ontology: BP inflammatory response defense response to other organism defense response to virus leukocyte migration interferon-gamma-mediated signaling pathway response to interferon-gamma response to virus cellular response to interferon-gamma myeloid leukocyte activation cell chemotaxis type I interferon signaling pathway cellular response to type I interferon leukocyte chemotaxis acute inflammatory response response to type I interferon chemokine-mediated signaling pathway myeloid leukocyte migration myeloid cell activation involved in immune response adaptive immune response negative regulation of viral genome replication response to bacterium response to lipopolysaccharide positive regulation of response to external stimulus leukocyte degranulation response to molecule of bacterial origin myeloid leukocyte mediated immunity chaperone-mediated protein folding cellular transition metal ion homeostasis cellular response to heat response to heat acute-phase response negative regulation of viral life cycle neutrophil degranulation neutrophil activation involved in immune response neutrophil activation neutrophil mediated immunity granulocyte activation lymphocyte mediated immunity response to temperature stimulus adaptive immune response based on somatic recombination of immune receptors built from immunoglobulin superfamily domains regulation of nuclease activity transition metal ion homeostasis regulation of leukocyte migration activation of immune response response to interleukin-6 regulation of viral genome replication negative regulation of viral process leukocyte cell-cell adhesion macrophage activation defense response to fungus humoral immune response neutrophil chemotaxis T cell mediated immunity immune response-activating signal transduction signal transduction in absence of ligand extrinsic apoptotic signaling pathway in absence of ligand positive regulation of cytokine-mediated signaling pathway positive regulation of leukocyte migration positive regulation of leukocyte chemotaxis chemokine production neutrophil migration positive regulation of response to cytokine stimulus regulation of inflammatory response immune response-regulating signaling pathway cellular metal ion homeostasis viral genome replication negative regulation of multi-organism process metal ion homeostasis negative regulation of signal transduction in absence of ligand negative regulation of extrinsic apoptotic signaling pathway in absence of ligand granulocyte chemotaxis positive regulation of monocyte chemotaxis negative regulation of inclusion body assembly positive regulation of chemotaxis cellular response to alkaloid leukocyte aggregation regulation of cytokine production response to fungus cellular response to interleukin-6 positive regulation of cytokine production chaperone cofactor-dependent protein refolding p.adjust 0.05 regulation of T-helper 1 type immune response 0.04 negative regulation of transcription from RNA polymerase II promoter in response to stress 0.03 0.02 granulocyte migration 0.01 regulation of cellular response to heat GeneRatio cellular zinc ion homeostasis 0.08 regulation of leukocyte chemotaxis-0.16 viral life cycle purinergic nucleotide receptor signaling pathway positive regulation of mononuclear cell migration regulation of viral life cycle positive regulation of inflammatory response chemotaxis taxis • protein folding zinc ion homeostasis monocyte chemotaxis wound healing antigen processing and presentation cellular response to inorganic substance G-protein coupled purinergic receptor signaling pathway regulation of monocyte chemotaxis regulation of inclusion body assembly cellular iron ion homeostasis negative regulation of extrinsic apoptotic signaling pathway cellular response to xenobiotic stimulus

'de novo' posttranslational protein folding

regulation of adaptive immune response

positive regulation of defense response

cellular response to molecule of bacterial origin

positive regulation of chemokine production

positive regulation of cytokine biosynthetic process

positive regulation of nitric oxide biosynthetic process

positive regulation of NF-kappaB transcription factor activity

positive regulation of reactive oxygen species metabolic process

positive regulation of reactive oxygen species biosynthetic process

regulation of extrinsic apoptotic signaling pathway in absence of ligand

positive regulation of nitric oxide metabolic process

cellular cation homeostasis

cellular ion homeostasis

cytokine secretion

response to zinc ion

blood coagulation

response to toxic substance

inclusion body assembly •

antimicrobial humoral response

negative regulation of secretion by cell

purinergic receptor signaling pathway

defense response to bacterium

mast cell activation

interleukin-8 production

mononuclear cell migration

cellular response to biotic stimulus

response to antineoplastic agent

response to tumor necrosis factor

extrinsic apoptotic signaling pathway

glutathione derivative metabolic process-

sensory perception of chemical stimulus

pattern recognition receptor signaling pathway

glutathione derivative biosynthetic process

detection of chemical stimulus involved in sensory perception of smell-

detection of chemical stimulus involved in sensory perception

lymphocyte migration

iron ion homeostasis

regulation of chemotaxis

xenobiotic metabolic process-

sensory perception of smell-

response to xenobiotic stimulus-

detection of chemical stimulus-

stress response to copper ion-

stress response to metal ion-

checapmed (14681)

