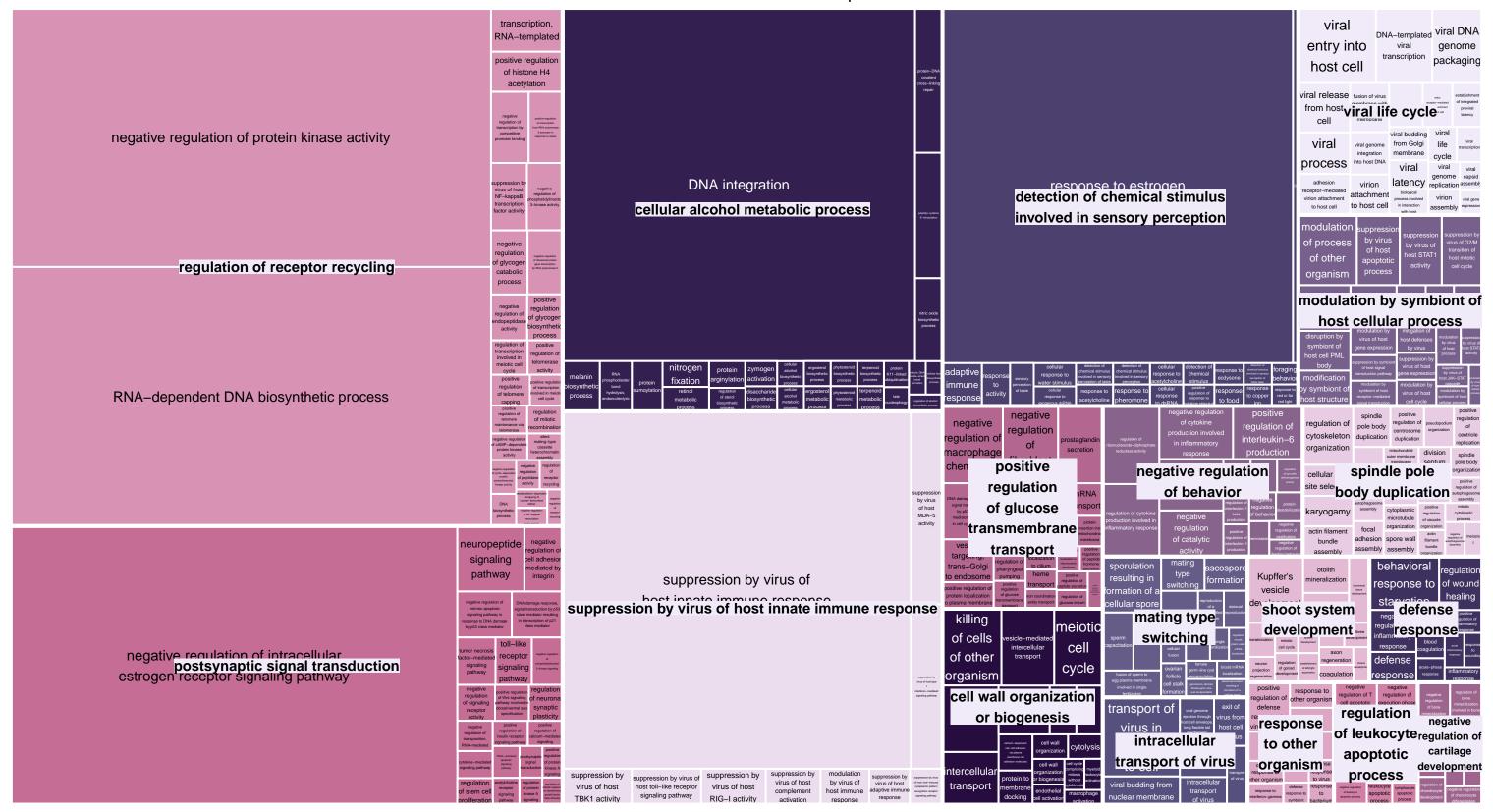
Tardigrada BP TreeMap

						3.5	ida Bi iloomap						
adhesion of symbiont to host cell	modulation of process of other organism	transport of virus in host, cell to cell	viral budding from nuclear membrane	viral capsid assembly	negative regulation of catalytic activity	nitric oxide homeostasis	platelet aggregation	DNA integration	DNA recombination	killing of cells of other organism	meiotic cell cycle	blue light signaling pathway	endothelin receptor signaling pathway
entry receptor–mediated virion attachment to host cell	viral DNA genome packaging	viral genome integration into host DNA	viral life cycle	viral penetration into host nucleus	negative regulation of coagulation	positive regulation of detection of mechanical stimulus stem cell popul perception of touch	regulation of ribonucleoside–diphosphate reductase activity ation maintenance	nuclei nuclei phosphophosph bond hybond hy	odiester nere odrolysis ping	sper <mark>cell aggre</mark> recognition	egation mediated intercellular transport	G protein-cou signaling estrogen receptor signaling pathwa	pathway
biol	logical process	involved in sy	mbiotic interac	tion			vasodilation in	RNA-dependent	RNA International Plant Part Part Part Part Part Part Part Par			nouronontido	# Spile of Telegraph Spile o
establishment of integrated proviral	viral DNA genome replication	viral process	viral release	viral transcription	negative regulation of GTPase activity	regulation of pyruvate dehydrogenase activity	other organism	biosynthetic process	hydrolysis, endonucleolytic transcription RNA-templated transcription RNA-templated transcription transcrip	transposition, RNA–mediated	Col Wall	neuropeptide signaling pathway	
latency	ropileation				,				a a wa ifi a al	positive pos	sitive regulation	negative	positive regulation
fusion of virus membrane with host plasma	viral entry into host cell	viral protein processing	virion assembly	March Marc	response to	detection of chemical stimulus involved in sensory perception of taste	ecdysone	cellular bud site selection	envelope assembly	nterleukin–6 fac production positive regu	production		of cysteine-type endopeptidase activity involved in f isoprenoid
membrane				Company		detection of stir	mulus response		oteasome statements		uction involved in nmatory response	regulation o	regulation of segulation specification of segulation people of segulation specification segulation segulation segulation segulation of segulation segulation of segulation segulation of segulation se
modulation by virus of host	suppression by virus of host	suppression by virus of	suppression by virus of	suppression by virus of	detection of chemical stimulus	estrogen	to UV-A	sister	centricle waster	nterleukin–8 production	production of regulators of re	nrocess	
apoptotic process	apoptotic process	host IRF3 activity	host IRF7 activity	host MDA-5 activity	involved in sensory perception of sweet taste	response to histamine		cohesion and the same of the s			fusion of spe egg plasm		positive
transition	suppression by virus of nodulation by nost gene expression	by virus of	suppression by suppression by suppression by virus of host number responses that a delivity	virus of host	cytokinin biosynthetic process	nitrogen fixation	protein sumoylation	biomineral tissue development	lactation	crosome ascosno egg coat reaction formation	formation single	mRNA regulatement	cion of DNA al
checkpoint	suppression			ppression by us of host type		oprotein metabo	plic process	biominera develop	ment	nogativo	sporulat	via splicecacine demethylation repeats	prigration of the control of the con
suppression by virus of G2/M transition of host mitotic cell cycle	by virus of host innate immune response	hoot CTATA	suppression by virus of host coll-like receptor interf	feron-mediated naling pathway	deoxyribonucleoside monophosphate catabolic process	peptidyl-cysteine S-nitrosylation	biosynthetic process, mevalonate-dependent	dentin-containing tooth	upariation re	negative gult sporulation non(formation of a evelopment	_	of a defens	e response
	100001100		insignation of insignation of host defenses the by virus God	Address of hour state of hour			Scorphatic	bone mana mineralization except	ASSESSION STATE OF ST		competition is embryonic specification a multicollular desvege consoler conso	Appendix Section 1997 (1997) Append	The state of the s

Urochordata BP TreeMap



Xenoturbellida BP TreeMap



Acoela CC TreeMap



Annelida CC TreeMap

host cell cytoplasm part	host cell endoplasmic reticulum membrane	host cell endoplasmic reticulum	host cell endoplasmic reticulum–Golo intermediate compartment	gi endosome membrane	host cell endosome	acrosomal lumen	acrosomal vesicle	chloroplast outer membrane	cell cortex of cell tip	cellular bud neck	cellular bud tip	3M complex	cer	rl-CoA ramide nthase mplex	condensed nuclear chromosom	DASH	d complex
host cell cytoplasm	host cell Golgi apparatus	host cell mitochondrion	host cell nuclear envelope	host cell nuclear inner membrane	host cell nuclear matrix	extrinsic compigment mitochondrial outer membrane	granule mer cisterna	mbraneM complex	dendri <mark>cell</mark> cytoplasm	ular bud ne mediai cortex	outer membrane-bounde periplasmic space		f	factor receptor	RNA polymerase I transcription regulSix1-S complex	Slx1-Slx4 Slx4 comp	svnaptonemal plex _{implex}
host cell cytoplasmic vesicle	host cell Golgi membrane	host cell host intracel membrane	host cell lular organe	host cell Ile nucleus	host cell perinuclear region of cytoplasm	fungal-type vacuole membrane	sarcoplasm reticulum membran	establish for the first	hemidesmosom	e postsyna neuroma junc	uscular ilam	DNA polymerase complex	viral terminase arge subur	entition the same and and	RNA polymerase transcription factor SL1 complex	synaptone structur	Swr1 rDNA
membrane host cell cytosol	host cell junction	host cell nuclear part	host cell plasma nembrane	PML body	host cell riral assembly compartment	central plaque of spindle pole body	cytoskeletal calyx	nematocyst	adhesive extracellula matrix	collagei r IV trii	n type r	meiotic spindle ole body fib	nse membr	plasma rane-derived hylakoid embrane		complex	transcription export complex
host cell endomembrane	host cell membrane	host cell	host cell lasmodesma	ost cytoskeleto	intracellular organelle	centriole s	spectrosome theca	r spindle pole body	egg chr <mark>enc</mark> a	xternal apsulating ructure	\$	spindle ole body mus	al body striated scle myosick filament		SOSS SOSS complex	tRNA-ir endonuc	ntron TRAMS complete
system		c fungal-type		nembrane-bounde organelle ascus	cell	chlorosome envelope	preprophas band	·	peptidoglycan-base cell wall	d spore wa	Total	Catopei	polysaccha eptor comp	aride plex trans	iary speri	mono m immu us co	omeric IgA noglobulin omplex
chloroplast	reticulum	vacuole	complex	epiplasm	envelope	cell outer membrane	external side of plasma membrane	prospore membrane	autosome	chromo telom regi	some, heric dea on	channel col ath-inducing		complex product and starting	notile cilium	immu	noglobulin omplex, culating
Golgi Iumen	mitochondric	nucleus en	cellular bie	xtracellular reç	host cellular ionmponent	cornified plas envelope	sma membra membrane	VIIION	centro	emosome, meric regio	n anap	hase-promoting ace complex	complex		cipal	dime immur	cretory eric IgA noglobulin
microneme	retrotransposon nucleocapsid	storage vacuole	extracellula region	r membrane	periplasmic space	dendrite membrane	thylakoid membrane		monopolin	telomere comple	ex po	RNA dosag	plex processing located ge compensation lex, transcription activating	inflar	NLRP1 mmasor <mark>Cvt c</mark>	oroteasom	/ telegration bytakon

Arthropoda CC TreeMap

												_									
host cell cytoplasm part	host cell endoplasmic reticulum membrane	host cell Golgi apparatus	host cell Golgi membrane		host cell late endosome membrane	host cell membrane	chloroplast ^e	ndoplasmic reticulum	female pronucleus	fungal–type vacuole	bicellular tight junction	cellular bud tip	dendrite cytoplasn	dendrite n membrane ⁶		ollular matrix	gg orion egg	coat comp	I type IX		EKC/KEOPS complex
host cell cytoplasm	host cell endoplasmic reticulum	host cell mitochondrial inner membrane	host cell nuclear membran	host cell nuclear part	host cell nucleolus	host cell nucleoplasm	Golgi Iumen	microtubule organizing center attachment site	mitochondrior	nucleus	cell cortex of cell tip	type ľ	postsynapse of V pilus ular junction	ruffle ^r membrane	cell wall <mark>ext</mark>	racellular r	prim matrix _{cell} v	wall syntha	ide lipoproteir DNA repa ase particle	air complex	rotein-lipid complex
host cell cytoplasmic vesicle membrane	host cell endoplasmic reticulum-Golgi . intermediate compartment	host cell	host ce nucleu tracellula host ce	nost cell S plasmodesm r organelle	body	host cell surface	lysosomal lumen male	microl peroxisome	retrotransposon nucleocapsid	rough endoplasmic reticulum lumen	cellular bud neck	outer membrane-bounded periplasmic space	sensory dendrite	junction =	extracellular I	_{al-type} spo Il wall wa	I envelo	pe collaç trim	Jen protein-carbohydrate	SCF ubiquitin ligase complex	
host cell cytosol	host cell endosome membrane	nuclear envelope host cell nuclear inne	part host cell perinucles region of	viral asser compartm	mbly host nent intracellul organelle	le e els	pronucleus	pronucleus	storage vacuole	vacuolar lumen	Atg1/ULK1 kinase complex	Cvt comple	nhragmo	plasma membrane-deriv chromatophore		azurophil granule lumen	endocytic		omicron imm	unoglobulin immu complex c	tameric IgM nunoglobulin complex
host cell endomembrane system	host cell endosome	host cell nuclear matrix	cytoplasn host ce plasma membra	host intracell membrane-bo	symbiont-containir lular vacuole unded	viral factory	Barr body	nucleoplasm	rDNA protrusion	RNA polymerase I transcription regulator			rl-phosp se compl	type I	membrane	body	alpha	specific Co	omp <mark>comple</mark> :	noglobulin k, circulatin	rotoin
actin filament bundle	autosome	bacterial thylakoid	central plaque of spindle pole body	apoplast	ascospore-type prospore	ascus epiplasm	condensed nuclear chromosome	RNA polyme transcripti factor SL	on	complex synaptonemal	BLOC-1 complex	inflammasc complex	l thylal	koid	ATP-binding	dense co vesicle lum	re lumen nen l	lip	oprotein dir oarticle ciliarv	meric IgA lipo unoglobulin pa complex	oprotein particle
centriolar satellite	centriole	chlorosome envelope	chromosome, centromeric region	blood microparticle	cell envelope	cell pole	DASH complex	SAS acetyltransfe comple	erase		cell outer membrane	media e corte	membrane-	na membran phore leading	transporter complex	signaling complex	receptor complex	cilium motile	transition zone		/lis6-Sim4 complex
chromosome, telomeric	condensed chromosome, centromeric	stress	cytoskeletal calyx	cell tip	cellular bud	endospore–forming forespore	linear element	Slx1-S comple	struc	onemal Paul Paul Paul Paul Paul Paul Paul Pa	cornified envelope	plasma	membra mem	nere brane virion membra	CD40	complex	voltage-gated potassium channel	cilium	pilus sition zone sperm	monopolin complex c RZZ con	Ndc80 complex nplex
interphase microtubule		granule I organelle perinuclear	polytene	external cellular encapsulating structure	anatomica region	l entity ular space	attachment organelle membrane	fungal-type	trans	magnetosome membrane	external side of plasma membrane	piasm	a thyla	akoid brane	receptor	pore complex meiotic	mitotic	fibrous sheath	midpiece	outer kinetochore	telomere cap complex
organizing center		theca	interband spindle	host cell	membrane	periplasmic space	chloroplast membrane	lastid me	embrane	plant-type	anaphase-promoti complex	cap con	ere shel	terin SOSS	×	spindle pole body	spindle	sperm flagellum	principal piece	Smc5-Smc6 complex	•
kinetochore	preprophase band	spectrosome	pole body	host cellular component	perivitellin space	polar	thylakoid membrane			membrane sarcoplasmic	chromatir silencing complex	THO comp	complex lex core	omerase catalytic complex	chromosome subtelomeric	outer septin ring fiber	membrane-derived thylakoid membrane		nuclear membrane microtubule outer mitoo		SAM complex
mating-type region heterochromatin	sarcomere	chromoson	obcomo and obcomo obcom	intracellular immature spore	photorecept inner segme		extrinsic component of mitochondrial outer membrane	outer	plastid membrane	reticulum membrane	Mre11 complex	RN/ polyme V com	rase end	NA-intron lonuclease complex	intermediate filament	P granule		mitochomen ribonuclease P complex	membrane	complex	provide Regulator

