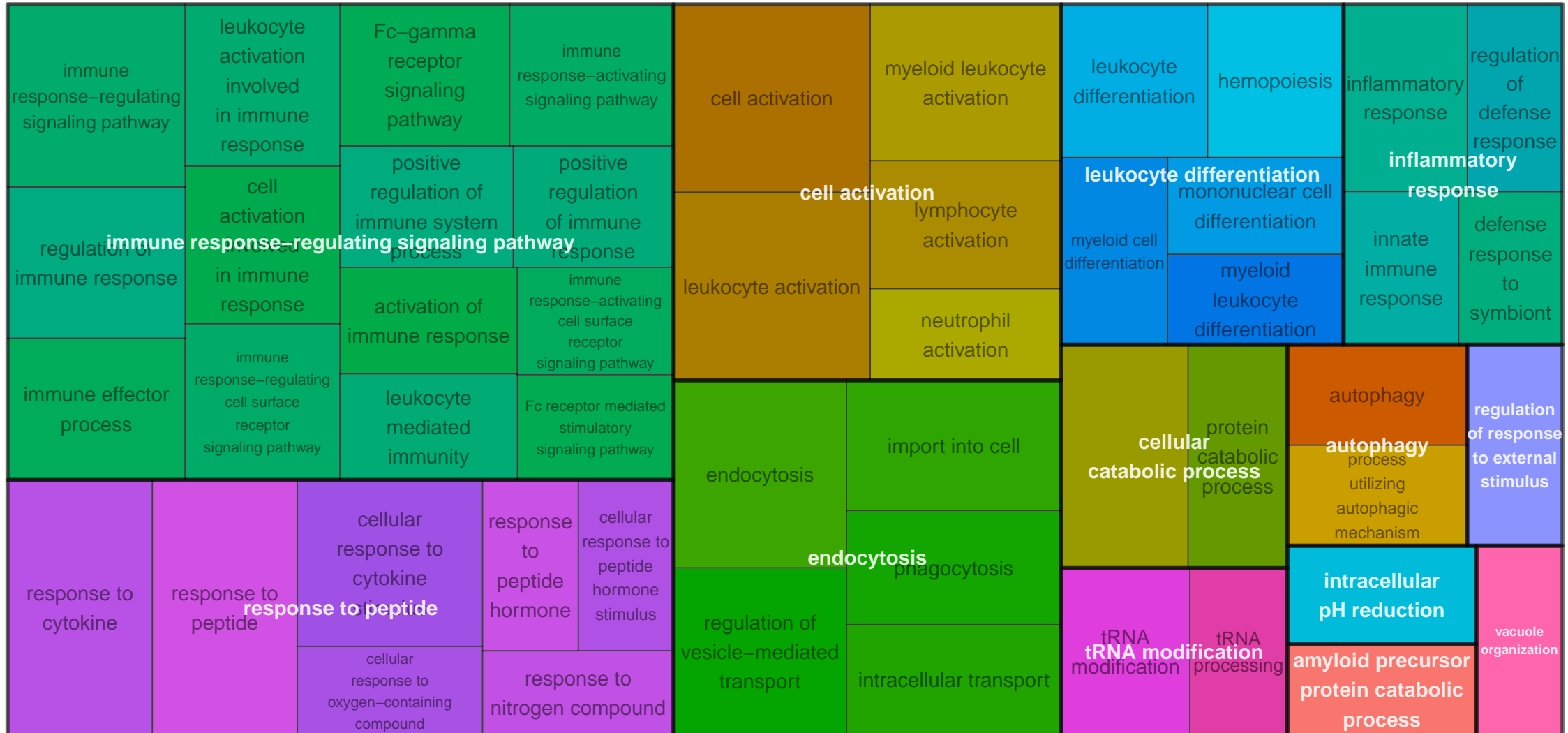


ME1



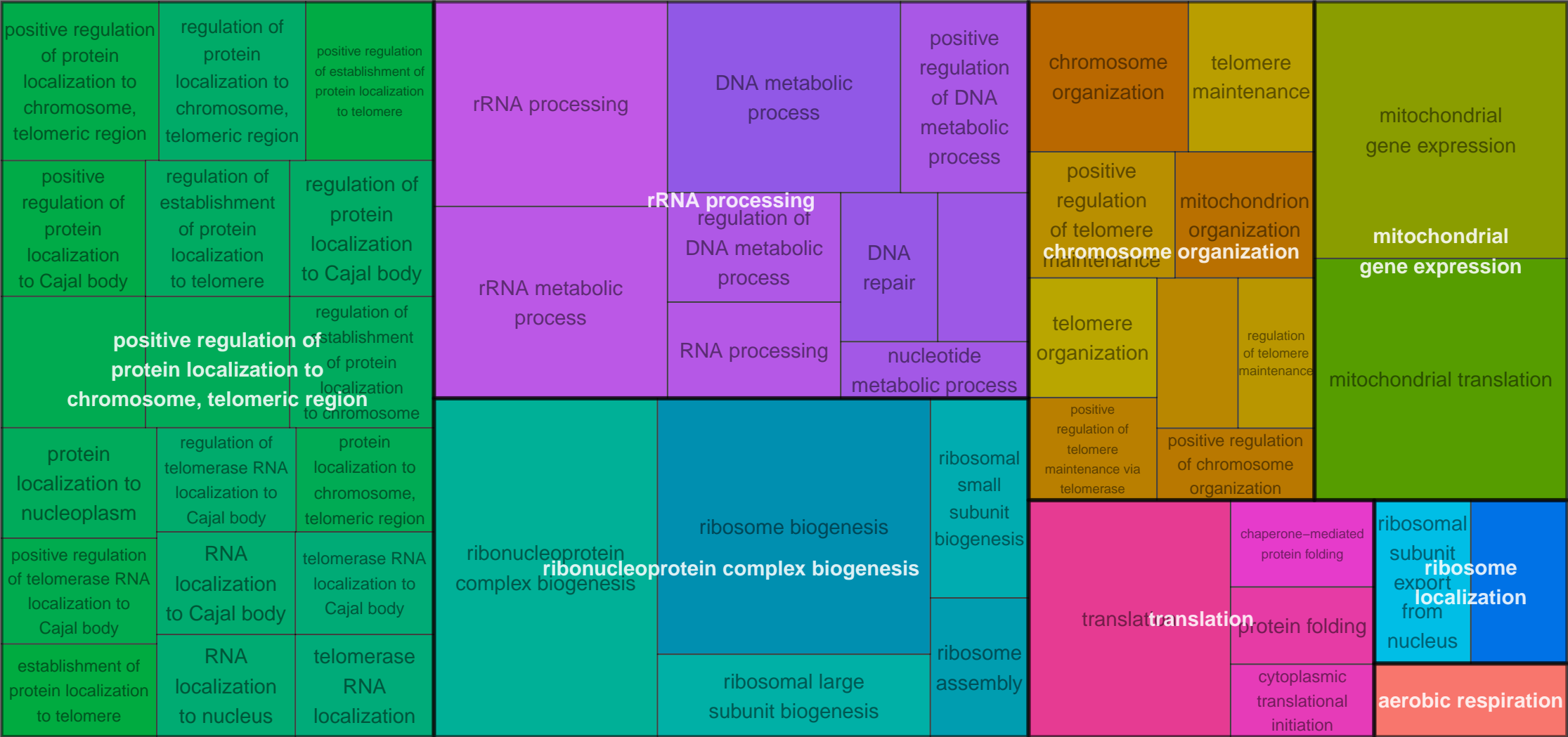
ME10

cytosolic transport

cytosolic transport
cytosolic transport, endosome to Golgi

endosomal transport

ME11

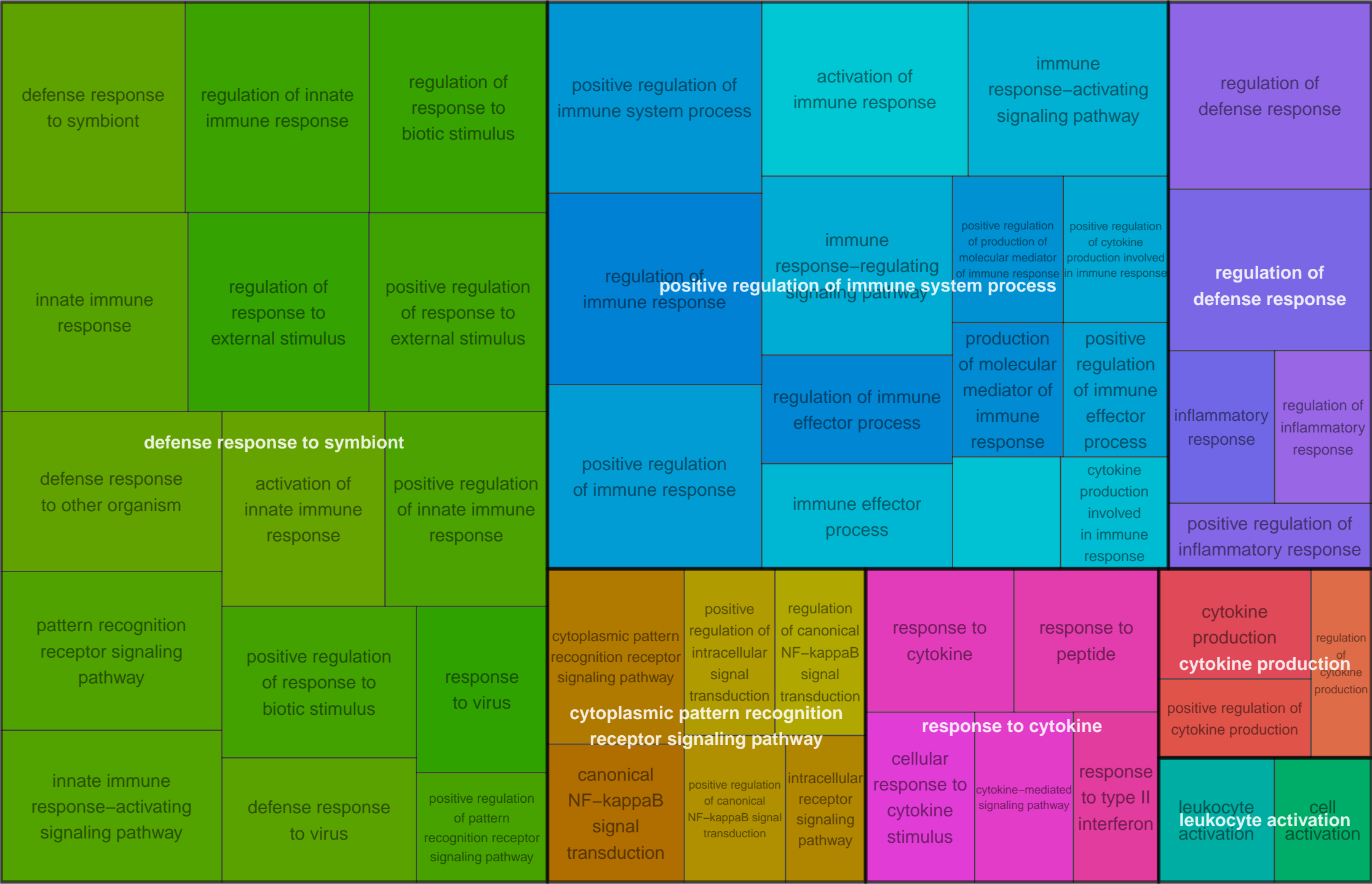


ME12

cell cycle process	regulation of cell cycle process	cell cycle phase transition	mitotic cell cycle phase transition	regulation of cell cycle phase transition	regulation of mitotic cell cycle phase transition	chromosome organization	mitotic nuclear division	protein–DNA complex assembly	nucleosome assembly		
	nuclear chromosome segregation	negative regulation of cell cycle process	cell cycle checkpoint signaling	regulation of chromosome segregation	negative regulation of cell cycle phase transition			chromosome organization	nuclear division	protein–DNA complex organization	protein–DNA nucleosome assembly
mitotic cell cycle process	mitotic sister chromatid segregation	cell cycle process	positive regulation of cell cycle process	negative regulation of cell cycle	negative regulation of mitotic cell cycle phase transition	nuclear division	regulation of mitotic nuclear division			protein–DNA complex organization	protein–DNA nucleosome organization
mitotic cell cycle	sister chromatid segregation		regulation of mitotic cell cycle	mitotic cell cycle checkpoint signaling	mitotic sister chromatid separation			regulation of sister chromatid segregation	organelle fission		
		chromosome separation	mitotic cell cycle checkpoint signaling	mitotic sister chromatid separation	regulation of sister chromatid segregation	metaphase/anaphase transition of mitotic cell cycle	regulation of nuclear division	chromatin remodeling		chromatin organization	
chromosome segregation	regulation of cell cycle	regulation of chromosome separation	regulation of mitotic sister chromatid separation	positive regulation of cell cycle	meiotic cell cycle	metaphase/anaphase transition of cell cycle			DNA replication		DNA replication process
			DNA replication	DNA replication process	DNA–templated DNA replication		DNA damage response				

