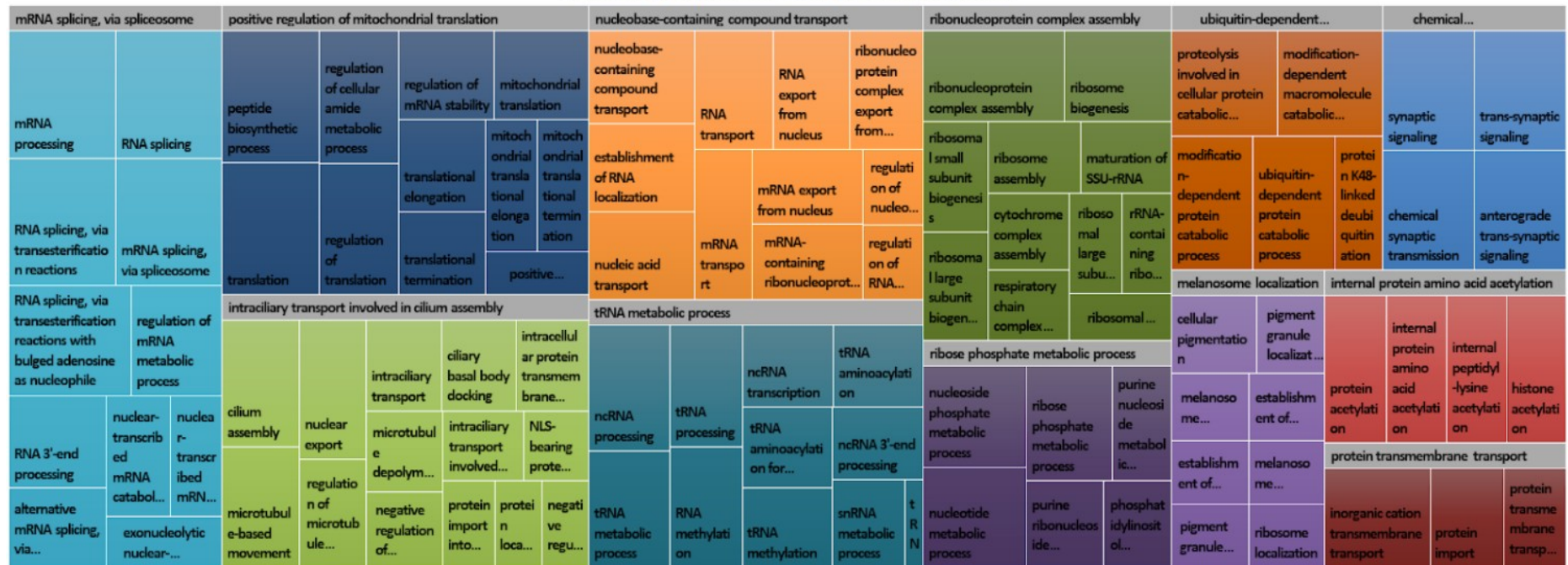


Figure S7. Summary of main functional groups of biological processes by sex. Each treemap depicts the significant functions overrepresented in women (a) and men (b). Treemaps are organized into two levels: the first level visualizes the most general functional groups in Gene Ontology hierarchy as large rectangles, while the second level represents the significant biological processes that integrate each functional group by small rectangles of the same color.

a

Main biological processes overrepresented in women



b

Main biological processes overrepresented in men

regulation of cell migration					blood vessel morphogenesis			hemopoiesis		epithelial cell differentiation				response to other organism			inflammatory response			
regulation of cell migration	taxis	chemotaxis	positive regulation of locomotion		vasculature development	tube morphogenesis		regulation of immune response	hematopoietic or lymphoid organ development	tissue morphogenesis	cartilage development	neural crest cell differentiat...	response to external biotic stimulus	regulation of response to external stimulus	response to bacterium	innate immune response	regulation of defense response	negative regulation of response to...		
positive regulation of cellular componen...					heart development	embryonic morphogenesis		positive regulation of immune response	lymphocyte activation											
	leukocyte migration	cell chemotaxis	leukocyte chemotaxis							epithelial cell differentiation										
					embryo development ending in birth or egg...	blood vessel morphogenesis			activation of immune response											
					angiogenesis															
myeloid leukocyte migration	positive regulation of leukocyte...	granulocyte chemotaxis	regulation of leukocyte chemotaxis					hemopoiesis		regulation of cytokine production				negative regulation of...	cytokine...		bone remodeling			
	regulation of mononuclear cell...	positive regulation of leukocyte...	positive regulation of monocyte chemotaxis	monocyte chemotaxis	cardiovascular system development	blood vessel development	inner ear development	regulation of cell activation	sensory organ development	myeloid cell differentiation	regulation of interleukin-1...	interleukin-1 beta production	regulation of interleukin-1...	neural precursor cell...	regulation of epitheli...	cytokine-mediated signaling pathway	response to growth factor	bone remodeling	regulation of bone remodeling	regulation of bone remodeling
mononuclear cell migration																				