Brachiopoda CC TreeMap



Bryozoa CC TreeMap



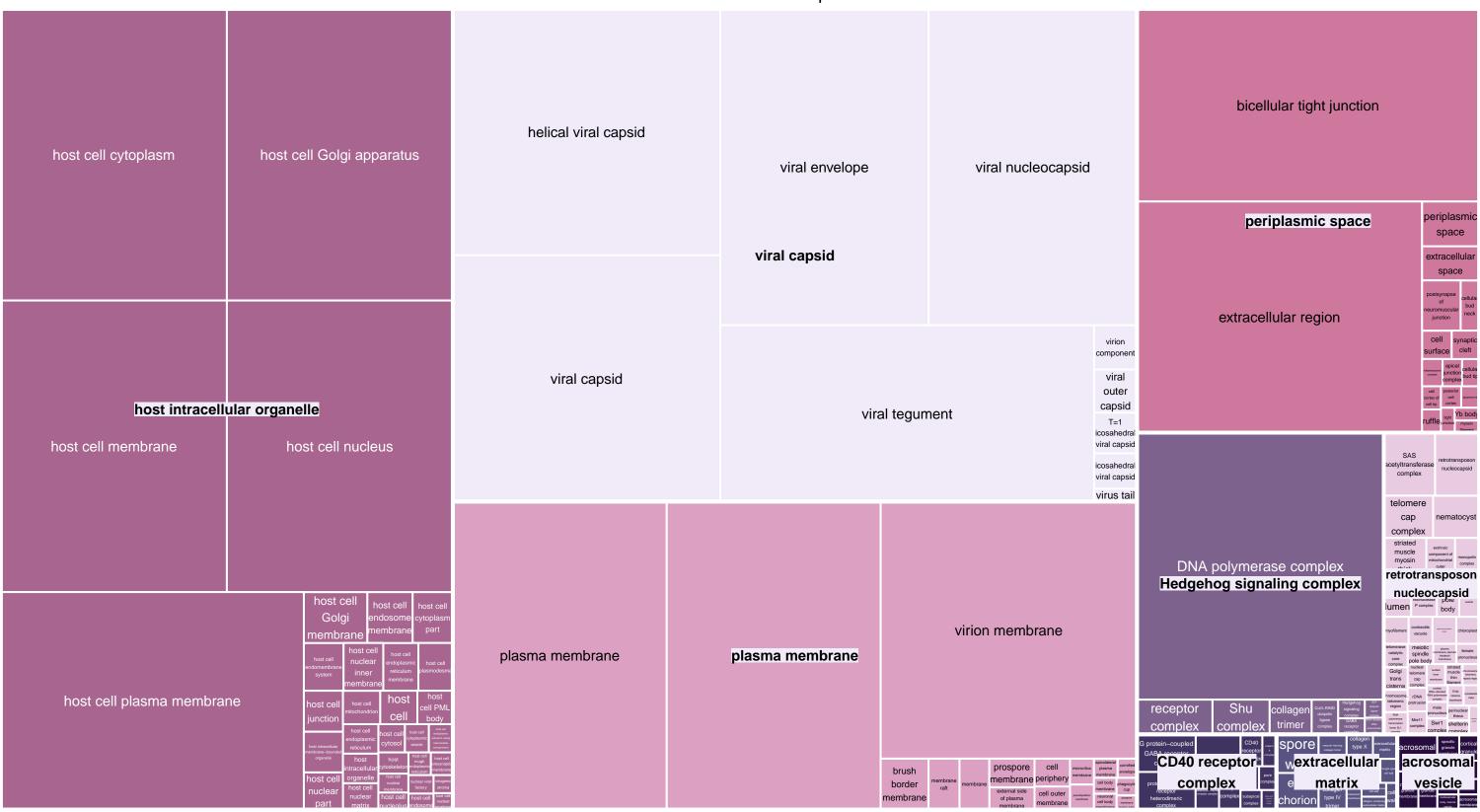
Cephalochordata CC TreeMap



Chaetognatha CC TreeMap



Cnidaria CC TreeMap



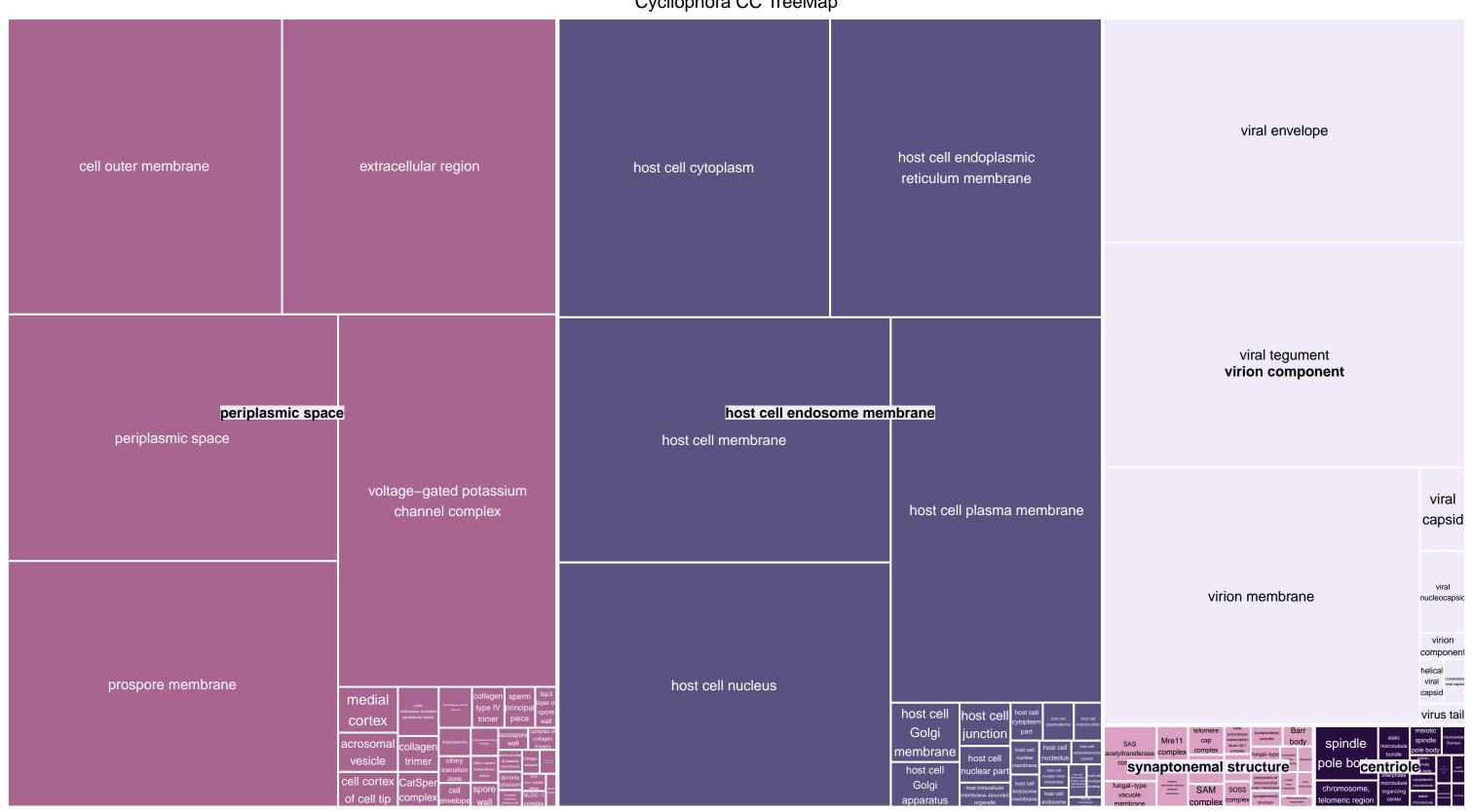
Craniata CC TreeMap

alpha-beta T cell receptor	conn	exin	external side of plasma membrane	host cell nucle inner membrar		st cell ear part	nost cell nucleolus	blood microparti		tracellular space	helical viral capsid	viral envelope	viral nucleocapsid	acrosomal vesicle	lamellar body
complex	m	nlasma	a membrane	host cell nuclear matri:	host cell i	nuclear part	host intracellular hembrane-bounded organelle	cell su <mark>ex</mark>		photoreceptor region ³ gment		viral capsid	virion		ion-derived vesicle
	ne asma m	' lembra		host cell nucle membrane		st cell I	nost intracellular organelle	extracellu region	lar m	virion :: : : : : : : : : : : : : : : : : :	viral capsid	viral tegument	virion component	cortical granule	zymogen granule
lateral plasi membran	ne	transfo grov	vth	axonemal microtubule		mediate ament	keratin filament	host ce cytoplasm	"	host cell Golgi apparatus	acrosomal membrane	ficolin–1–rich granule	endosome	cone photorecepto outer segmer	nioco
	protein complex lig	factor gand-re comp	eceptor carbons are the complete carbons are the carbons are the complete carbons are the complete carbons are the carbons are the carbons are the carbons are the carbon are the car					host ce host cytopias	cell cytop	host cell asm partbrane		zymogei	rane n granule	photorecepto outer segmer membrane	sperm
Cajal body	cen elem		chloroplast	chlorosome envelope		ed muscle	muscle myosin thick filament centrole toponin	host cel	II mic m	host cell	nost cell	host cell pla			fungal-type vacuole membrane
mitochondr	rion nucl		protrusion		IgD mmunoglobulin	IgG immunoglobu complex	IgM ulin immunoglobulin complex		inflammasc	MLRP1	system	t cell part host cell plasmodesi	hos cel	at peptidoglycan-based cell wall ellular matrix	plastid membrane fungal-type vacuole
omegason	me		ransposon leocapsid	complex	complex collage	en trimer		procentri	iole replica	tion complex			shelterin rittor, error complex comple	immunoglobulin	astrocyte projection
plant-typ vacuole		rou endop reticu lum	lasmic Golgi Lumen Lumen	complex	lgE mmunoglobulin complex	immunoglobuli complex	subcortical n maternal complex	cell cortex	NLRP3 inflammasor complex	regulatory	SIx1-SIx4 transcriptio complex	telomerase catalytic n export comp core complex tatalytic step spliceosome THO transcript complex complex	Cocky and a second	complex	stereocilia ankle linka postsynapse of neuromuscular junction

Ctenophora CC TreeMap

				extracellular region	posterio cell corto telomere	extrinsic component of		trichocyst	retrotransposo	n nucleocapsid	chloro	plast
				voltage–gated potassium channel complex	cap complex BLOC-1 of collagen trimer	outer membrane	ic monopolir	Cul3-RING ubiquitin	PML body	SIv1_SIv <i>1</i> S Ix1-SIx4 comple complex	× THO a	omplex:
host cell nuc	cleus	hos	t cell cytoplasm	ruffle	postsynapse of neuromuscular			attack complex basement membrane acrosomal	telomerase	SAS acetyltransferase complex	nucleolar chromatin	rDNA protrusion
host cell endosom					junction	membrane	complex	vesicle	catalytic core complex	transcription export complex	transcription	complex
				virion membrane		tegument	viral nu	icleocapsid	hos	st cell membrane		host cell junction
host cell cytoplasm part ost cell Golgi apparatus	host cell nucleolus	host cell Golgi membrane host cell host cell		viral ca	Vi	irion compon	T=1 ent icosahedral viral capsid		host cell junctior	1		
nost cell Golgi apparatus	host intracellular membrane-bounded organelle	host cell endoplasmic reticulum membrane	endoplasmic reticulum host cell host cell endosome nuclear membrane part	viral envelope	viral ca			icosahedral viral capsid	host ce	II plasma membra	ne	host cell plasmodesma

Cycliophora CC TreeMap



Dicyemida CC TreeMap



Echinodermata CC TreeMap



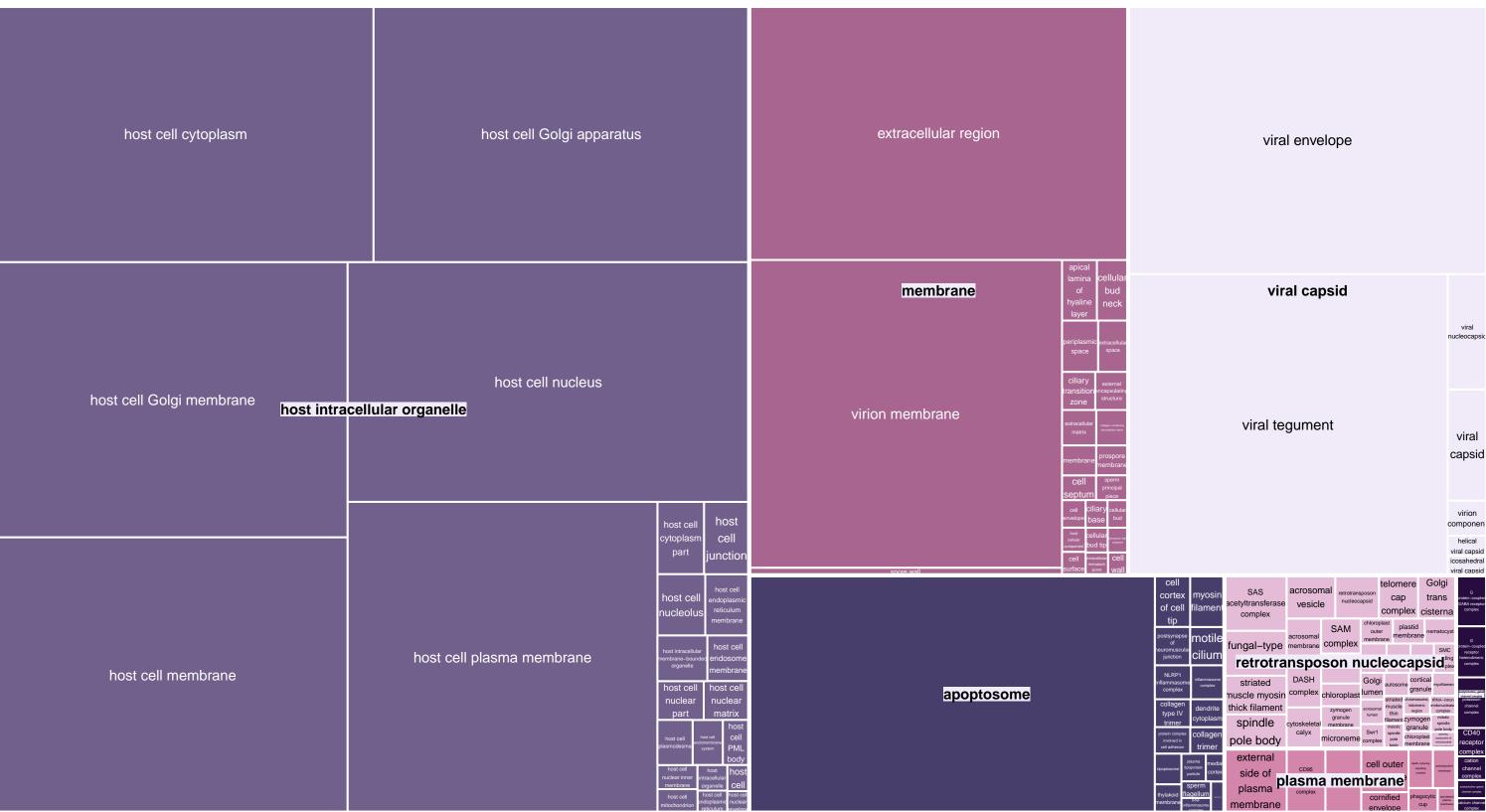
Entoprocta CC TreeMap



Gastrotricha CC TreeMap



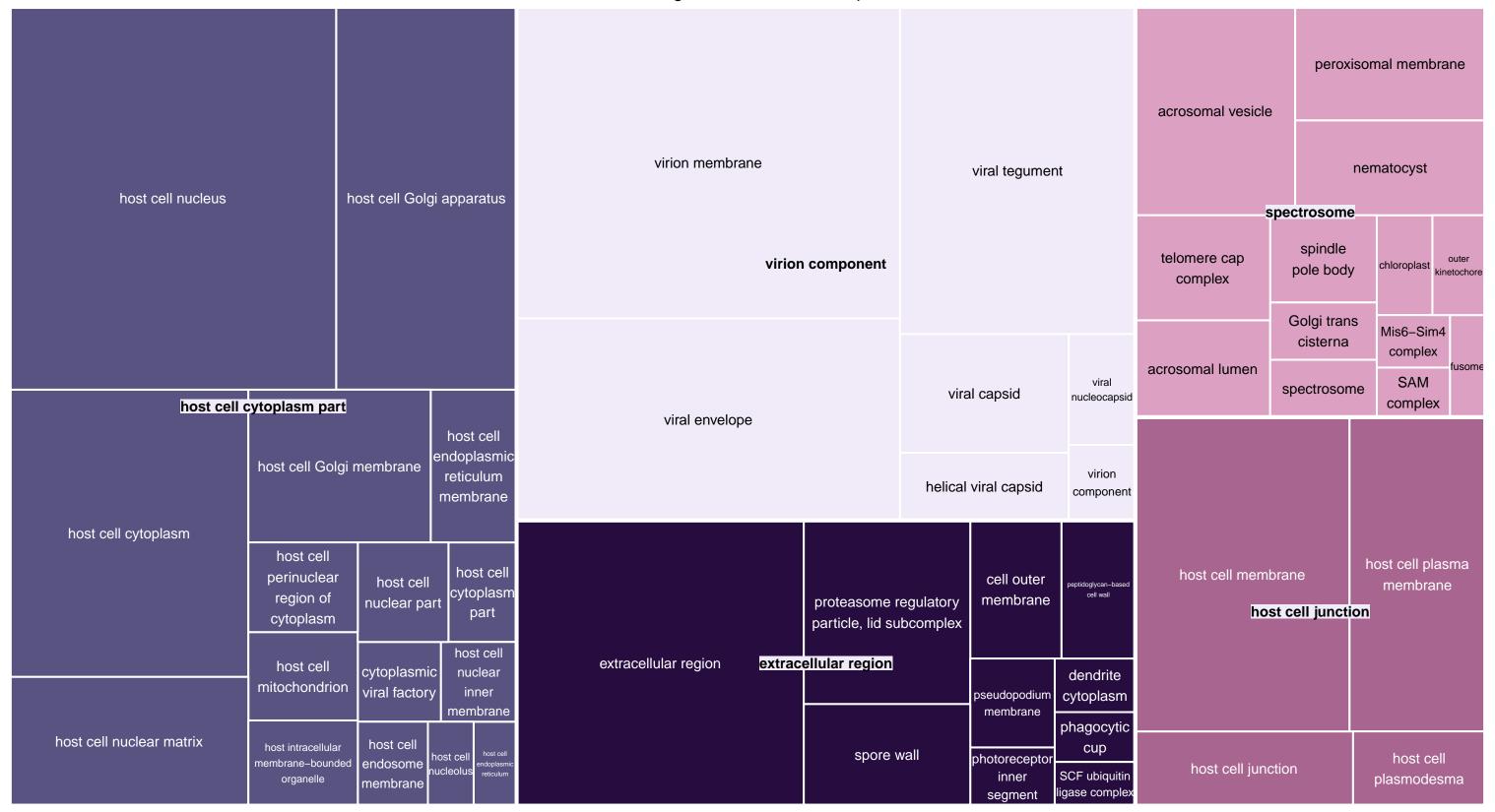
Hemichordata CC TreeMap



Kinorhyncha CC TreeMap

host cell cytoplasm part	host cell cytoplasm	host cell endomembrand system	host cell endoplasmic reticulum membrane	helical viral capsi	id viral env	relope	viral nucleod	eapsid	extracellular region	outer membrane–bounde periplasmic space	
host cell endosome	host cell Golgi	host cell	host cell junction	icosahedral viral capsid	virion con	nponent	virus tai	l	magnetosome membrane	membrane	virion membrane
membrane	apparatus	Golgi membran	e neot companent	viral capsid	virion com	ponent	virus tail, fib	virus tall baseplas Tul manament mal request Viral outer Capsic	membrane	postsynapse of neuromuscular junction	prospore type IV man hydrod the first man to the first ma
host cell membran		ular organelle host cell nucleolus	host cell nucleus				viral cansid decuration	capsic wus tal, tube	cell outer membrane	egg chori	anvisione anvisione
host cell mitochondrion	host cell plas		nost cytoskeleton	acrosomal vesicle	endoplasmic reticulum 	nucle nucleoca	us nucled	nsposon ocapsid	peptidoglycan-based cell wall plasma	spore wal	DNA polymerase viral terminase complex
host cell nuclear inner membrane	host cell plasmo	membr	intracellular ane—bounded rganelle rganelle association for the control of the c	chloroplast	nematocyst	telom	tungal-ty/vacuole Golgi cis cisterna ere cap mplex spiridle pote pote body """" """" """ """ """ """ """ """ ""	Golgi jumen koymensi kararisini k	plasma membrane	voltage-gated potassium channel complex	dendrice den

