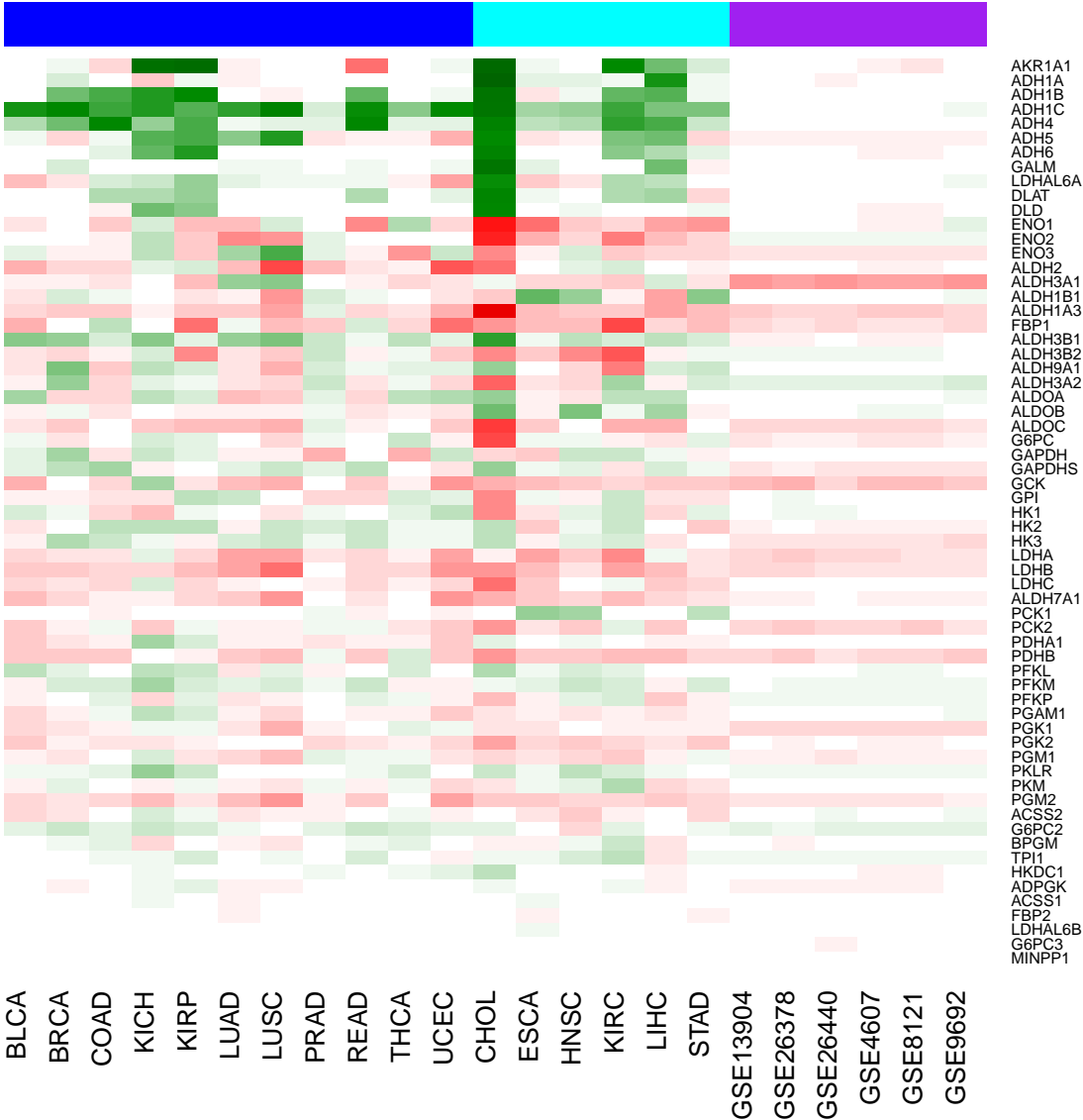
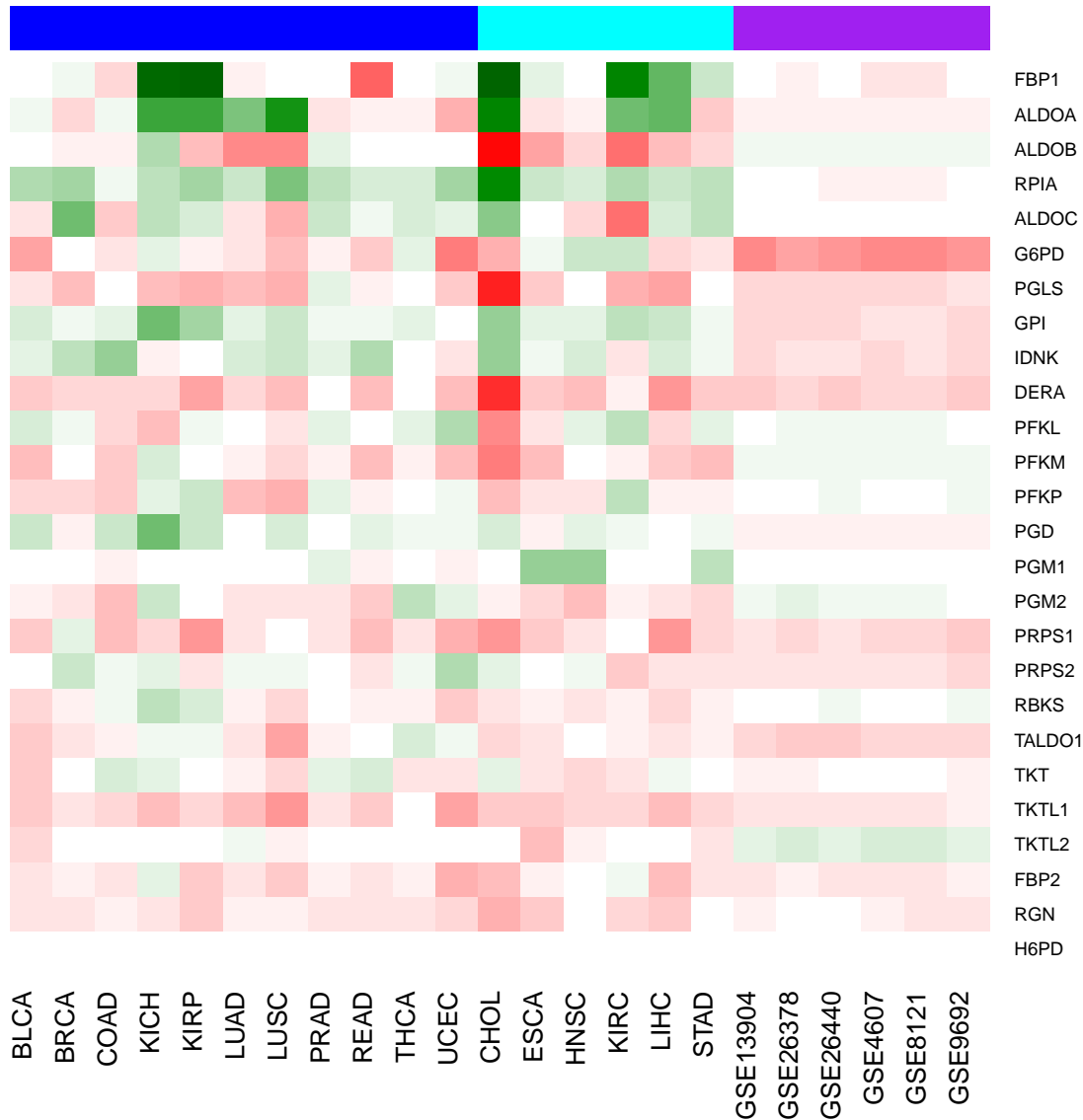


