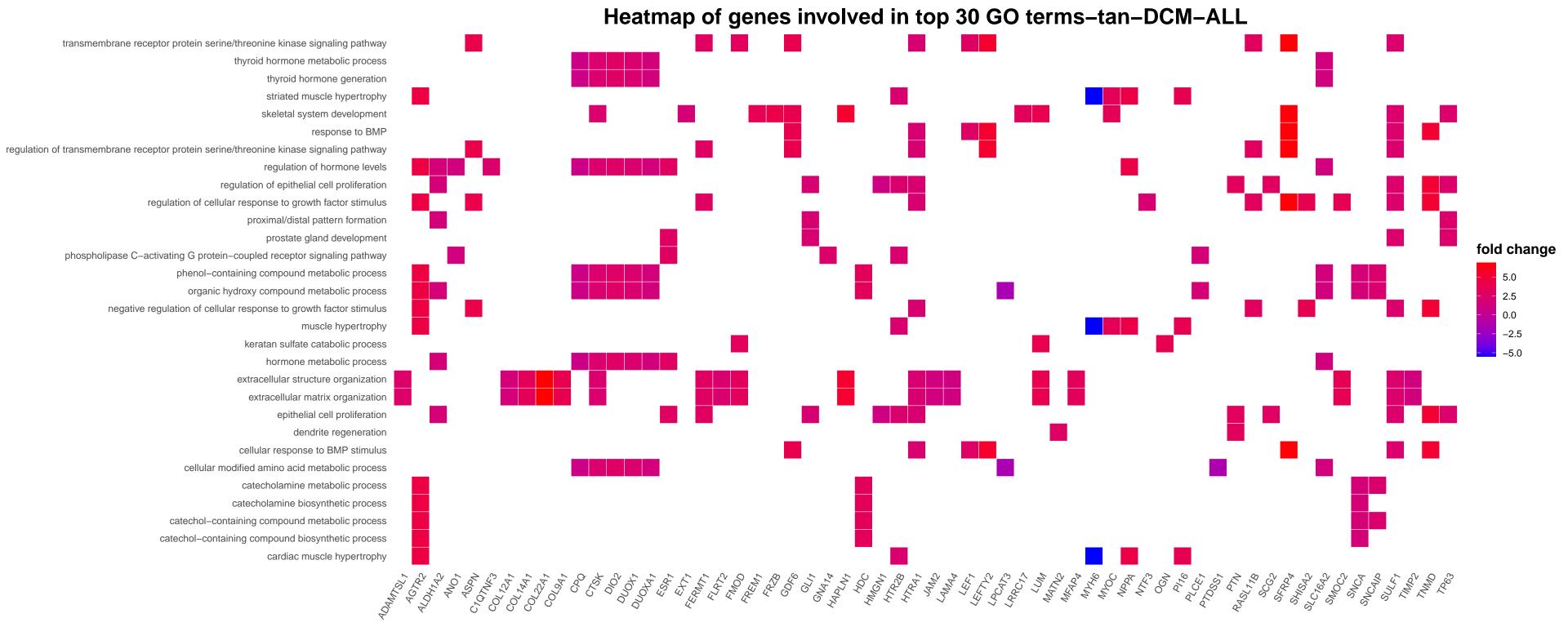
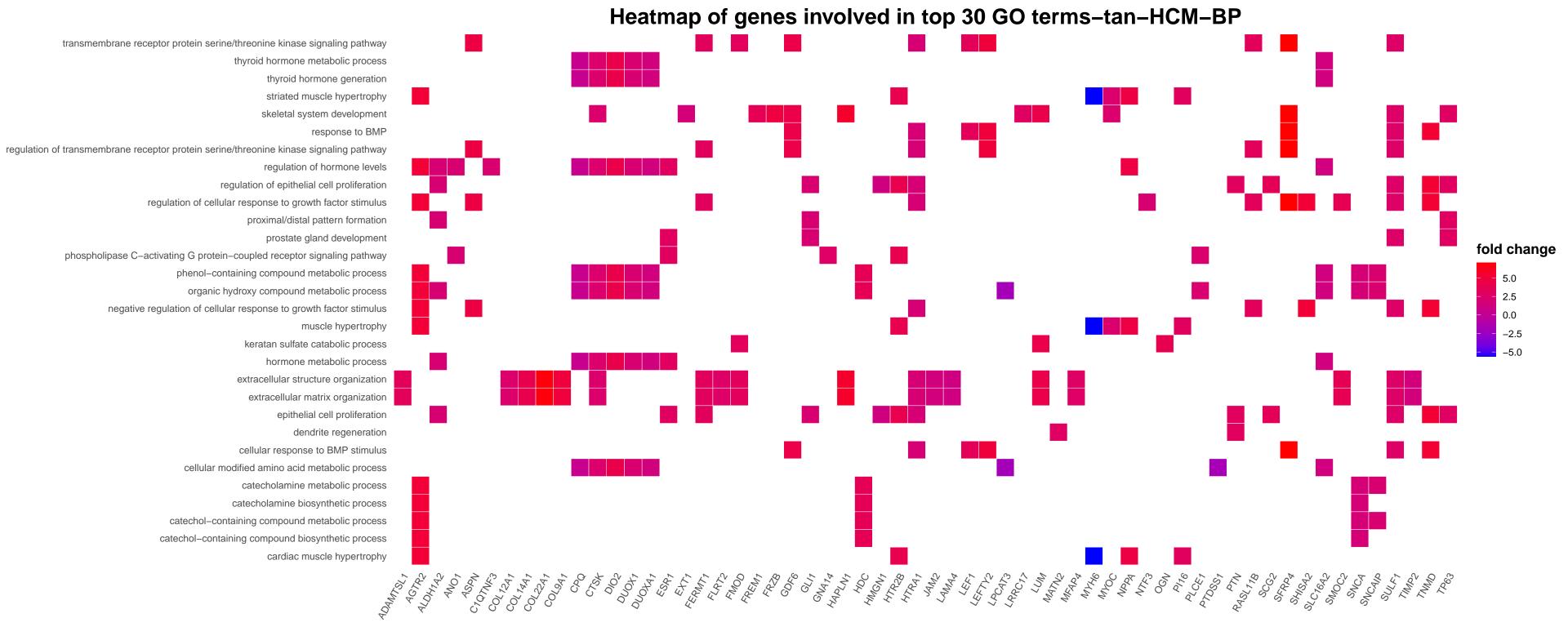
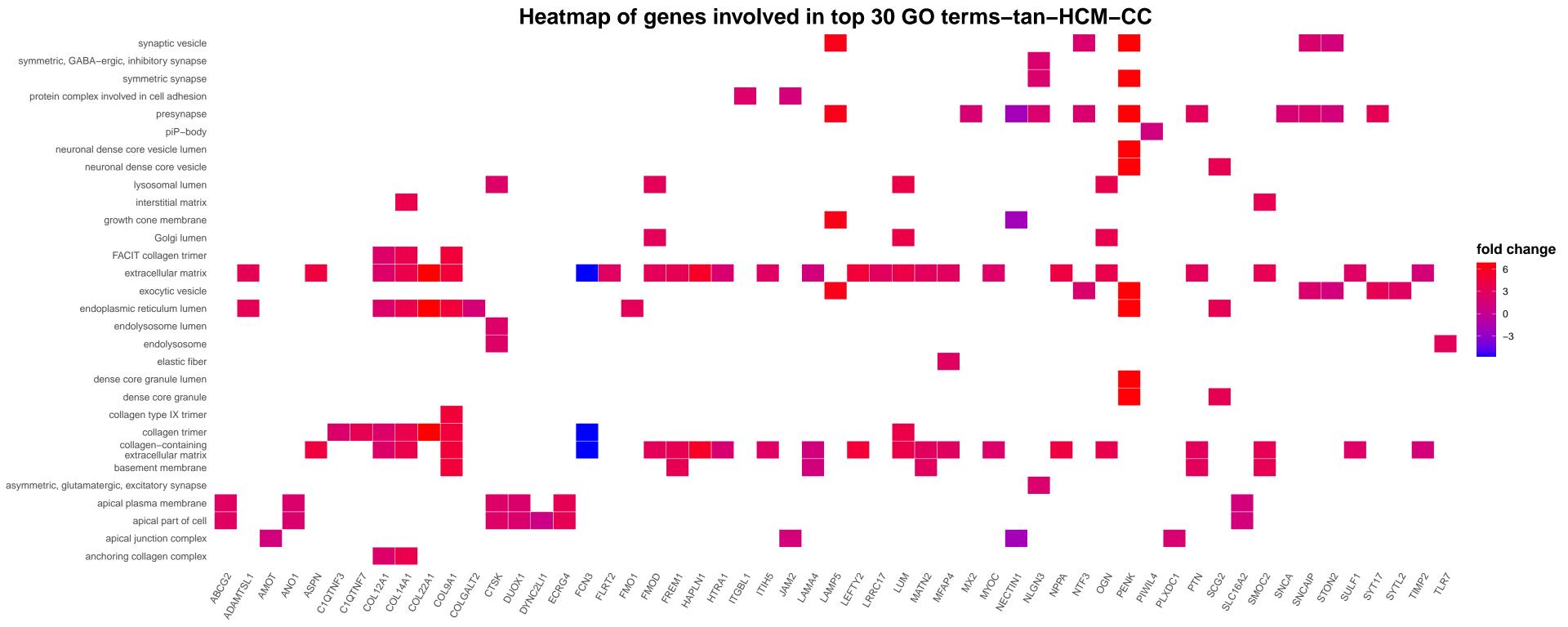


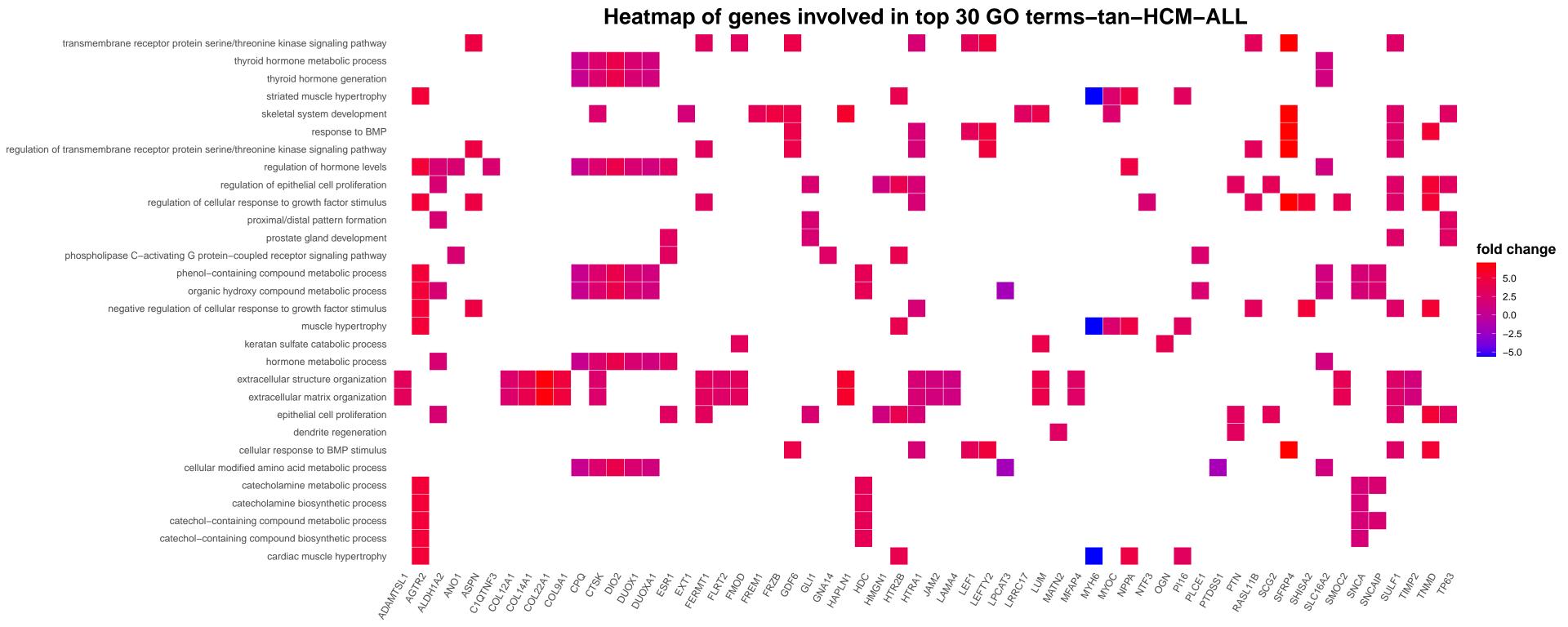
## Heatmap of genes involved in top 30 GO terms-tan-DCM-MF urate transmembrane transporter activity type 5 melanocortin receptor binding transforming growth factor beta receptor binding thyroxine 5-deiodinase activity thyroxine 5'-deiodinase activity signaling receptor activator activity recombinase activity receptor regulator activity receptor ligand activity peptidase regulator activity peptidase inhibitor activity opioid peptide activity fold change neuropeptide receptor binding neuropeptide hormone activity neurexin family protein binding myosin light chain binding monocarboxylic acid transmembrane transporter activity iodide transmembrane transporter activity integrin binding heme oxygenase (decyclizing) activity growth factor activity extracellular matrix structural constituent conferring tensile strength extracellular matrix structural constituent conferring compression resistance extracellular matrix structural constituent estrogen receptor activity endopeptidase inhibitor activity cysteine-type endopeptidase inhibitor activity involved in apoptotic process corticotropin hormone receptor binding collagen binding calcium activated cation channel activity