Micrognathozoa CC TreeMap



Mollusca CC TreeMap

host cell cytoplasm part	host cell cytoplasm	host cell cytoplasmic vesicle membrane	host cell cytosol	host cell endomembrane system	anaphase-promoting complex	meiotic nuclea g membrane microtubule tethering compl	Mre11 complex	RNA polymerase I complex	chloroplast	endoplasmic reticulum	fungal–type vacuole	autosome	central plaque of spindle pole body	centriolar satellite	astral microtubule	cytoplasmic stress granule meiotic
host cell endoplasmic reticulum membrane	host cell Golgi apparatus	host cell Golgi membrane	host cell junction	host cell membrane	DASH complex	RNA polymeras transcription regulator compl	ex complex	Slx1-Slx4 complex	Golgi lumen	microneme	mitochondrion	chromosome,	calyx	myofilament	intermediate filament	spindle pole body
host cell endoplasmic reticulum	host cell mitochondrion	host cell nuclear membrane	host cell nuclear part	host cell nucleolus	female pronucleus	RNA polymera transcription factor SL1 complex		tRNA-intron endonuclease complex	nucleoplasn	microbody n peroxisome	retrotransposon nucleocapsid	nematocy	otubule bu	spindle	miseptin fila spindle pole body	ment array plasma membrane-derived ttylakoid membrane
host cell endoplasmic reticulum–Golgi intermediate	host cell	ntracellular of host cell nucleoplasm	rganelle nost cell lasmodesma	host cell PML body	male pronucleus	SAS acetyltransfera complex	THO complex	PML Barr series control to the contr	omegasome		thinked stachmen nyuko	perinucle theca		pole body	dense	striated solution of the control of
host cell endosome membrane	host cell nuclear inner membrane	host call	surface membran	nost e-bounded intracellular anelle organelle	bicellular tight junction	cellular bud tip j	gap unction	filament	adhesive extracellular matrix	vacuo ascospore wall	cell outer membrane		corescele biocterial security and security security complex structure of the security securit	lipoprotein	extr chloroplast _{compo}	nsic nent of ondrial vacuole
host cell endosome	host cell nuclear matrix	host cell plasma membrane	host /toskeleton	ont-containing vacuole	of cell tip	dendrite preceptor dis	ostsynapse stal connecting uromuscular junction	Spouluiii	external er	ncapsulating	structure cell wall				mem	embrane sarcoplasmic
ascospore-type prospore	cellular bud	host cell	host cellular component	intracellular	cellular		embrane	sperm	fungal-type	spore w	rall	complex	nunoglobulin complex	complex	outer nembrane	membrane
ascus epiplasm	ciliary transition zone	membrane	photorecepto inner segment	r sperm fibrous sheath	helical viral capsid	viral capsic	viral outer capsid	viral procapsid	CatSper complex	death-inducing	external side of plasma	medial co	thylak thylakoid		acrosoma lumen id ——chit acrosoma	lamellar osome ^{body}
cell envelope	extracellular region	tracellular re periplasmic space	sperm midpiece	sperm principal piece	icosahedral viral capsid	viral virion (envelope	viral component tegument	virus tail	CD95 death_induci death_indu signaling complex	complex ng signalin lipopolysad receptor c	membrane g complex charide	membra Mis6-Si	m4	telome	re	extracellula excessoria estata excessoria estata excessoria estata estat
cell tip	extracellular space	phagocytic cup	sperm mitochondrial sheath	virion membrane		viral nucleocapsi	virion d component	virus tail,	cornified envelope	voltage- potass	gated	monopo	dc80 comp lin	cap comple	inflammas comple	granule

Nematoda CC TreeMap

host cell cytoplasm part	host cell endoplasmic reticulum–Golgi intermediate compartment	host cell endosome membrane	host cell Golgi apparatus	host cell Golgi membrane	helical viral capsi	d viral envelop	oe nu	viral cleocapsid	extracellular regior	extracellular spa	ce dendrite cytoplasi	of plasma
host cell cytoplasm	host cell mitochondrion	Hucicai	host cell nuclear part	host cell nucleolus	icosahedral viral capsid	viral capsid viral outer	capsid	virion component	membr <mark>extrace</mark> l	polar tube <mark>ular region</mark>	postsynap neuroinus junctio	se of polyage gated open potassium channel
host cell cytoplasmic	host (host cell	membrane endoplasmic reti	culum		viral capsid	viral tegu			periplasmic	virion membrane	to solute to the	complex
vesicle membrane	envelope	host cell nucleoplasm	host cell perinuclear region of	host cell viral assembly compartment	cytoskeletal			Tel virus a read	space	cellular	prospo membra	compartment
host cell endoplasmic reticulum membrane	host cell nuclea	ur	cytoplasm	Compartment	calyx	nematocyst		process 2000 for some fixed fixed for some fixed fixed for some fixed fi	cell outer membrane	fungal-type p	eptidoglycan–based	acyl–CoA ceramide synthase complex
host cell endoplasmic reticulum	host cell nuclear matrix	host cell nucleus	host cytoskeleton	host intracellular membrane-bounded organelle	Mis6-Sim4 complex	chlorosome outer kinetochore	telomer comp	e cap		cell wall encapsulating stru spore wal	cel wat	collagen trimer
anaphase–promoting complex	female pronucleus	retrotransposon nucleocapsid	SAS acetyltransferase complex	SOSS complex	acrosomal lumen	chloroplast	membra	asma ane-derived d membrane	host cell endomembrane system	host cell membrane	host cell plasma	immunoglobulin complex EKC/KEOPS complex
DASH complex	retrotrar nuclear lamina	RNA polymerase transcription factor SL1 complex		RNA male polymerase i complex	acrosomal vesicle	microbody memb peroxisomal membrane	sarcopl reticu memb	lasmic plastid PAS tylakolocomplet Jlum PAS tylakolocomplet plastid PAS tylakolocomplet plastid post	host cell junction	host cell plasr		proteasome regulatory particle, lid subcomplex motile cilium regulatory particle, iid subcomplex