hsa00010: Glycolysis / Gluconeogenesis



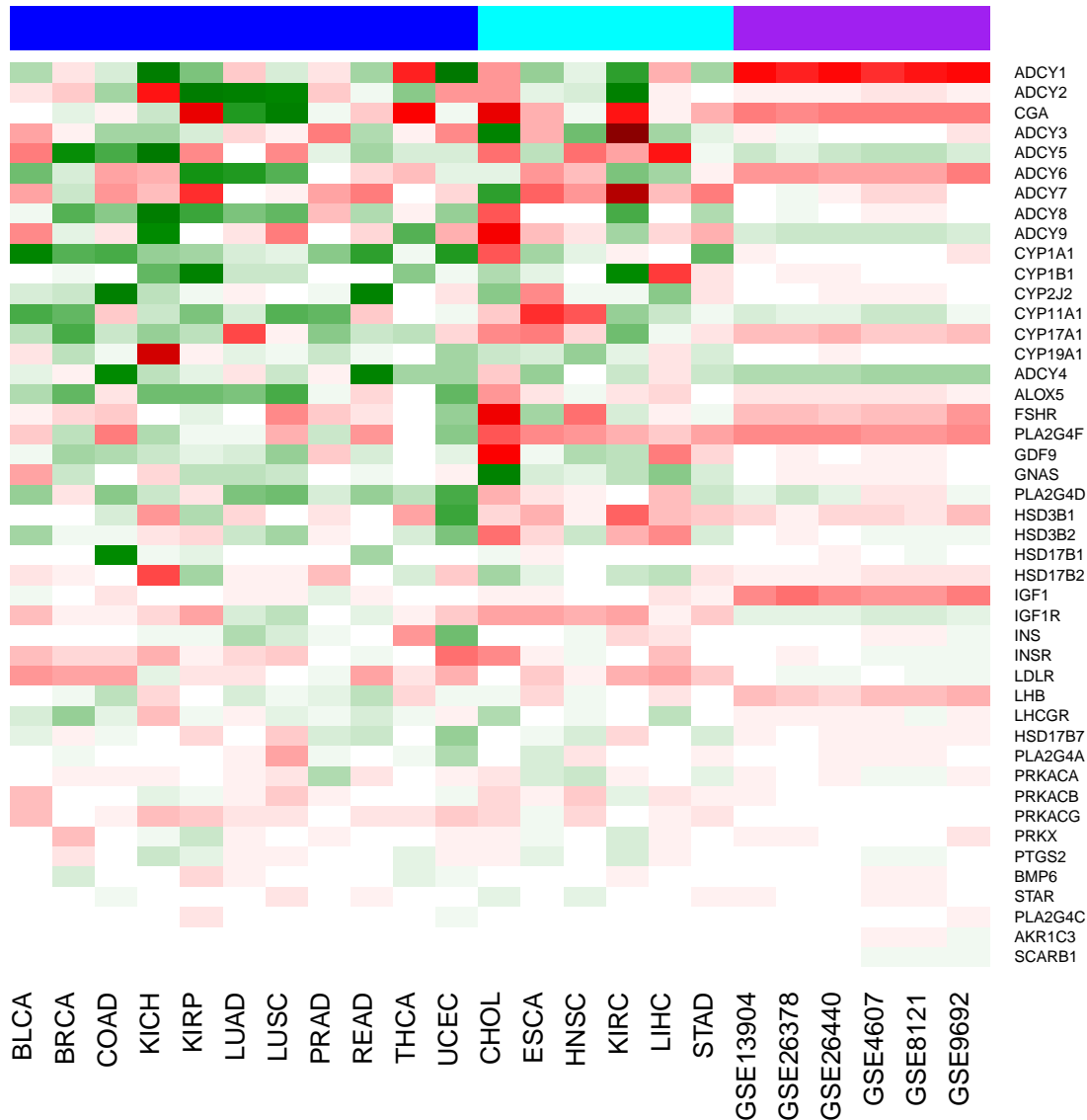


hsa00030: Pentose phosphate pathway



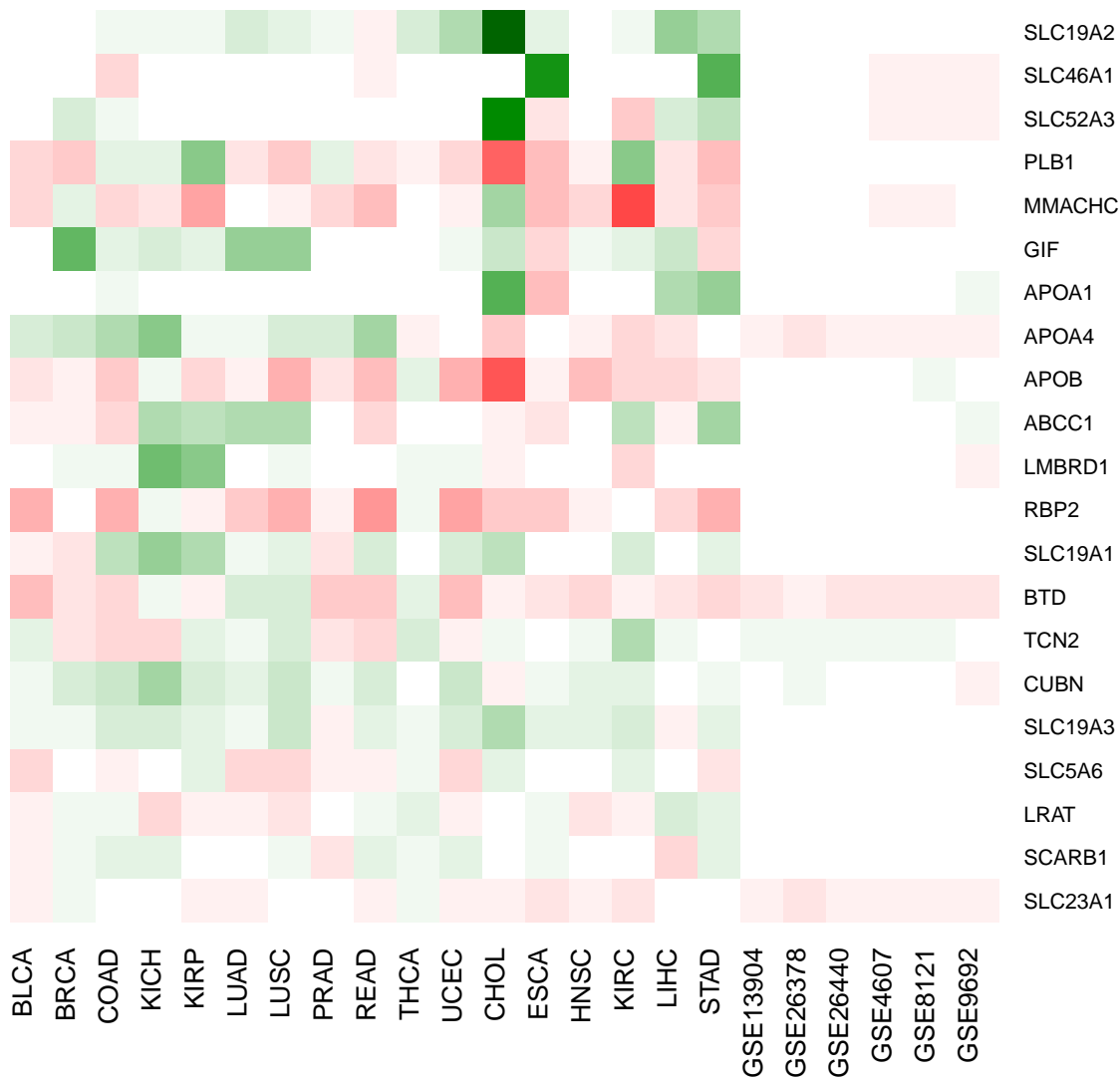


# hsa04913: Ovarian steroidogenesis



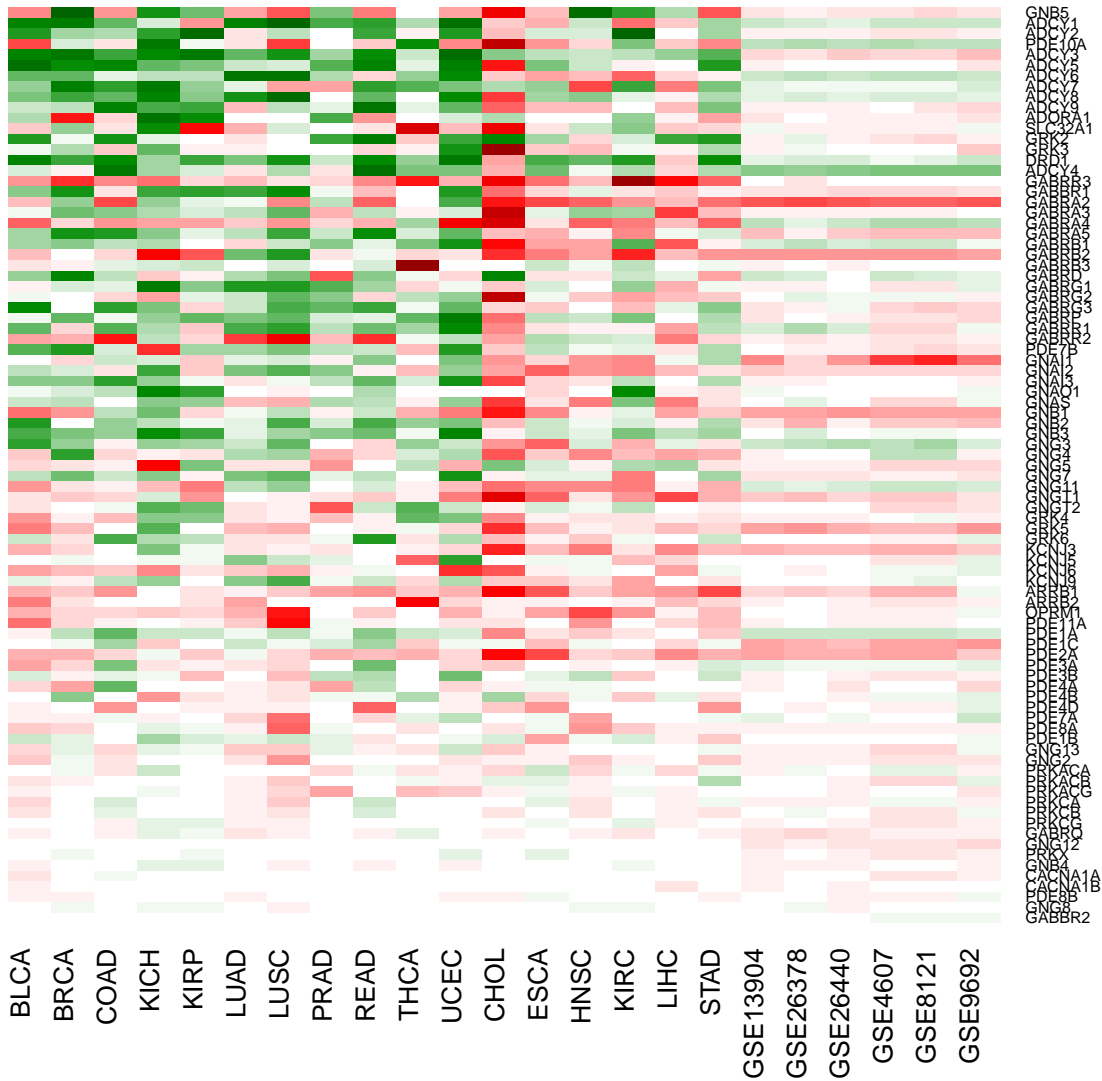


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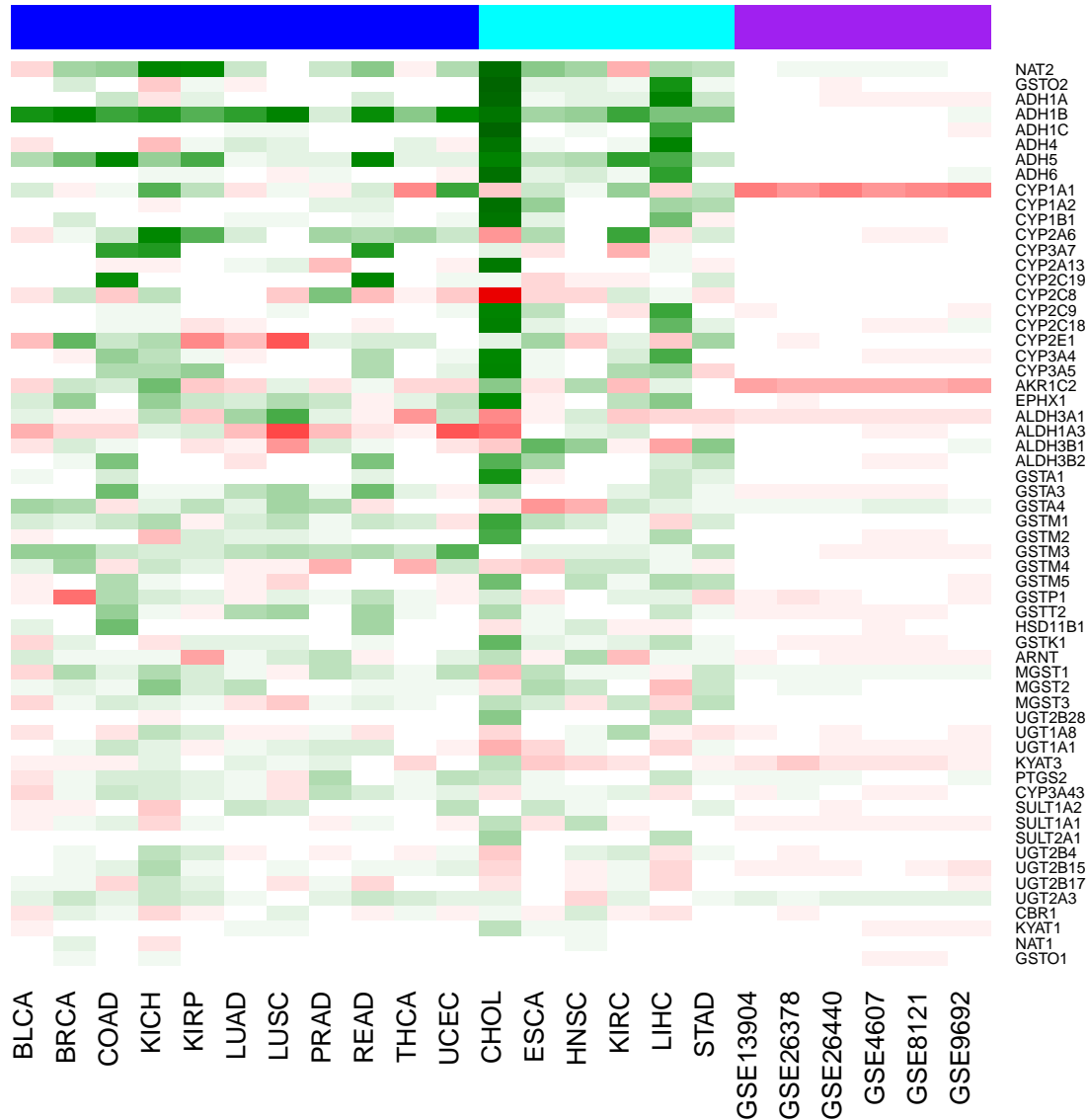