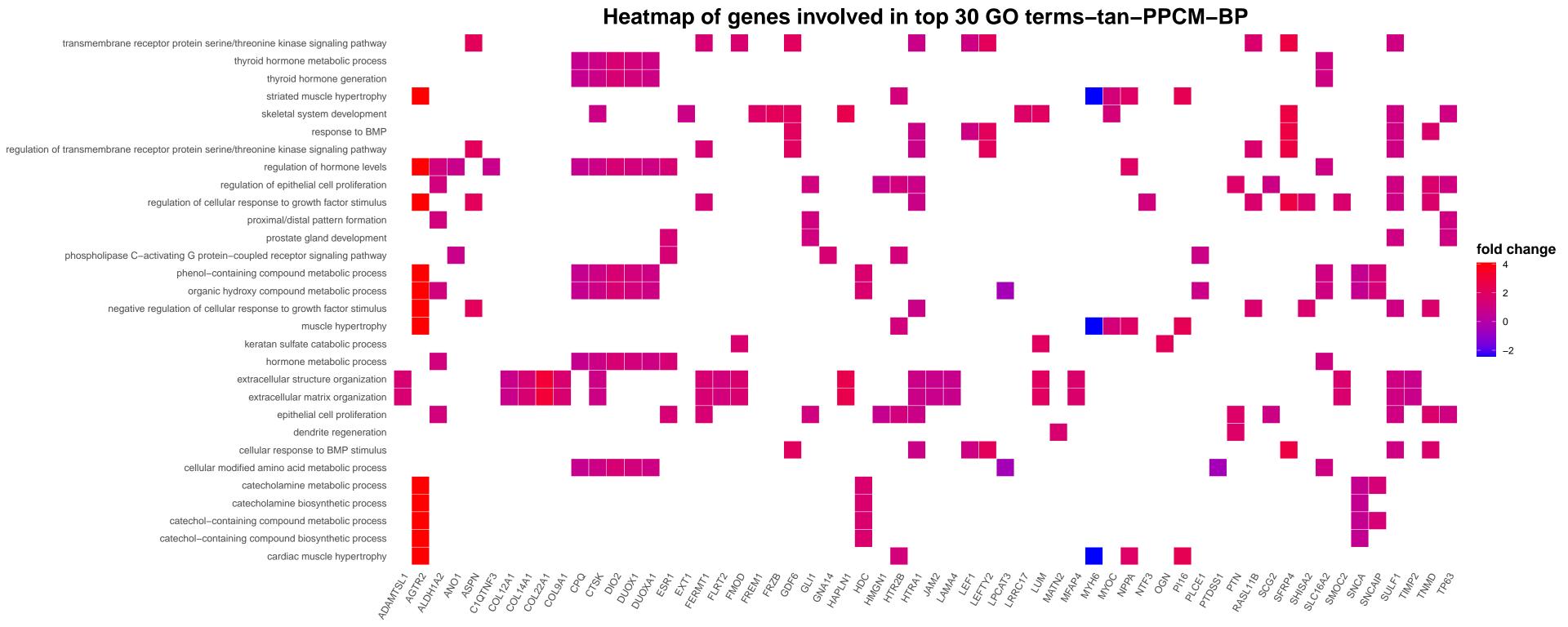


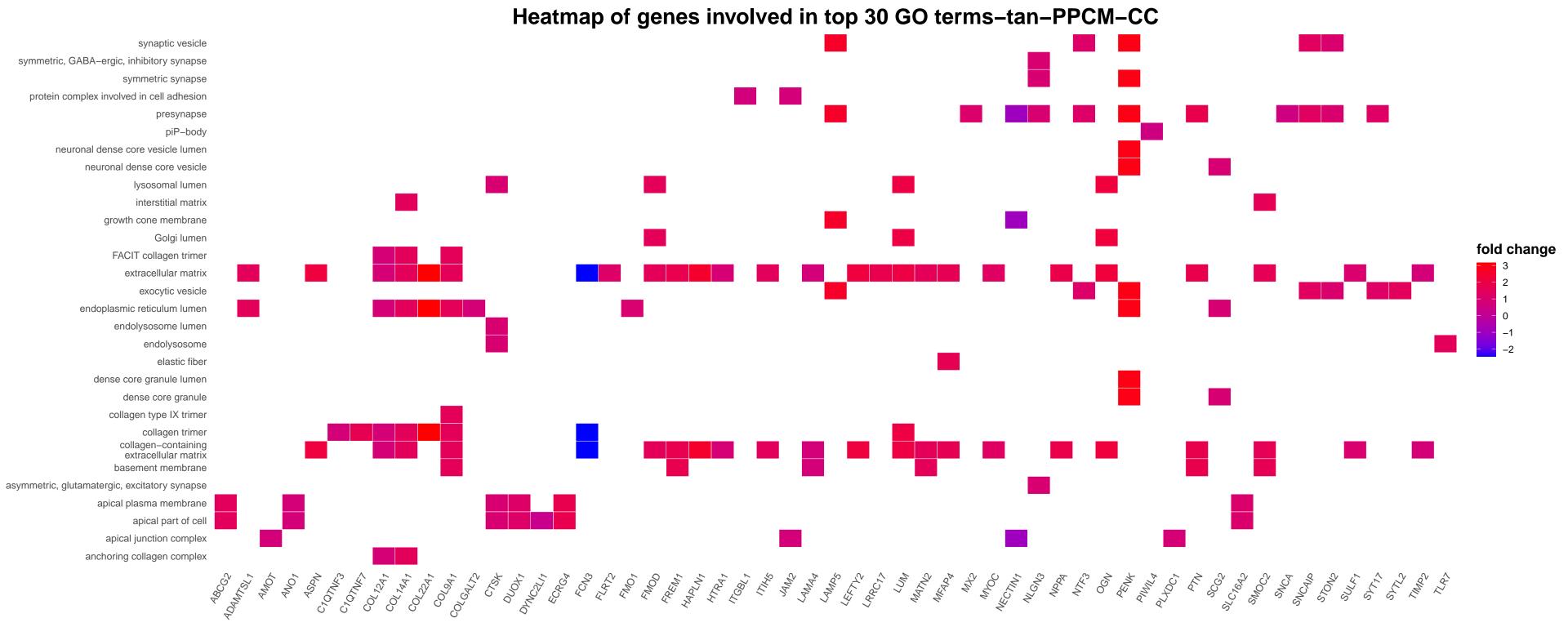




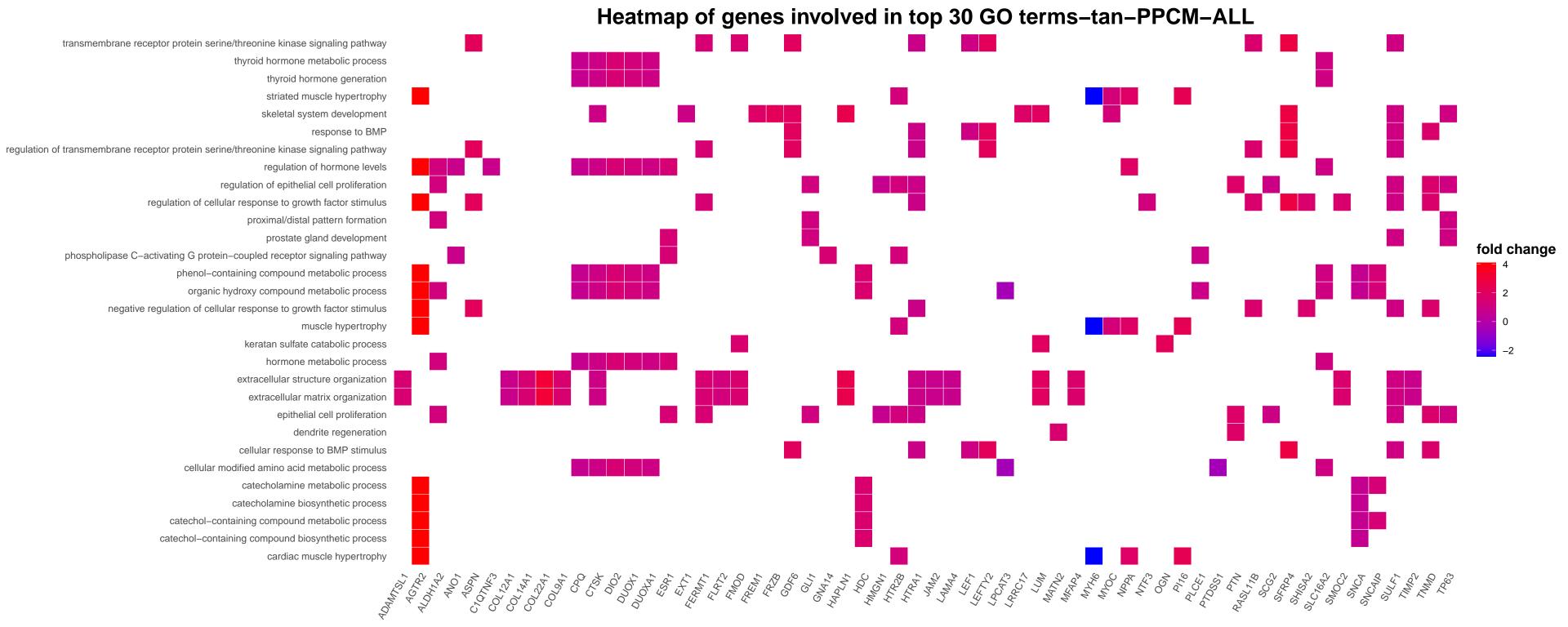
## Heatmap of genes involved in top 30 GO terms-tan-HCM-MF urate transmembrane transporter activity type 5 melanocortin receptor binding transforming growth factor beta receptor binding thyroxine 5-deiodinase activity thyroxine 5'-deiodinase activity signaling receptor activator activity recombinase activity receptor regulator activity receptor ligand activity peptidase regulator activity peptidase inhibitor activity opioid peptide activity fold change neuropeptide receptor binding neuropeptide hormone activity neurexin family protein binding myosin light chain binding monocarboxylic acid transmembrane transporter activity iodide transmembrane transporter activity integrin binding heme oxygenase (decyclizing) activity growth factor activity extracellular matrix structural constituent conferring tensile strength extracellular matrix structural constituent conferring compression resistance extracellular matrix structural constituent estrogen receptor activity endopeptidase inhibitor activity cysteine-type endopeptidase inhibitor activity involved in apoptotic process corticotropin hormone receptor binding collagen binding calcium activated cation channel activity