Nematomorpha CC TreeMap



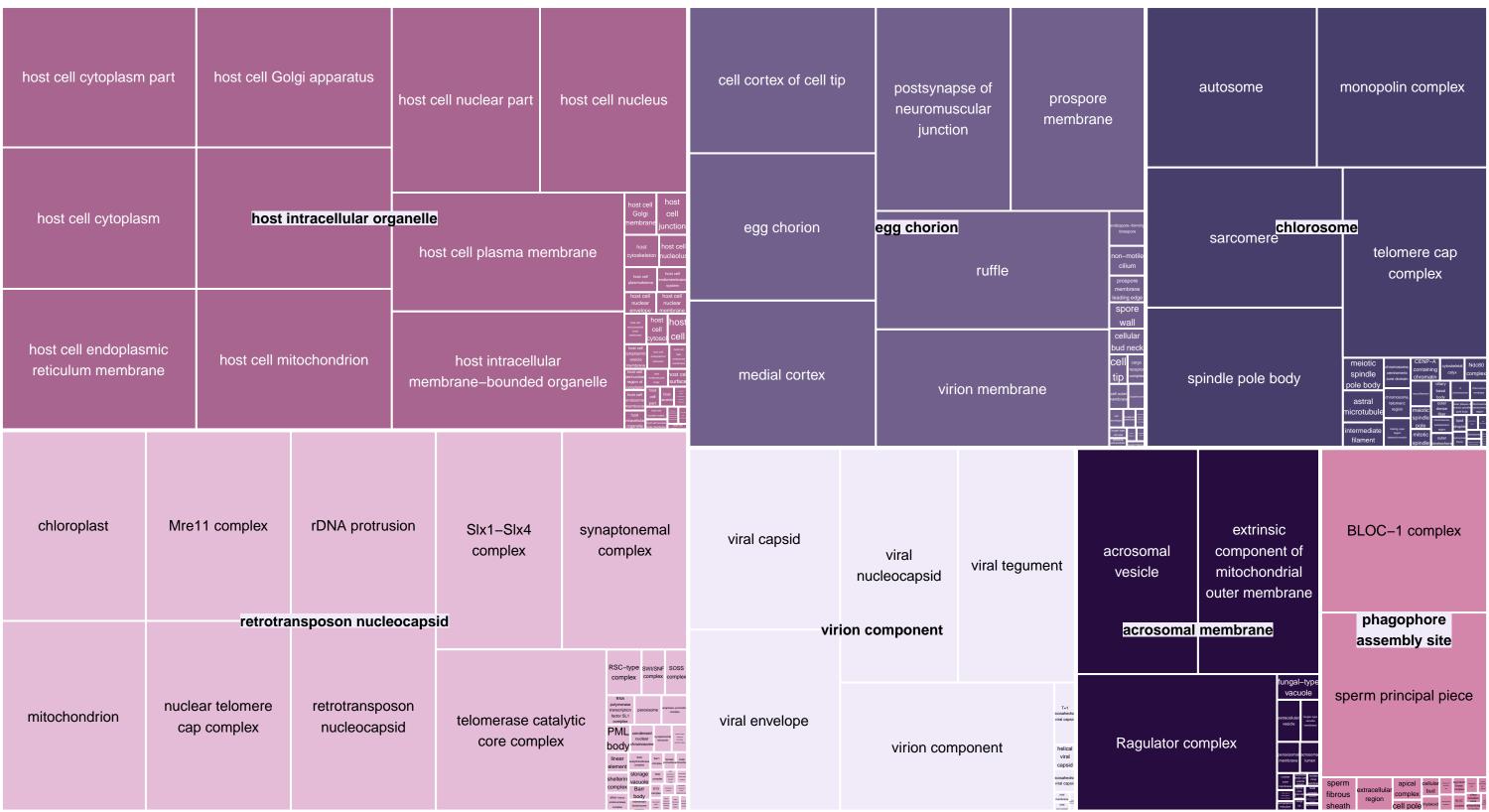
Nemertea CC TreeMap



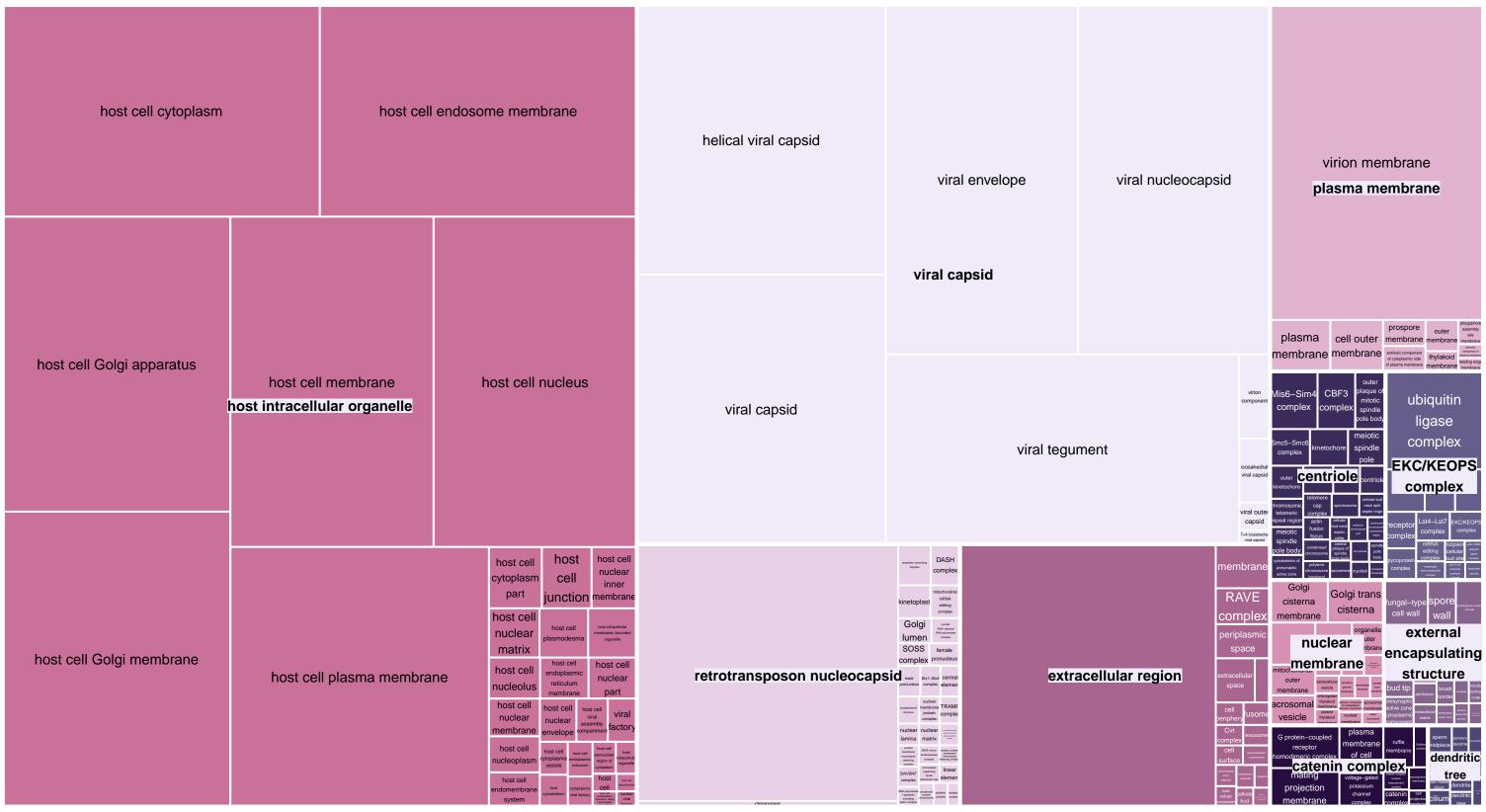
Nemertodermatida CC TreeMap



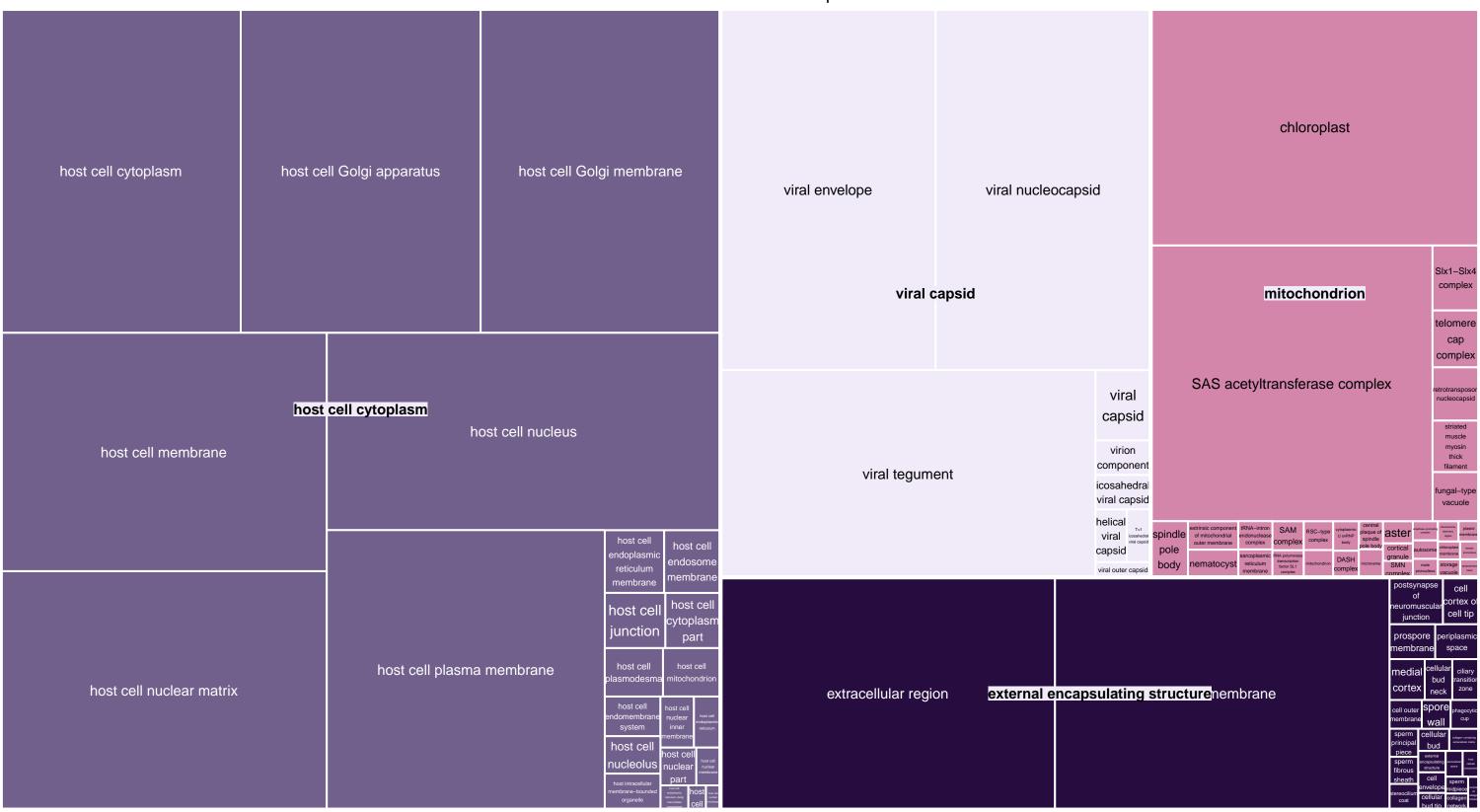
Onychophora CC TreeMap



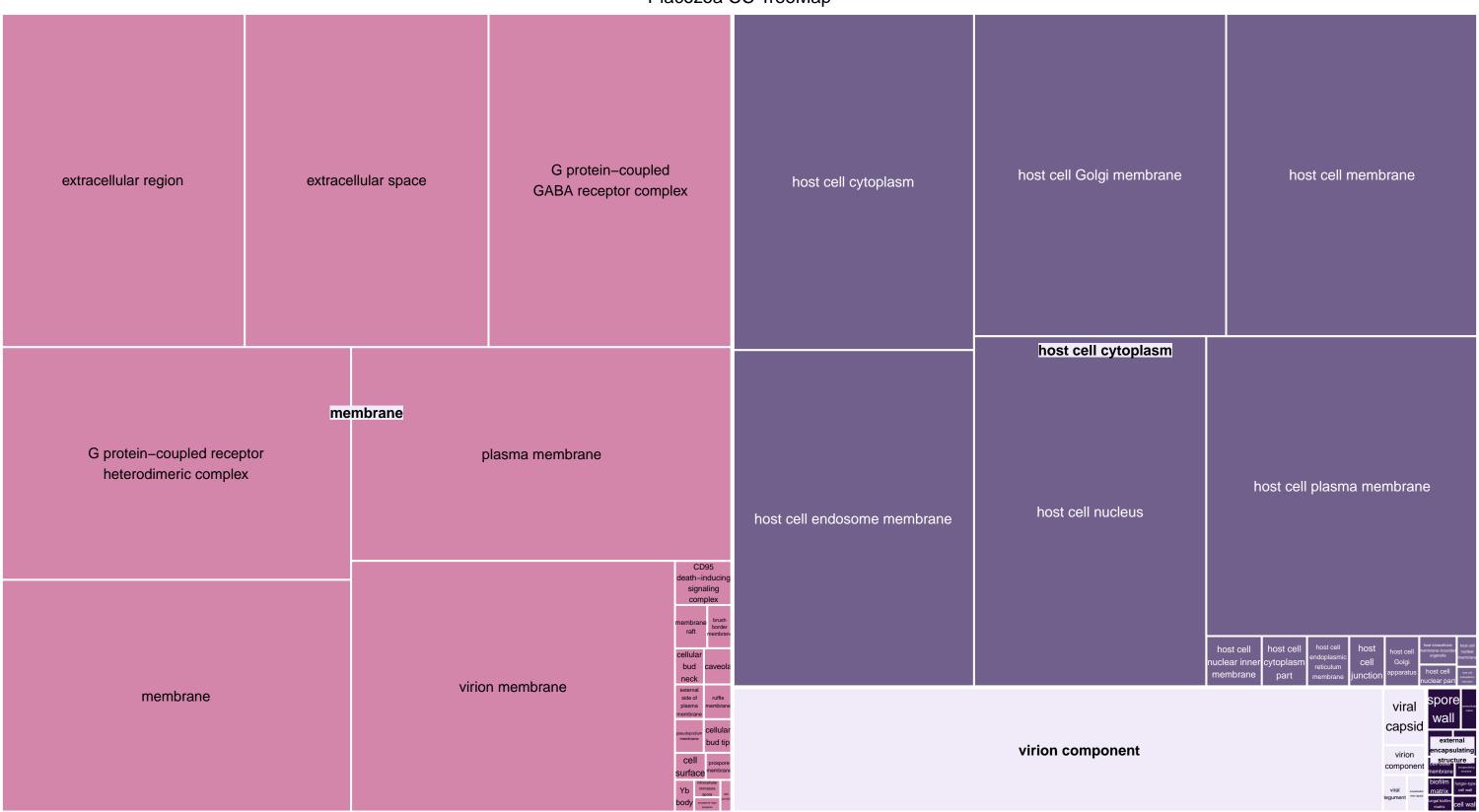
Outgroup CC TreeMap



Phoronida CC TreeMap



Placozoa CC TreeMap



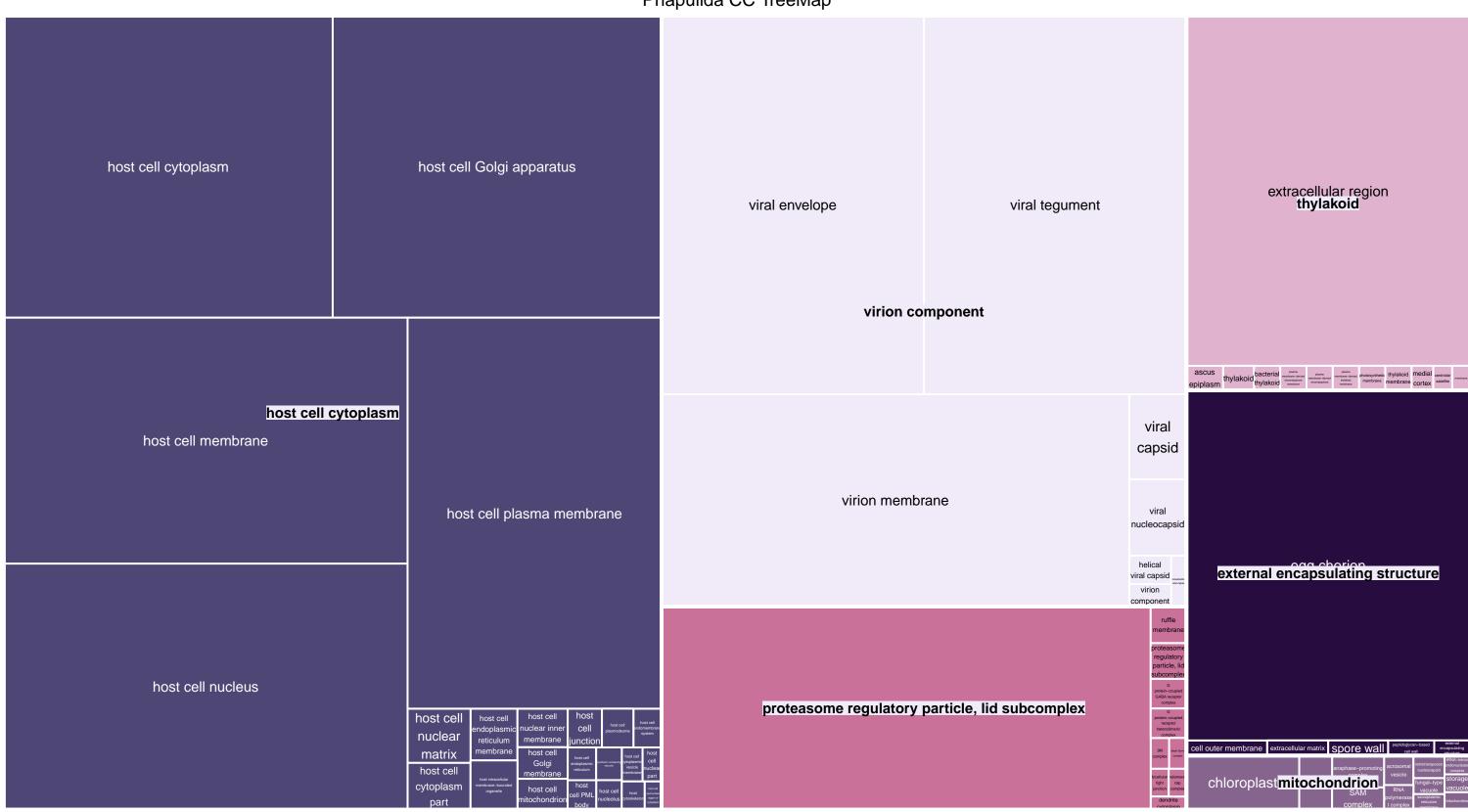
Platyhelminthes CC TreeMap

						. idity i i di i							
host cell cytoplasm part	host cell cytoplasm	host cell endomembrane system	host cell endoplasmic reticulum membrane	host cell endoplasmic reticulum-Golgi intermediate compartment	condensed nuclear chromosome	linear element	RNA polymerase transcription factor SL1 complex	cell outer membrane	cornified envelope	central plaque of spindle pole body	intermediate filament	chromatin silencing complex	microneme
host cell endosome membrane	host cell membrane	host cell mitochondrion	host cell nuclear envelope	host cell nuclear inner membrane	DASH complex	shelterin SIx1-SIx4 compl	synaptonemal lex complex	external side of plasma pha membrarie	ngocytic cup thylakoi membrane membrar	interphase microtubule o <mark>cytoplasmic</mark> e center		complex	eus retrotransposon nucleocapsid
host cell Golgi apparatus	host <mark>host in</mark> nuclear matrix	tracellular org	g <mark>anelle</mark> st cell nucleus	host cell perinuclear region of	fibrillar center	Slx1-Slx4 complex	synaptonemal structure	prospore membrane leading edge	virion membrane	meiotic spindle pole body	spindle pole body	SOSS comp	Mex make make products of the product of the produc
host cell Golgi membrane	host cell nuclear membrane	host cell plasma	host	cytoplasm host intracellular membrane-bounded	helical viral capsid	viral capsid	viral envelope	cis-Golgi network membrane	PAS peroxison complex membrar	anaphase-promoti complex	ng tRNA-intron ibiquitinuclease	cellular bud neck	postsynapse of
host cell junction	nuclear membrane host cell nuclear part	membrane host cell	host intra	host cell of scenario cytosol cellular	icosahedral viral capsid	viral viral capsid nucieocapsid	viral tegument	extrinsic component of mitochondrial outer	sAM complex	acetyltransferas		cellular bud tip	Soft junction of order sense of the sense of
autosome	nuclear part	fol	organ complex	elle nematocyst	T=1 icosahedral viral capsid	viral outer capsid	virion 1-13 component 1-13 estates white whit white whit white whit whit whit whit whit whit whit whit	membrane	EKC/KEOP	extracellula	extracellular	CatSper complex voltage-gated channel co	voltage-gated potassium ⁿ
chromosome,	ome, Mice Sin	04 OL	iter	static microtubule	aggresome		osynthetic RAVE	recruitiprotein complex	ollagen n-lipid complex trimer	extracellular region	ascus political and	signaling complex DNA polymeras	**************************************
chromosome, m	monopol		-Smc6 telc	bundle mere cap omplex	BLOC-1 complex	phagophore assembly site	oly site	basement extrac membrane	collagen spore wall cellular matrix trimer	acrosomal vesion	extracellular dosome ^{icle}	complex	9+2 motile cilium
						membrane			extracellular entrick		Raquistor complex comp		sperm sheath base.

Porifera CC TreeMap



Priapulida CC TreeMap



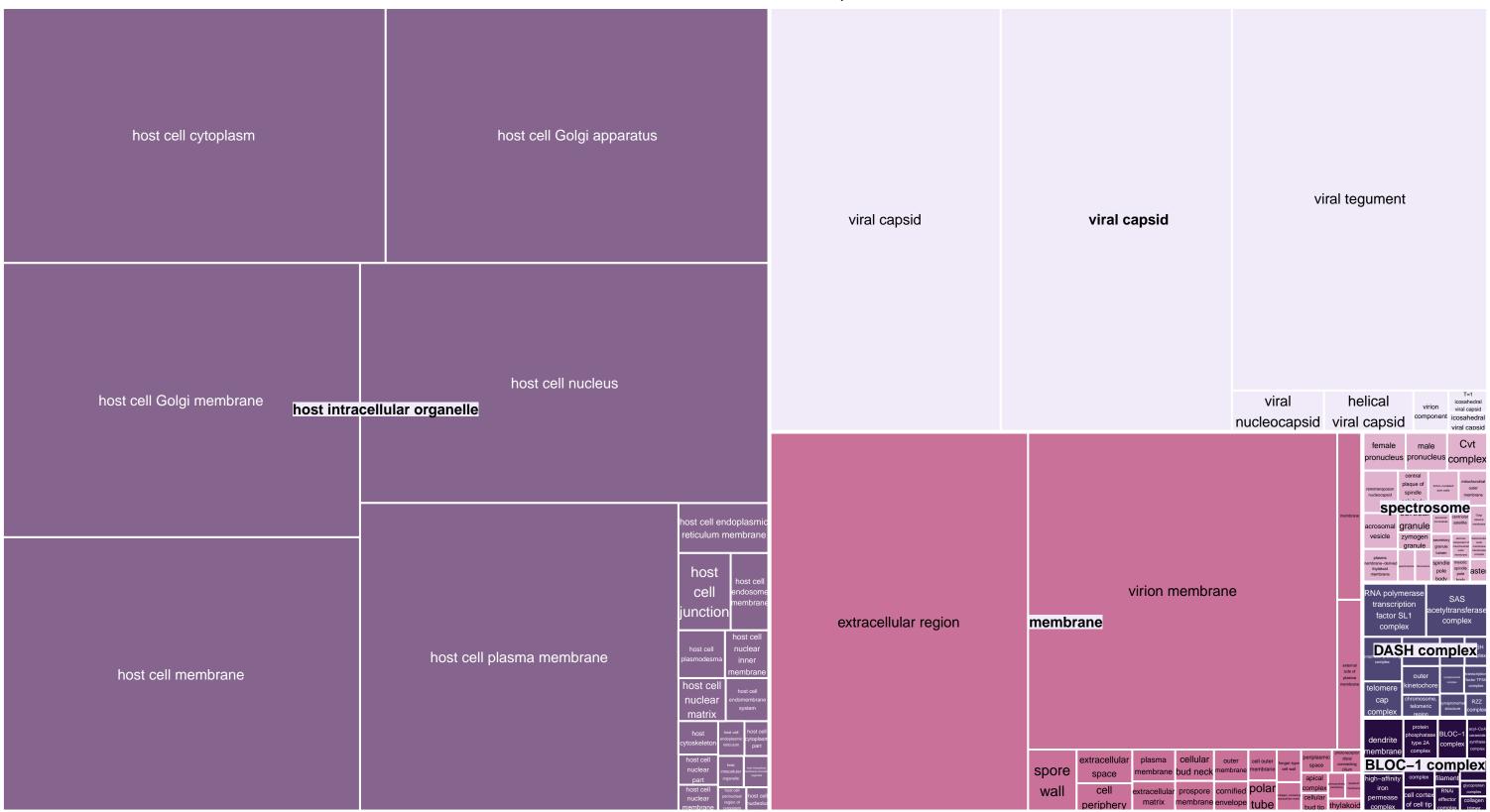
Rotifera CC TreeMap



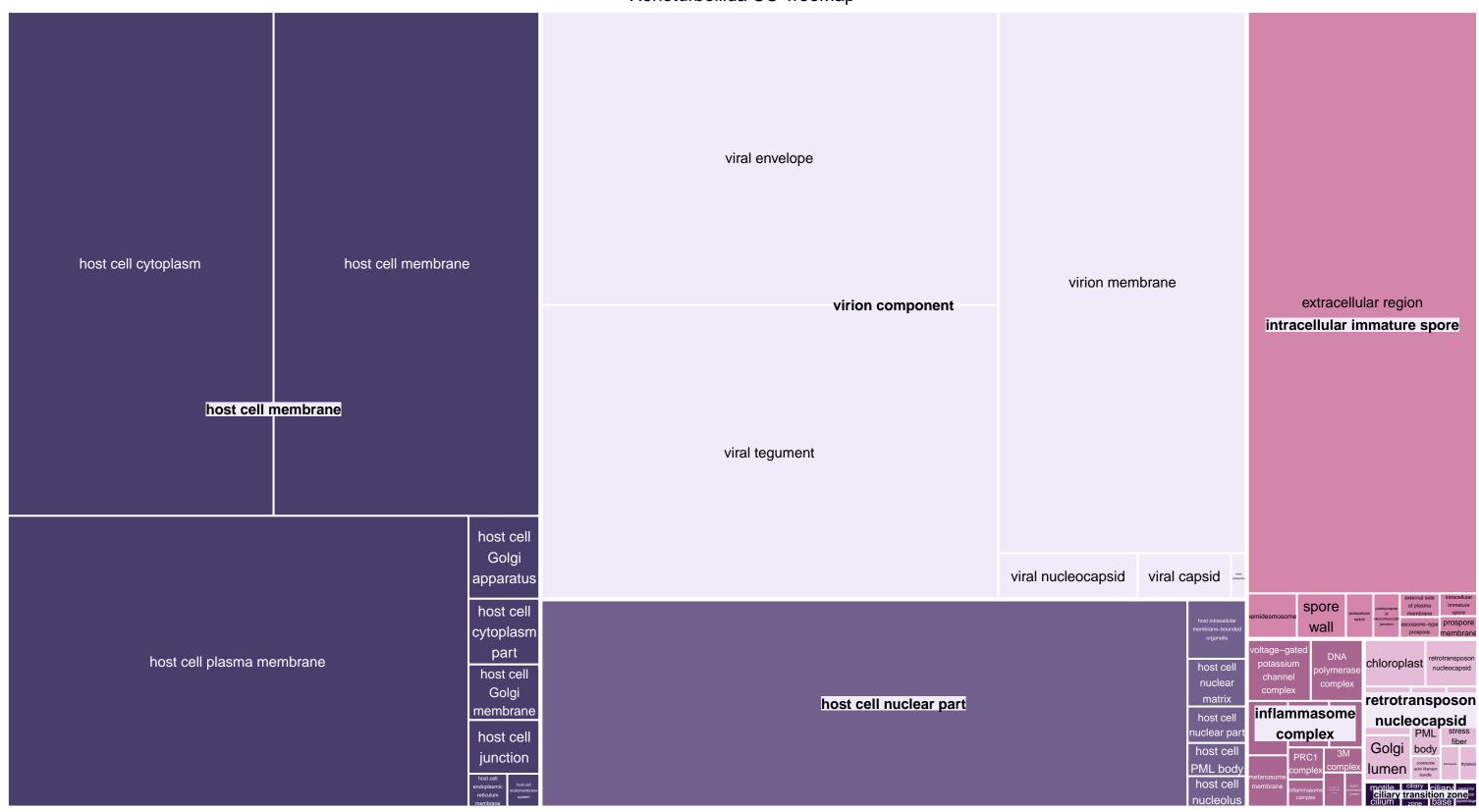
Tardigrada CC TreeMap



Urochordata CC TreeMap



Xenoturbellida CC TreeMap



Acoela MF TreeMap



Annelida MF TreeMap

									7 ti ii i Oii ac	i ivii IICC	Map									
acetylcholine (receptor binding	annabinoid receptor binding	chemokine activity	cytokir activit	T receolor	transcription factor activity	metal ion sequestering activity	protein-membrane adaptor activity	receptor activity	sodium channel regulator activity structural	bacteriochlorophyll binding	biotin binding	bubble DNA binding	D-loop DNA binding	angiotensin receptor activity	angiotensin type II receptor activity	chemokine receptor	cytokine eceptor activity	aspartic–type endopeptidase activity	endonuclease activity	endoribonuclease activity, producing 3'-phosphomonoesters
death receptor binding	epidermal growth factor receptor binding	ghrelin receptor binding	growtl factor activit	growth hormone-releasing	transcription factor activity, RNA polymerase II–specific extracellular matrix structural	activity	structural constituent of cell wall on regulator structural	constituent of egg	constituent of tooth enamel transcription	DNA binding	minor groove of adenine–thymine–ric DNA binding	mRNA 3'–UTR binding	pre-mRNA 5'-splice site binding	endothelin receptor activity	G protein-coupled GABA receptor activity	receptor activity	G rotein–coupled receptor activity	nidazolonepropionase activity	inositol bisphosphate phosphatase activity	incolol-1,3,4,5-tetraktsphosphate 5-phosphatase activity
hormone activity	interleukin- receptor cytokine	kisspeptir receptor	melanin-concen hormone acti	receptor	constituent conferring tensile strength extracellular matrix	activity oxygen	of cuticle structural constituent of	constituent of virion toxin	regulator inhibitor activity	double-stranded telomeric DNA binding	regulatory element bind RNA polymera	id binding / single-strande DNA binding se II	telomeric DNA binding	imm ^{trai} receptor activity	recentor	recognition receptor	eromone receptor activity	inositol–1.4.5–tris nuc 5–phosphalase activity	clease acti phospholipase A2 activity	hybrid ribonuclease activity
immunoglobulir receptor binding	neuropep hormon activity	e recepto	hormone r binding	receptor ligand activity	structural constituent cellulose	activity galactose	cytoskeleton	activity intraciliary transport	Impopolysaccharide	heme binding histamine	cis-regulato region sequence-spe DNA bindin	cific transl	activity	activity		tumor necrosis factor–activated	opressin eceptor activity	inositol-polyphosphate 5-phosphatase activity	single-strander endodeoxyribon activity	uclease
interferon-gamma receptor binding	neuropep recepto binding	recer	otor	pe 1 cannabinoid receptor binding	chitin	binding galactoside	binding mannose	particle A binding oligosaccharide	binding peptidoglycan	binding	stem-loc binding	repressor mRNA re	r activity,	activity	DNA-directe	peptide receptor rece	septor se	alta5_etoroid	endonucle activity	
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BH domain binding	BH1 domain binding	BH3 domain binding	CARI domai bindin	in caspase	binding dynein complex	IgG	neuropeptide		receptor activity		lytic pep	esylase act	linase		DNA enate kina activity	receptor prote se activitys activity	in _	nors, disul	fide as ac	-
complement component C3b binding	1	_{lase} my	yosin nding	PDZ domain binding	binding calcium-dependen protein binding	extracellular matrix protein	onconin	p53 binding	phytochrome	beta-1,3-galackes/-0-glycos/-glycoprotein beta-1,6-N-acety(glycosaminytransferase activity		SUMO Pansferase I activity a	orotein igase activity	RNA-directed 5'-3' RNA polymerase activity ABC-type	tRNA 2'-phosphotransferase activity	vascular endothelial growth factor–activated receptor activity	polysacch polysacch beta-glucosidase activity	arides a	Ectivity	alcohol D-acetyltransferase activity
death domain binding	subunit bind	9	nding ding	TIR domain	calmodulin binding	hexon binding	polyamine binding	serpin family	SMAD	copper ior binding	Cyclic-GMP-AM binding	GPI	iron ion binding	molybdate transporter activity	L-lysine transmembran transporter activity molybdenum	sodium channel activity	hyd I O-glyd	rolase act hydrolyzir	ng ^	l-acetyltransferase activity
filamin binding	protein kir A regulat subuni bindin	ory ubique to bind	uitin ling	WW domain binding ymogen	binding	hydroxyapatite binding	etein binding Protein binding	binding	translation initiation	corticotropi hormon phos	sphatidylçl binding	holine bind retind		activity	ion	voltage-gate ctivityassium channel activity	NAD- nucleosi	+ rR dase ^{N-glyc}	NA Sosylase ivity	sphingosine N–acyltransferase activity
HECT domain binding	SH2 domai bindin	n endotl	helial factor	binding	complement	t odorant binding	protein self-association	binding	factor binding CALLEDON DESCRIPTION PROPER PROPERTY P	cyclic-di-GMI binding	retina bindin		cion cion cion cion cion cion cion cion	transmembrane transporter	monocarboxylate:soc symporter activity	dium	Manual Ma Manual Manual Manual Manual Ma Ma Ma Ma Ma Ma Ma Ma Ma Ma Ma Ma Ma	<u> </u>	transno ctase activ	sase vity