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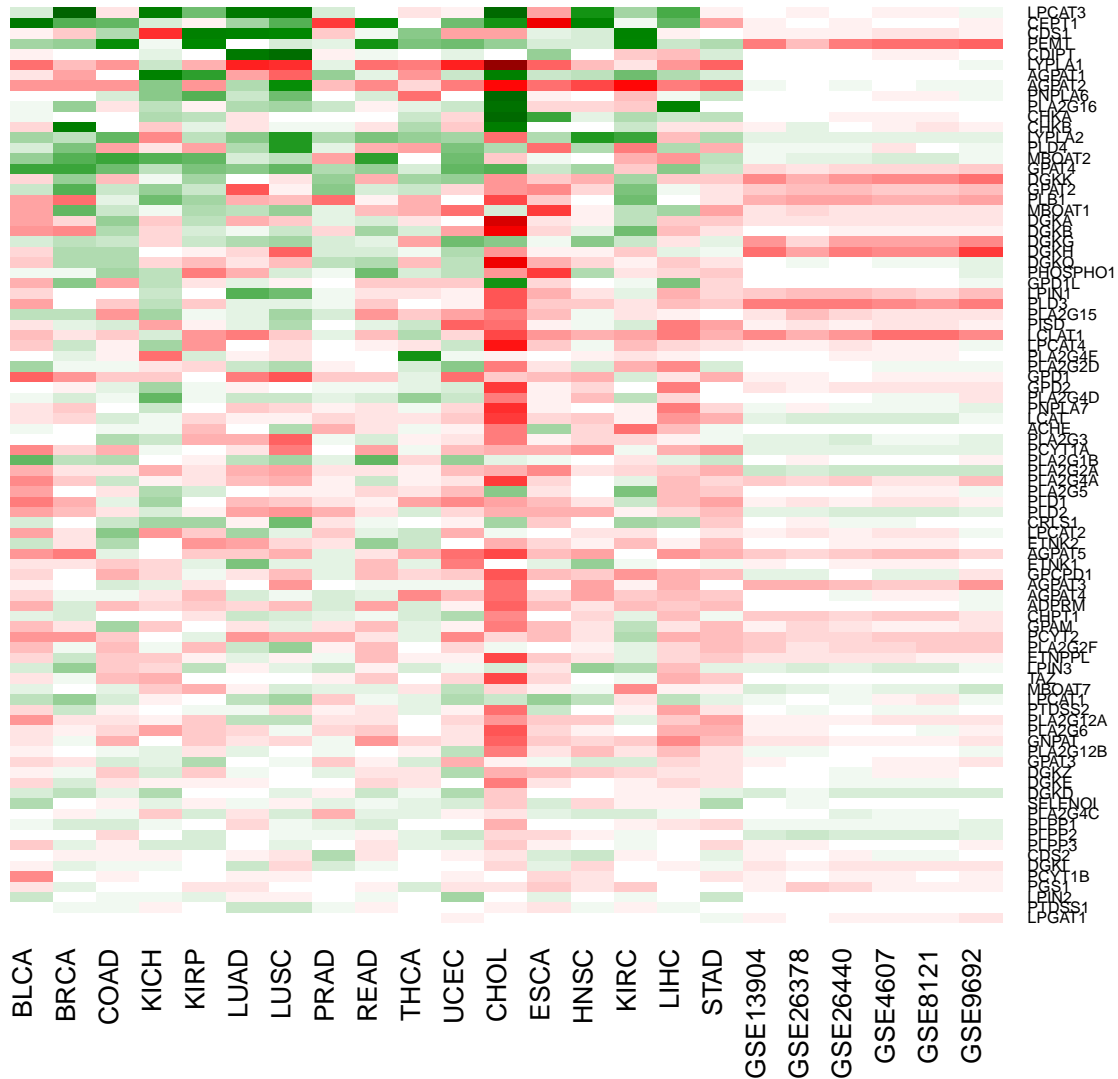


hsa05204: Chemical carcinogenesis



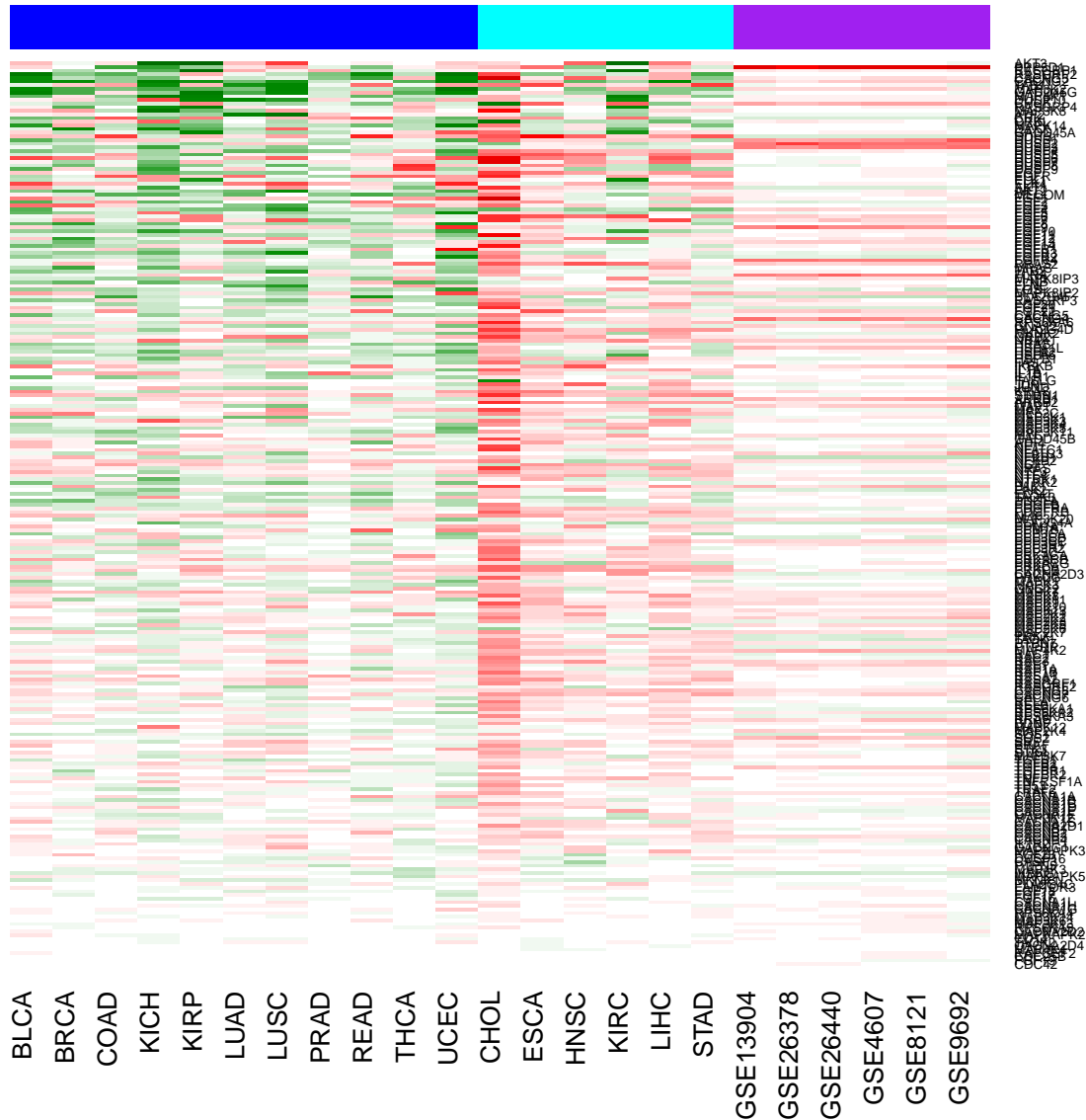


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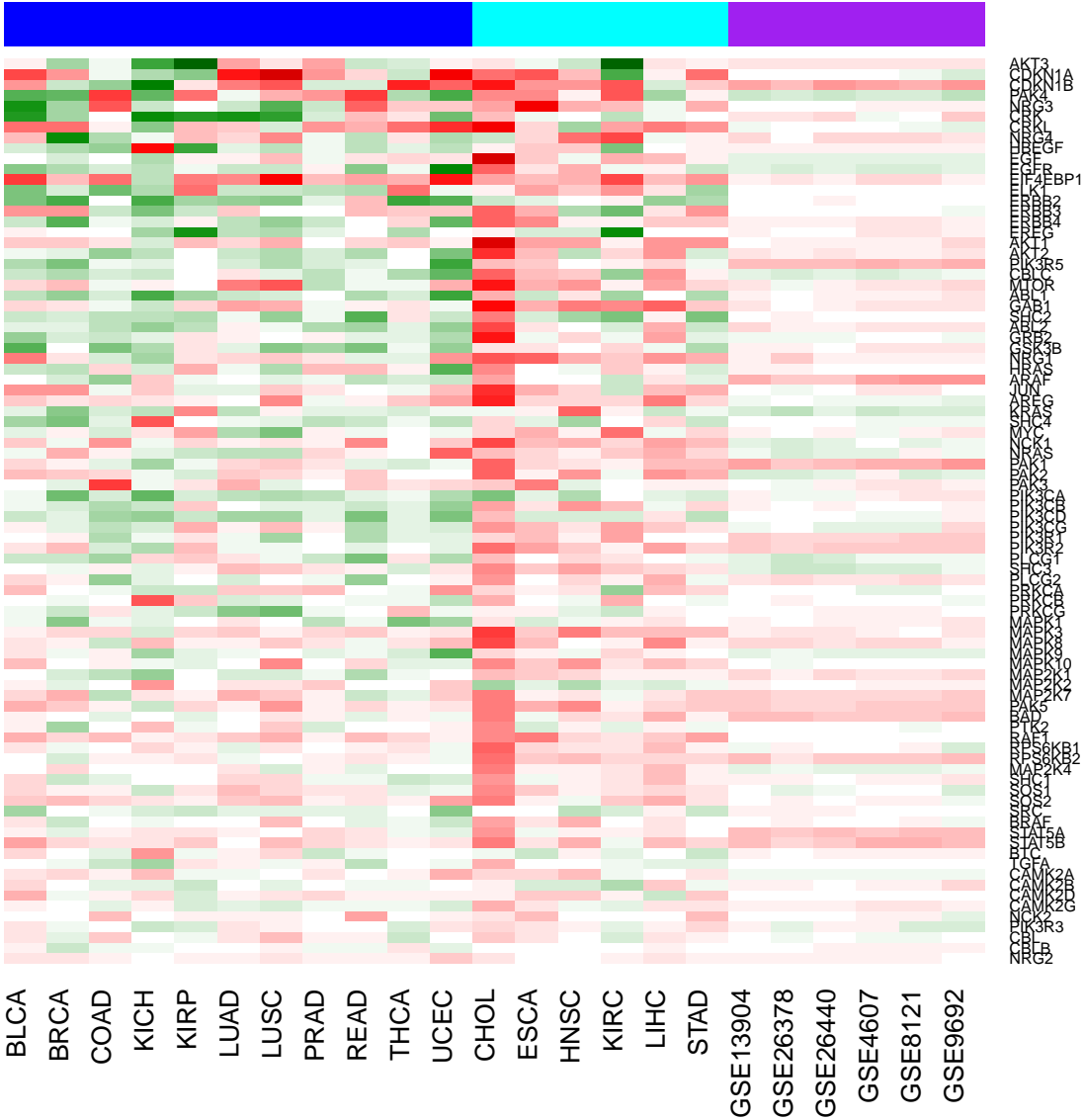