ME13

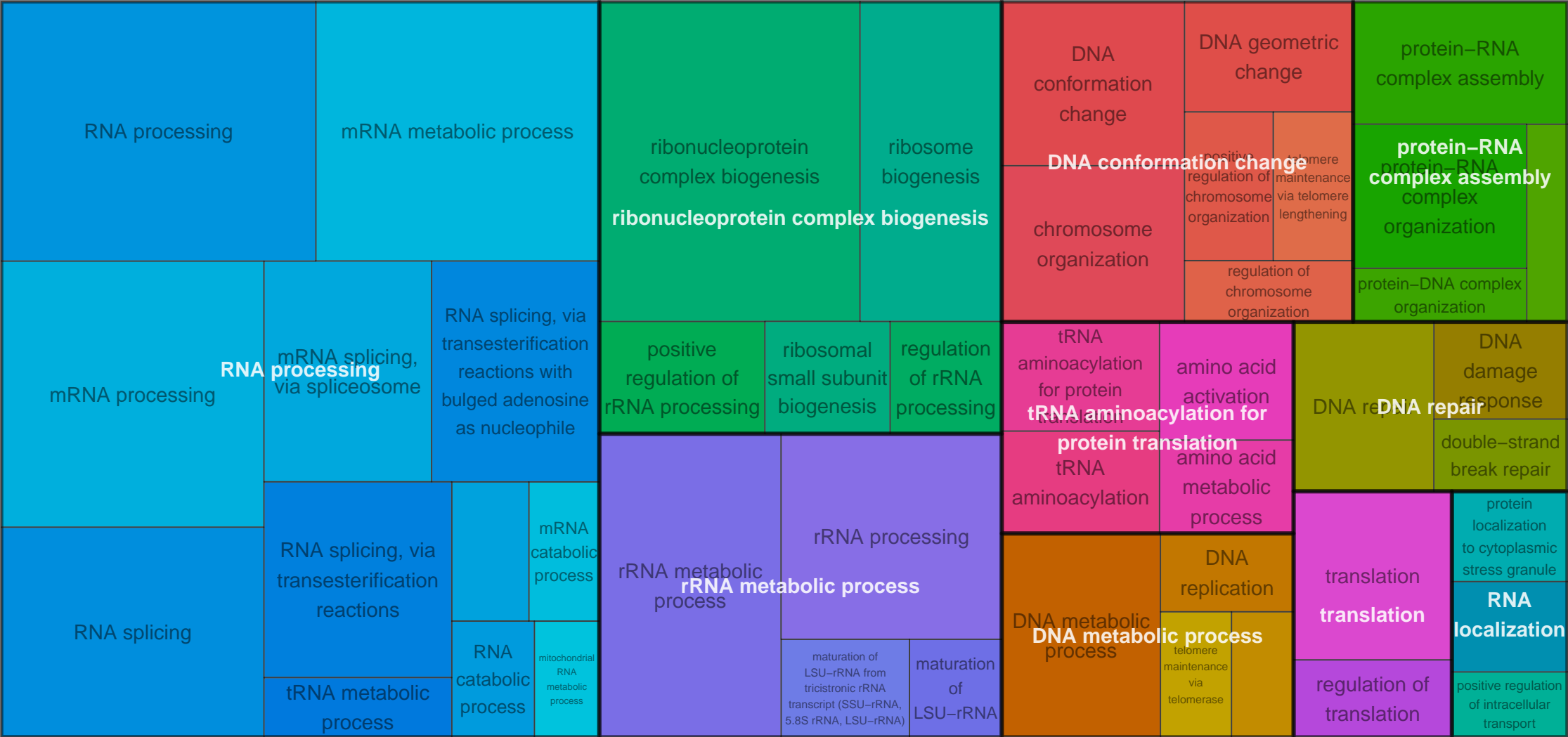
antigen processing and presentation of endogenous peptide antigen via MHC class I via ER pathway, TAP-dependent		antigen processing and presentation of endogenous peptide antigen via MHC class Ib		antigen processing and presentation of exogenous peptide antigen via MHC class I		antigen processing and presentation of peptide antigen via MHC class Ib	
antigen processing and presentation of endogenous peptide antigen via MHC class I via ER pathway, TAP-independent		antigen processing and presentation of endogenous peptide antigen via MHC class I		antigen processing and presentation of exogenous peptide antigen via MHC class Ib		regulation of adaptive immune response	
antigen processing and presentation of endogenous peptide antigen via MHC class I via ER pathway		antigen processing and presentation of endogenous peptide antigen		regulation of immune effector process		positive regulation of immune effector process	
detection of chemical stimulus involved in sensory perception of bitter taste		detection of chemical stimulus involved in sensory perception of taste		sensory perception of bitter taste		sensory perception of taste	
positive regulation of retrograde protein transport, ER to cytosol		retrograde protein transport, ER to cytosol		positive regulation of retrograde protein transport, ER to cytosol		endoplasmic reticulum to cytosol transport	
endoplasmic reticulum to cytosol transport		exit from endoplasmic reticulum		positive regulation of retrograde protein transport, ER to cytosol		positive regulation of protein exit from endoplasmic reticulum	
organelle fusion		vacuole organization		vesicle fusion		organelle fusion	
negative regulation of cellular component organization		organelle membrane fusion		vesicle organization		negative regulation of cellular component organization	
positive regulation of T cell mediated cytotoxicity		protection from natural killer cell mediated cytotoxicity		positive regulation of T cell mediated cytotoxicity		ERAD pathway	
positive regulation of T cell mediated cytotoxicity		regulation of T cell mediated cytotoxicity		positive regulation of cell killing		ERAD pathway	
autophagy		process utilizing autophagic mechanism		positive regulation of interleukin-6 production		positive regulation of proteolysis	
regulation of TORC1 signaling		endoplasmic reticulum calcium ion homeostasis		Golgi vesicle transport		regulation of response to biotic stimulus	



ME15

leukocyte activation		cell activation		lymphocyte activation		alpha-beta T cell activation		adaptive immune response		lymphocyte mediated immunity		regulation of immune response		positive regulation of natural killer cell mediated cytotoxicity		negative regulation of immune system process		defense response to other organism	
T cell activation		regulation of lymphocyte activation		alpha-beta T cell differentiation involved in immune response		lymphocyte activation involved in immune response		immune effector process		natural killer cell mediated cytotoxicity		positive regulation of natural killer cell mediated immunity		positive regulation of lymphocyte mediated immunity		positive regulation of immune system process		defense response to other organism	
		leukocyte activation involved in immune response		leukocyte activation		alpha-beta T cell differentiation				CD4-positive, alpha-beta T cell differentiation		T cell differentiation		regulation of lymphocyte mediated immunity		regulation of leukocyte mediated immunity			
regulation of leukocyte activation		CD4-positive, alpha-beta T cell activation				T cell differentiation involved in immune response		CD4-positive, alpha-beta T cell differentiation involved in immune response		leukocyte mediated immunity		natural killer cell mediated immunity		regulation of immune effector process		positive regulation of leukocyte mediated immunity		regulation of response to external stimulus	
regulation of cell activation		cell activation involved in immune response		T cell activation involved in immune response		natural killer cell activation		regulation of natural killer cell activation				positive regulation of cell killing		positive regulation of cell killing		leukocyte mediated cytotoxicity		regulation of cell killing	
																		granzyme-mediated programmed cell death signaling pathway	
																		cellular defense response	

ME16



ME18

regulation of viral process	regulation of viral life cycle	response to virus		regulation of response to biotic stimulus		regulation of innate immune response		positive regulation of innate immune response		defense response to symbiont		innate immune response	
negative regulation of viral process	negative regulation of viral genome replication			positive regulation of response to biotic stimulus		activation of innate immune response		negative regulation of innate immune response					
				antiviral innate immune response		negative regulation of response to biotic stimulus		pattern recognition receptor signaling pathway					
regulation of viral process		defense response to virus		cytoplasmic pattern recognition receptor signaling pathway		innate immune response-activating signaling pathway		regulation of response to external stimulus		activation of immune response		positive regulation of response to external stimulus	
regulation of viral genome replication				response to type I interferon		response to interferon-alpha		response to interferon-beta		regulation of type I interferon-mediated signaling pathway		response to peptide	
viral life cycle				response to type I interferon		response to interferon-alpha		response to interferon-beta		regulation of type I interferon-mediated signaling pathway		response to peptide	
viral process		viral genome replication		response to type I interferon		response to interferon-alpha		response to interferon-beta		regulation of type I interferon-mediated signaling pathway		response to peptide	
				response to type I interferon		response to interferon-alpha		response to interferon-beta		regulation of type I interferon-mediated signaling pathway		response to peptide	
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ME2