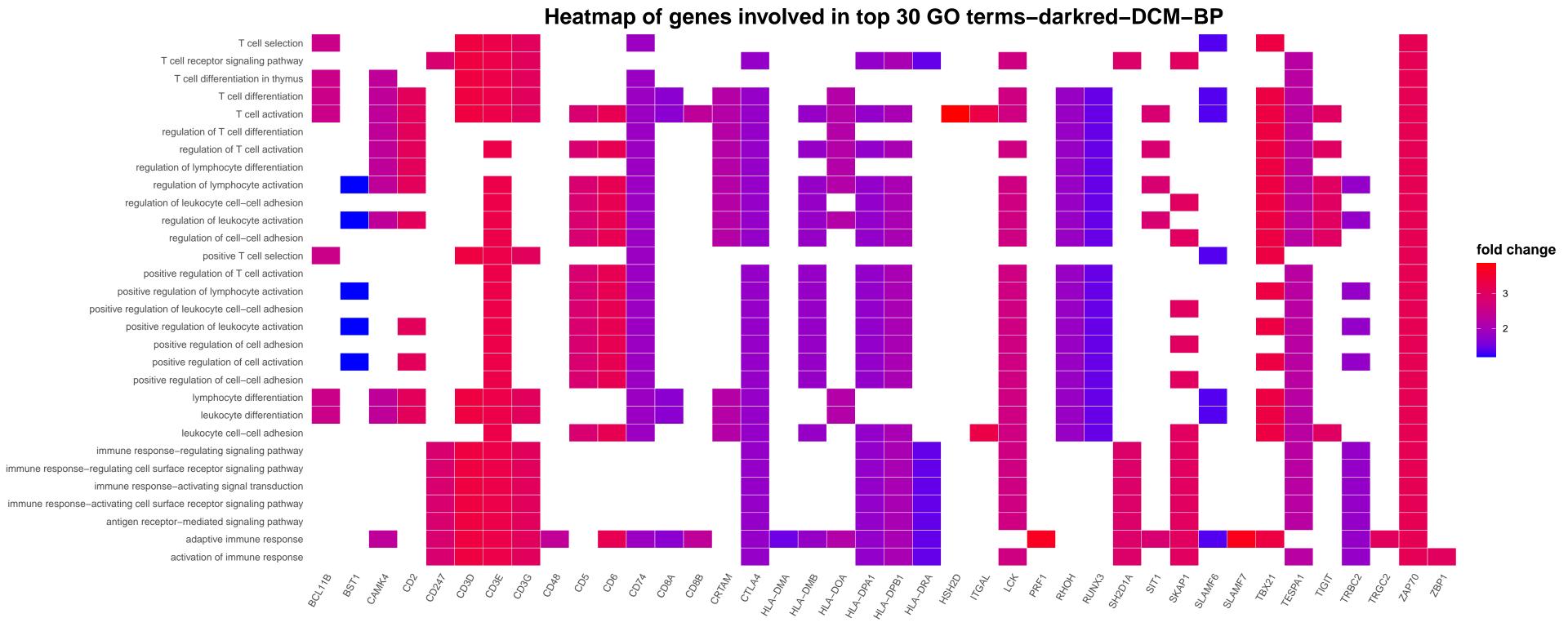


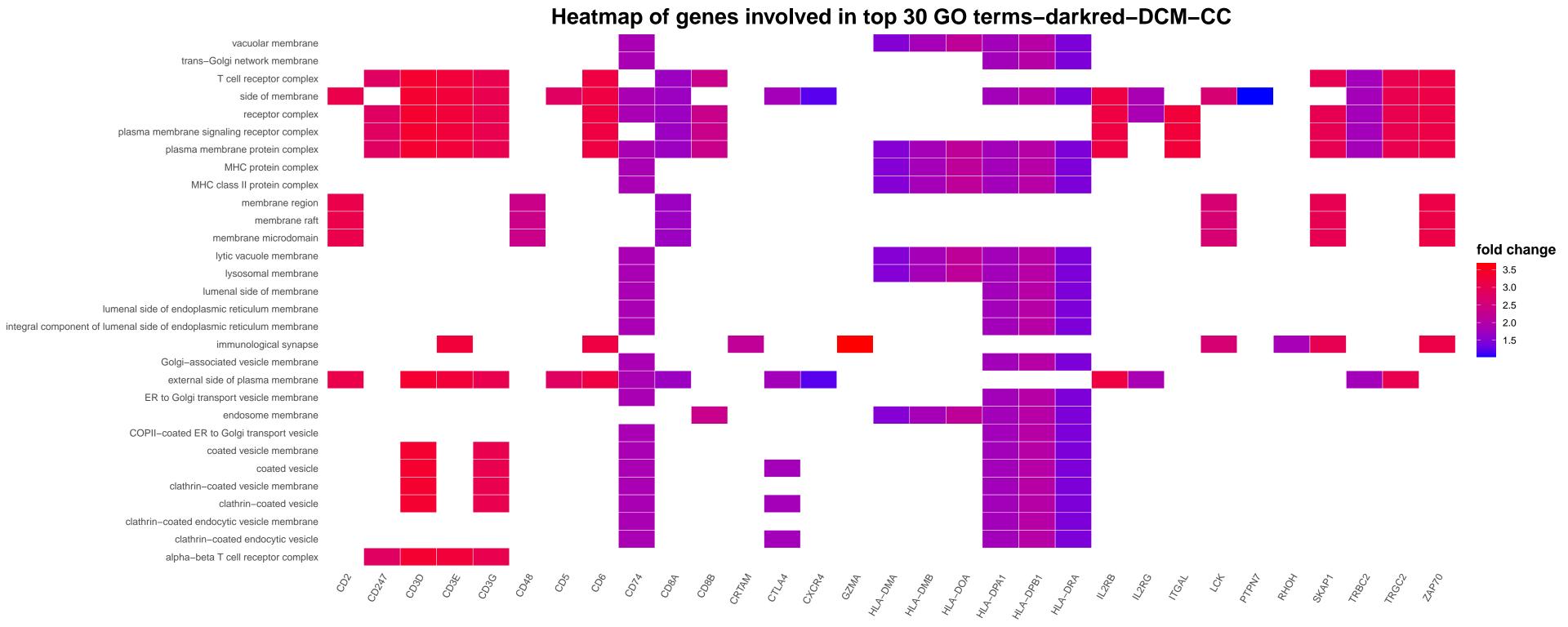


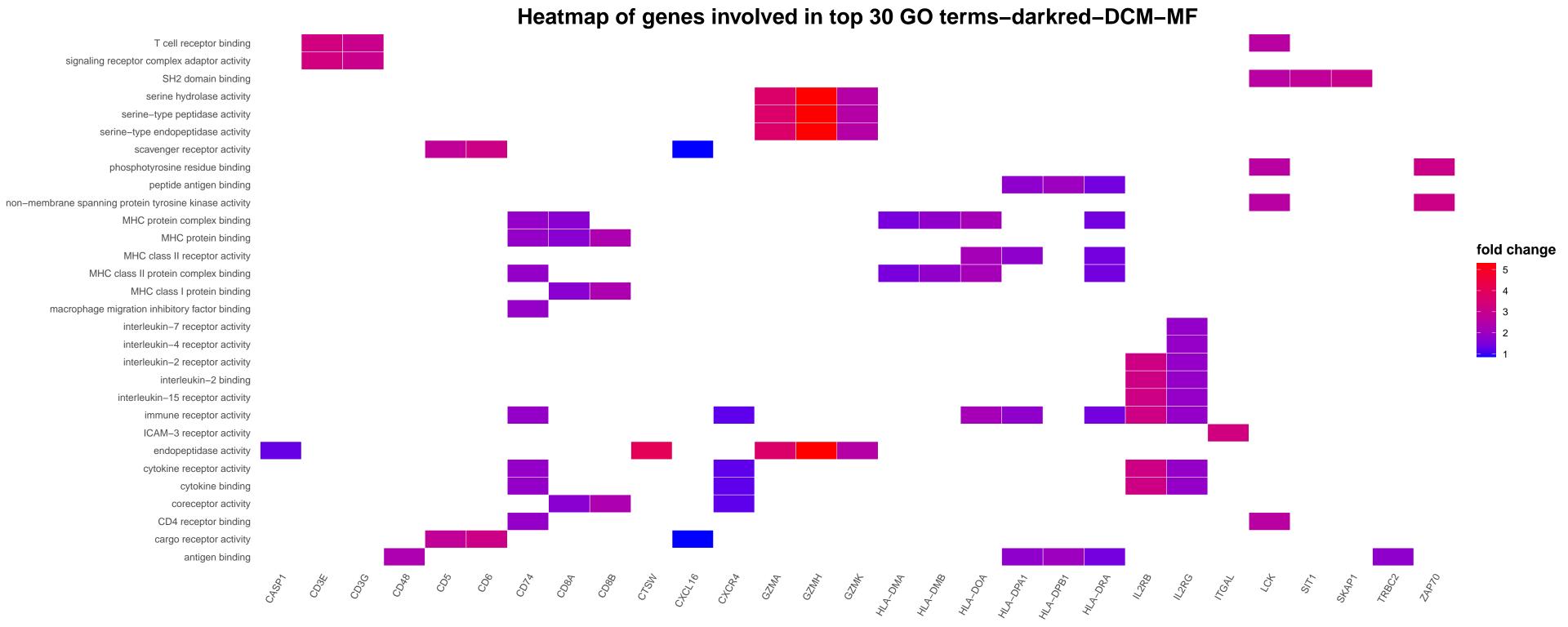


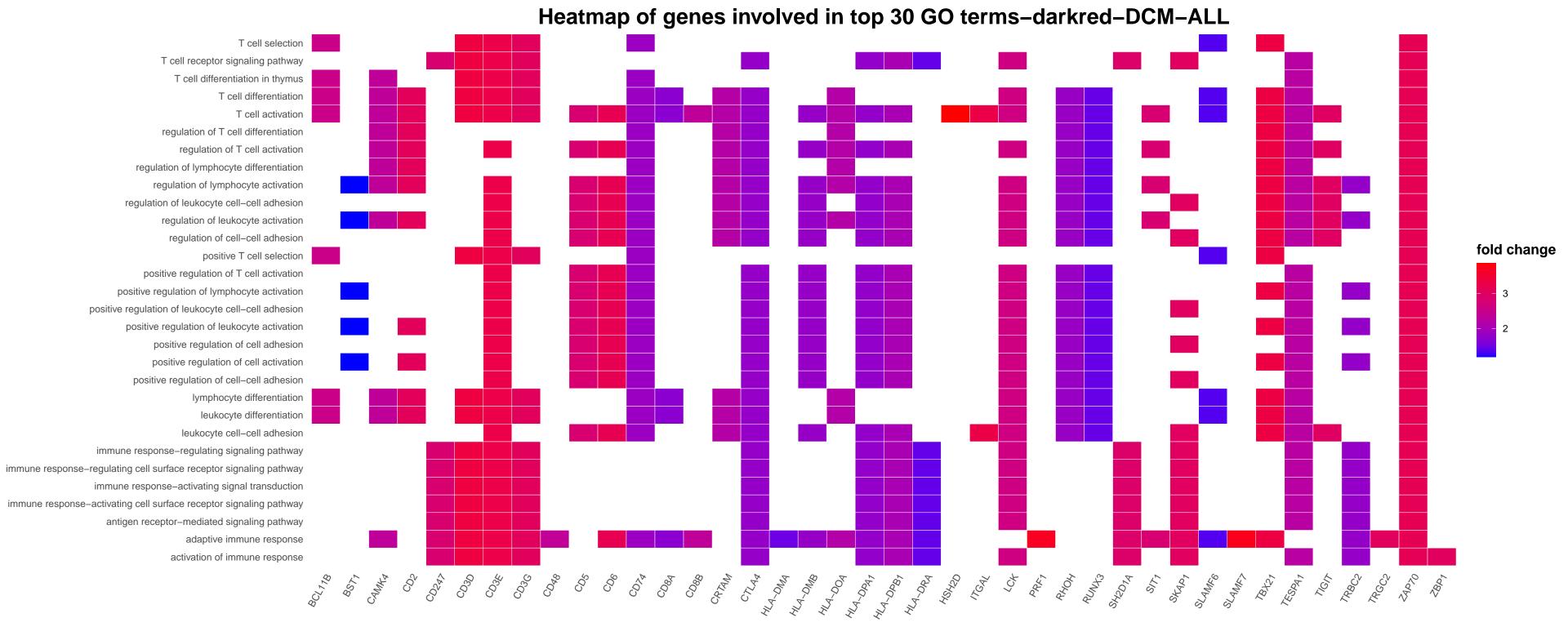
## Heatmap of genes involved in top 30 GO terms-tan-PPCM-MF urate transmembrane transporter activity type 5 melanocortin receptor binding transforming growth factor beta receptor binding thyroxine 5-deiodinase activity thyroxine 5'-deiodinase activity signaling receptor activator activity recombinase activity receptor regulator activity receptor ligand activity peptidase regulator activity peptidase inhibitor activity opioid peptide activity fold change neuropeptide receptor binding neuropeptide hormone activity neurexin family protein binding myosin light chain binding monocarboxylic acid transmembrane transporter activity iodide transmembrane transporter activity integrin binding heme oxygenase (decyclizing) activity growth factor activity extracellular matrix structural constituent conferring tensile strength extracellular matrix structural constituent conferring compression resistance extracellular matrix structural constituent estrogen receptor activity endopeptidase inhibitor activity cysteine-type endopeptidase inhibitor activity involved in apoptotic process corticotropin hormone receptor binding collagen binding calcium activated cation channel activity