hsa04010: MAPK signaling pathway





hsa04012: ErbB signaling pathway





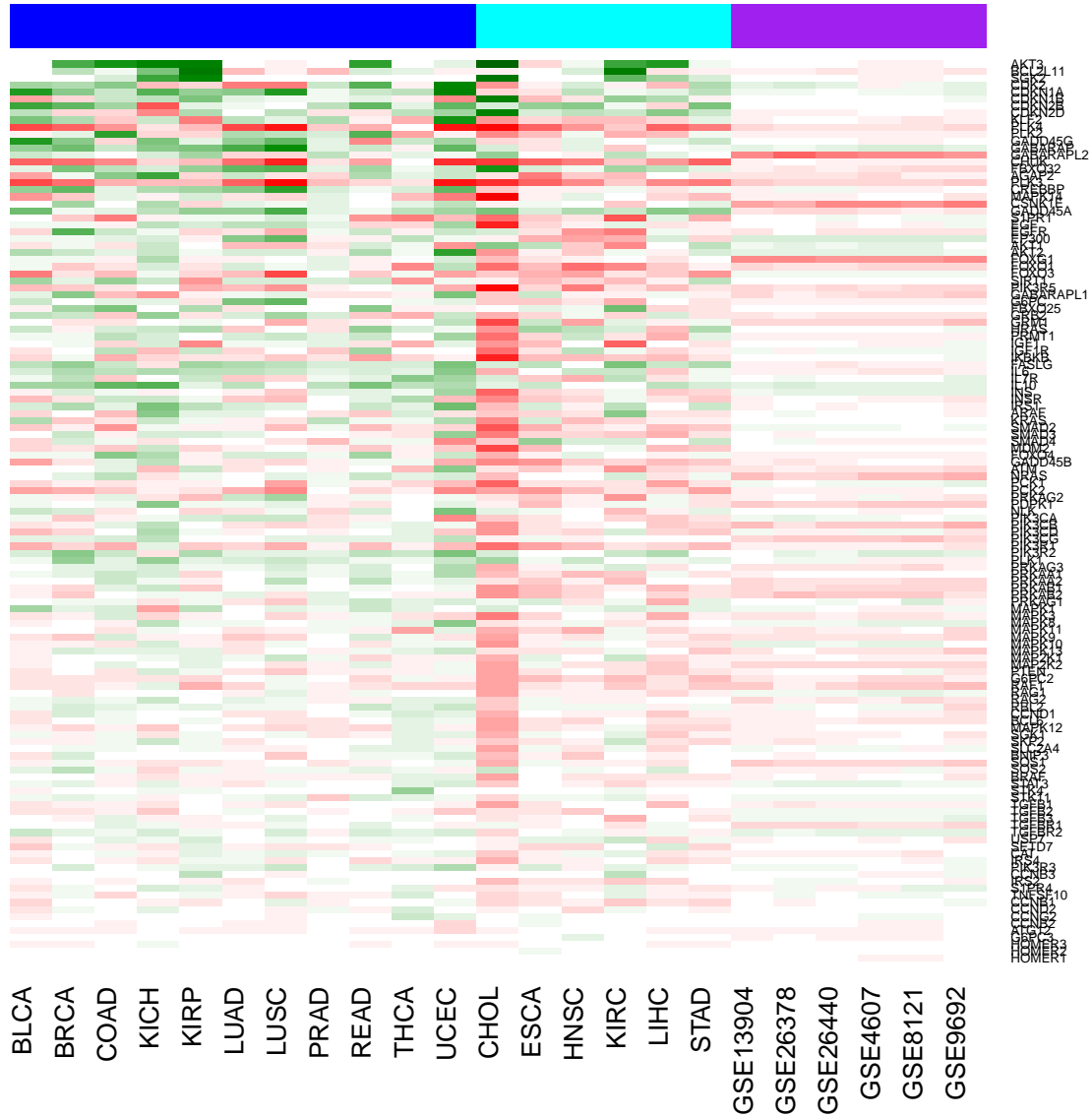
[illegible]



Heatmap visualization showing the expression of 100 genes across 15 cancer types and 10 gene sets. The color scale ranges from -2 (blue) to 2 (red). The cancer types are BLCA, BRCA, COAD, KICH, KIRP, LUAD, LUSC, PRAD, READ, THCA, UCEC, CHOL, ESCA, HNSC, KIRC, LIHC, and STAD. The gene sets are GSE13904, GSE26378, GSE26440, GSE4607, GSE8121, and GSE9692. The heatmap shows that the gene sets are highly expressed in the cancer types they were derived from, with some overlap between sets.