Arthropoda MF TreeMap

Second Control Contr													Alun	opoda	IVII II	eeiviap	,											
Second S	BH				CARD	cell	4 iron,	dibutyl	GPI	host cell	La. A	IC		ONA_hinding	extracellular		extracellular	extracellular									Í	fattv acid
Part			, calmoduli	n carbohydrate		adhesion		,		surface	IgA	igG	_	_		structural constituer			***************************************	arabinan endo-1,5-alpha-L-arabinosidase			beta-glucuronidase	13-beta-olucancevitansferase	amine sulfotransferase	arylamine N-acetyltransferase 4		
		protein binding	binding	binding							binding	binding	binding		lubricant	resistance			EA HOP-AN & GOVERNMENT AND	activity	activity	activity	activity	activity	activity	activity	activity	
Cycle Cycl	binding				<u> </u>		binding	_		binding			4	mombrano	·	3V	RNA polymerase											activity
March Marc	co_recento	complemen	cvclin	cytokine		death	cellulose	dynein		molyhdenum		neuronentide	a oligosaccharido			brotein-macromolec				6	exo-alpha-sialidase	glucan	lysozyme		r	· ·	cetultransferase N	-acvitransferase
March Marc						domain					N-acetylgalactosamine binding		_		regulator	adaptor activity			prompted in mage to prompted and determine	bets-N-acetylglucosaminidase activity	activity	activity	_activitv	3-cacecyl-(acyl-carrier-protein)	heparan sulfate 2-O-sulfotransferase SU	lfurtransferase	activity	
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Second Control Contr		enzyme	,	matrix	fibronectin	filamin	chitin	euchromatin	ຸ iron ion	oxygen				sequestering	1		constituent	collagen and			-	_	ADP-ribose			Sierase		
Fig. Color		binding			binding	bindina	hinding	binding	hinding	binding	binding	binding	binding	activity			of chromotic	cuticulin-based	procedural processing a series	O-glyc	osyl co	mpounds	S generating	S-methyl-phenazine-1-curboxylate	histone acetyltransferase			activity
Fig. Control			billuling	1 -			Diriumg				dina								1.00 da 1.00 d			neonullulanase	_	N-methyltransferase activity	activity	_	activity	ACCOUNT OF CONTRACT OF CONTRAC
Some of the control o	HECT	host cell	h	identical	kinesin	laminin				gen bin	phosphopantetheine	polysaccharide	retinal	sequestering			a a matitus and	t constituent			N-scetyl-bets-D-galactosaminidase activity	activity	scopolin beta-glucosidase		N-	, ve		With the state of
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protein melanin-concentrating phosphotyrosine residue binding protein hormone activity binding activity protein activity plus—end activity plus—end activity plus—end activity plus—end activity activity plus—end end plus—end end plus—end activity plus—end end plus—e		binding			cannahing	oid type 1	channel			regulator	-		F F			protein		ubiquitin							act	sacchary	au	tivity
hormone activity plus—end microtubule plus—end microtubule plus—end moment activity protein membrane activity protein membrane activity protein activity	growth		binding		ng recepto	r hormone receptor binding	inhibitor		repressor activity, RNA	activity	,	larval cuticle		:AMP-dependent	GTPase		serine	-tvpe			F		kidoredu	ctase of the second of the sec		sferase		Special specia
hormone activity residue binding receptor 4 binding protein activity activi		melanin-concentratin	g phosphotyros	ine Toll-like	e binding			activator	polymerase II-specific	tein-membrane		structural		protein kinase	inhibitor		activator inhib	bitor inhibitor	ion pro	ton char	nnel act	ivity"	activit	y	a	ctivity	carbo	
hormone activity plus—end brinding protein activity plus—end plus—end activity protein activity protein activity activity protein activity protein activity activity protein activity activity protein activity activity protein activity protein activity activity protein activity activ		hormone activity			or u <u>biqui</u>			douvity		daptor activity		constituent	of triglyceride	regulator activity	activity		activity			transporter	cnannei	activity						
normone introductive protein tumor necrosis ligase activity plus—end binding protein bornodimerization plus—end binding protein bornodimerization protein binding protein bornodimerization protein binding protein bornodimerization protein transferase activity plus—end binding bi				4 bindin	` .	in EEE		•			protein activity	tooth enam	nel transfer activity	cyclin-dependent					forrous ire-	Convity			stidogly so-	eroid	racema	ase and		
activity plus—erior inhibitor receptor binding activity activity activity processor activity plus—erior inhibitor activity activity activity activity activity processor activity processor activity processor activity processor activity processor activity a	hormone		protein			e 111	transfer	DNA-binding transcription activator activity, RNA	constituent		structural	transcription		protein	metalloendopeptidas		reductase inhibitor activity	THE REAL PROPERTY.		e monocarboxylate:sodium		1000	nuralytic dehydi	rogenase			111	
binding binding binding activity activity activity activity activity activity activity	activity			140101 1000		ng		polymerase II-specific						kinase inhibitor	inhibitor activity							780007 444	activity	ctivity	epimeras		,	
		binding	activity	binding	9				elasticity	activity	uoou ounoit		PERSONAL STATE OF THE STATE OF	activity		activity		and activity	activity		activity	-840	months aggs forms aggs forms aggs	1991		AND ADDRESS OF THE PARTY OF THE	bi	nding

Brachiopoda MF TreeMap



Bryozoa MF TreeMap



Cephalochordata MF TreeMap



Chaetognatha MF TreeMap



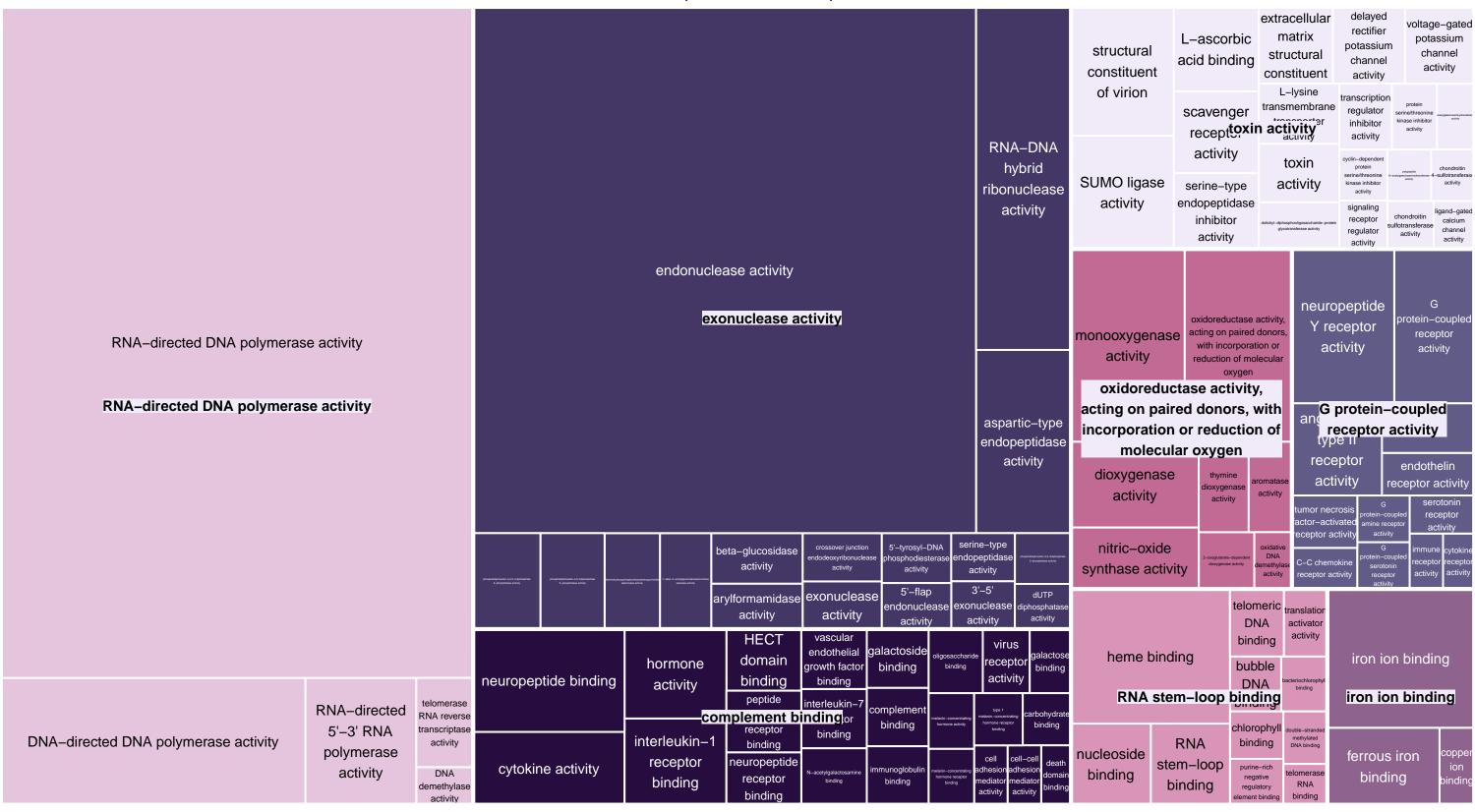
Cnidaria MF TreeMap



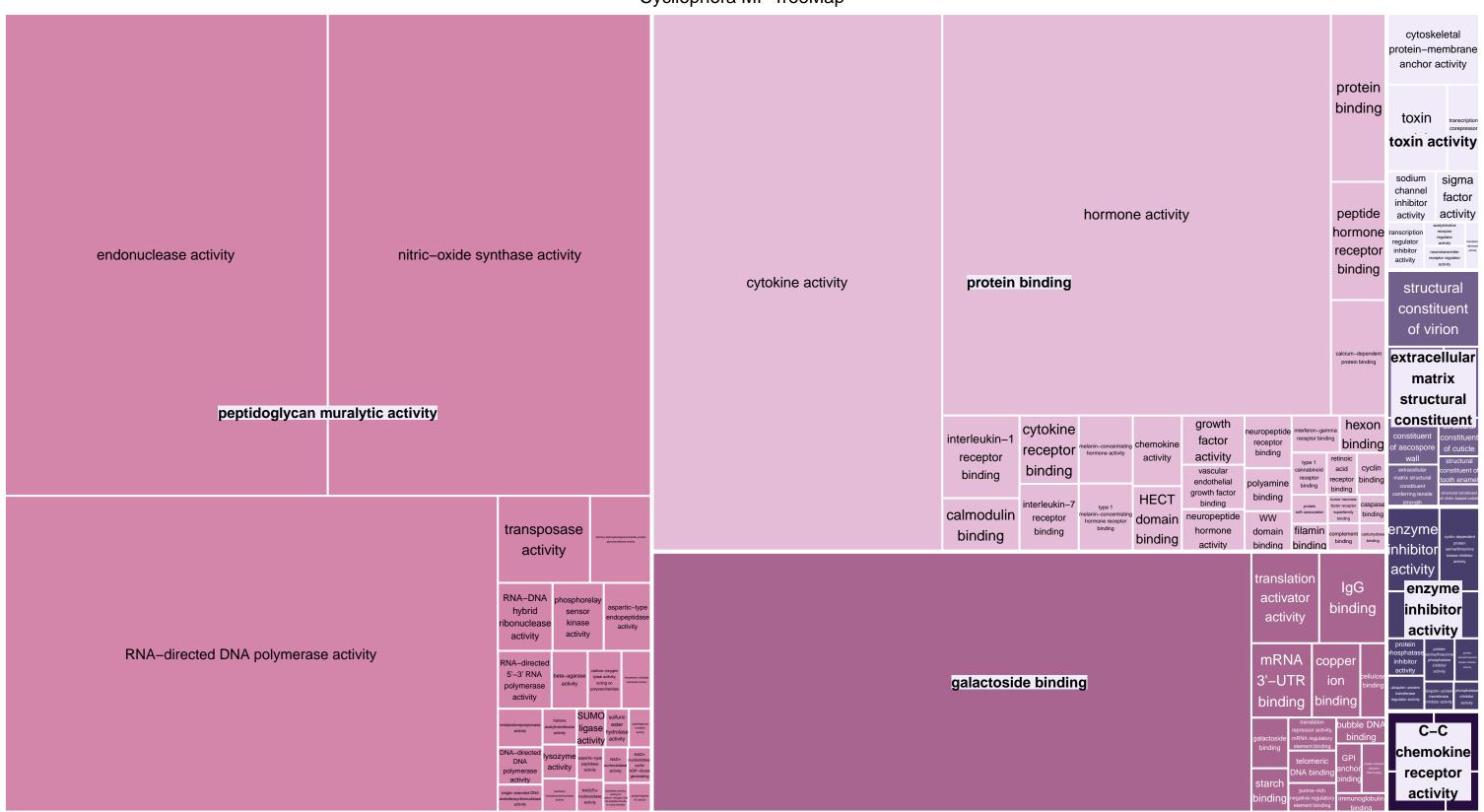
Craniata MF TreeMap

angiotensin type II receptor activity	G protein–coupled olfactory receptor activity	G protein–coupled photoreceptor activity	G protein–coupled purinergic nucleotide receptor activity	G protein–coupled receptor activity	3'-tRNA processing endoribonuclease activity	5'-flap endonuclease activity	aspartic-type endopeptidase activity	aspartic-type peptidase activity	DNA-binding transcription factor activity	Siructurai	structural constituent of cell wall	constituent COI	ructural nstituent of egg coat	11-cis-retinol dehydrogenase activity	arachidonate 2 12(S)-lipoxygenase activity	aromatase activity	ferroxidase activity
complement receptor activity	glutamate receptor activity	N-formyl peptide receptor activity	neuropeptide Y receptor activity	olfactory receptor activity	beta-glucosidase activity	endonuclease activity	glutamic-type peptidase activity	medium-chain acyl-CoA hydrolase activity	DNA-binding transcription factor activity, RNA polymerase II-specific	nutrient molecular s activity	structural sequestering of eye lens	structural gactivity of tooth	tructural onstituent	4-nitrophenol 2-mol oxidore activity	arachidonic acid eductase act epoxygenase activity	NAD-retinol dehydrogenase ivity, acting on nitric-oxide	activity
coreceptor train activity	group II metabotropic nsmembrane receptor activity	pattern recognition signaling re receptor activity	signaling eceptor activ activity	taste ityreceptor activity	choloyl–CoA hydrolase ^{So} activity	erine hydro nucleosid activity	serine-ty	rpe single-stranded DNA dase endodeoxyribonuclease activity	extracellular matrix constituent, lubricant	scavenger receptor activity	structural constituent of skin	enamel (of virion	alcohol dehydrogenase (NADP+) activity	arachidonic acid monooxygenase activity	synthase activity oxidoreductase activity, acting	hydroxylase activity
cytokine receptor activity	immune receptor activity	receptor activity	trace-amine receptor activity	receptor activity	crossover junction endodeoxyribonucleas activity ds/ssDNA	NAD+ nucleot cyclic ADP-r generatin	idase, ibose g tRNA-	intron	activity acetyltransferase activity	histone methyltransferas activity (H3–K3 specific)	ADP_ribosyltransfe	nicotinamide erase N-methyltransfe activity	e erase re	CD40 ceptor inding	cytokine activity	on metal ions melanin-concentrating hormone activity	neuropeptide hormone activity
endothelin receptor activity			receptor protein tyrosine phosphatase activity	Section Sect	junction-specific dsDNA endonuclease activity	hybrid ribonuclea activity	activ	celulase celulase actions acti	porymorado	protein	RNA-directed DNA ansferase ac	ubiquitin protein ligas tivity activity	se a	emokine ctivity	cytokine cytokine rec binding	normone	type 1 elanin-concentrating hormone receptor binding type I
11–cis retinal binding	iron ion binding	mannan binding	mannose binding	metal ion binding	acetylcholine receptor binding	acrosin binding	CARD domain binding	CD4 receptor binding	activity dollary-dehasphooligeaschande-protein	RNA-directed 5'-3' RNA polymerase	SUMO ligase	vascular endothelial growth factor–activated receptor activity	neu facto b	ciliary rotrophic r receptor inding	hormone activity	factor receptor binding	nterferon receptor binding
ferric iron binding	MHC class II protein complex binding	oxysterol binding	peptide antigen binding	peptidoglycan binding	complemen binding	t MHC protein binding	natural killer cell lectin–like receptor	protein binding	acetylcholine receptor	activity calcium sensitiv		endopeptida	pe k ise	pinding	bubble DNA binding	cGMP binding	antigen binding
GPI anchor binding	MHC prote complex binding	n ation binding phosphatidyi binding	Sidilo	virus	filamin binding	protein RIG-I binding	titin Z domain	vascular endothelial growth	inhibitor activity acetylcholine	activator activit	kinase inhibit activity		DNA	A binding s	cis-regulatory region equence-specific	RNA polymerase II transcription regulatory region sequence–specific ling ^{DNA} binding	carbohydrate binding binding
IgG binding	neuropeption binding	le proteii tyrosin kinase bir	ne ————————————————————————————————————	desectancie cuprous calcicum brodes ion ion ion ion ion	HECT domain binding	serpin	binding	factor binding Tol death binding binding protein protein binding bind	receptor regulator activity calcium	enzyme in activity		transcription	hem	e binding	RNA stem-loop binding	translation activator activity	hydroxyapatite binding
immunoglobulin binding	oligosacchari binding	de putresci bindin		binding binding binding	receptor	n family protein binding	binding	binding binding binding	channel regulator	serine/threonine phosphatase inhibitor activity	serine-type endopeptidase inhibitor activity	coactivator activity	h	mbination otspot inding	sequence–specific DNA binding	binding	odorant binding