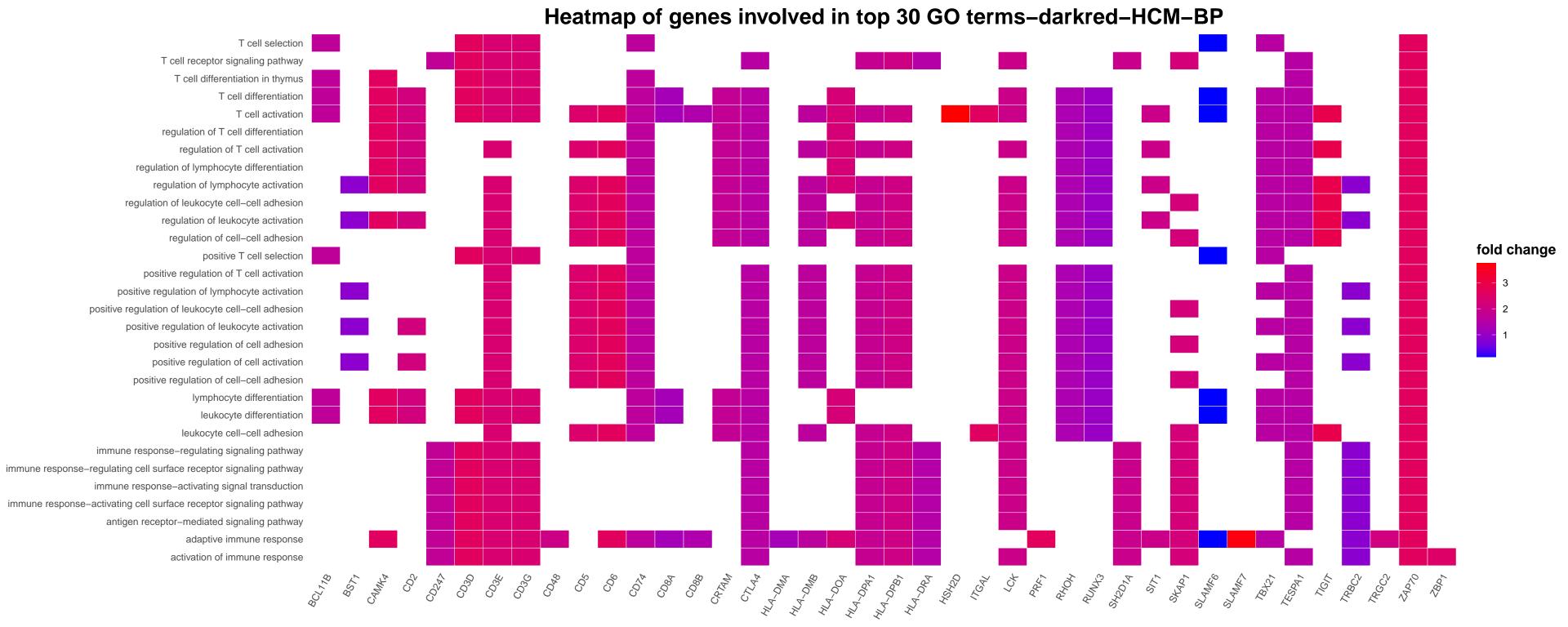


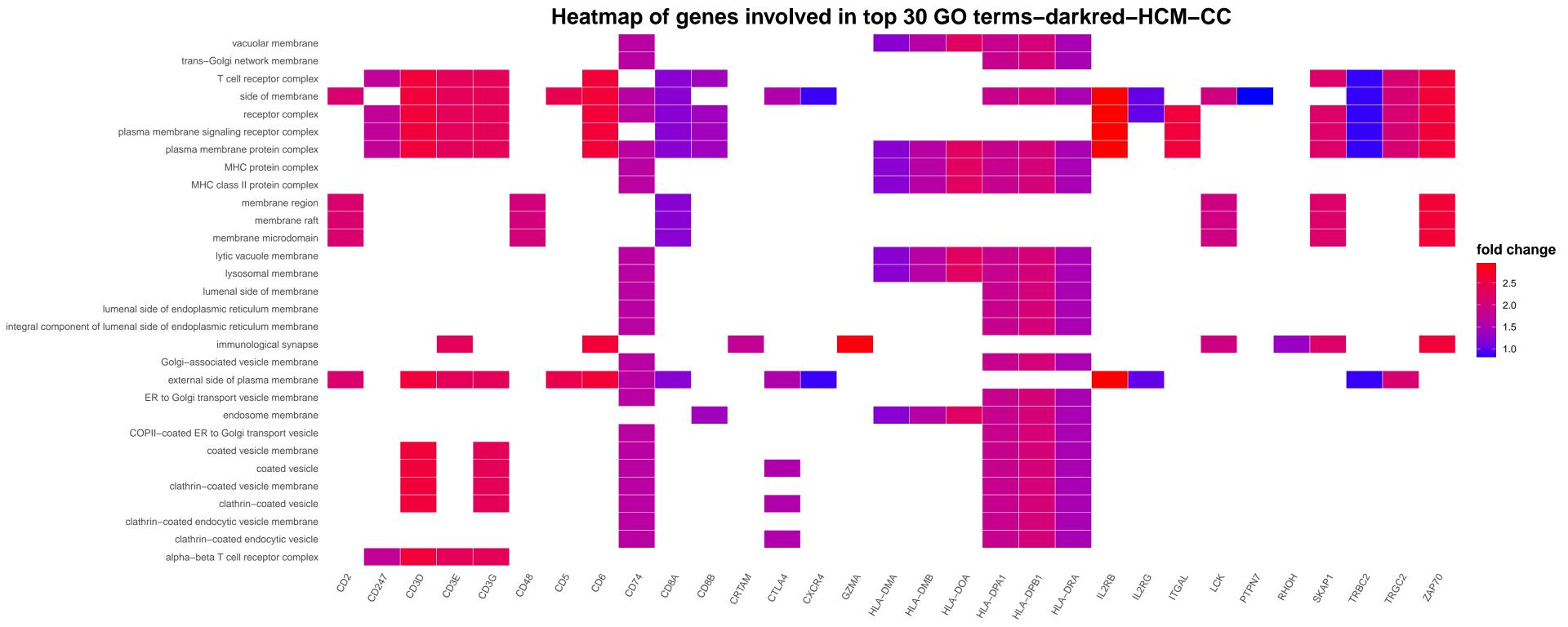


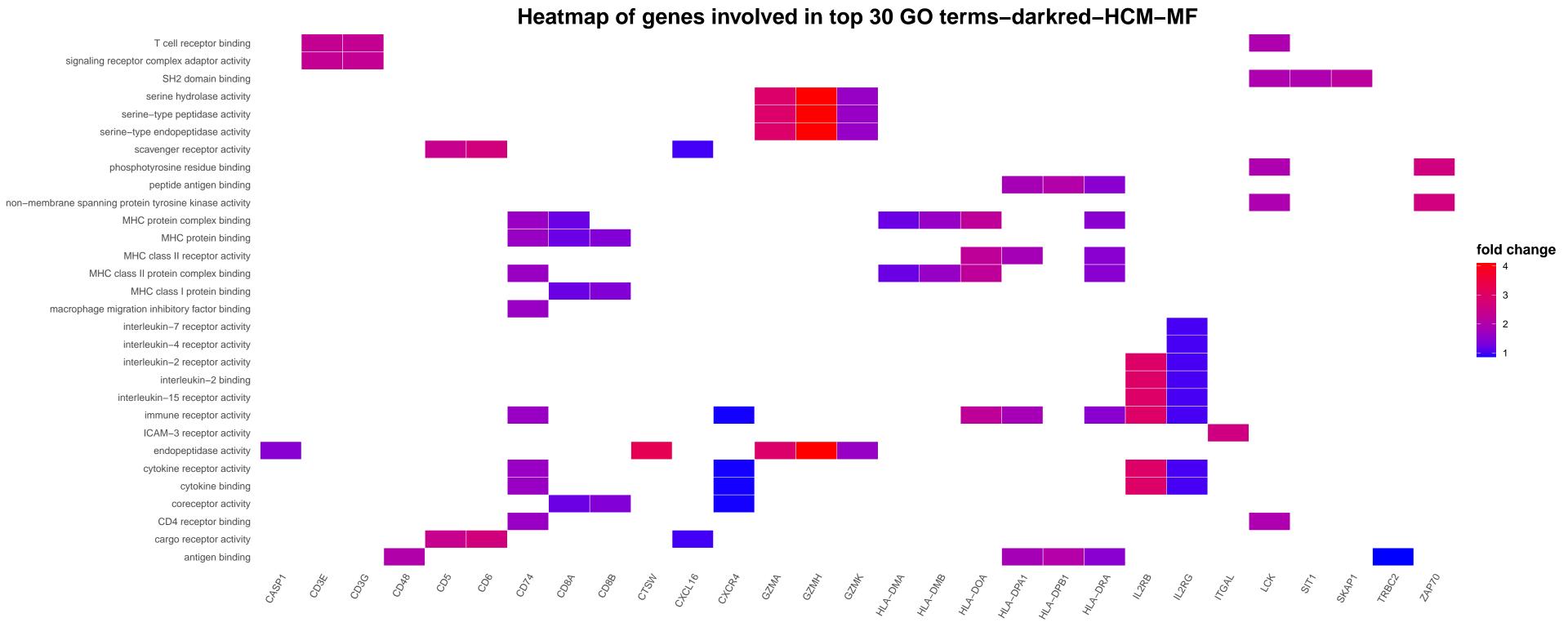




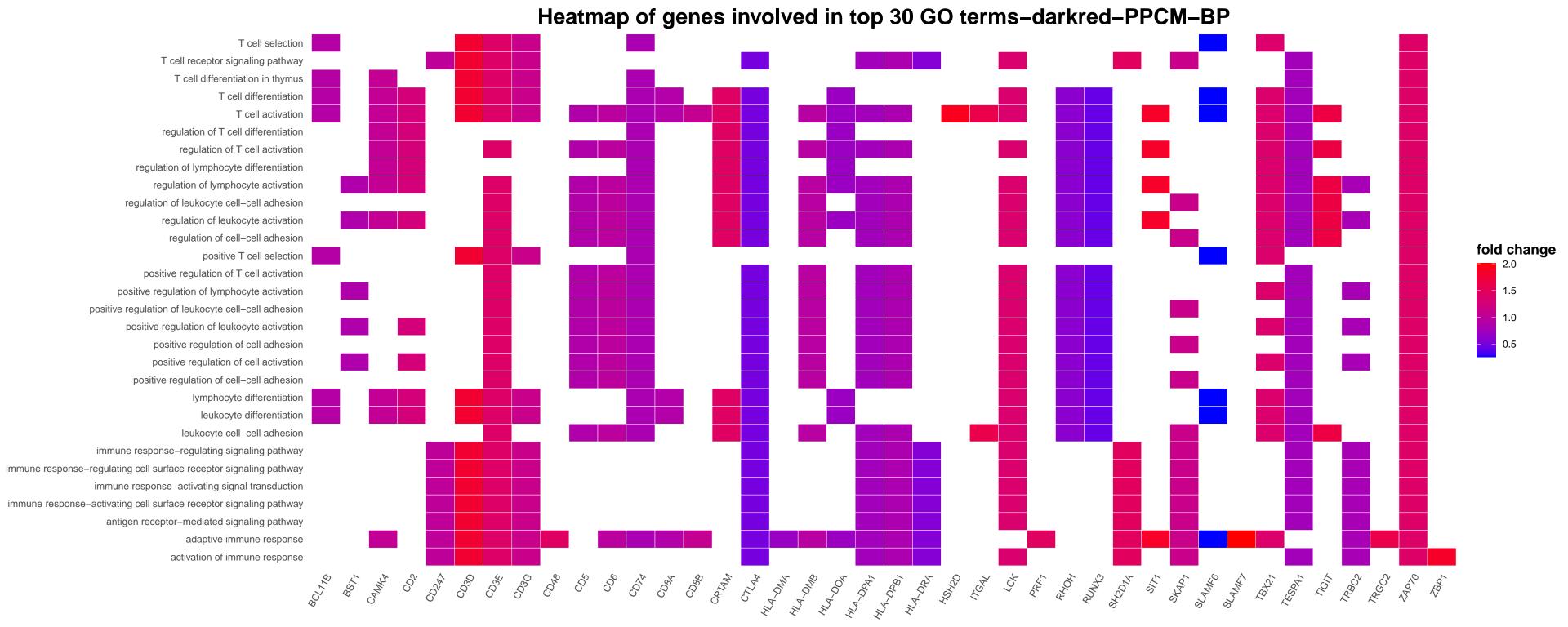


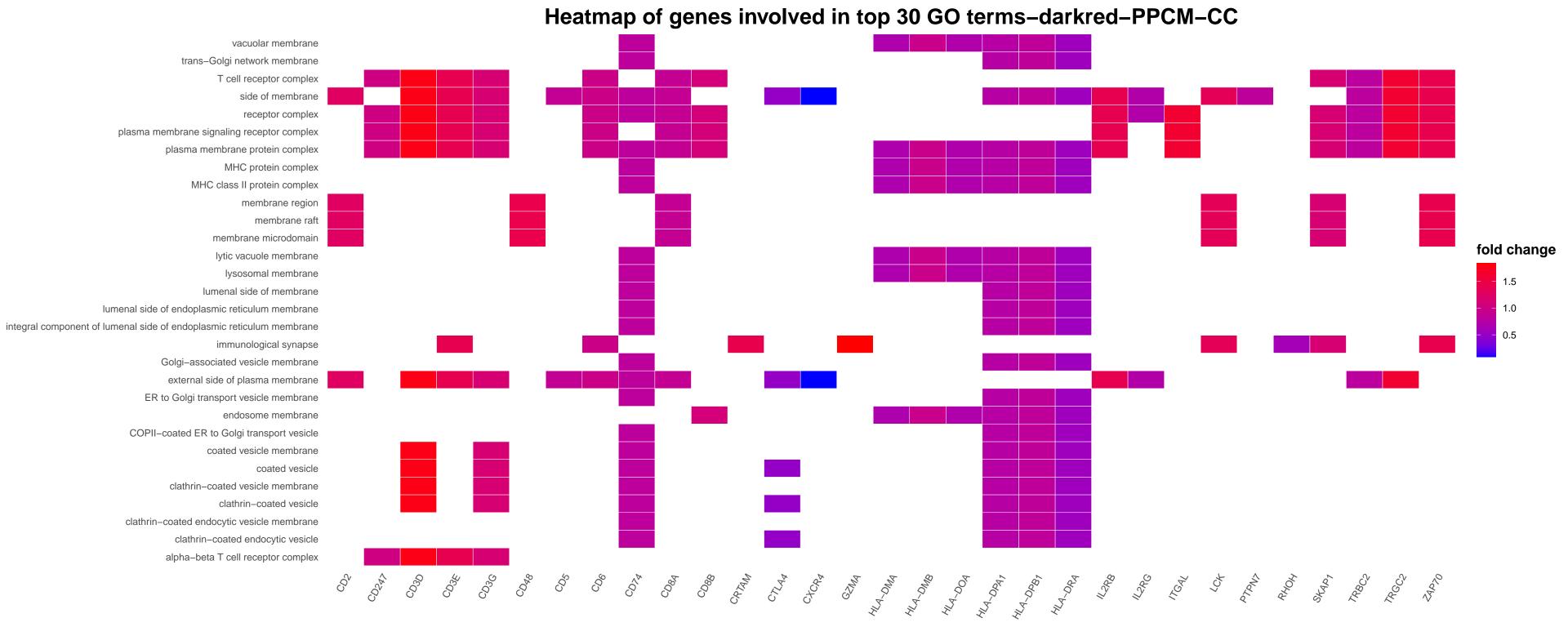


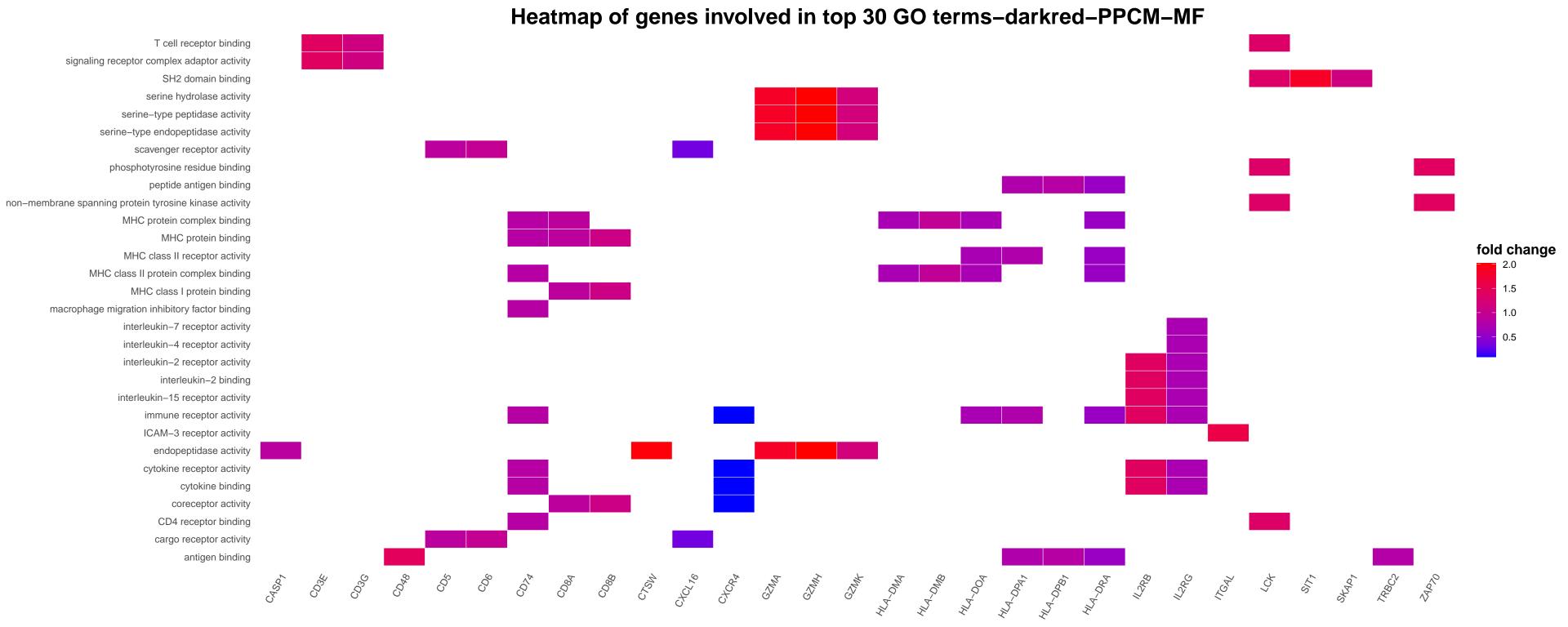


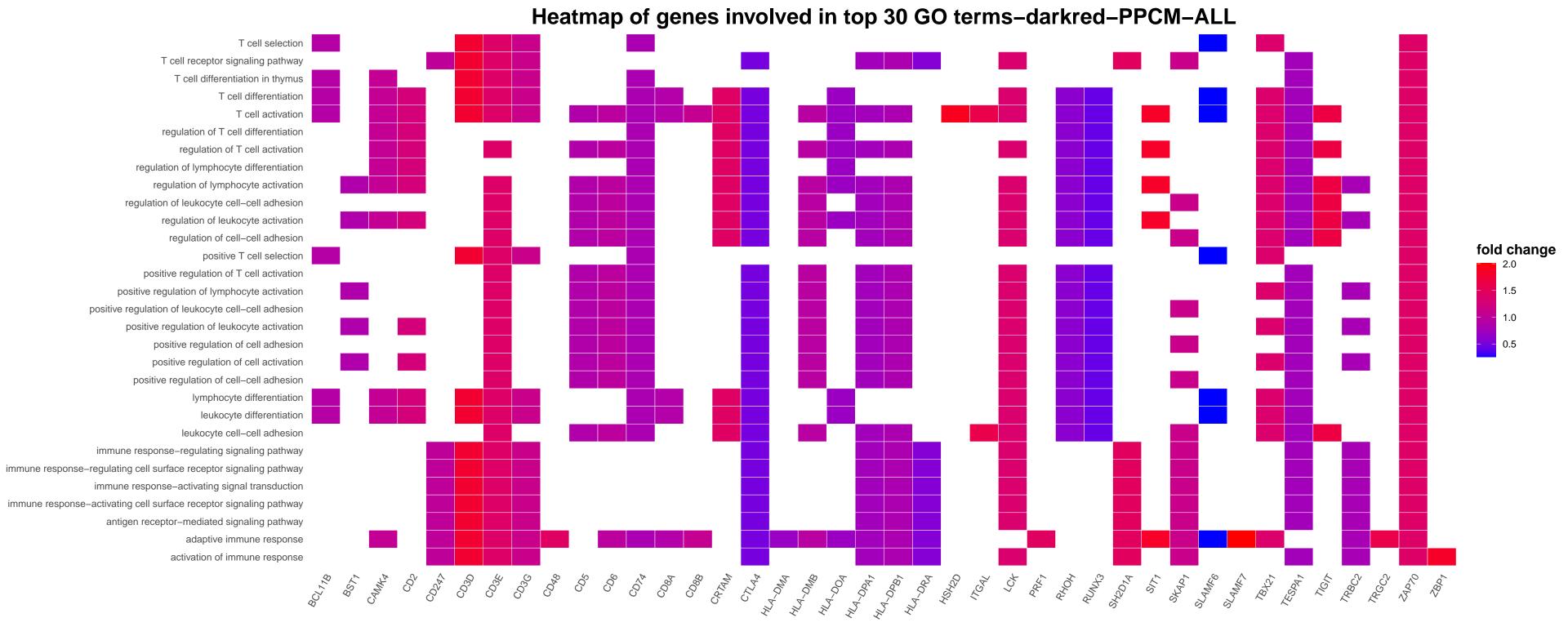


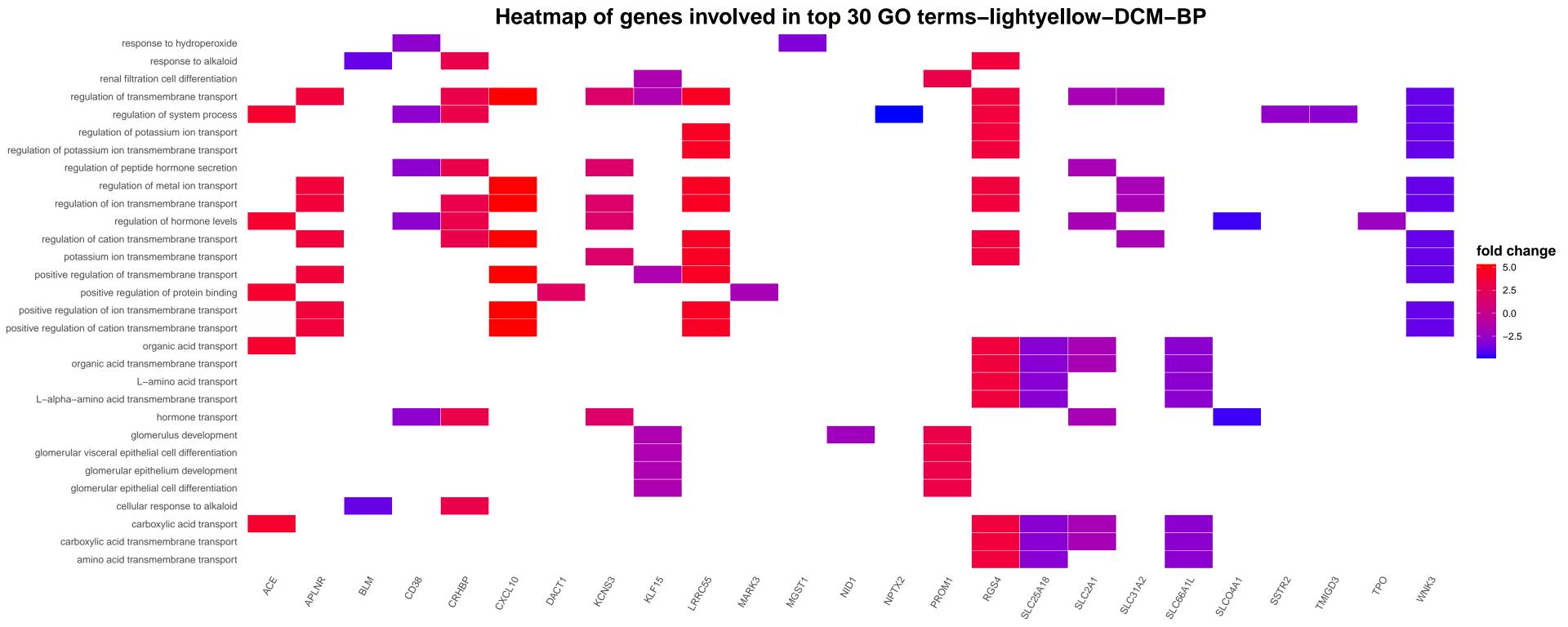


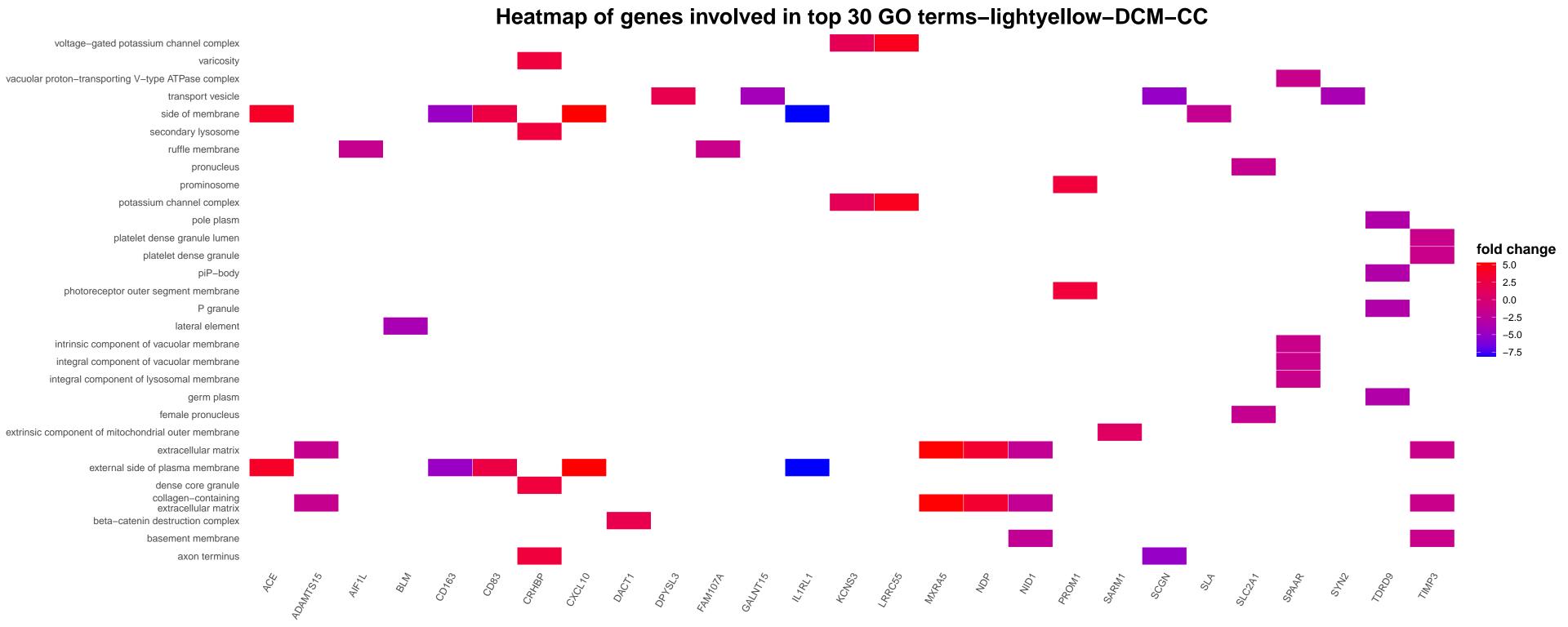