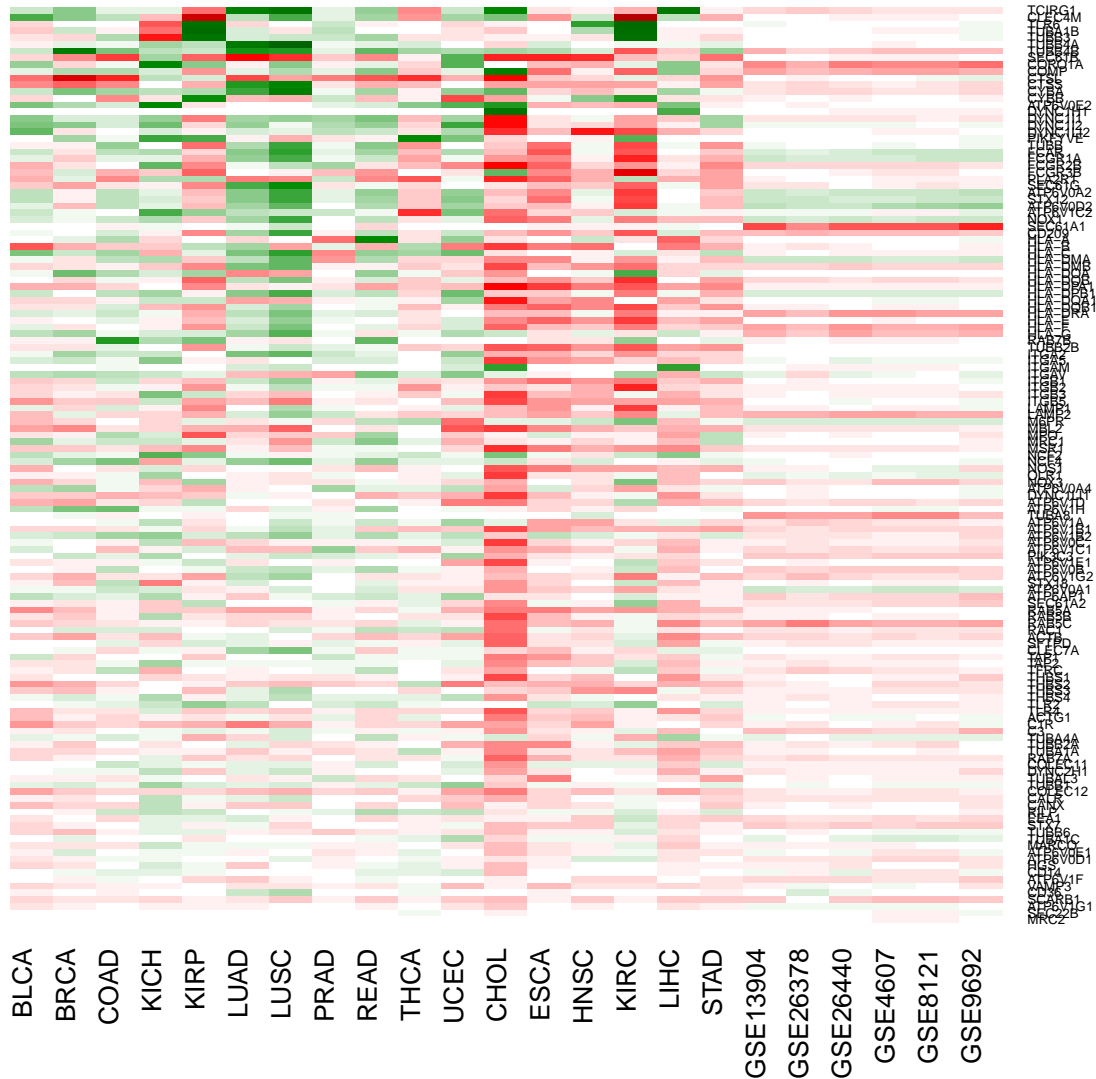


hsa04068: FoxO signaling pathway



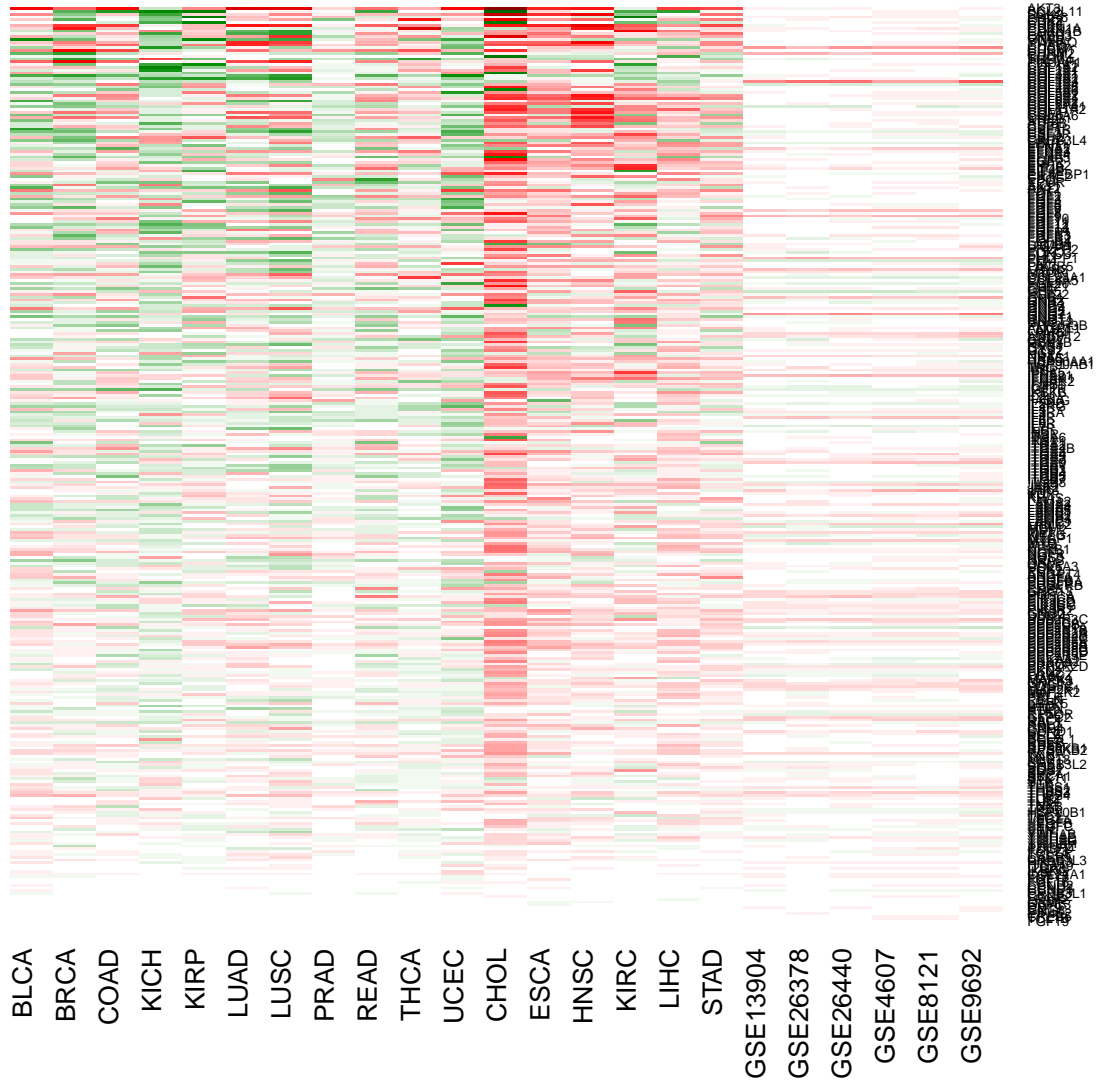


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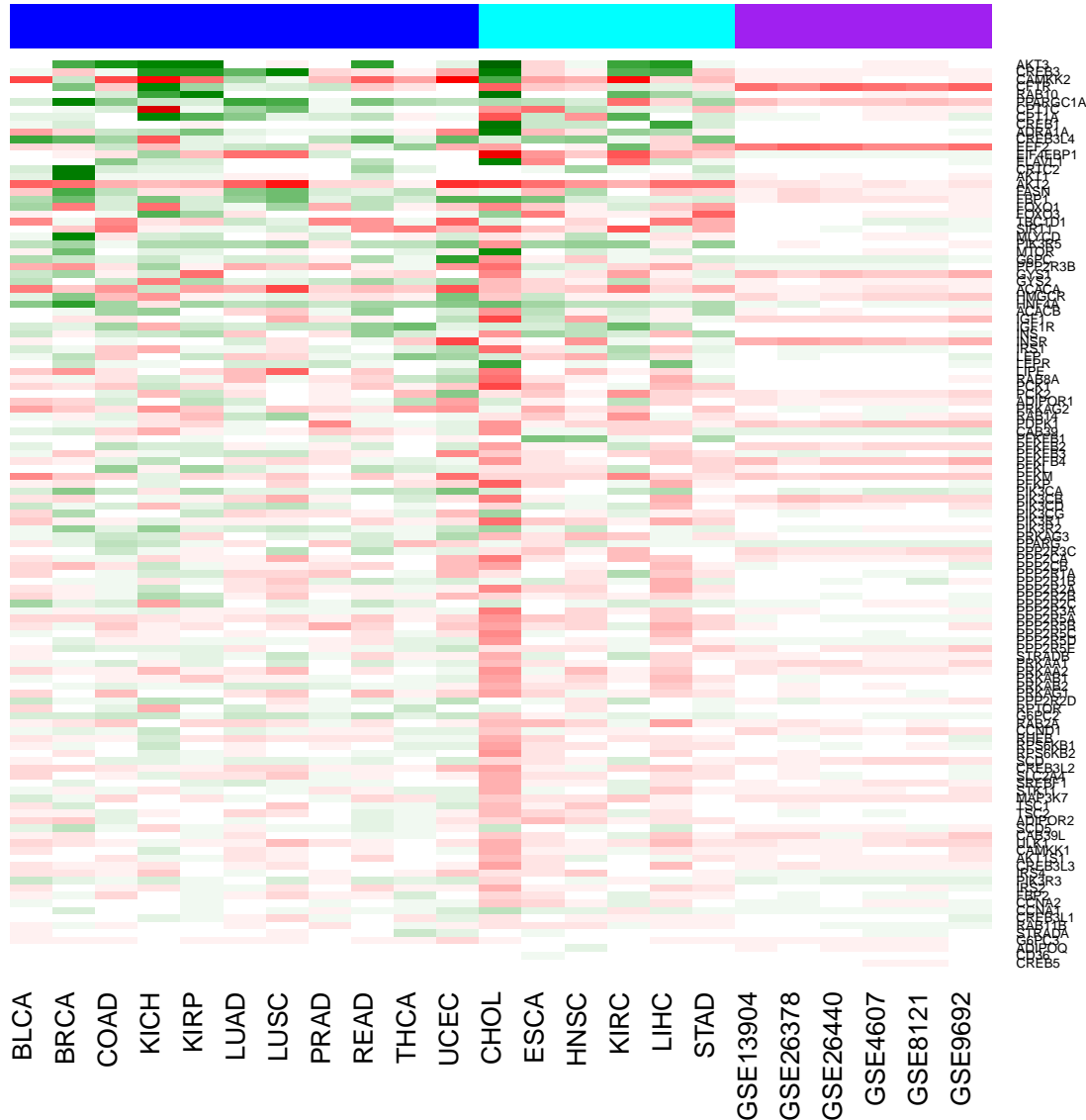


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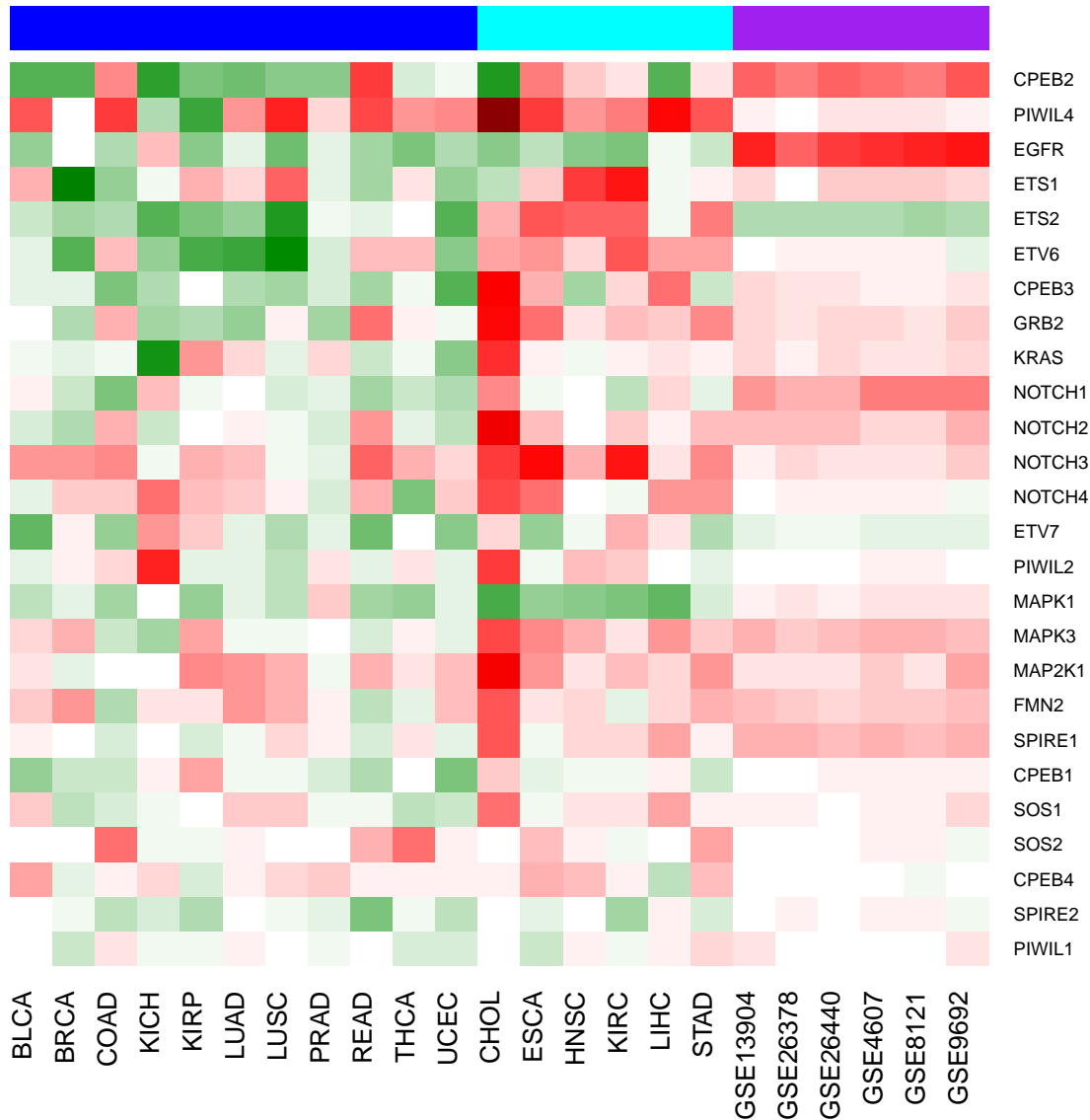