Ctenophora MF TreeMap



Cycliophora MF TreeMap



Dicyemida MF TreeMap



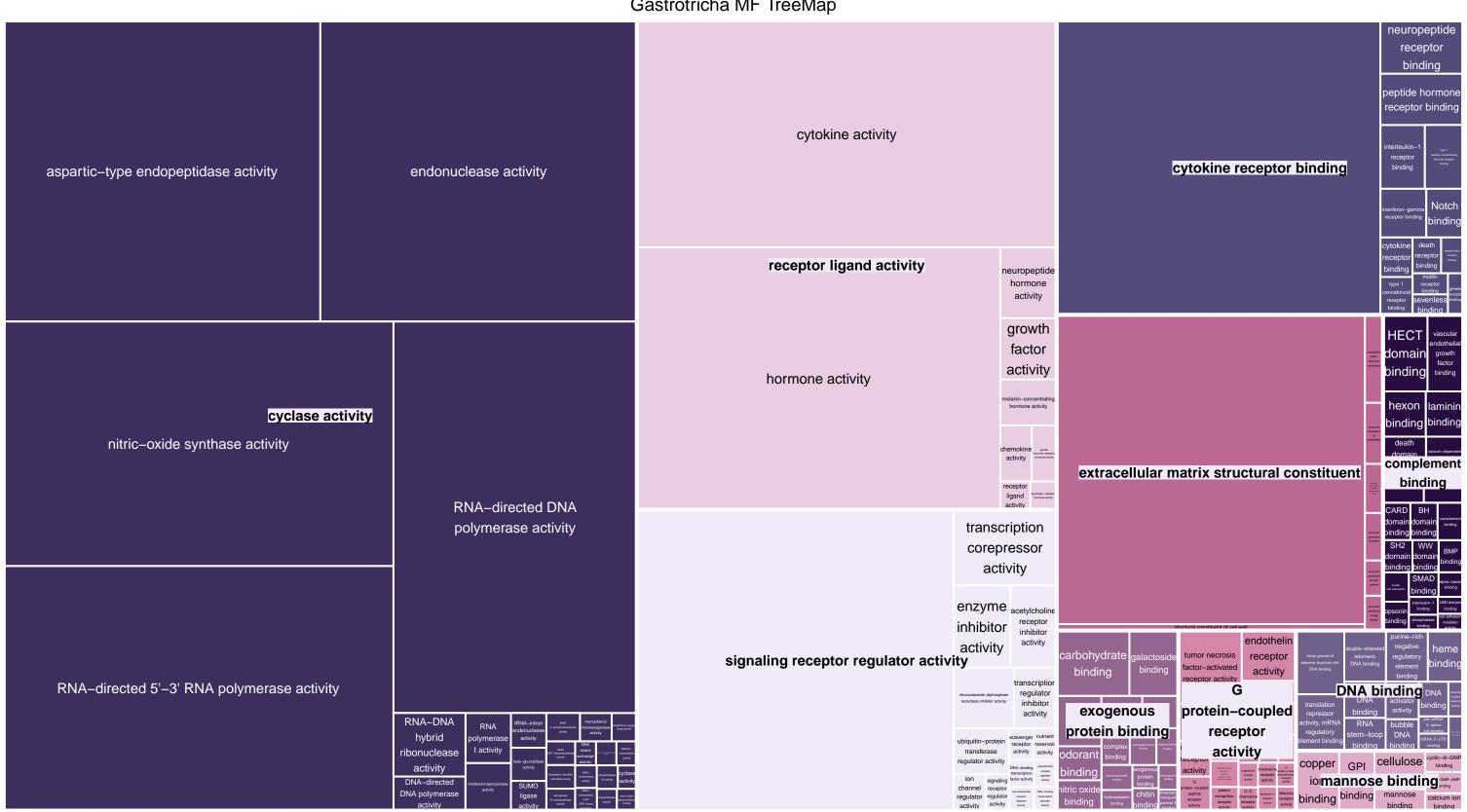
Echinodermata MF TreeMap



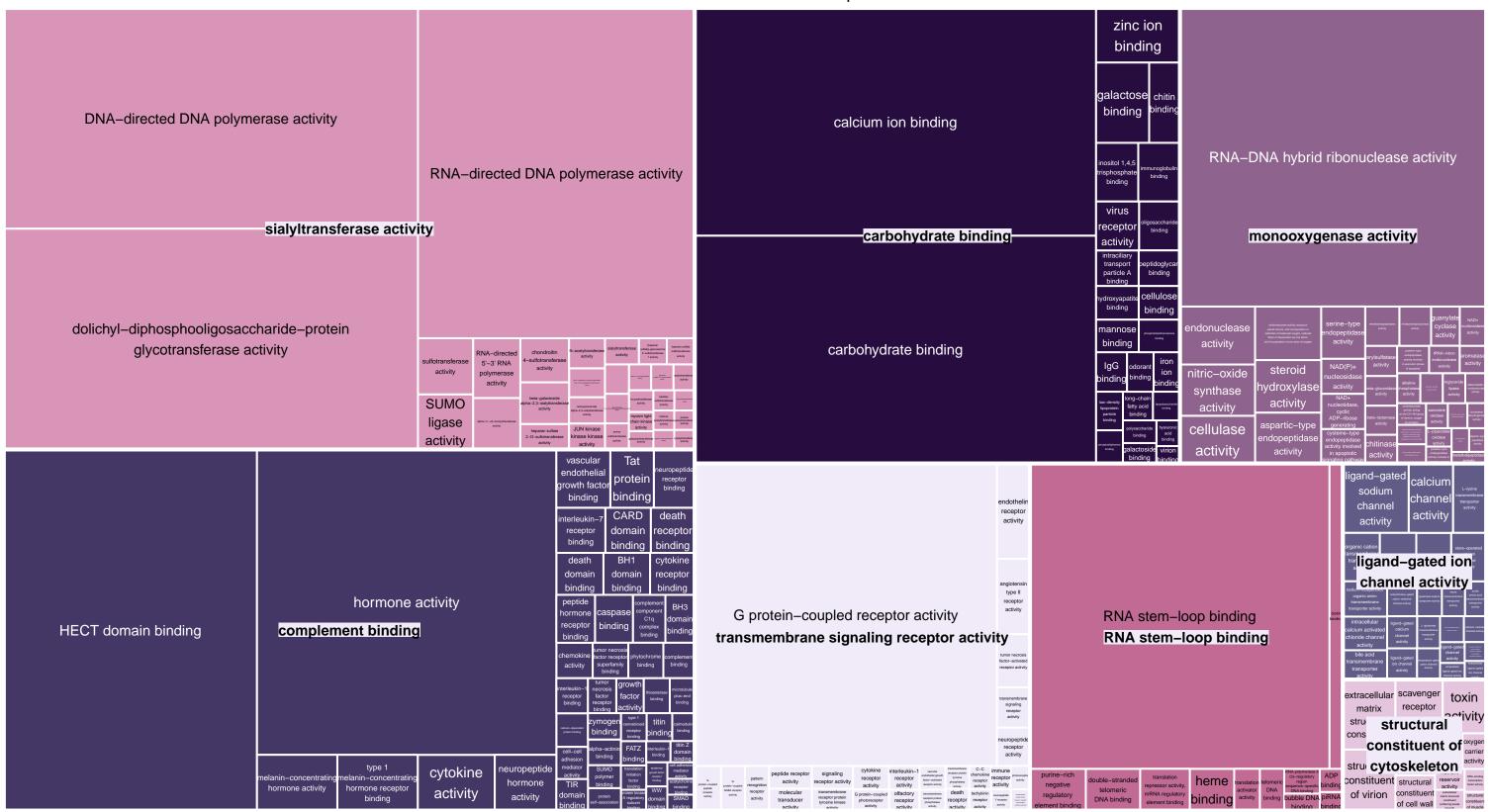
Entoprocta MF TreeMap



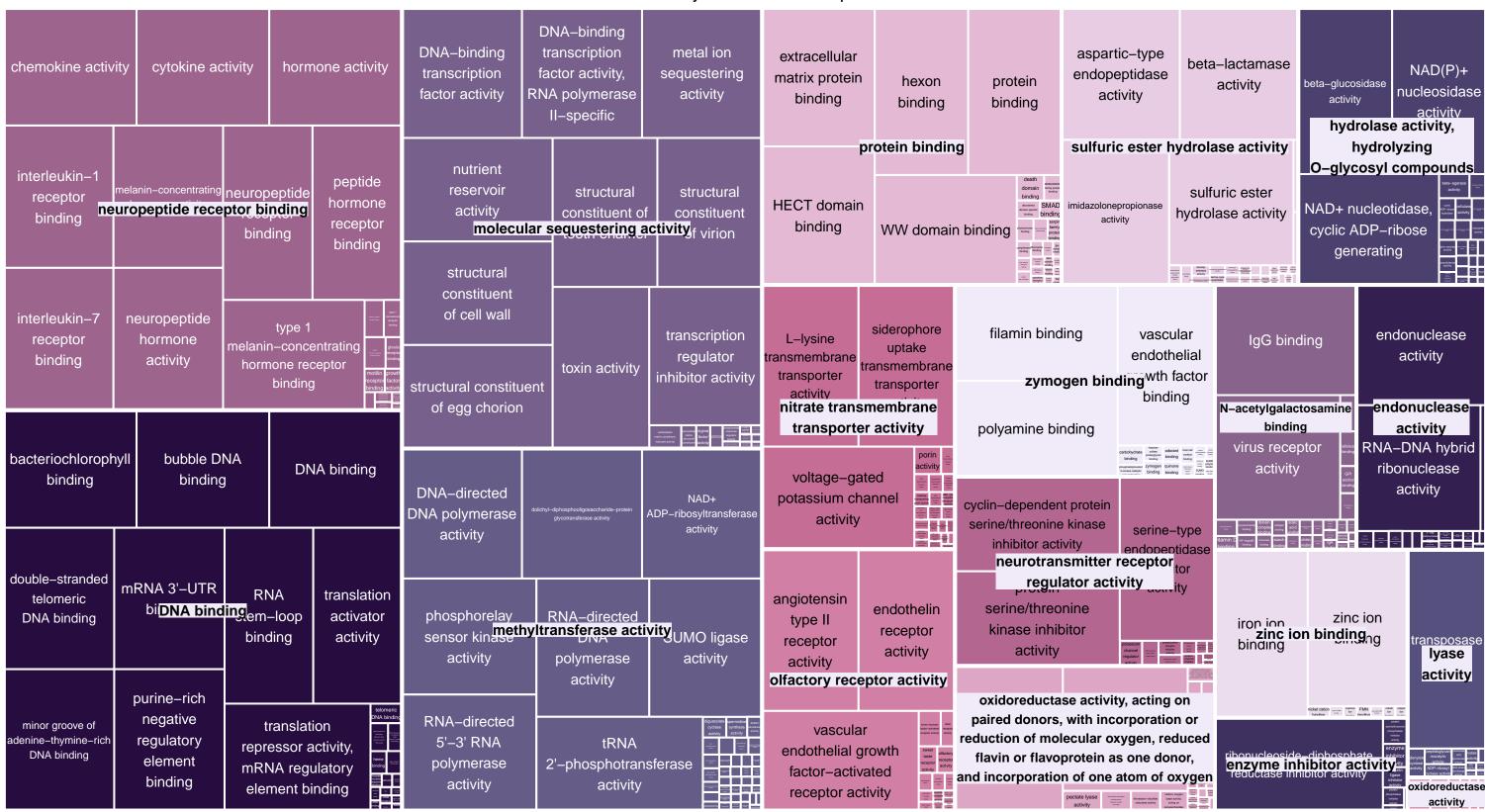
Gastrotricha MF TreeMap



Hemichordata MF TreeMap



Kinorhyncha MF TreeMap



Micrognathozoa MF TreeMap

	GTPase inhibitor	activity	structural constit	structural constituent of virion			imidazolonepropionase activity		RNA-directed DNA polymerase activity		NAD(P)+ nucleosida activity	lase V		ormone activity		_	owth factor activity
		molecular seque	stering activity structural	ribonucleoside-dipho	sphate	tructural	NAD+ nucleotidase, cyclic	ad	O ligase	transpor	orane ADP-rik cyclas rter activi	e	receptor lig				
			constituent of	reductase inhibitor a	ictivity	cell wall	ADP-ribose AD generating				n aspartic-t	/D.O.				activity	
				serine-type endopeptidas inhibitor	se ubiquitin-p	se constituent	tRNA	ADP- hydi			se endopeptio	ase			chemok		melanin–concentrating hormone activity
	toxin activity		cyclin-dependent protein	activity	regulator a	of cuticle	2'–phosphotransferase activity	transm	embrane or protein	lysozyme	ligand-gated sodium endope		e				
·		serine/threonine kinase inhibitor	molecular sequestering	protein tyrosine kinase	protein serine/threonine kinase inhibitor			e kinase tivity	activity	channel act activity	rity					chemorepellent	
			activity	activity	activato activity	activity	gap junction	barra al		NAD+	ammonium RNA-d	Colou	ytokine a	ctivity		growth ne-releasing	activity
							channel activity		ucosidase tivity	ADP-ribosyltransferase tr activity	ransmembrane 5'-3' transporter polym activity acti	rase					receptor ligand activity
phytochrome binding		complement binding	peptide hormone receptor binding	carbohydrat binding		roxyapatite pinding	IgG binding		dium ion inding	purine-ric negative regulatory	virus y receptor	re	acetylcholine receptor		anscription regulator		n-coupled or activity
			epidermal growth	HECT domai		ascular dothelial				element binding	activity		nhibitor activity		inhibitor activity		
		protein b zymogen binding	factor receptor binding	binding	gro	wth factor hinding	cellulose binding		unoglobuli bindina	activati	or Chitin	acetylcho	_{oline} signa		ion		n-coupled
			interferon-gamma	type 1	ghrelin		J	galact	toside bi	inding ctivity	<u>/ </u>	regulat			ctivity ∍l egulator		receptor civity
neuropeptide	protein binding		receptor binding	melanin-concentrating hormone receptor binding	receptor	pinaina	translation repressor activity,		A binding	oligosaccharid	telomeric DNA bindir	activit g chan	nel		activity sodium	endoth	elin
receptor binding		serpin family			binding		mRNA regulatory element binding		ending		mRNA 3'-UT	inhih	itor ch	annel ulator	channel	receptor a	
		protein binding	filamin binding	receptor binding	growth fact receptor binding	domain	double–stranded telomeric DNA binding	GF	PI anchor pinding	biotin binding	binding galactosid binding	ion cha	annel ac	tivity assium	activity	peptide re activi	