homophilic cell adhesion via plasma membrane adhesion molecules

cell-cell adhesion
plasma-membrane
adhesion molecules

import across
plasma
membrane

import across
plasma
membrane

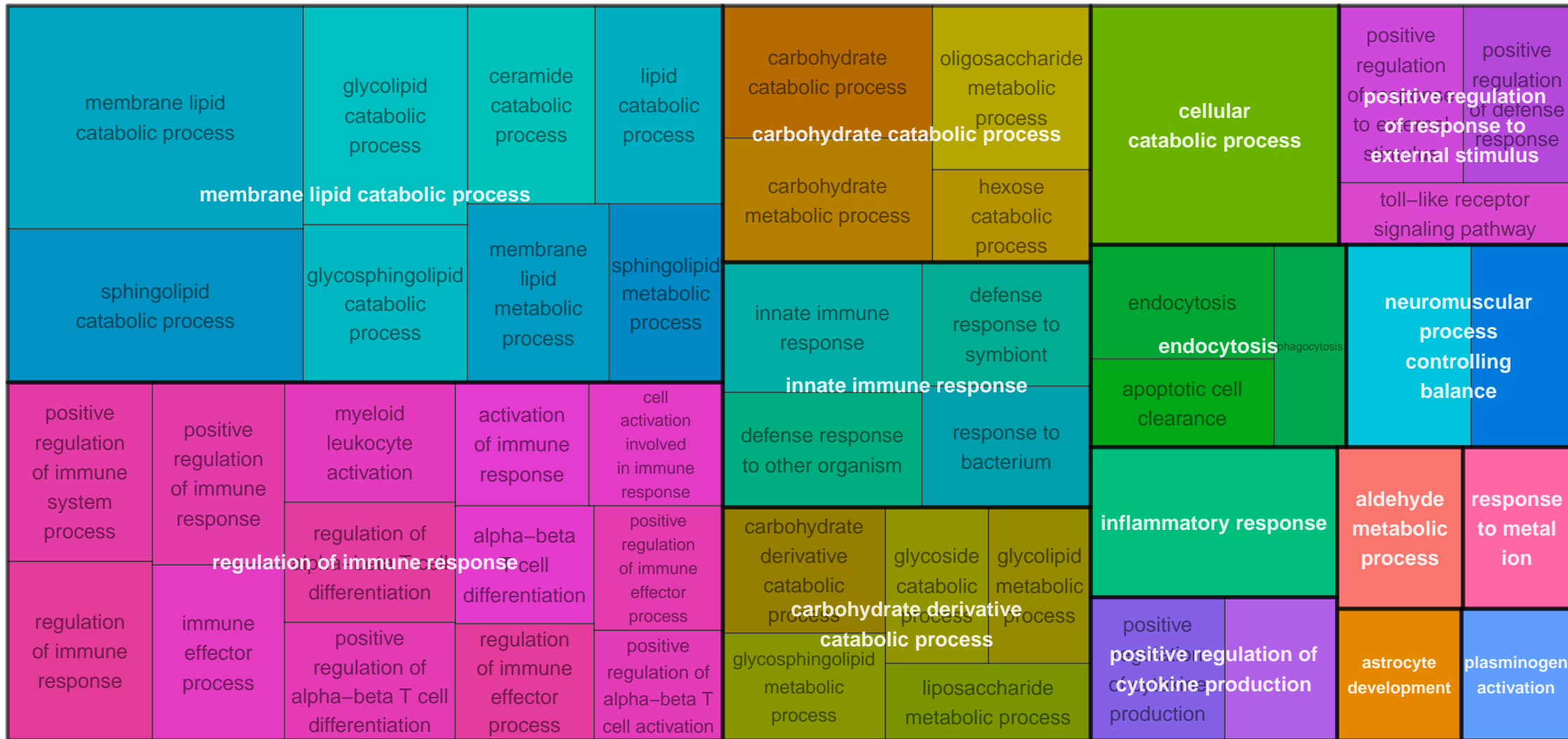
inorganic ion
import across
plasma
membrane