hsa04152: AMPK signaling pathway



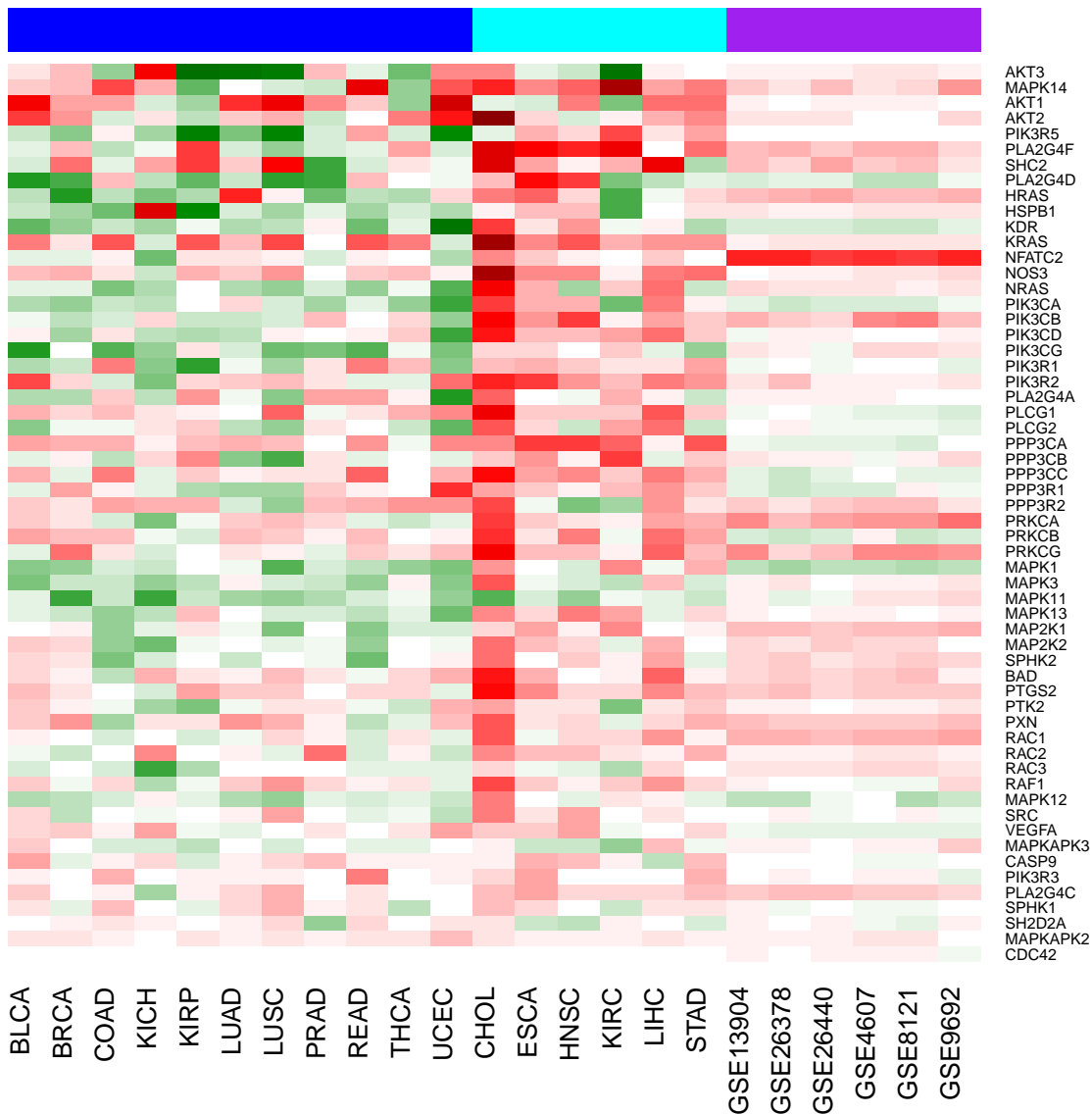


## hsa04320: Dorso–ventral axis formation



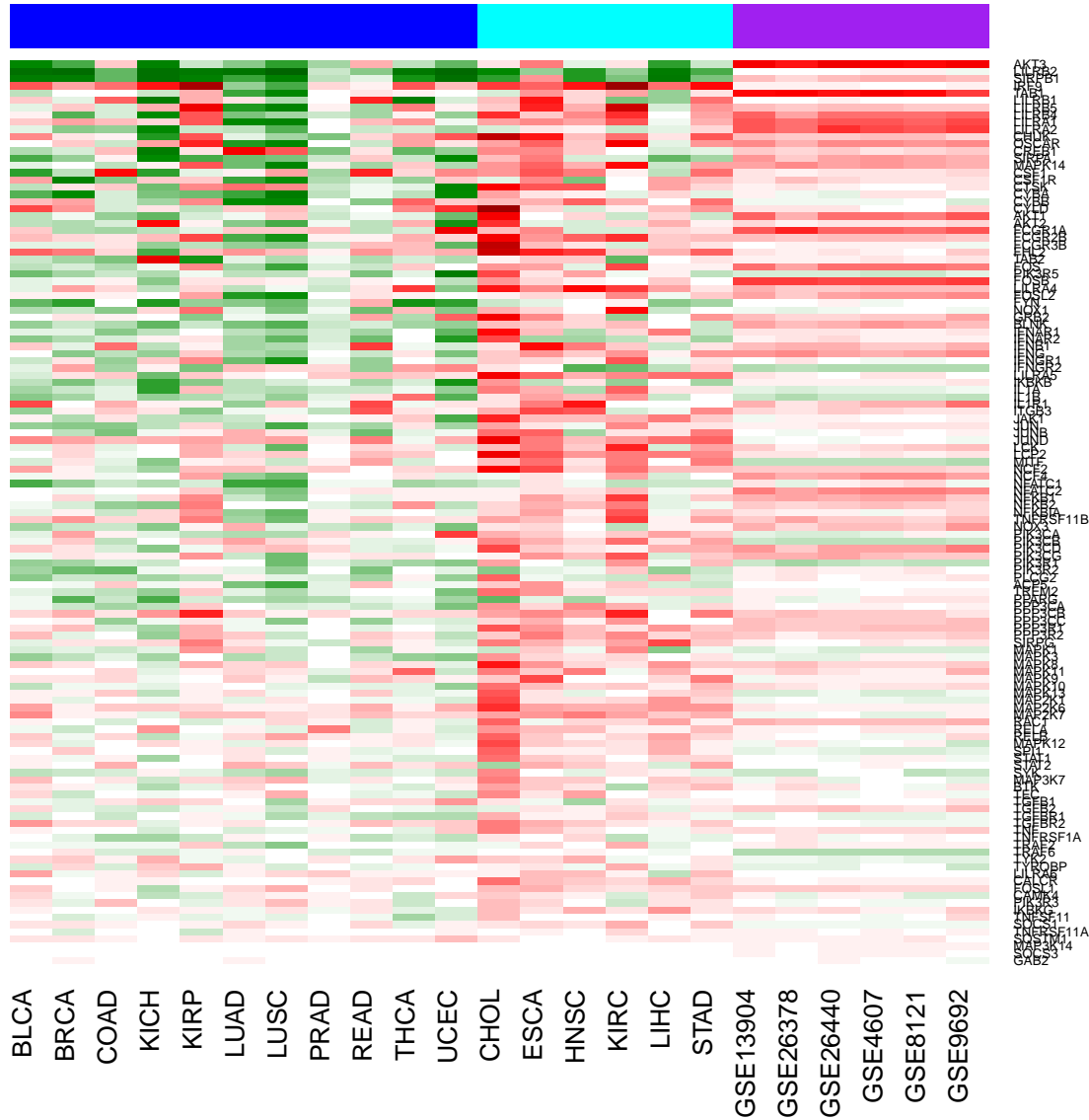


## hsa04370: VEGF signaling pathway



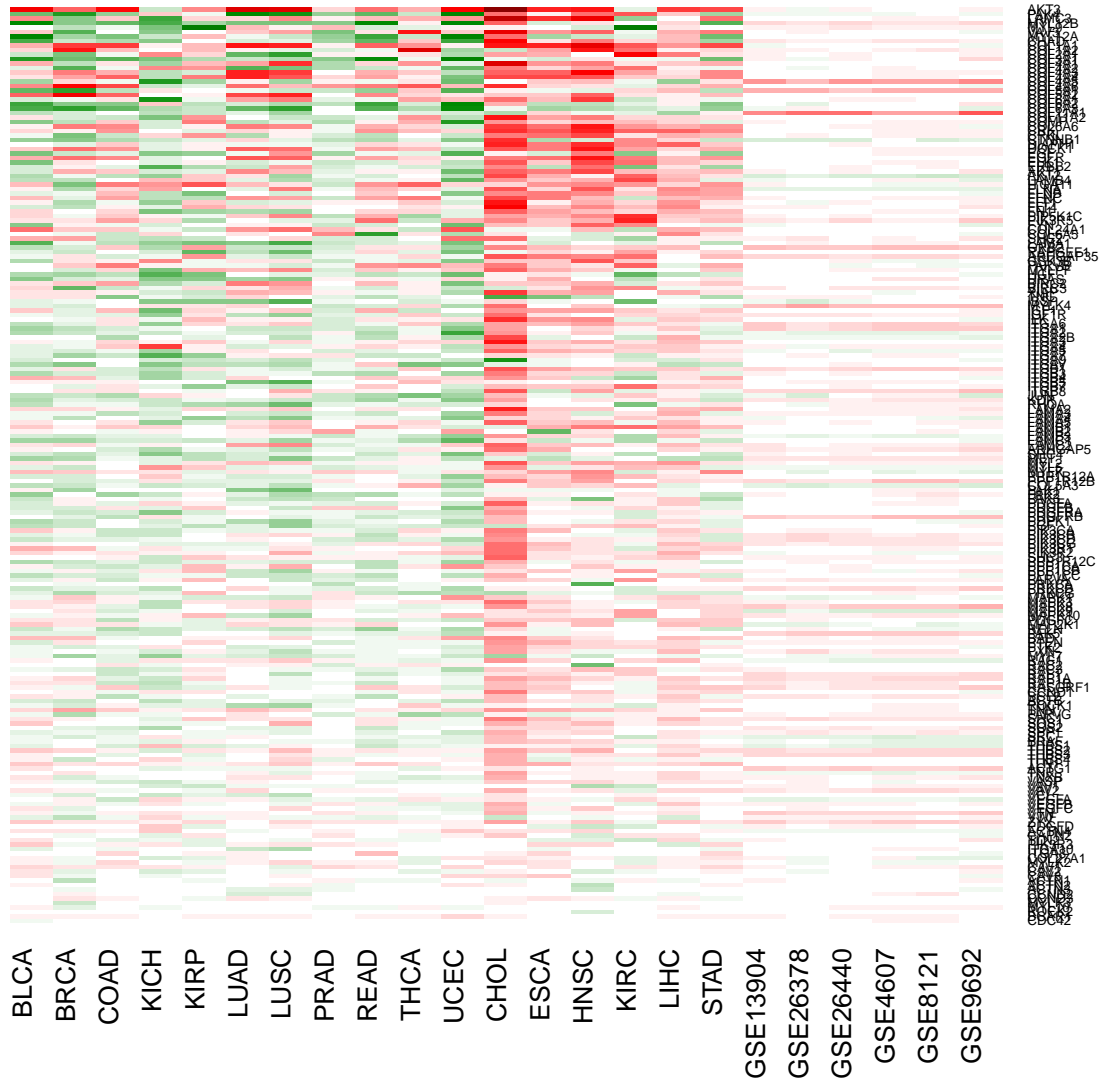


hsa04380: Osteoclast differentiation



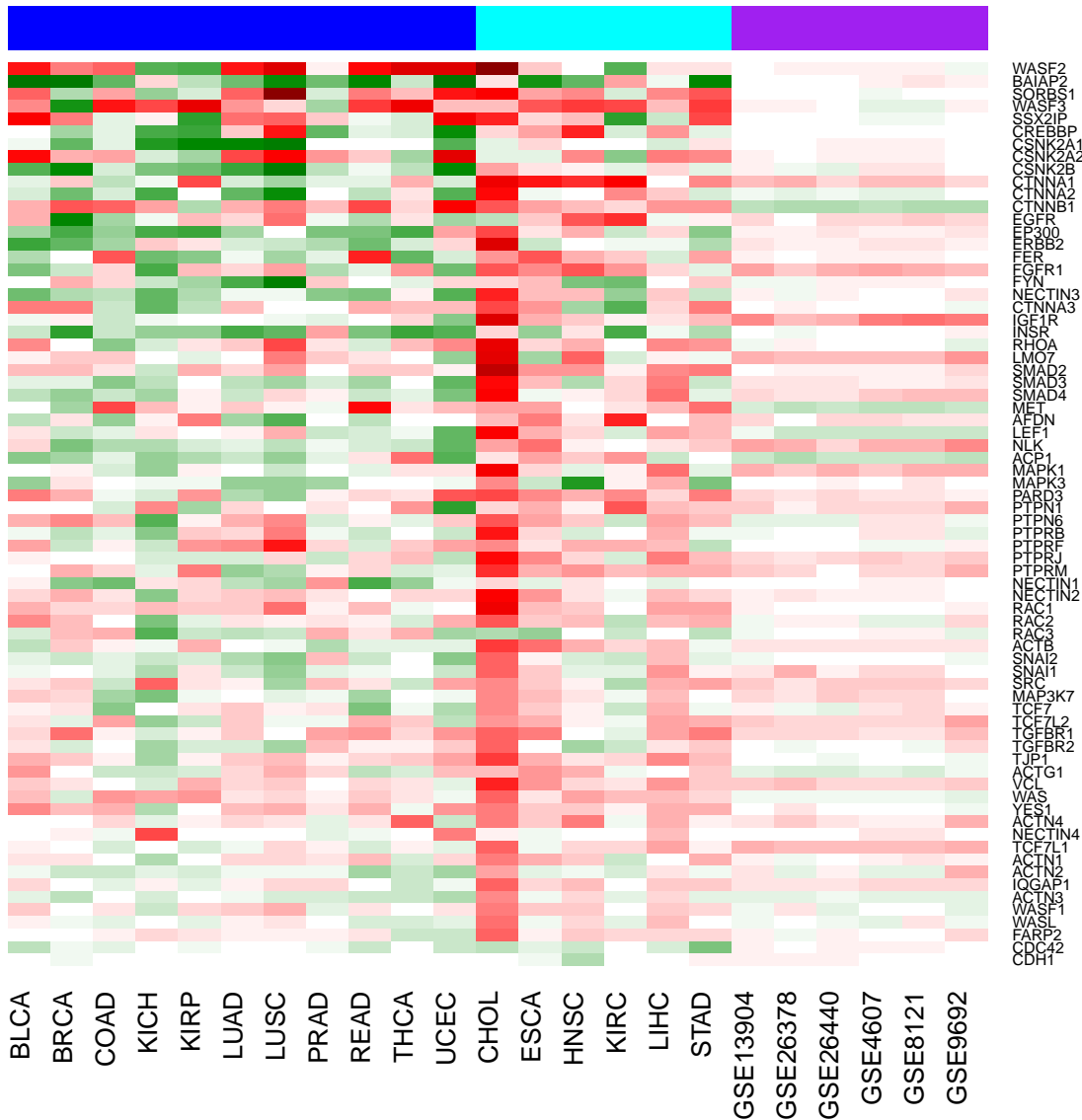


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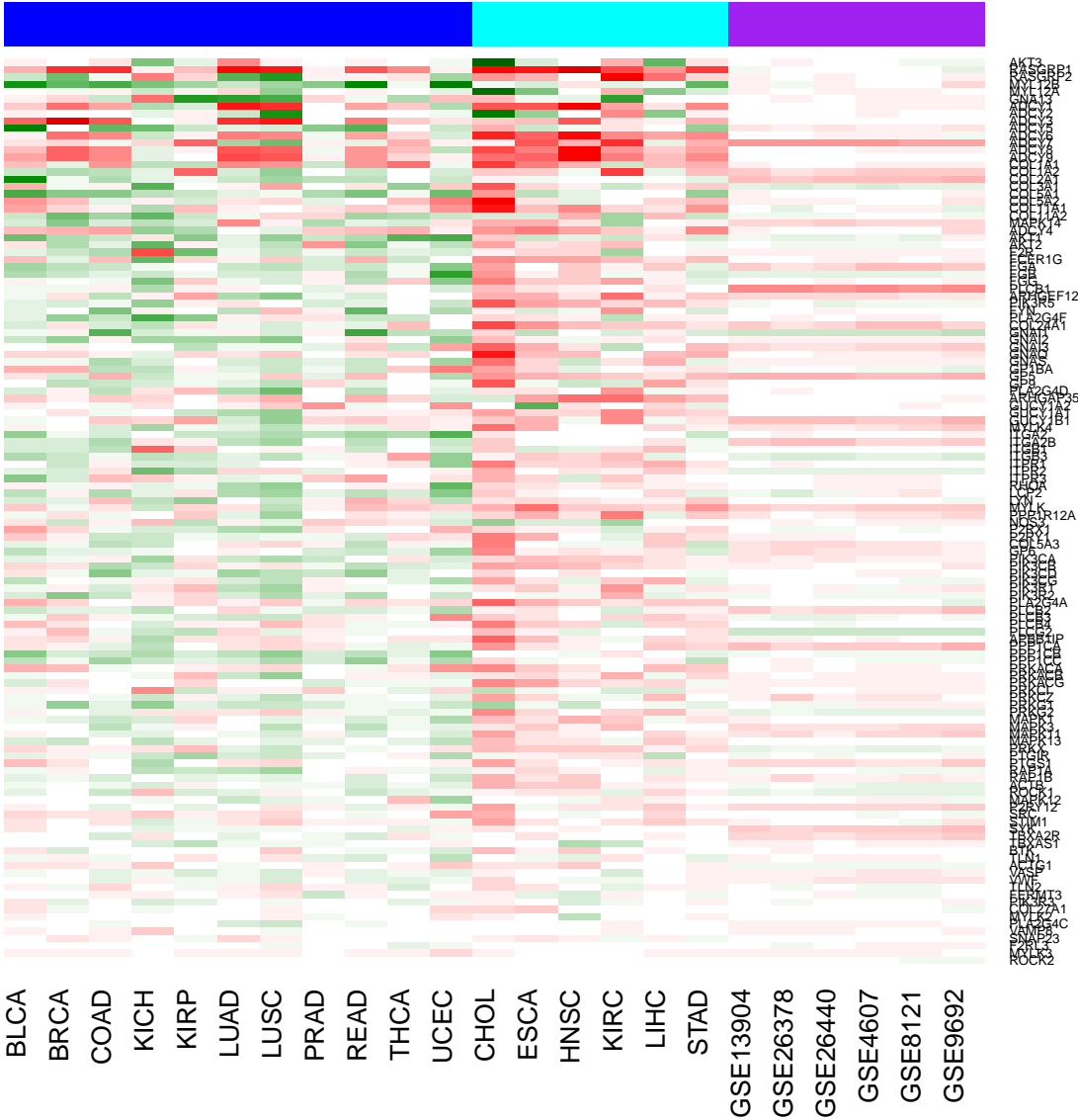