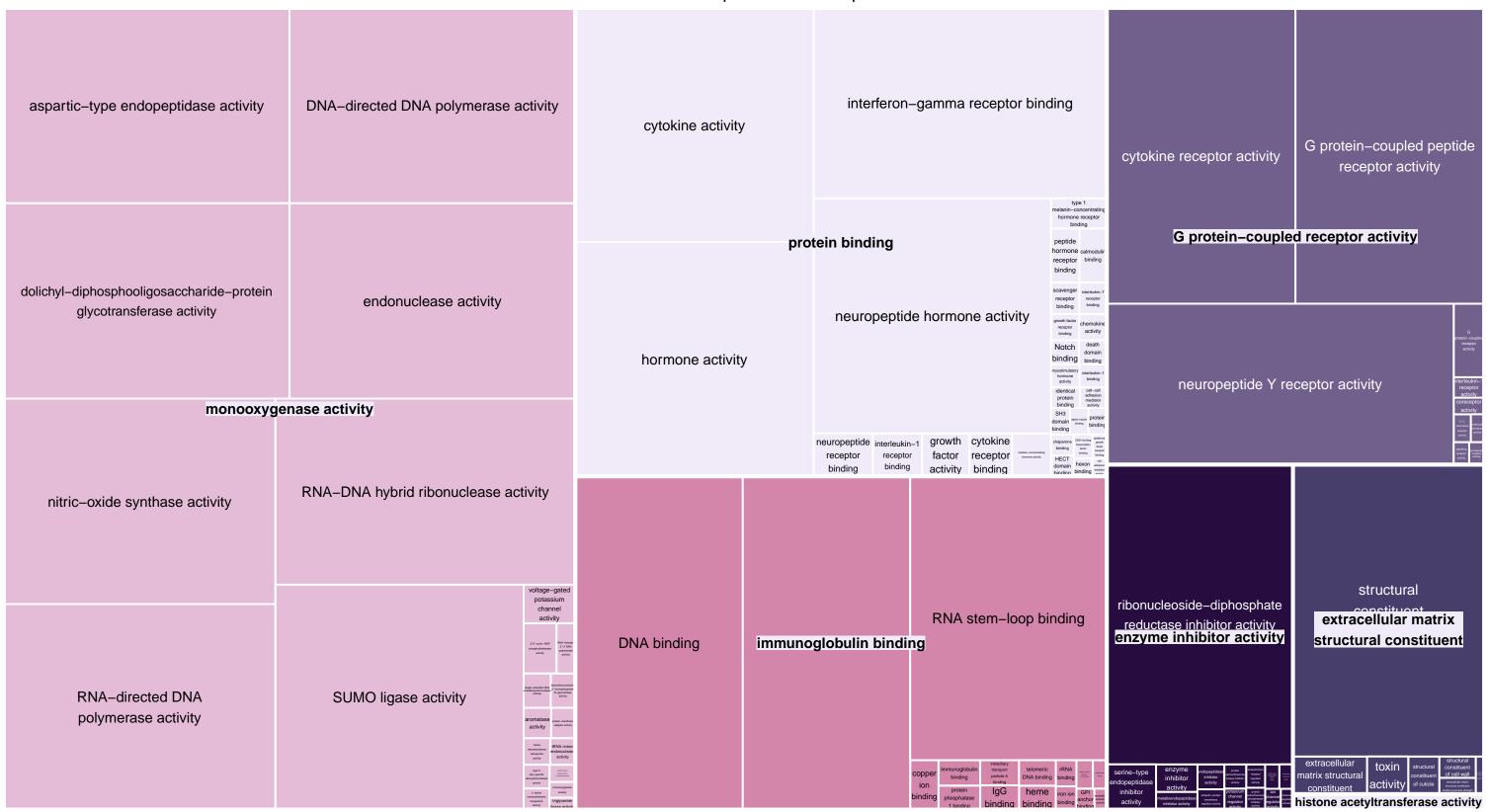
Mollusca MF TreeMap

										acca ivii	1100111	- 1									
calcium ion binding	cellulose binding	chitin binding	copper ion binding	dynein complex binding	cannabinoid receptor binding ghrelin	chemokine	cytokine activity	death receptor binding	ADP binding	cyclic-GMP-AMP binding	double-stranded RNA binding	double-stranded telomeric DNA binding	heme binding	histamine binding	3'–5' exonuclease activity	3'-tRNA processing endoribonuclease activity	5'-3' exodeoxyribonuclease activity	5'-flap endonuclease activity	3-beta-hydroxy-delta5-steroid dehydrogenase activity carbonyl	acetyl-CoA carboxylase activity dopachrome	aromatase activity
galactose binding	galactoside binding	GPI anchor binding	host cell surface receptor binding	hyaluronic acid binding	receptor	growth factor activity	growth hormone–releasin hormone activity	activity	bacteriochlorophyll binding	D-loop DNA binding	minor groove of adenine-thymine-rich DNA binding	purine-rich negative regulatory element binding	RNA polymerase II cis-regulatory region sequence-specific DNA binding	RNA polymerase II transcription regulatory region sequence-specific DNA binding	arylsulfatase activity	crossover junction endodeoxyribonuclease activity	endonuclease activity	endoribonuclease activity, producing 3'-phosphomonoesters	reductase (NADPH) activity nitric-oxide	isomerase activity polyamine	monooxygenase activity propionyl–CoA
IgA binding	iron ion binding	lipopolysaccharide binding	mannose binding	metal ion binding	receptor binding	melanin-concentrating hormone activity	hormone activity	y neuropeptide hormone activity ty ansmembrane	bubble DNA	DNA binding	mRNA 3'-UTR	RNA stem-loop binding	g single–stranded RNA binding	telomeric DNA binding	methyl indole-3-acetate	nuclease phospholipase A2 activity	e activity single-stranded DNA 3'-5' exodeoxyribonuclease	single-stranded DNA endodeoxyribonuclease activity	overthooo	oxidase /can muraly activity	carboxvlase ytic activity
IgG binding	Oligosa N-acetylgalactosamine binding	eccharide peptidoglycan binding	binding phosphatidylcholine binding	phosphatidylethanolamine binding		neuropeptide receptor binding	receptor binding	receptor protein tyrosine kinase adaptor activity	binding cyclic-di-GMP	DNA secondary	nucleic acid	single-stranded DNA binding	activator	translation repressor ctivity, mRNA regulatory	esterase activity	RNA-DNA		type II	exidensisches schelly, schrig on passed directs, with incorporation or selection of influence organ, related facilities framposities are some direct, and incorporation of one attent of oxygen and incorporation of one attent of oxygen.		transposase activity activity
immunoglobulin	neuropeptide	phosphatidylserine binding	retinal binding	retinol binding	interleukin–7 receptor binding	peptide hormone receptor binding	tumor necrosis factor receptor binding	type 1 cannabinoid receptor binding	binding DNA-binding	structure binding metal ion	binding			structural constituent	nuclease activity	hybrid eribonuclease activity	ndonuclease activity	xyribonuclease activity	peptidoglycan muralytic h activity	steroid lydroxylase activity	
intraciliary transport	binding	polysaccharide	virus z	zinc ion	kisspeptin receptor	receptor ligand	factor receptor superfamily	type 1 elanin-concentrating hormone receptor binding	transcription factor activity DNA-binding	activity	protein-macromolecule adaptor activity Structural	adaptor activity	receptor activity	of adult chitin-based cuticle structural	ABC-type glutathione S-conjugate transporter activity	gap junction hemi-chan activity	transmembr		BH domain binding	death domain binding	filamin binding
particle A binding angiotensin	binding	binding	activity = chemokine	pinding	binding calcium-dependent protein binding	activity calmodulin binding	carbohydrate		transcription factor activity, RNA polymerase II–specific	molecular sequestering activity	of ascospore wall	structural constituen of cuticle lecule ac	ot cvtoskeletor	constituent of egg	calcium-relea channel activ	ion chan	nel activ	annel potassiur		HECT domain bi binding	SH2 nding ^{main} binding
receptor activity	type II receptor activity	chemokine receptor activity	receptor activity	coreceptor activity	cytokine receptor	exogenous	extracellular matrix	hexon	extracellular matrix constituent, lubricant activity	nutrient reservoir activity	structural constituen of cell wall	structural constituent of pupal chitin-based cuticle	structural constituer of virion	lOXIII	gap junction channel activity	temperature cation cha	innel	channel activity	CARD domain	myosin binding	WW domain binding
cytokine preceptor activity	G rotein–coupled peptide receptor activity	G protein-coupled purinergic nucleotide receptor activity	G protein–coupled receptor activity	immune receptor activity	binding	binding	protein binding p53	binding		oxygen carrier activity	structural constituent of chitin-based cuticle	structural of constituen	transcripti	activity special sales and spe	cyclic-GMP-AMP synthase activity	RNA polymeras	RNA-directed	transmembrane receptor protein	binding beta-glucosidase activity	lysozyme activity	NAD(P)+ nucleosidase activity
	nterleukin–1 receptor	receptor	pancreatic polypeptide receptor activity	pattern recognition activity	binding	protein phytochrome	binding binding protein	serpin family	BH3 domain	cell-cell adhesion mediator	histone methyltransferase	microtubule plus-end	activity phosphatidylinositol 3-kinase catalytic subunit binding		nucleo	I activity tidyltran RNA-directe 5'-3' RNA	d vascular	activity	cellulase	-sialidase a	ucleosidase activity
activity G protein-coupled		peptide receptor activity	signaling receptor	transmembrane signaling receptor	receptor binding nitric	binding	self-association	protein binding TRAIL	binding	activity	binding	protein kinase A	Tat	ubiquitin	polymerase activity	polymerase activity	endothelial gr factor–activa receptor act	ated tivity	aspartic-type	NAD+	histone
chemoattractant receptor activity		peptide YY receptor activity	tumor nec	ivated state	oxide binding	polyamine binding	binding	binding translation initiation	binding	component C3b binding	"protease	subunit binding	protein binding vascular	binding		chondroit sulfotransfe activity protein O	linae -GlcNA	protein ligase		cyclic ADP-riboric ic-type atin	activity
G r protein–coupled GABA receptor activity	Y receptor activity	oheromone receptor activity	urotensi receptor a	Annual Section of the Control of the	Notch binding	protein binding	Toll binding	factor binding		histone deacetylase binding	la travaltica de	protein kinase binding	factor	binding	chondroitin 4-sulfotransfera activity	ransferas	SEA ACTIVIT	y don't ly	aspartic-type se peptidase activity end	erine-type	N-acyltransferase activity

Nematoda MF TreeMap

alpha-tubulin binding	ghrelin receptor binding	HE(dom bind	ain interferon-ç	nding rece	eukin–1 eptor ding	chondroitin 4–sulfotransferase activity	galactoside 2-alpha-L-fucosyltransferase activity	NAD+ ADP-ribosyltransferase activity	RNA polymerase I activity	bacteriochlorophyl binding	double-stran II telomeric DNA bindir	RNA polymerase cis-regulatory	stem-loop	aspartic-tyl endopeptida inhibitor activity		oitor metalloende inhibitor	
caspase binding	interleukin– receptor binding	orexige -7 neuropep QRFF recept bindin	otide Toll-lik recepto or 4 bindir	canna rece	e 1 abinoid eptor ding	DNA-directed DNA polymerase activity	EL OLDNIA	erase activity	SUMO ligase activity	bubble DNA binding	DNA b	pinding telom DNA bi	centromeric	endopeptida inhibitor activity	enzyme	inhibitor ac oside-diphosphate e inhibitor activity	tivity uitin ligase inhibitor activity
death domain binding	motilin receptor binding	BH domain peption hormo	n binding type 1 melanin-concer hormone rece	endoi eptor growth		•	RNA-directed DNA polymerase	tRNA 2'-phosphotransfer activity	phosphosisty socials SUANO activated activate script social script scrip	DNA binding	purine-rid negative regulator element bin	transla repressor y mRNA re	activity,	enzyme inhibitor activity	endo	peptidase tor activity	ubiquitin-protein transferase regulator activity
filamin	neuropeptid receptor	bindir Protein ki A regula subur	nase WW tory domain	zymogei binding	desph CARE sources from the format banding principle sources from the format banding plant and binding banding sources from the format banding sources from th	complement binding	receptor	MDM2/MDM4 family protein	1	acid phosphatase activity	aspartic-type endopeptidase activity	enaaniiciease	chemokine activity	cytokine activity	growth factor activity	acetylcholii receptor inhibitor activity signaling	ne acetylcholine receptor regulator activity
	binding copper ion cy	bindir yclic-di-GMP	g	BH Special Spe	actoside	hexon binding	protein I	scavenger oinding receptor	serpin family		RNA-DNA hybrid ster hydrolas activity	sialate se activity rase	gro <mark>hori</mark> hormone–relea hormone acti	nomo	ncentrating ne activity	receptor channel re regulator activity	transcription egulator activity
binding	binding	binding		nding bi	inding	identical	binding	binding	protein binding	metalloendopeptidase g	sialate	tRNA-intron = ndonuclease activity	hormone activity	7	peptide none ivity	sodium channel regulator activity	regulator inhibitor activity
cyclic-GMP-AMP binding	anchor	iron ion binding			lgA nding	protein binding angiotensin	self-association	Toll bindir	SMAD binding binding with the property of the	structural	structural	structural	beta-glucosida activity	NAD ase nucleo acti	sidase		pendent protein
sul mannose binding	fate binding	b inding		rate bindin odorant b		type II receptor activity	protein-coupled olfactory receptor activity	protein-coupled peptide receptor activity	G protein–coupled receptor activity	constituent of ascospore wall	of bone	constituent of cell wall	cyclic ADP-ribos	ADP_rib	ase, distant school	kinase reg	gulator activity
peptidoglyc binding	an retinol		immunoglobulir binding	oxygen b		cytokine r transmen activity	linopolysaccharic nbrane signa minute resepto activity	ling receptor receptor activity	activity signating receptor activity		structural constituent constituent or egg chorion	constituent	hydrolase DNA-bindi transcriptic factor activ	ng oxyger	ng	nitric-o synthase a	DNA-binding transcription factor activity, RNA polymerase
phosphatidylse binding	zinc id bindir	TOTAL SER PROPERTY.	lipopolysaccharide binding	virus receptor activity	dynein lipid	endothelin receptor activity	olfactory receptor activity	tumor ned	crosis tate parameter copper supply state parameter copper supply	structural constituent of cuticle	structural constituent of tooth enamel	structural = constituent of virion =		equestering	NCOVEROS PROCESSOS ECTIVITY CARROLL PROCESSOS	peptidog muralytic	lycan Total light Total li

Nematomorpha MF TreeMap



Nemertea MF TreeMap

aspartic-type endopeptidase activity	oeta–glucosidase activity	DNA-directe DNA polymerase activity	dolichyl-diphosphooligosaccharide-protein	death domain binding	filamin binding	HECT domain binding	carbohydrate binding	galactoside binding	cAMP-dependent protein kinase inhibitor activity	cyclin-dependent protein serine/threonine kinase inhibitor activity	angiotensin type II receptor activity	cytokine receptor activity
endonuclease activity p			ity	phosphatidylingsit 3–kinase catalytic subunit binding	domain bindi Tat protein binding	ng vascular endothelial growth factor	immunoglobulin binding carbohydr N-acetylgalactosamine	intraciliary transport particle A binding ate binding oligosaccharide	enzyme inhibitor activity enzyme inh	protein serine/threonine kinase inhibitor ibitor activity	endothelin rec <mark>G protein</mark> ac recepto	G –coupled r activity activity
nitric–oxide synthase activi	SUMO ity activ	9	RNA-intron ndonuclease activity	protein kinase		binding	binding	binding	serine/threonine phosphatase inhibitor activity	serine–type endopeptidase inhibitor	tumor necrosis	vascular endothelial growth
RNA-directed 5 RNA polymeras	thioredoxin	sphingosine N-acytracteras	Section 2	A regulatory subunit binding	WW domain	CARD BH	odorant binding	virus receptor activity	ribonucleoside–diphos reductase inhibitor ad		factor–activated receptor activity	factor–activated receptor activity
bacteriochlorophyll binding	double-stranded telomeric DNA binding	mRNA 3'-UTR binding	B'-UTR regulatory pinding element		interferon-gamma receptor binding	interleukin–1 receptor binding	cellulose binding pept	IgA binding idoglycan binding	zinc ion res	utrient structura servoir constitue ctivity of cell wa	nt calcium-depend	
bubble DNA binding	RN <mark>nucleic ac</mark> i	d binding activate activity	r activity, mRNA regulatory	binding	ne receptor bi hormone receptor binding	nding/pe 1 cannabinoid receptor binding	copper ion binding	IgG binding	mannose GPI monday mandor monday mandor monday mandor monday mond	of virion	protein binding	in binding protein self–association
DNA binding	telomeric DNA binding	nucleic a	element binding heme binding binding with binding b	neuropeptide receptor binding	type melanin–con hormone re bindir	centrating	cytokine activity	otor ligand activity melanin–concentrating hormone activity	ace	toxin activity tylcholine receptor channel receptor inhibitor activity	transcription regulator activity	complement hoxon birding birdi