monoatomic
ion
transmembrane
transport

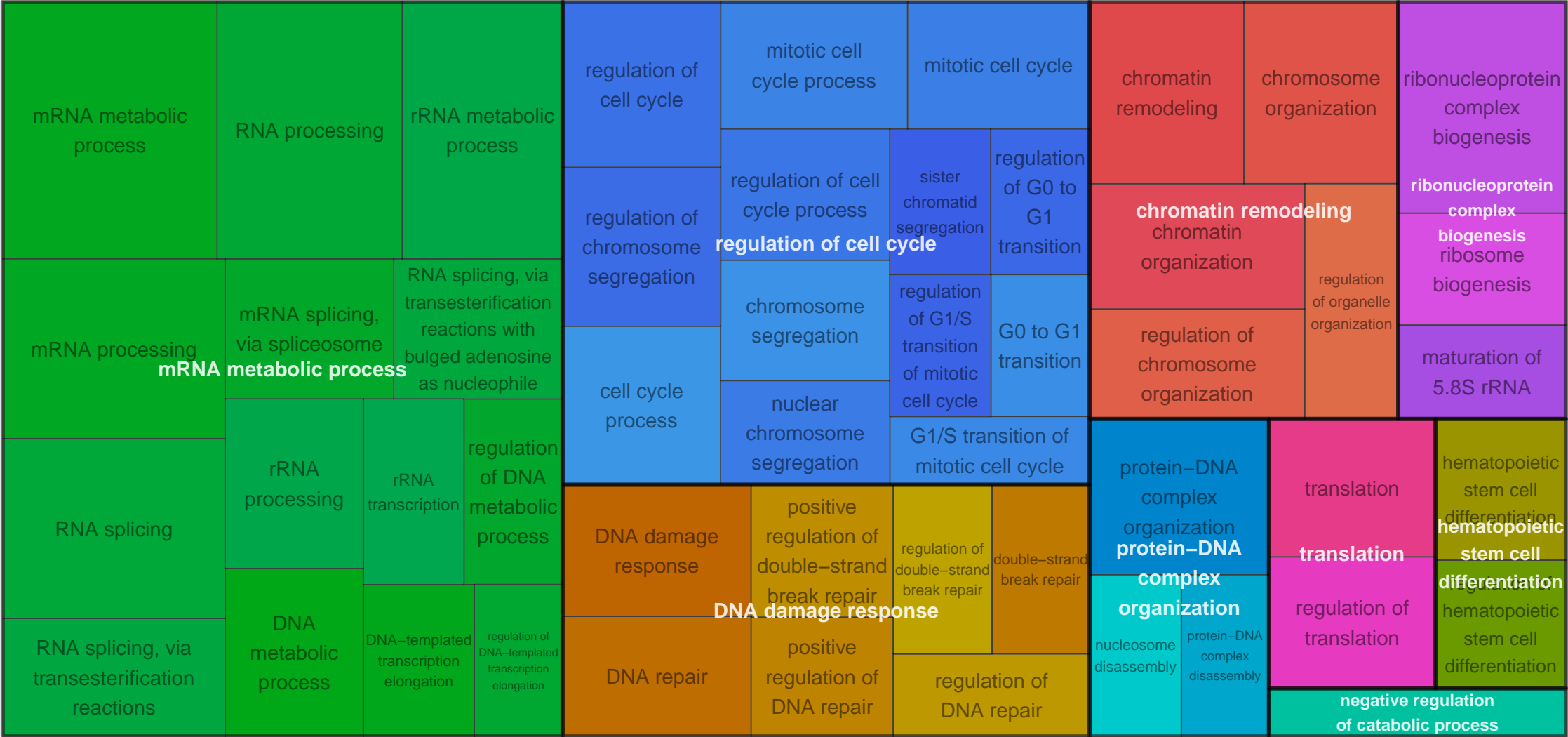
cell junction
organization

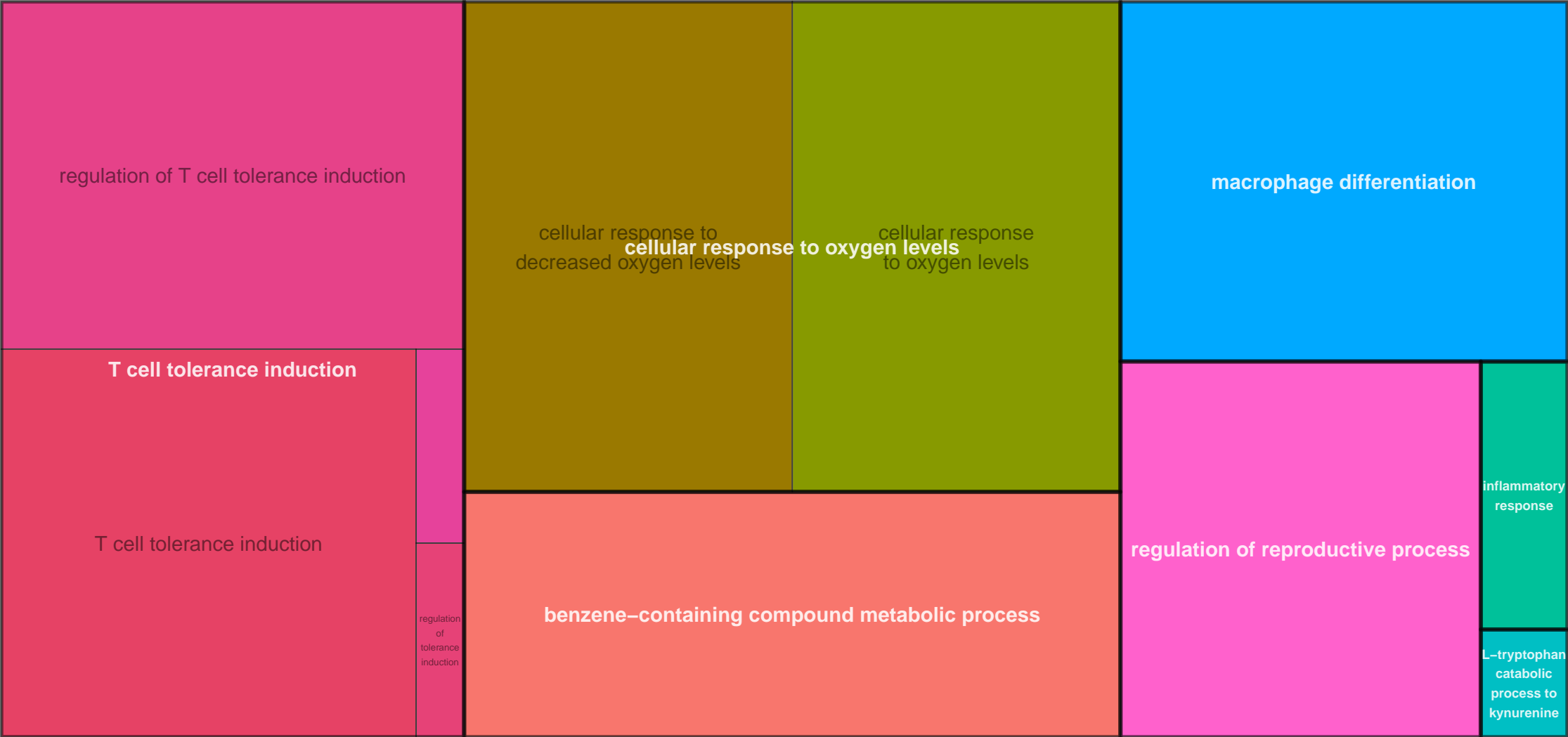
detection of
stimulus

ME20



ME21

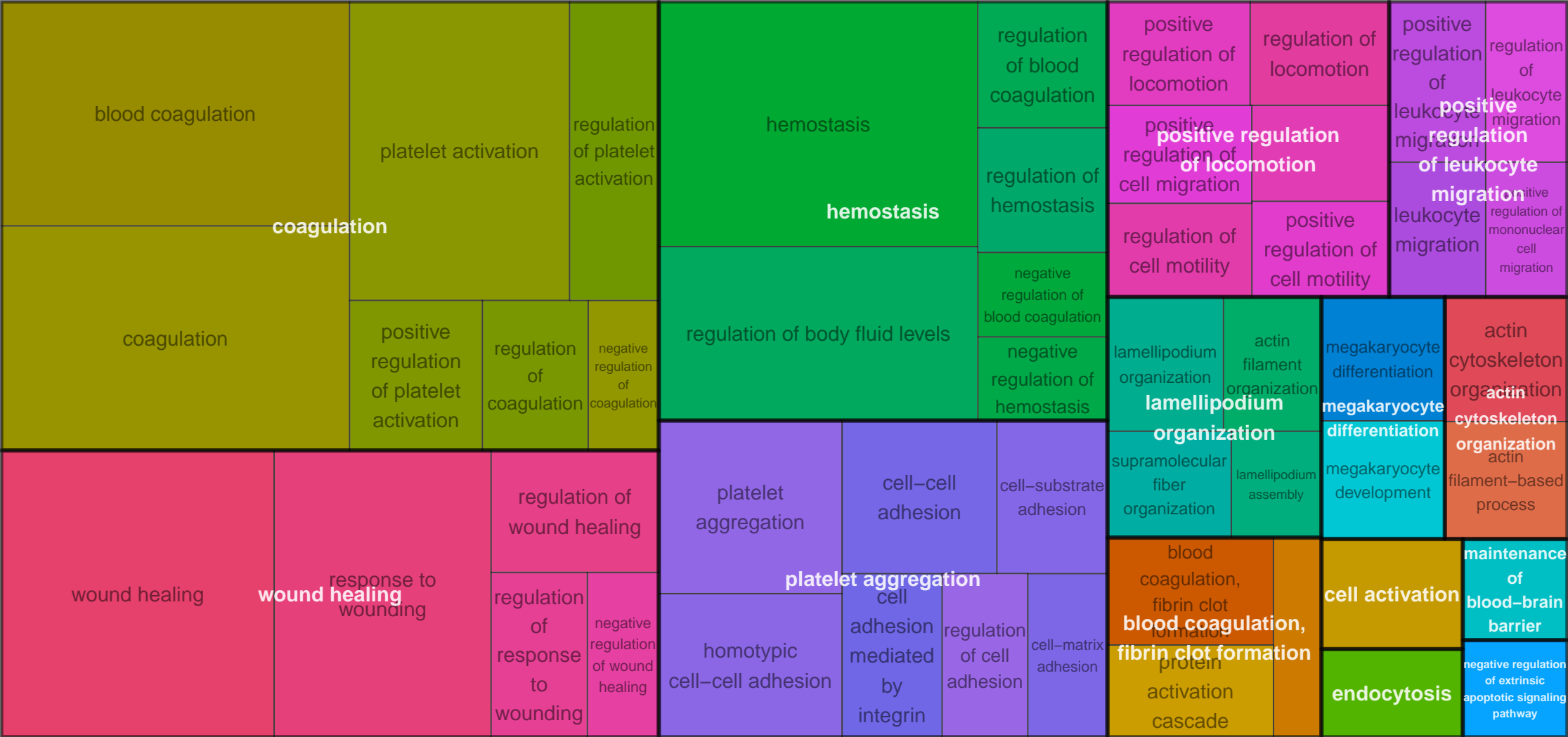




ME24



ME25

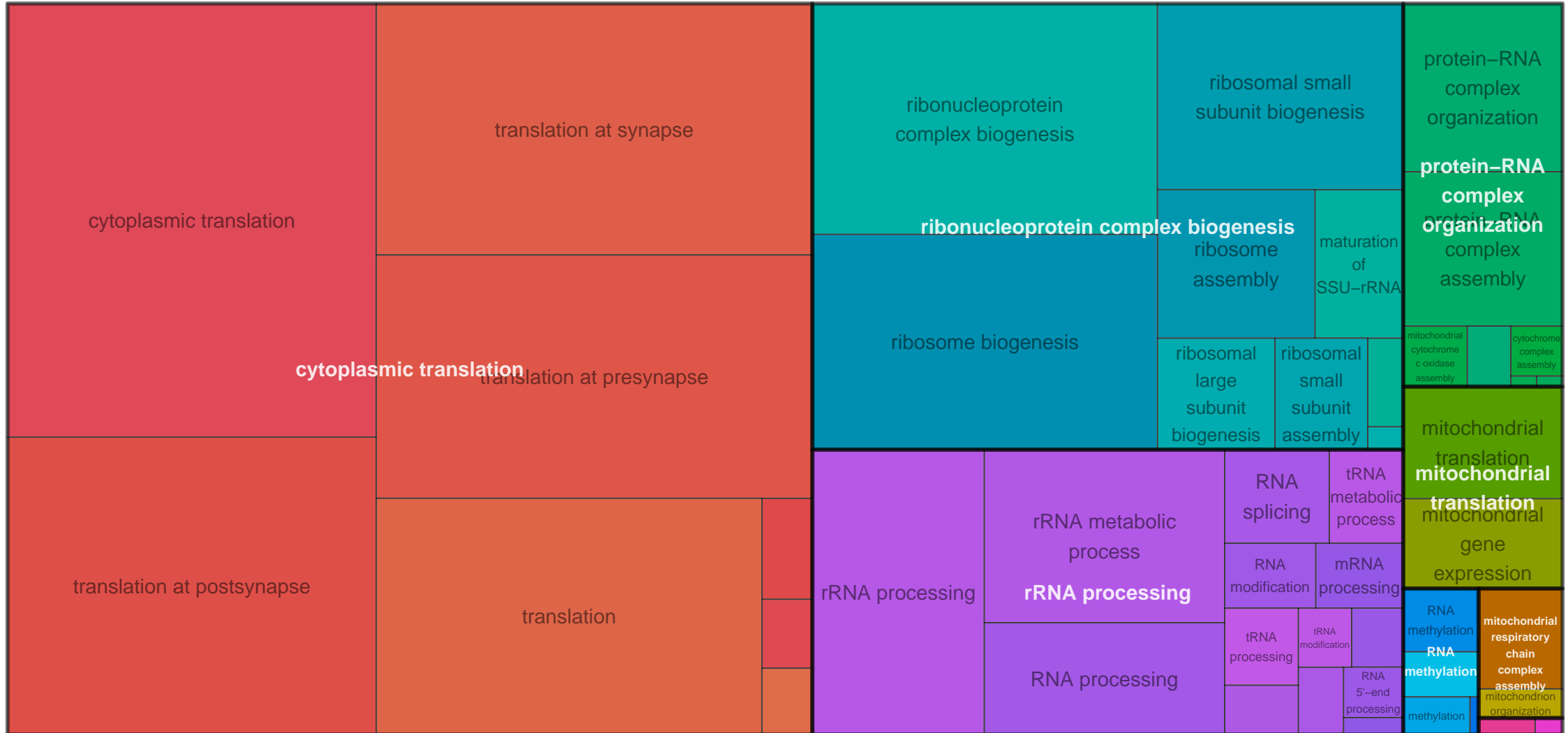




ME28

adaptive immune response			antigen receptor-mediated signaling pathway		immune response-regulating cell surface receptor signaling pathway		T cell activation		cell activation		positive regulation of myeloid dendritic cell activation		alpha-beta T cell activation		positive regulation of leukocyte cell-cell adhesion		leukocyte cell-cell adhesion										
immune response-activating cell surface receptor signaling pathway	immune response-regulating signaling pathway adaptive immune response		positive regulation of immune response		lymphocyte activation		T cell activation		regulation of T cell activation		positive regulation of leukocyte activation		regulation of myeloid dendritic cell activation		regulation of lymphocyte activation		positive regulation of leukocyte cell-cell adhesion										
							T cell costimulation		positive regulation of cell activation		positive regulation of lymphocyte activation		regulation of leukocyte activation		positive regulation of cell-cell adhesion		regulation of cell-cell adhesion										
	activation of immune response		positive regulation of immune system process				leukocyte activation		lymphocyte costimulation		positive regulation of alpha-beta T cell proliferation		regulation of cell activation		regulation of alpha-beta T cell proliferation		positive regulation of cell adhesion										
immune response-activating signaling pathway		T cell selection			positive T cell selection		thymic selection		positive thymic T cell selection		lymphocyte differentiation		defense response to symbiont		defense response to other organism												
		T cell receptor signaling pathway		regulation of immune response		lymphocyte mediated immunity		positive regulation of lymphocyte mediated immunity		T cell selection		positive T cell selection		thymic selection		positive thymic T cell selection		lymphocyte differentiation		leukocyte differentiation		innate immune response		negative regulation of natural killer cell chemotaxis		negative regulation of lymphocyte chemotaxis	