# hsa04520: Adherens junction



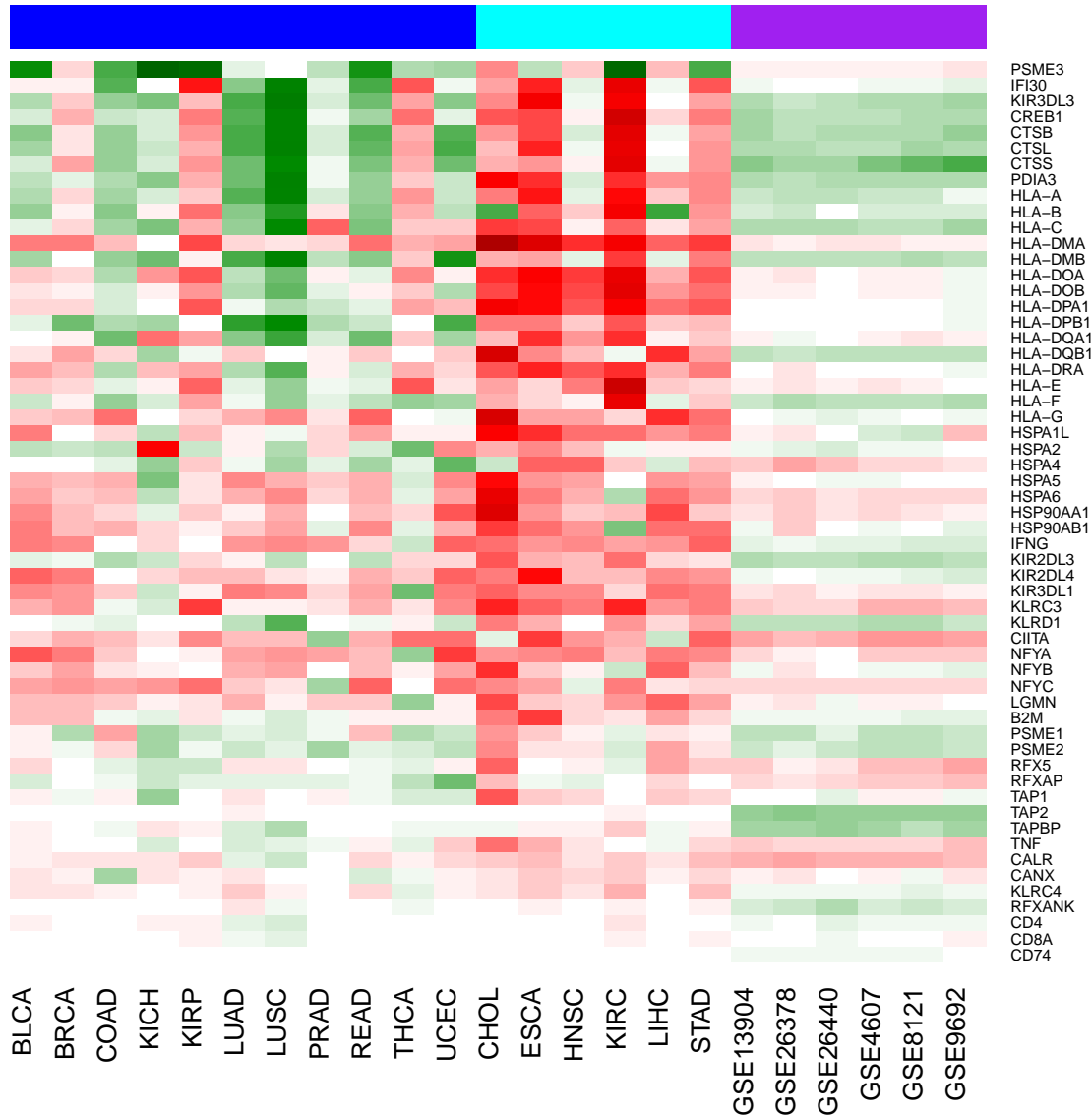


hsa04611: Platelet activation



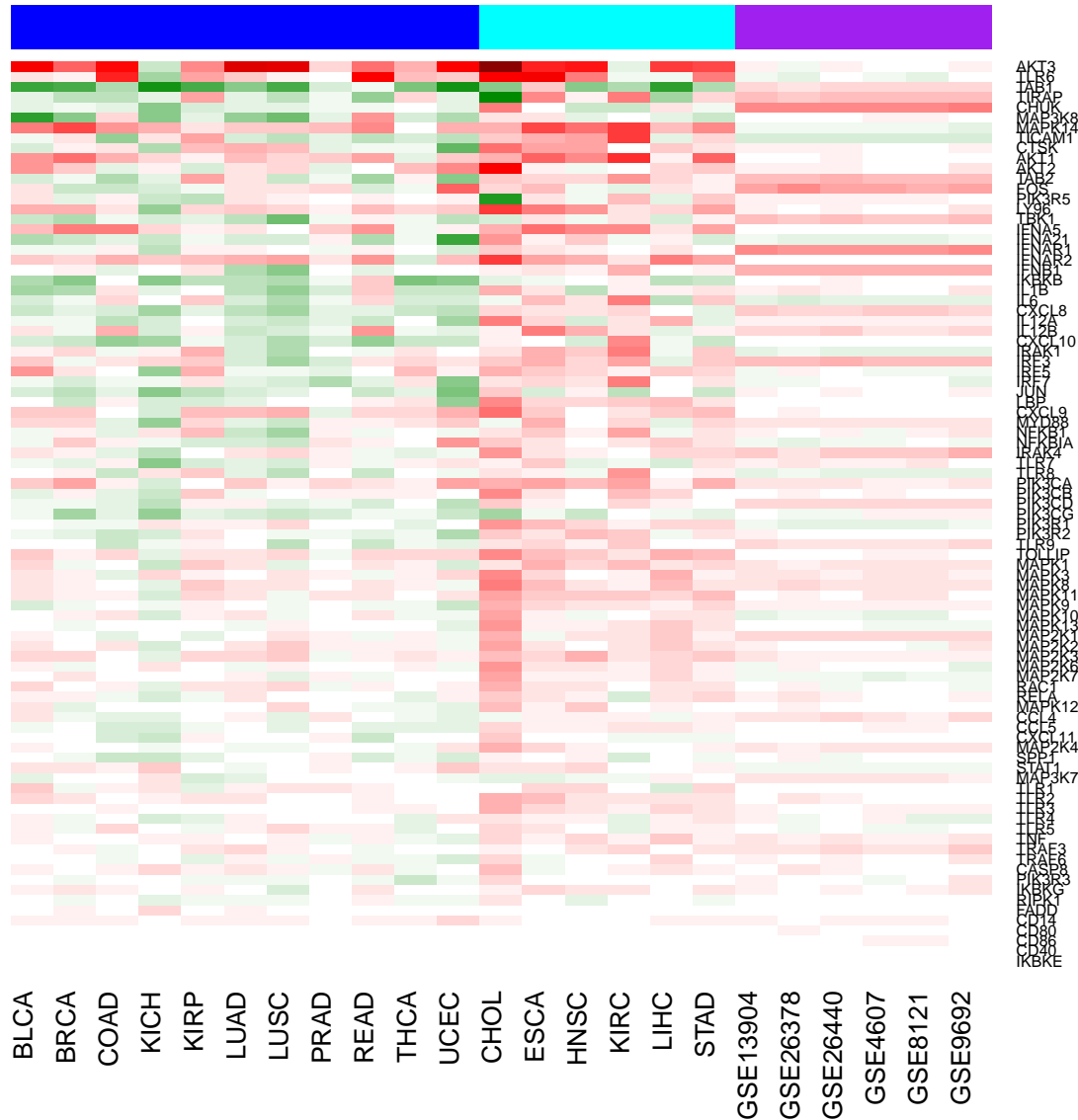


hsa04612: Antigen processing and presentation



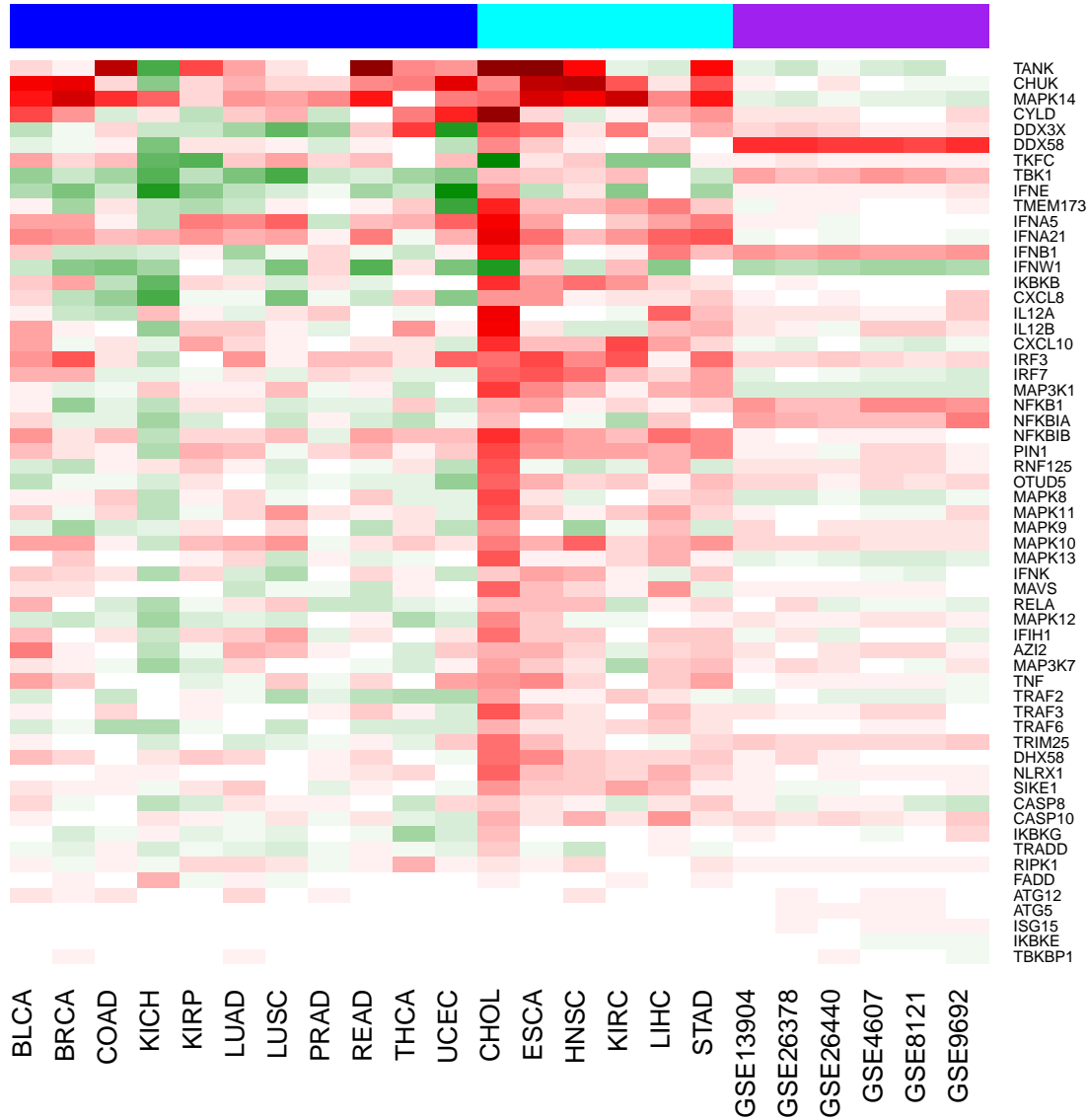


hsa04620: Toll-like receptor signaling pathway