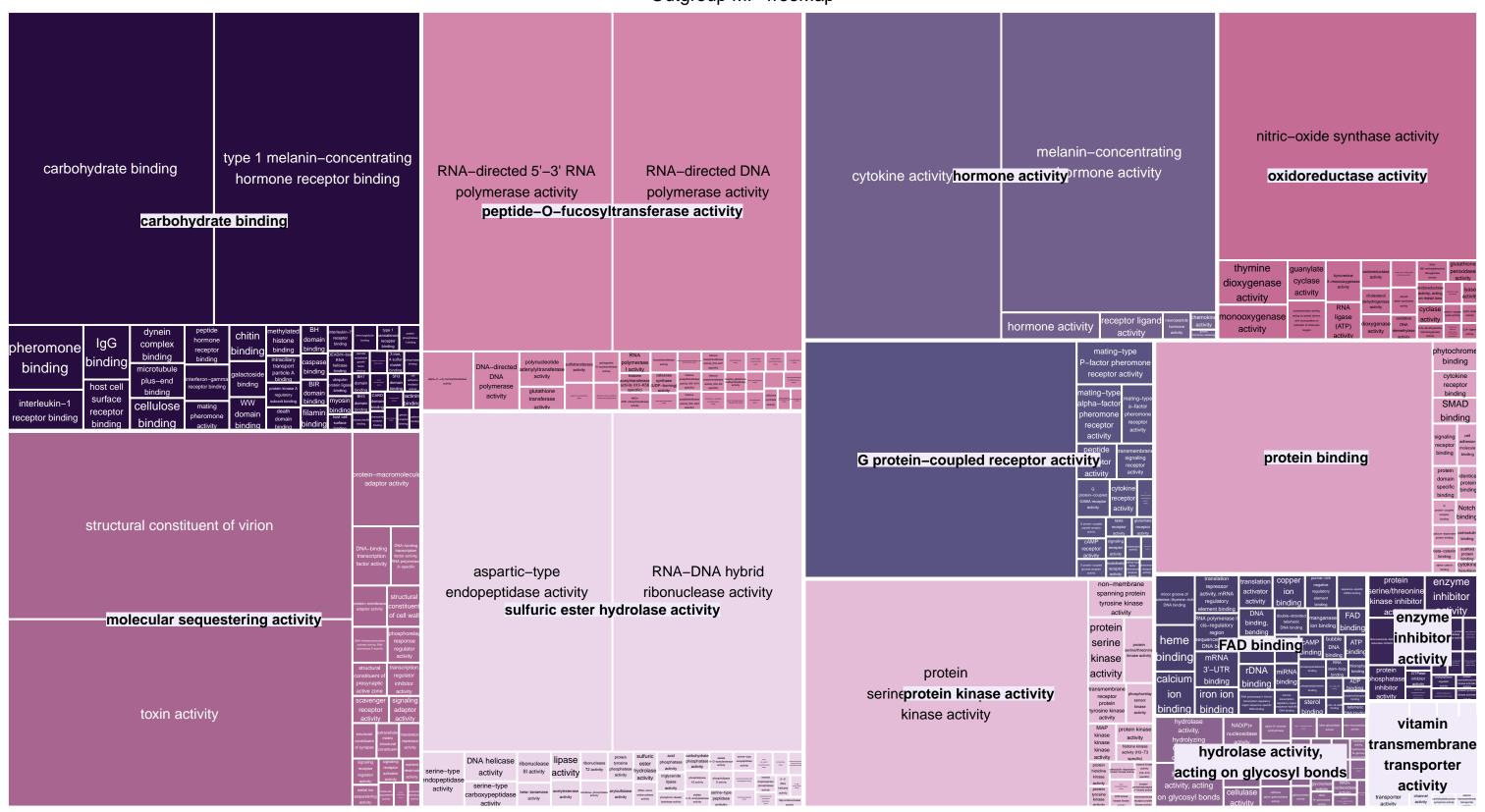
Nemertodermatida MF TreeMap



Onychophora MF TreeMap

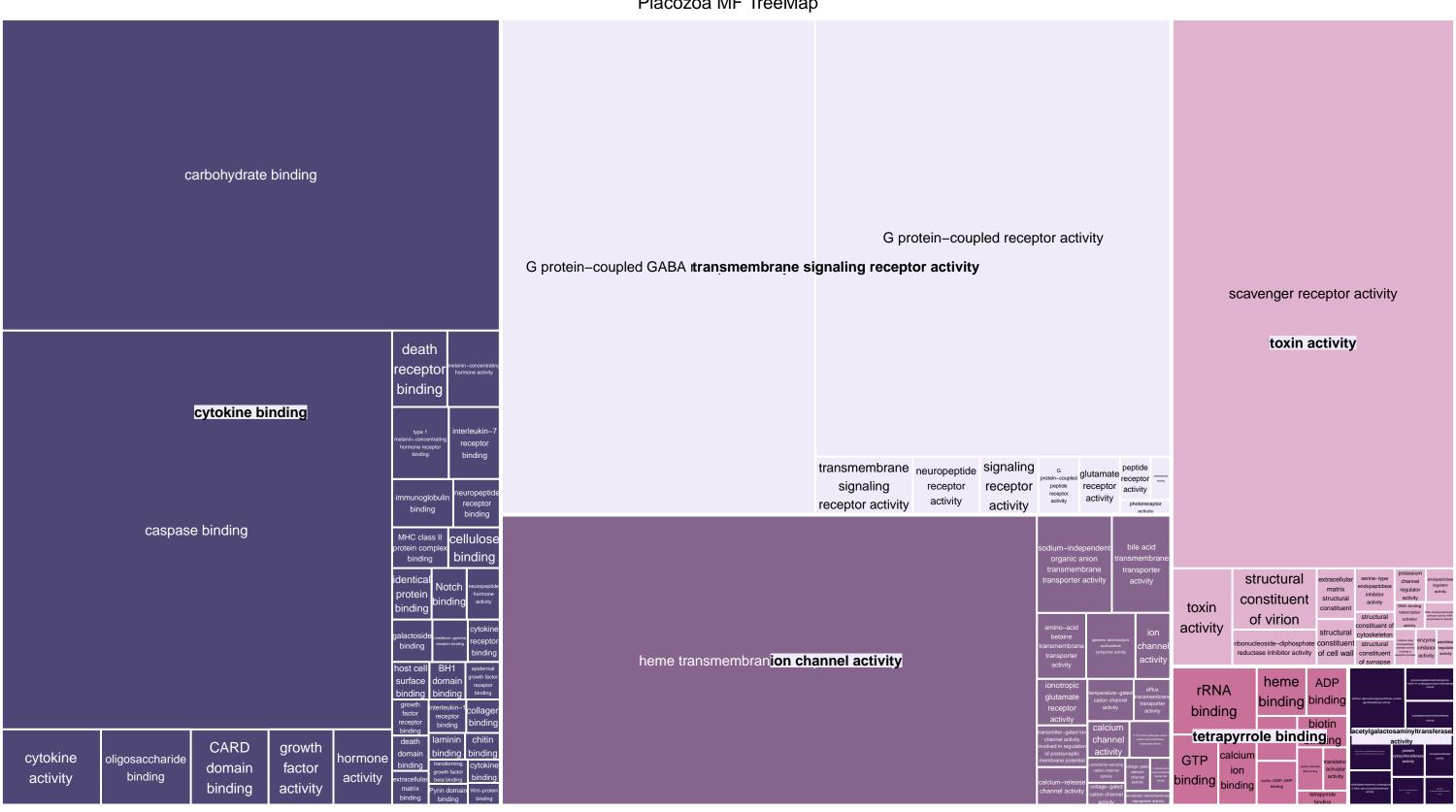
chemokine activity	y hormone a	Ctivity	nterferon–gamma receptor binding			cytokine receptor activity	cytoskeletal protein–membrane anchor activity	DNA-binding transcription activator activity, RNA polymerase II-specific	5'-flap endonuclease activity	crossover junction endodeoxyribonuclease activity	DNA-binding transcription factor activity	structural constituent of egg chorion
cytokine activity	receptor			typ ne _{melanin-co} ng hormone bino	oncentrating	DNA-binding transcription factor acpattern RNA polymerase II-specific	endothelin recognition recepto	kinetochore or activity or activity	ds/ssDNA junction–specific dsDNA endonucleendonuc	single-stranded DNA	structural constituent of	tituent of cuticle structural constituent
death domain binding	melanin-cor		yascular e growth fact		protein www. domain binding binding binding neuropeptide hormone activity retinoic acid receptor binding	DNA-binding transcription repressor activity, RNA polymerase II-specific	neuropeptide Y receptor activity	vascular endothelial growth factor–activated receptor activity		endodeoxyribonuclease activity type II site-specific	tooth enamel	of virion
HECT domain binding		neuropeptide receptor binding		binding	growth flatting binding states of the states	ADP-heptose-lipopolysacchari	de	dein-membrare angiotensin type II ornam-man interleation.1 interleation.1 interleation.1 interleation.1	protein serine/threonine phosphatase	deoxyribonuclease activity serine-type endopeptidase	toxin acti	Britan Strain St
DNA binding	DNA binding heme binding		cis–regulatory region		erase II tion region specific ding	heptosyltransterase activity	dolichyl-diphosphooligosaccharide-pr glycotransferase activity	synthase activity	inhibitor activity enzyme i	inhibitor activity nhibitor activity telomerase inhibitor activity	glycolip zyme libitor ttvity	de binding id binding id binding id binding binding copper ion binding iron ion binding binding iron ion binding comper ion manose binding iron ion binding
G_rich strand	nucl	nucleic acid binding RNA stem-loop binding		trans	lation r activity	ilist spliceos	RNA polymera activity	SUMO ligase activity	reductase inhibitor activi	aspartic-type		odorant hinding
telomeric DNA	nucleic acid binding	telome	meric DNA binding		BRMA AMERICAN STATES OF THE ST	DNA-directed DNA polymerase activity	Trivit directed i		3',5'-cyclic-AMP phosphodi <mark>aspartyl</mark> activity	' ''	binding	galactoside mnergoout binding

Outgroup MF TreeMap



Phoronida MF TreeMap

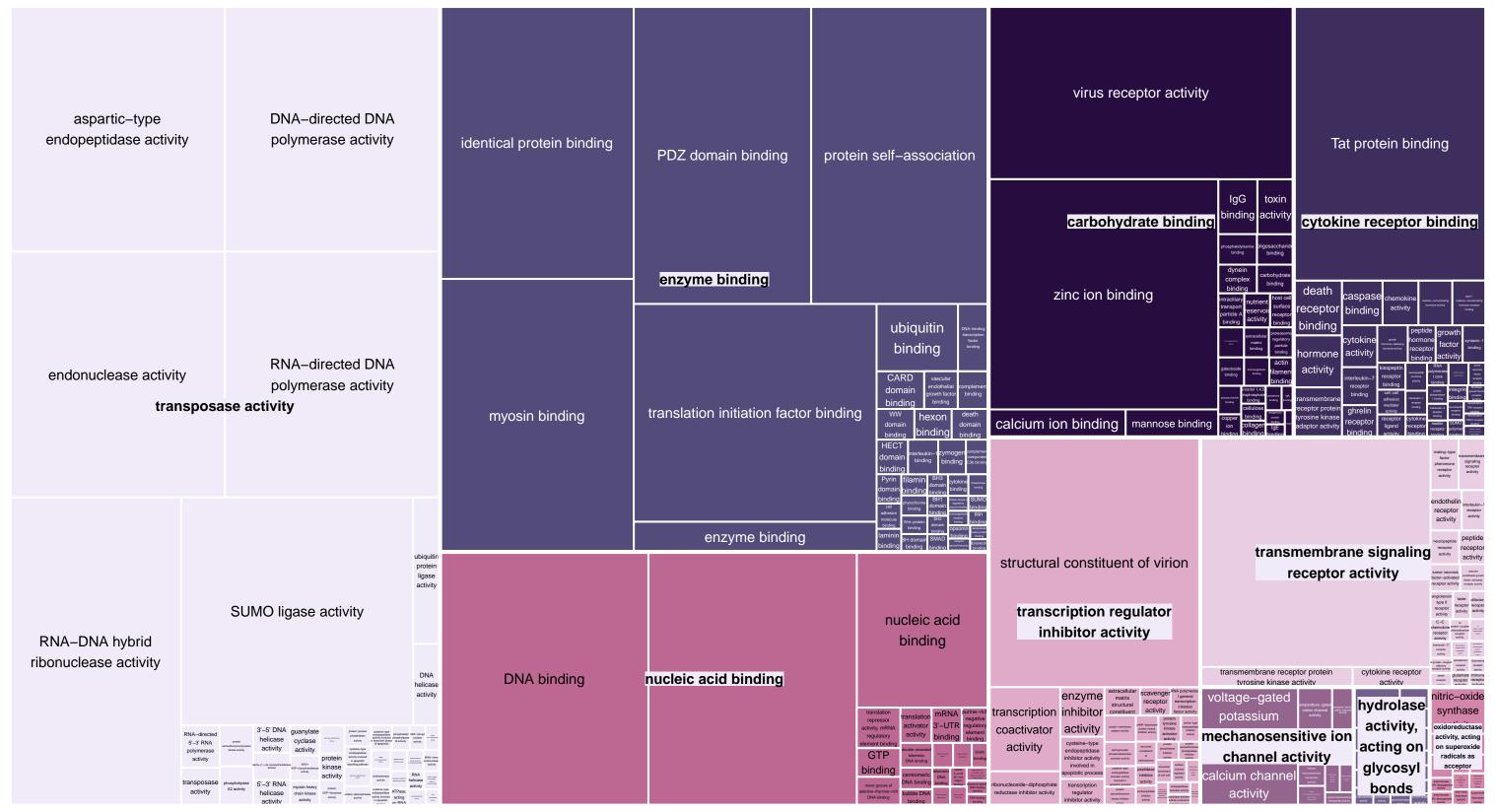




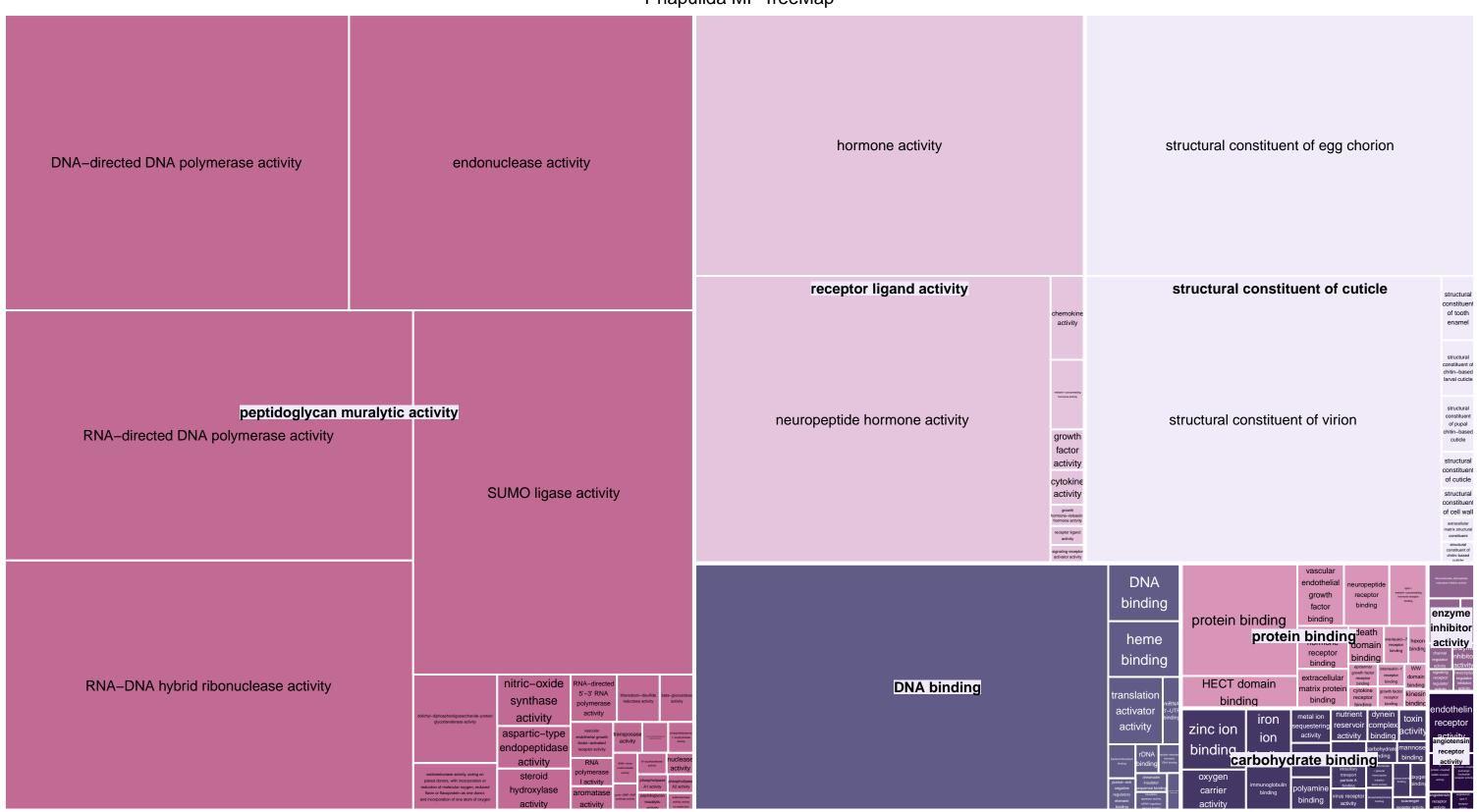
Platyhelminthes MF TreeMap

						riatynenin	THE CO IVII	Hechiap							
acetylcholine receptor inhibitor activity	cyclin-dependent protein serine/threonine kinase inhibitor activity	cysteine-type endopeptidase activator activity involved in apoptotic process	dynein complex binding	galactoside binding	host cell surface receptor binding	matrix structural constituent conferring tensile	extracellular matrix structural	nutrient reservoir activity	BH domair binding	n death d	endoded	over junction exyribonuclease activity	endonuclease activity	BH1 domain binding	BH3 domain binding
enzyme inhibitor activity	ion channel regulator activity	protein phosphatase inhibitor activity	IgA binding	particle A bi	annose _{N-acetylgalactosamine} inding	scavenger receptor activity	structural al molecule	activity ^{Iral}		kinase A end omain bindi subunit	factor		tRNA-intron Se activity clease activity	caspase interleukir	microtubule n-1 binding binding
protein serine/threonine kinase inhi chan activity	serine-type nel regulator activity	activity	imi	nunoglobulin oligosaccharide binding	nalvaaaaharida	structural	cytoskeleton	dischool approach of the control of	HECT domain binding	binding b WW domair binding	CARD Lamining Configuration of the CARD Lamining Configuration of the CARD Lamining	lucase	type II ite–specific	interleukin–1 binding	TBP-class protein binding
protein serine/threonine phosphatase inhibitor activity	corepressor	ubiquitin–protein transferase inhibitor activity	immunoglobulin binding	peptidoglycan binding	virus cellulose binding.	of cell wall	cytokine	growth factor	copper ion	cyclic–GMP–AMF		cytokine receptor	activity interleukin—	C-C	endothelin receptor
ribonucleoside-diphosphate reductase inhibitor activity	regulator inhibitor	biquitin-protein transferase egulator activity		interleukin– receptor binding	Side of the state	activity	activity	activity	phosp cyclic-di-GMP	hatidic acid			activity brane signaling	g activity G protei peptide	activity in-coupled e receptor
bubble DNA binding	centromeric DNA binding	DNA binding		neuropeptid	type 1 cannabinoid or binding	hormone – releasi hormone activity	mone activity melanin-concentratin hormone activity	ityeuropeptide hormone activity	binding	binding	binding	tumor ned	ivated	G protein-co	•
double-stranded telomeric DNA binding	heme binding	mRNA 3'–UTR binding	binding interferon–gamm receptor binding	peptide a hormone	type 1 melanin-concentrating hormone receptor binding	hormone activity		or ligand		transmembrand transporter ne-sensitive	e sodium channel e anion;tivity	acetylcho recepto	line immunoglo	bulin	nitric-oxide
nucleoside nu binding	ICICIO ACIDA DING	single-stranded ing DNA binding	calcium-dependent CO	mplement	ntical phytochrome	aspartic-type endopeptidase activity	beta-glucosidase activity	beta-lactamase activity	transmembrane transporter activity	channe activity	m succession of the control of the c	cytokine cytokine	e receptor bindi e Notch	ng mono	synthase coxygenase/activity
purine-rich negative regulatory element binding	telomeric DNA binding	translation repressor activity, mRNA regulatory element binding	protein binding	hindina	ding	i i	rolase active nydrolyzing cosyl compe	ounds, salate ase 9-0-acetylesterase	DNA-directe DNA polymerase activity	RNA-directe 5'-3' RNA	o otivity.	cytoske protein-me	eletal	thioredo	oxin disulfide acceptor
RNA stem–loop binding	translation activator activity	nucleic acid binding	binding I	hexon prot binding bind	3611-a330ciation	NAD+ nucleotic cyclic ADP-rib generating	ose	activity	pantothenate kinase	-	igase PAN STATE ST	protein-fac	anscription activictor activi	SILICULO Policnyl-alphasphooligosacchai	

Porifera MF TreeMap



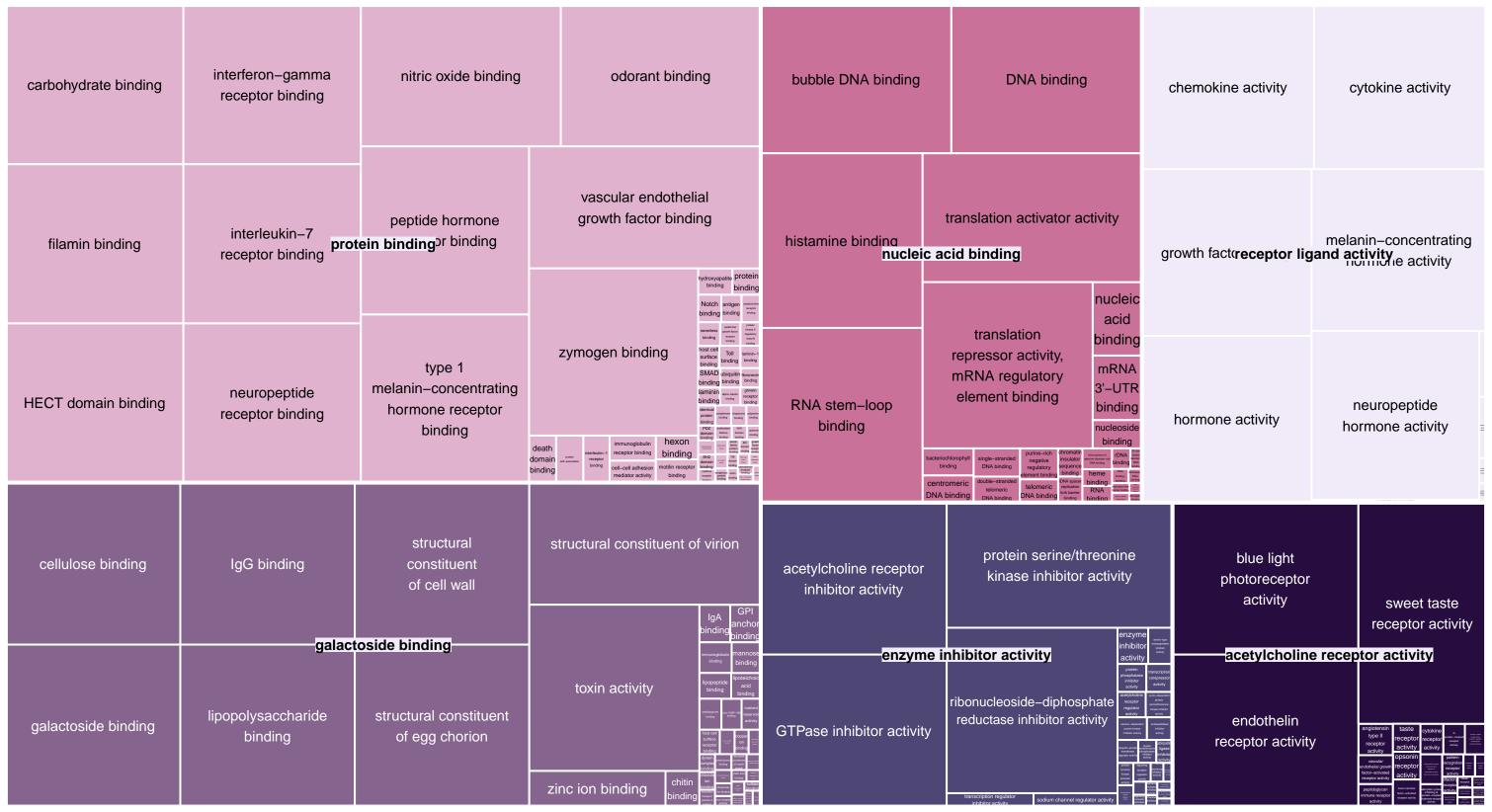
Priapulida MF TreeMap



Rotifera MF TreeMap



Tardigrada MF TreeMap



Urochordata MF TreeMap



Xenoturbellida MF TreeMap