ME3



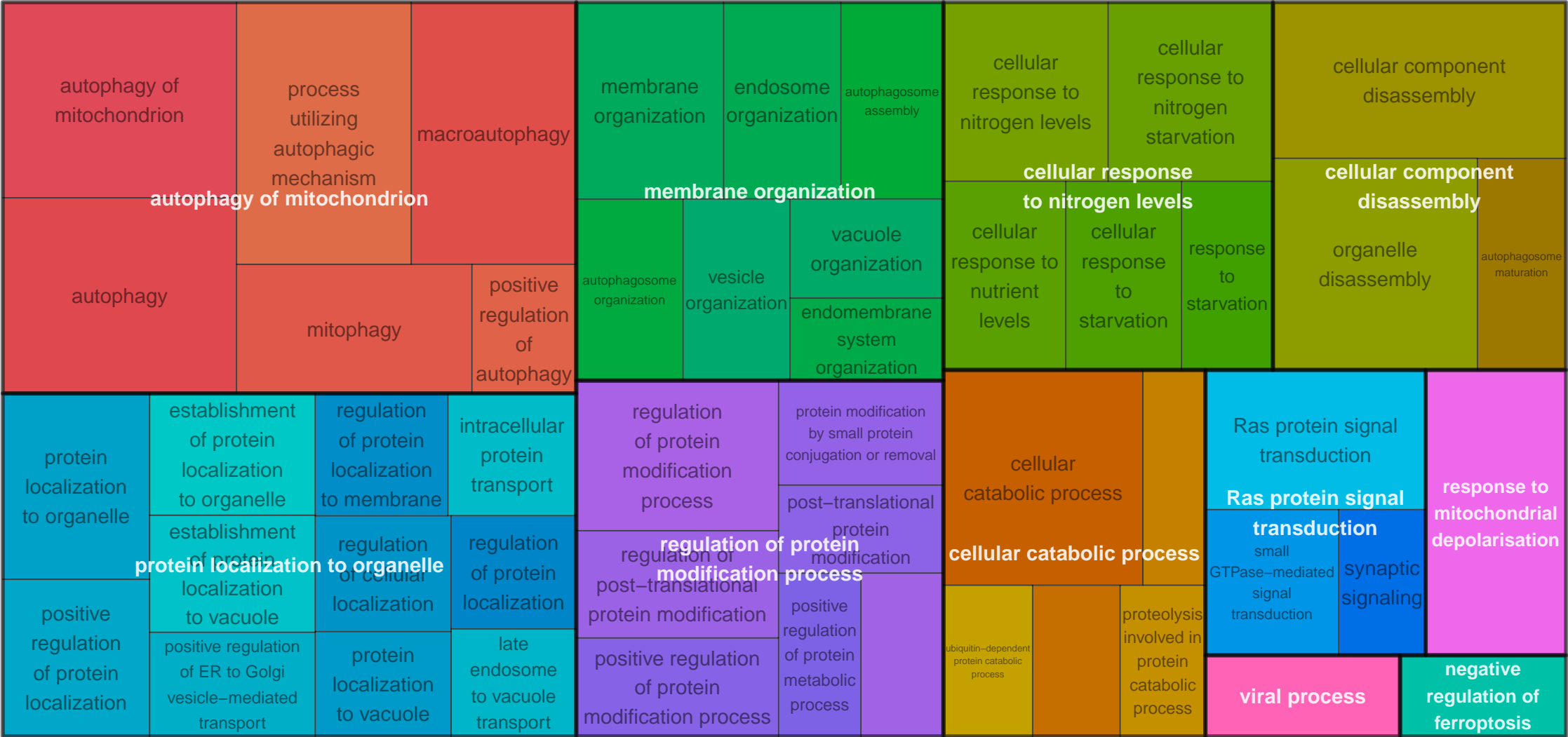
ME32

nuclear transport

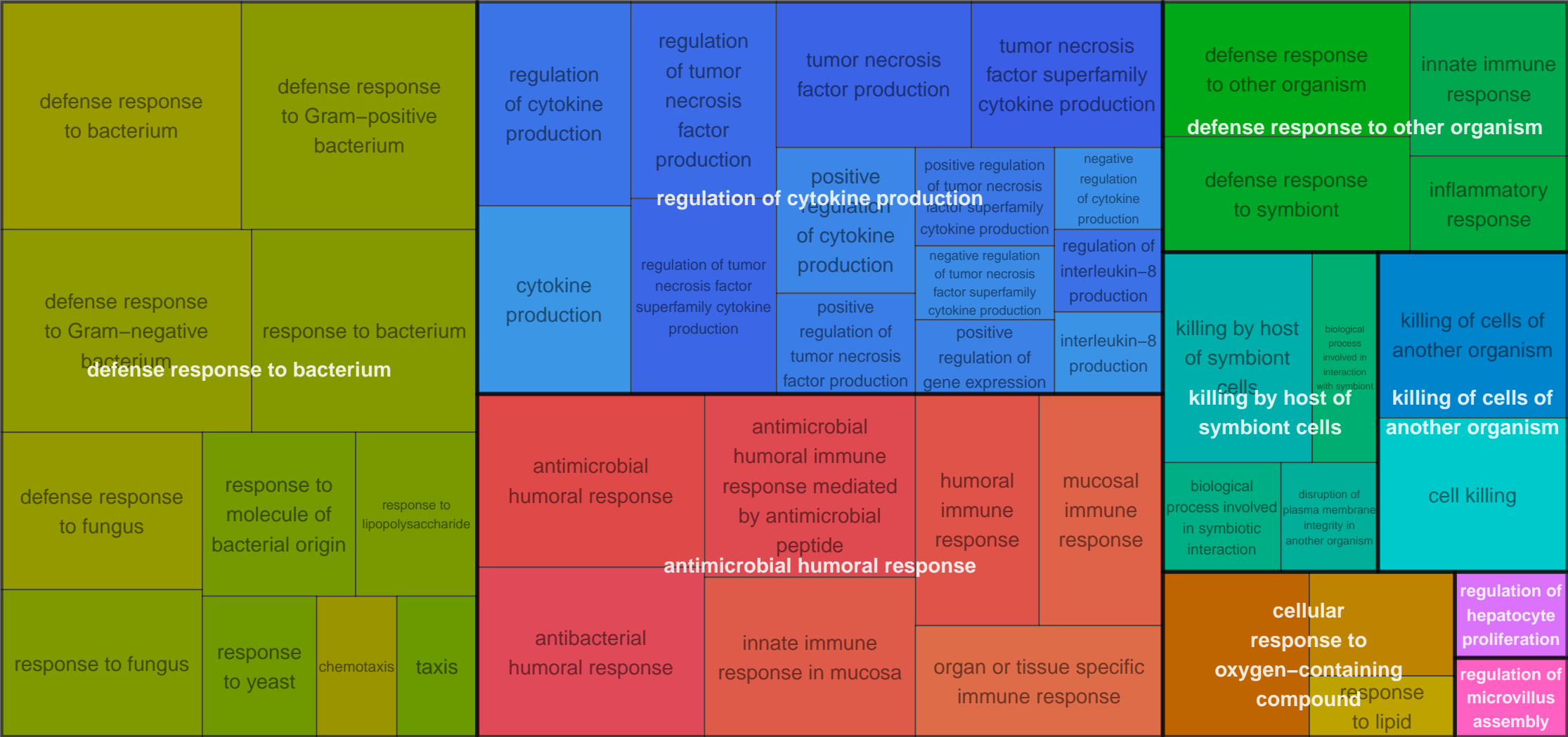
nucleocytoplasmic transport

nucleocytoplasmic transport

ME33



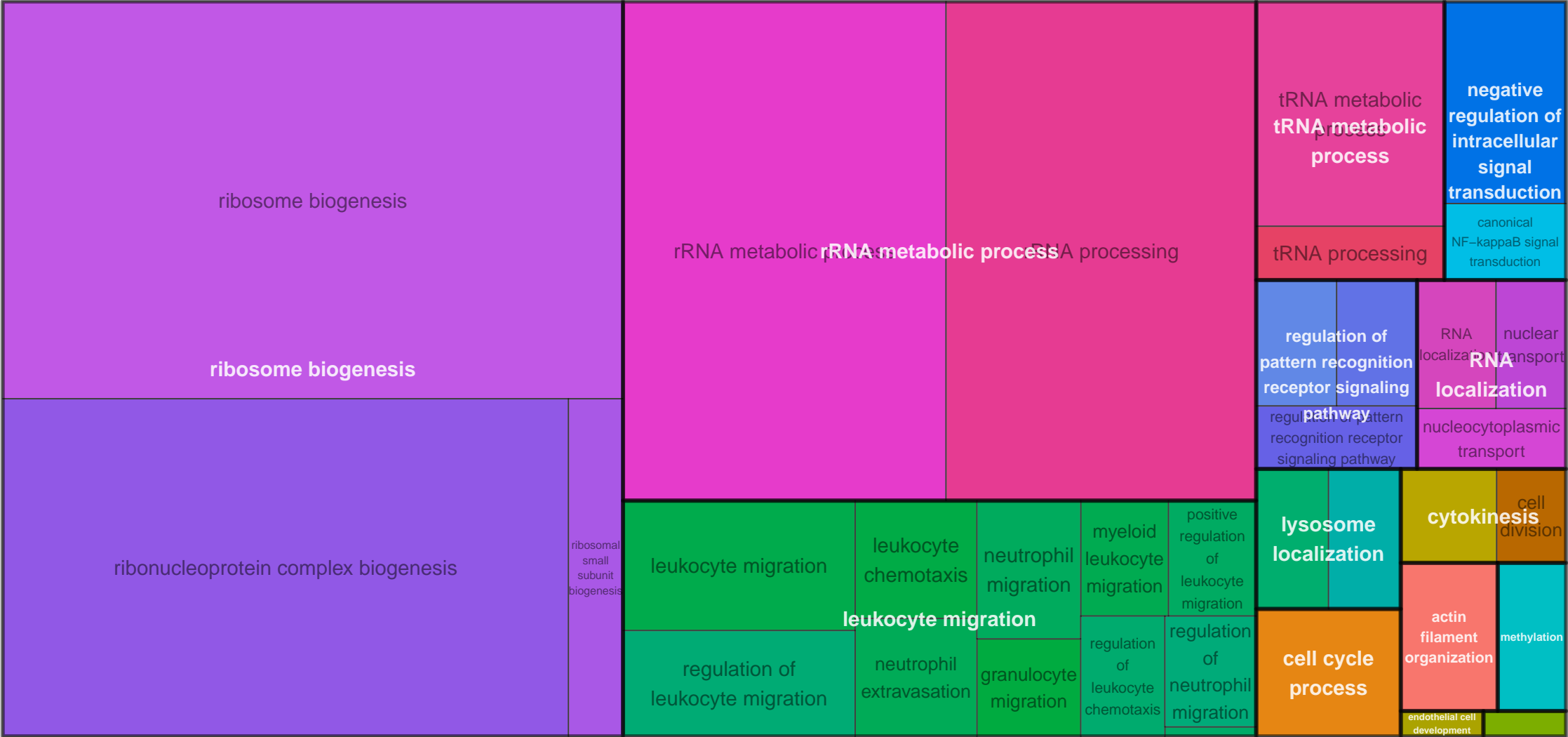
ME34

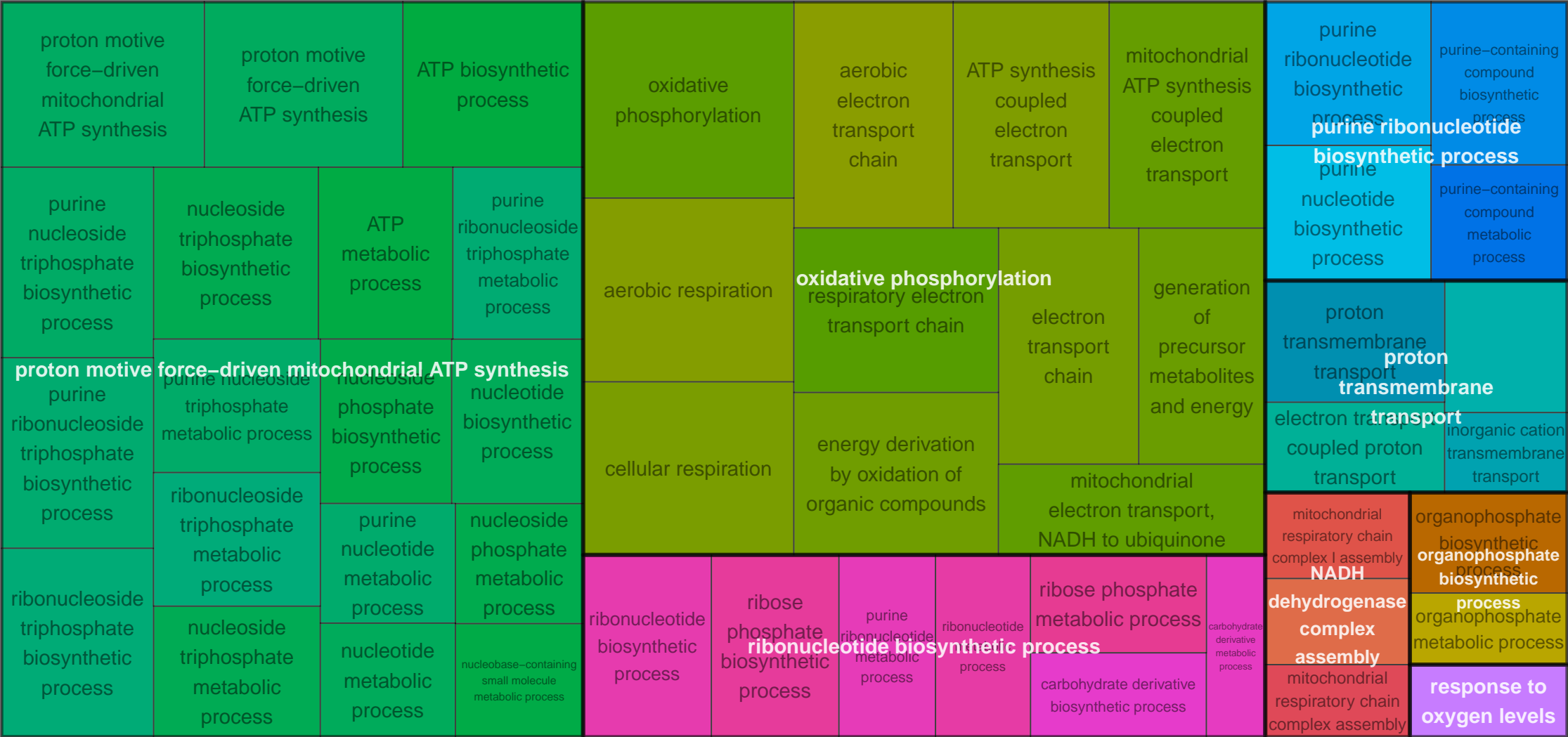


ME38

positive regulation of carbohydrate metabolic process					organic acid metabolic process		response to nitrogen compound		regulation of cell migration	
positive regulation of carbohydrate metabolic process					organic acid metabolic process		cellular response to oxygen-containing compound		regulation of locomotion	
positive regulation of glycogen biosynthetic process					monocarboxylic acid metabolic process		positive regulation of protein phosphorylation		mononuclear cell proliferation	
cellular response to corticosteroid stimulus					intrinsic apoptotic signaling pathway in response to DNA damage		positive regulation of phosphate metabolic process		positive regulation of D-glucose import	
cellular response to glucocorticoid stimulus					regulation of MAPK cascade		epithelial cell migration		response to abiotic stimulus	
cellular response to hormone stimulus					positive regulation of MAPK cascade		tissue migration			