detoxification of inorganic compound

toll-like receptor signaling pathway-

alpha-amino acid metabolic process-

cellular metabolic compound salvage

positive regulation of cytokine secretion-

detection of stimulus involved in sensory perception-

detoxification of copper ion-

muscle adaptation

detoxification-

positive regulation of p38MAPK cascade

leukocyte adhesion to vascular endothelial cell-

regulation of nitric oxide biosynthetic process

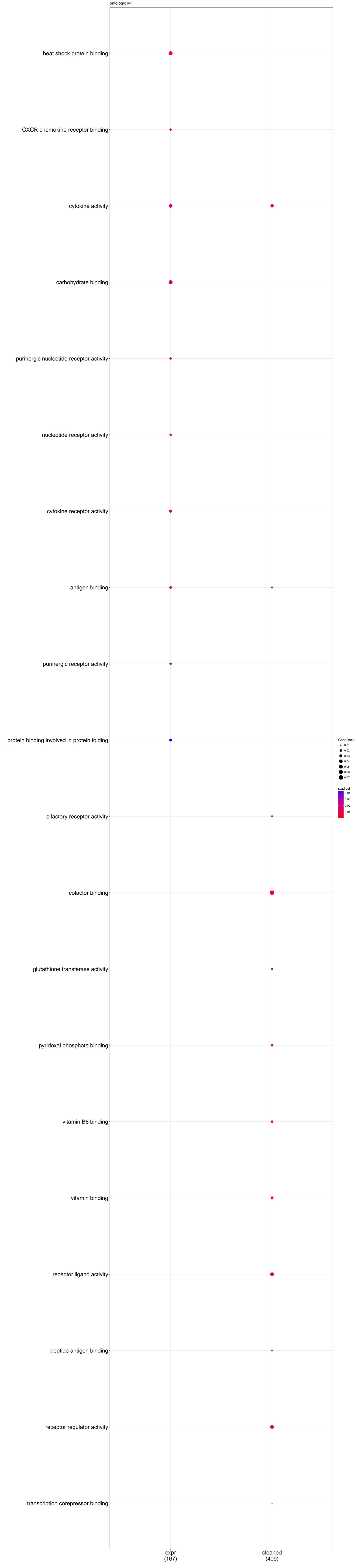
cellular divalent inorganic cation homeostasis

negative regulation of apoptotic signaling pathway

coagulation •

hemostasis

T cell activation



	ontology: CC			
blood microparticle				
endocytic vesicle lumen				
Chaocytic vesicle lufflent				
				p.adjust 0.020
integral component of lumenal side of endoplasmic reticulum membrane				0.015 0.010 0.005
				GeneRatio
lumenal side of endoplasmic reticulum membrane				
MHC protein complex				
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	ontology: KEGG			
Influenza A				
Staphylococcus aureus infection				
TNF signaling pathway				
Cytokine-cytokine receptor interaction				
Antigen processing and presentation				
Legionellosis				
Hematopoietic cell lineage				
Measles				
IL–17 signaling pathway				
African trypanosomiasis				
Prion diseases				
Malaria				
Inflammatory bowel disease (IBD)				
Leishmaniasis				
Herpes simplex infection				
Graft-versus-host disease				GeneRatio
Fluid shear stress and atherosclerosis				p.adjust
Rheumatoid arthritis				
Glutathione metabolism				
Systemic lupus erythematosus				
NOD-like receptor signaling pathway				
Chemical carcinogenesis				
Type I diabetes mellitus				
Drug metabolism – cytochrome P450				
Allograft rejection				
Autoimmune thyroid disease				
Metabolism of xenobiotics by cytochrome P450				
Phagosome				
Drug metabolism – other enzymes				
Platinum drug resistance				
Asthma				
Olfactory transduction				
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