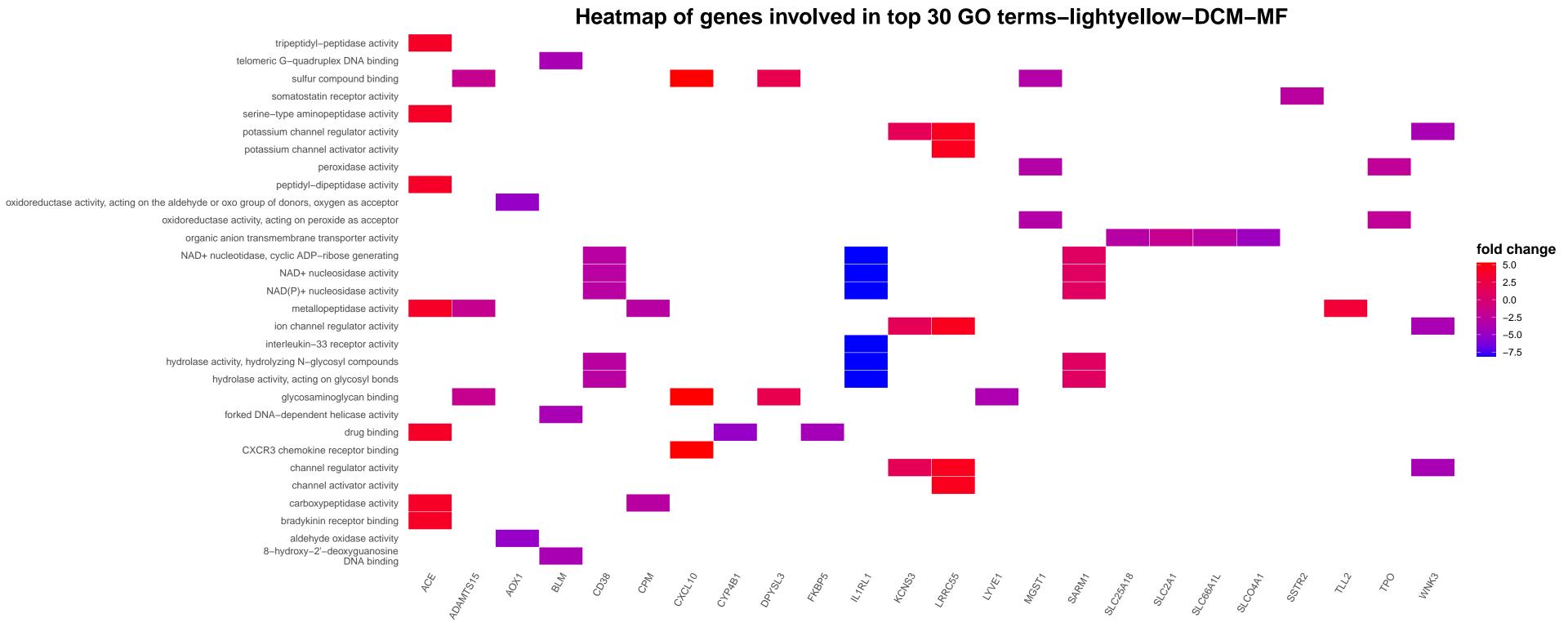


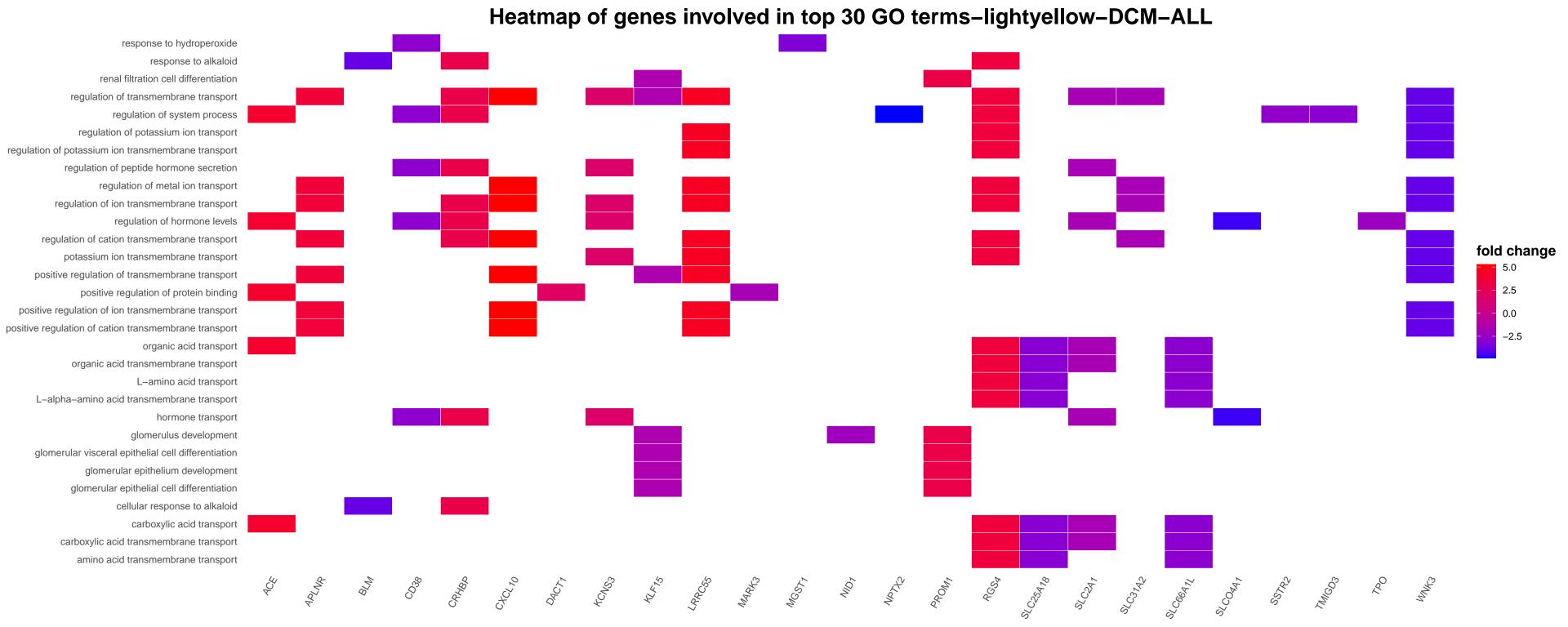


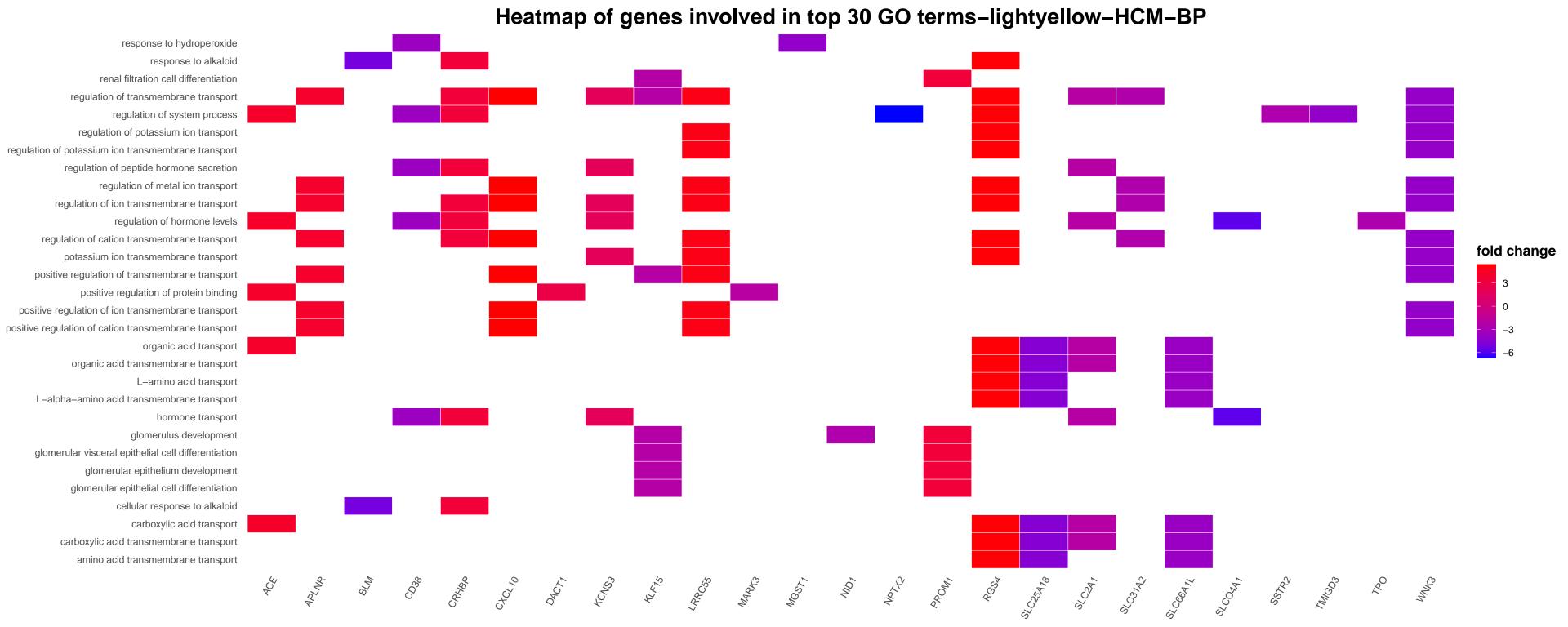


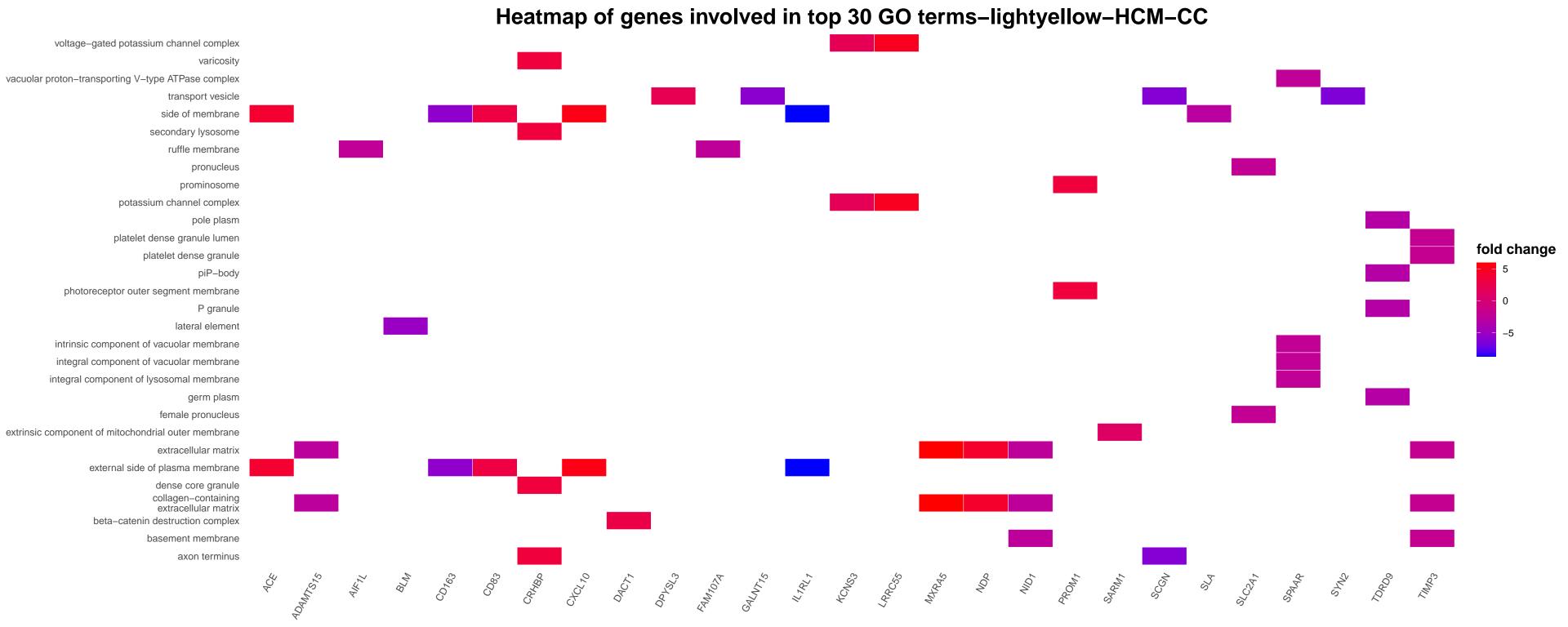


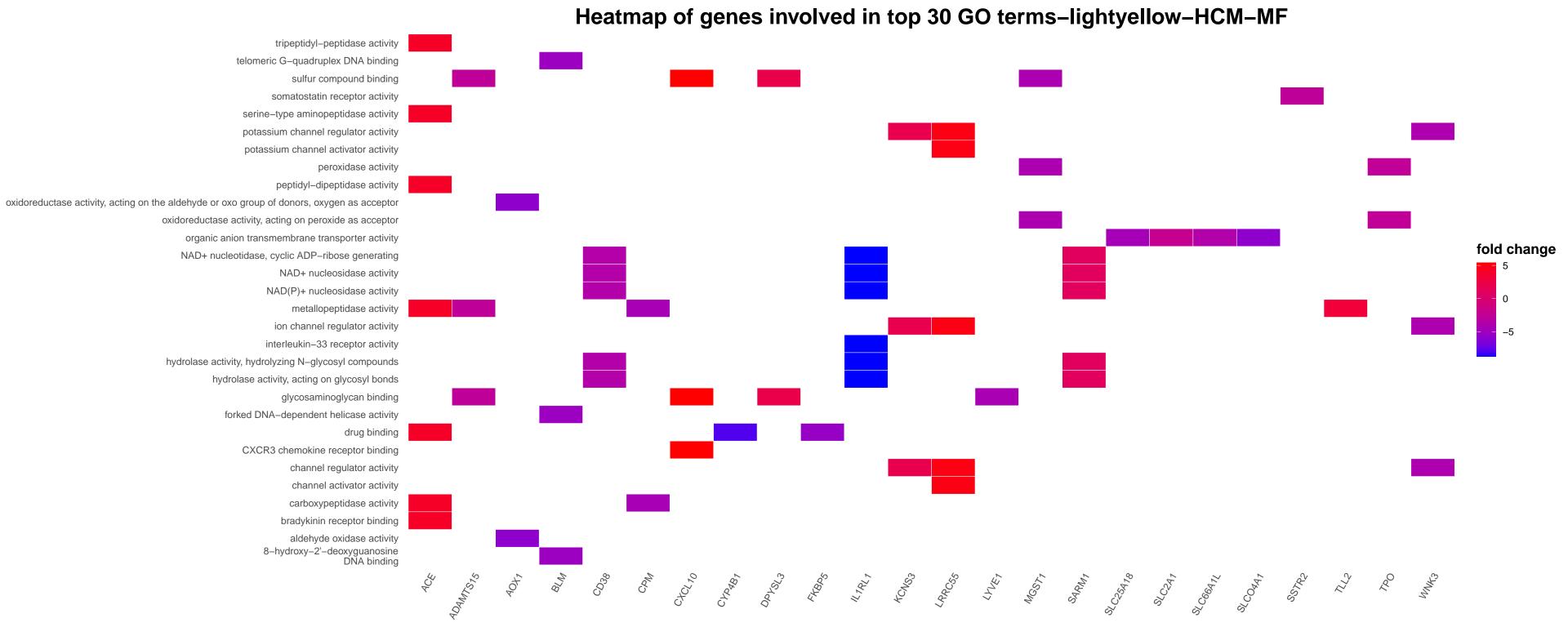


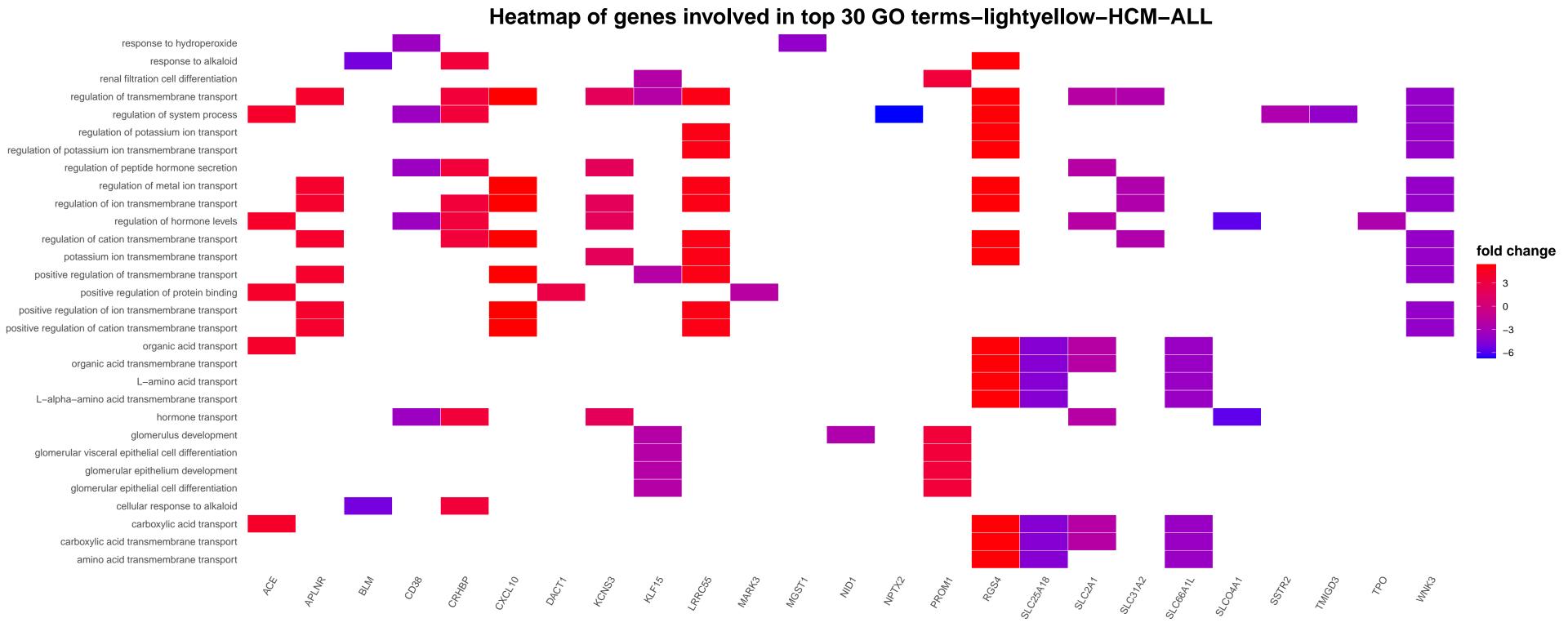


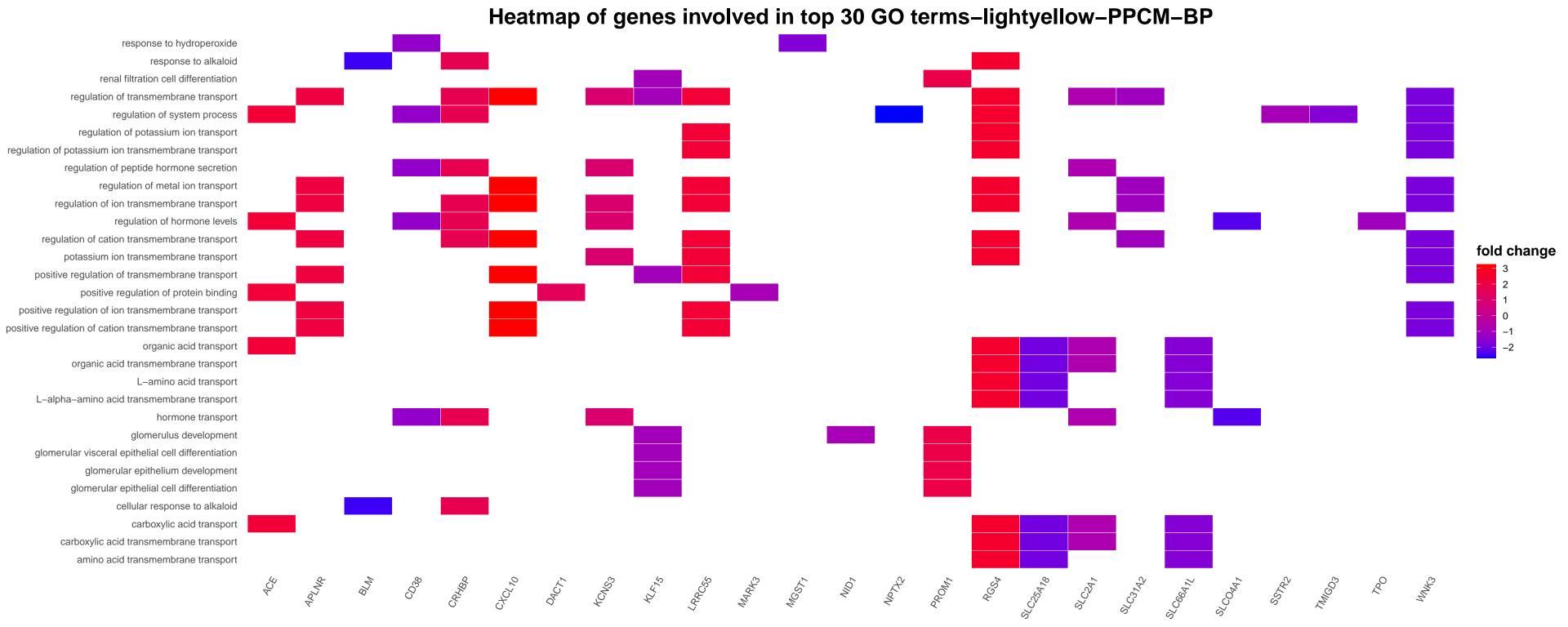


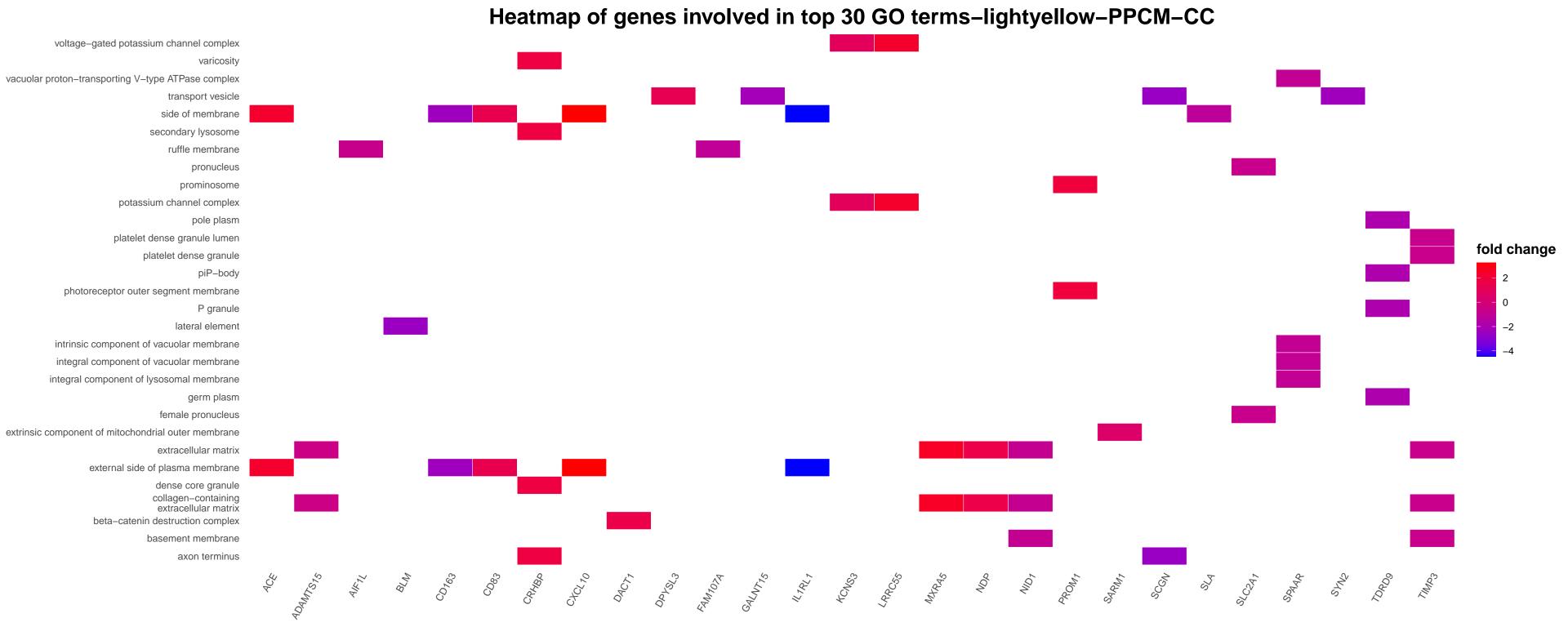


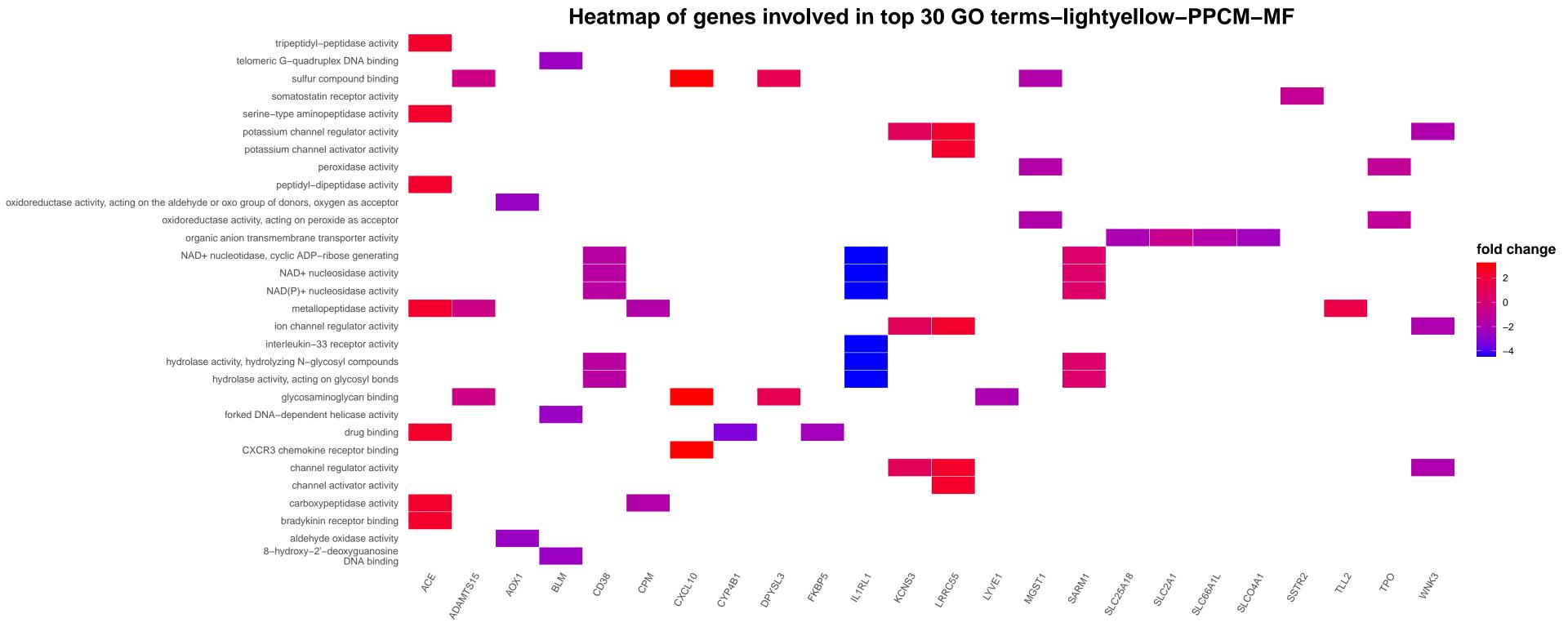












## Heatmap of genes involved in top 30 GO terms-lightyellow-PPCM-ALL response to hydroperoxide response to alkaloid renal filtration cell differentiation regulation of transmembrane transport regulation of system process regulation of potassium ion transport regulation of potassium ion transmembrane transport regulation of peptide hormone secretion regulation of metal ion transport regulation of ion transmembrane transport regulation of hormone levels regulation of cation transmembrane transport fold change potassium ion transmembrane transport positive regulation of transmembrane transport positive regulation of protein binding positive regulation of ion transmembrane transport positive regulation of cation transmembrane transport organic acid transport organic acid transmembrane transport L-amino acid transport L-alpha-amino acid transmembrane transport hormone transport glomerulus development glomerular visceral epithelial cell differentiation glomerular epithelium development glomerular epithelial cell differentiation cellular response to alkaloid carboxylic acid transport carboxylic acid transmembrane transport amino acid transmembrane transport