response to hormone					apoptotic signaling pathway in response to DNA damage		epithelium migration			
response to steroid hormone					MAPK cascade					
response to corticosteroid										
response to glucocorticoid										
response to steroid hormone										
regulation of glucan biosynthetic process										
regulation of glycogen biosynthetic process										
regulation of polysaccharide biosynthetic process										
glucan biosynthetic process										
glycogen biosynthetic process										

ME4





ME7

detection of chemical
stimulus involved in
sensory perception of smell

**detection of chemical stimulus involved
in sensory perception of smell**

sensory perception of smell

sensory perception of chemical stimulus

detection of chemical stimulus
involved in sensory perception

detection of chemical stimulus

detection of stimulus involved
in sensory perception

detection of chemical stimulus

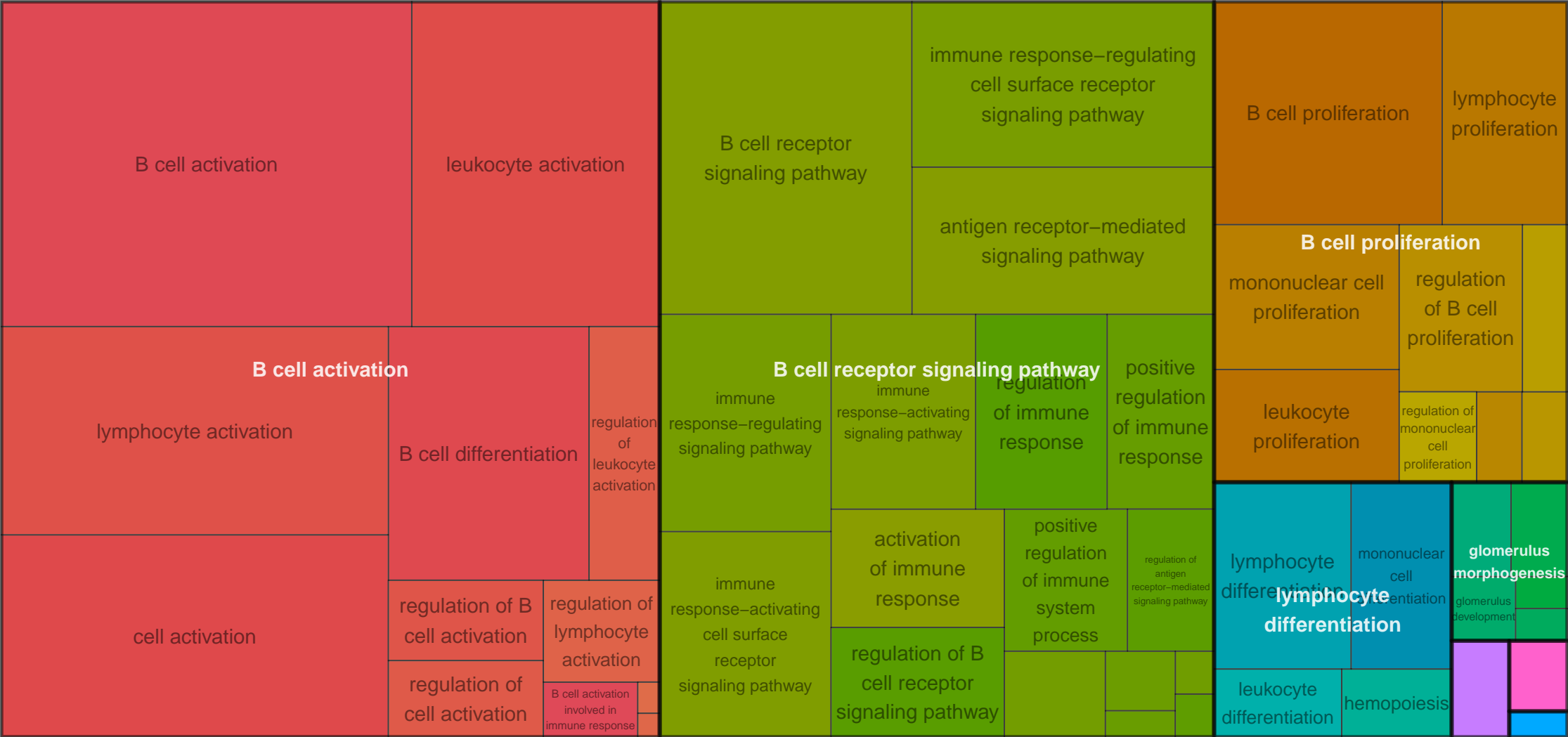
detection of stimulus

positive regulation of
telomere maintenance in
response to DNA damage

**positive regulation of
telomere maintenance in
response to DNA damage**
strand elongation

regulation of telomere
maintenance in
response to DNA damage

ME8



ME9