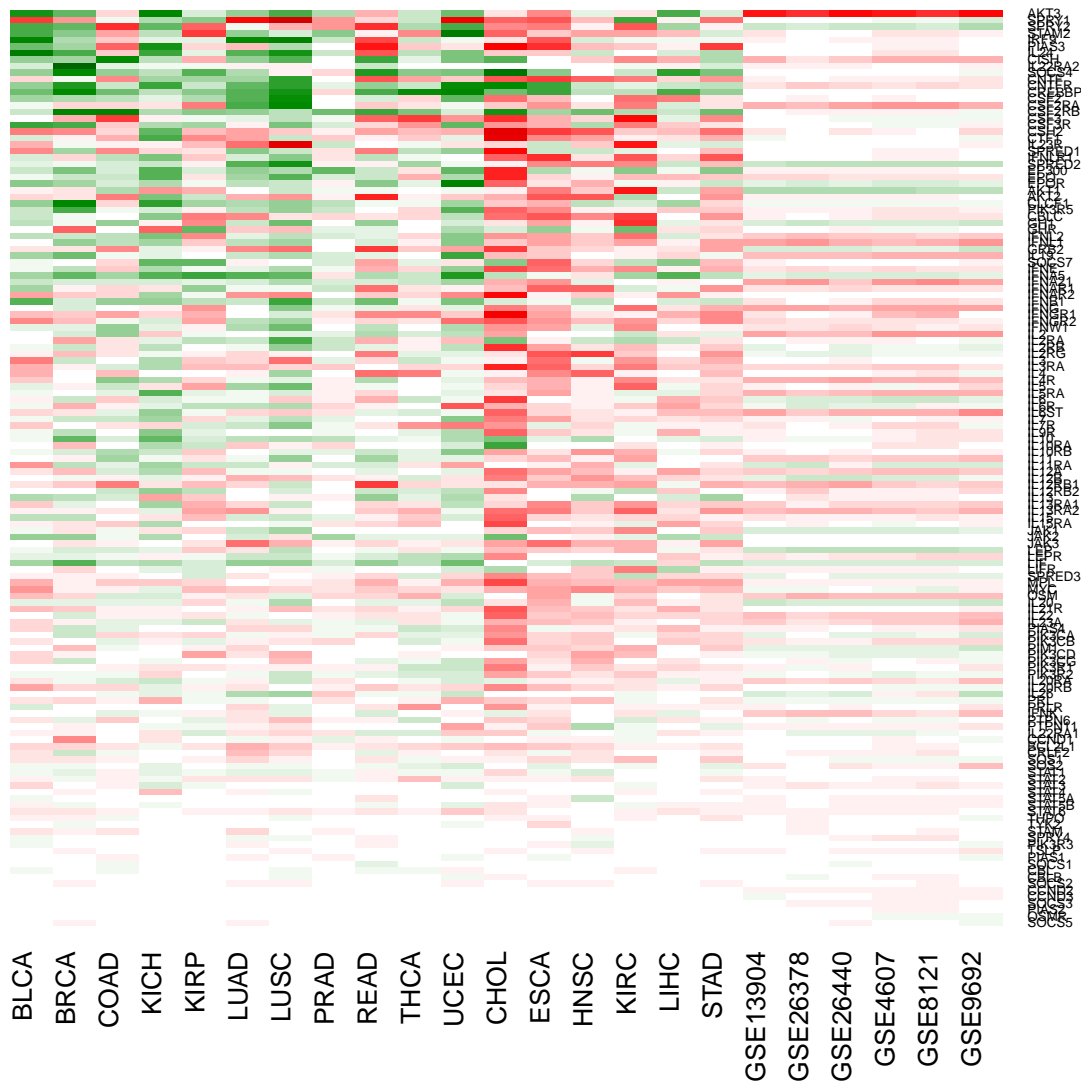


hsa04622: RIG-I-like receptor signaling pathway



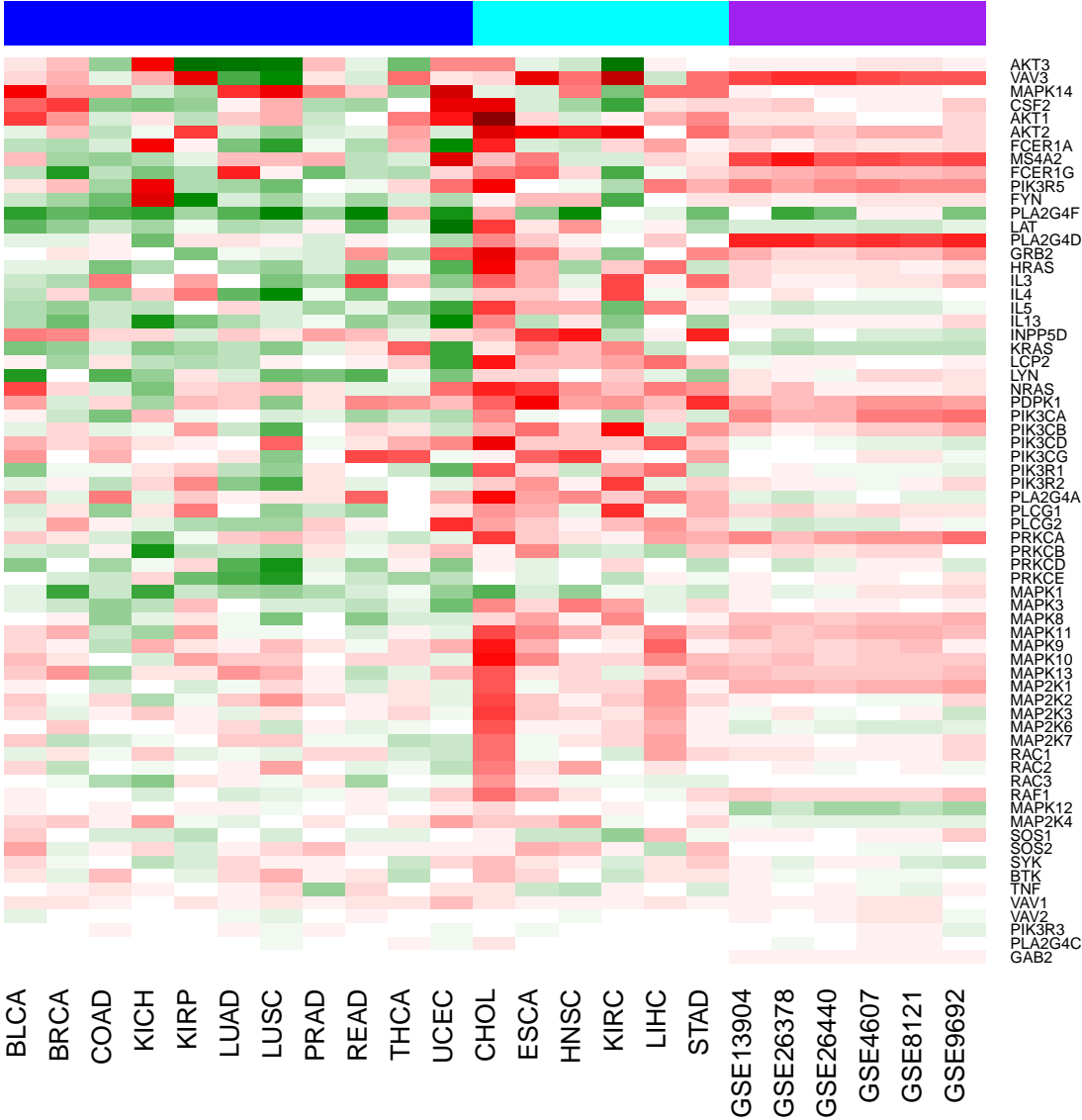


Gender	Percentage
Male	55%
Female	45%



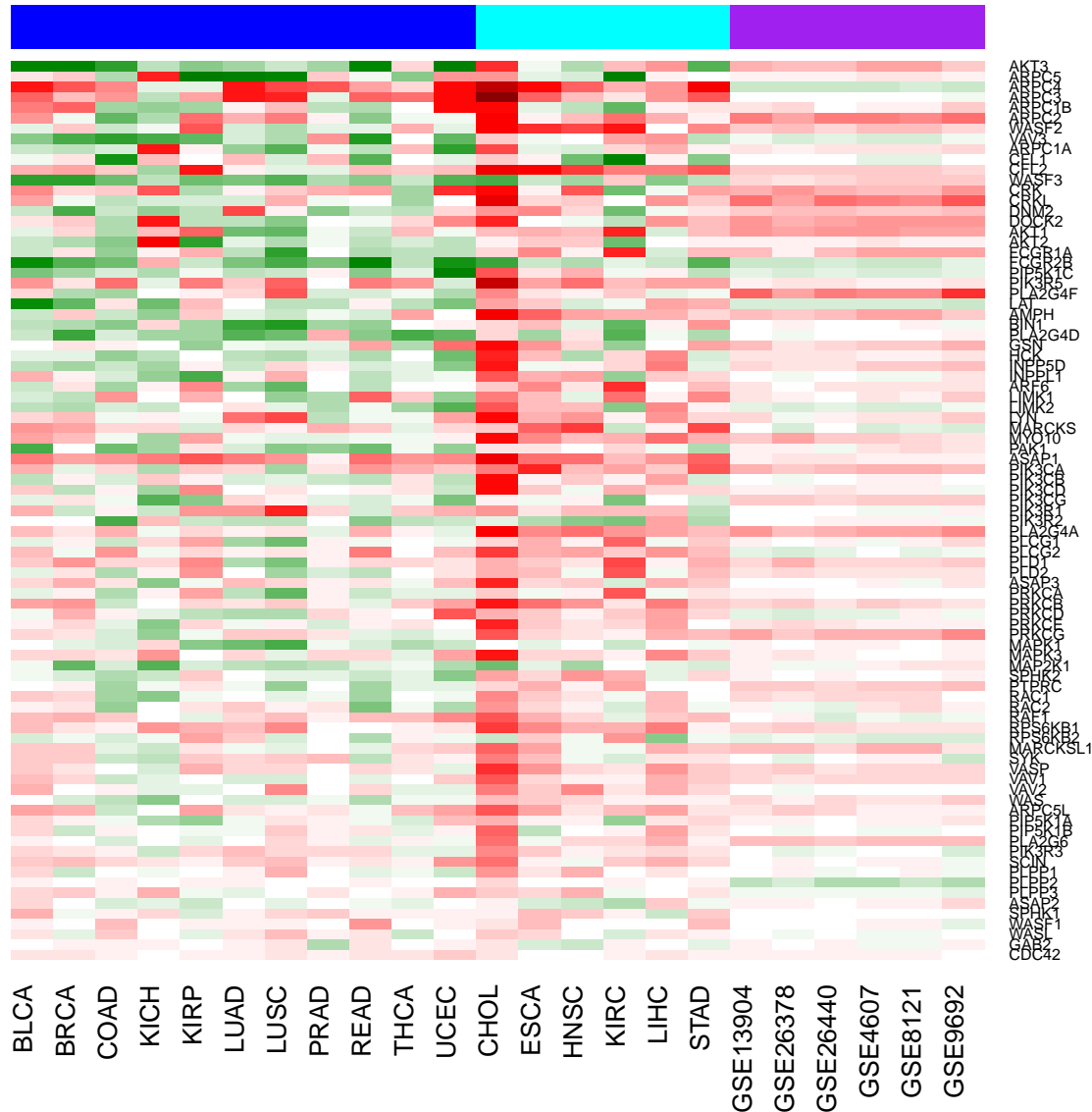


hsa04664: Fc epsilon RI signaling pathway



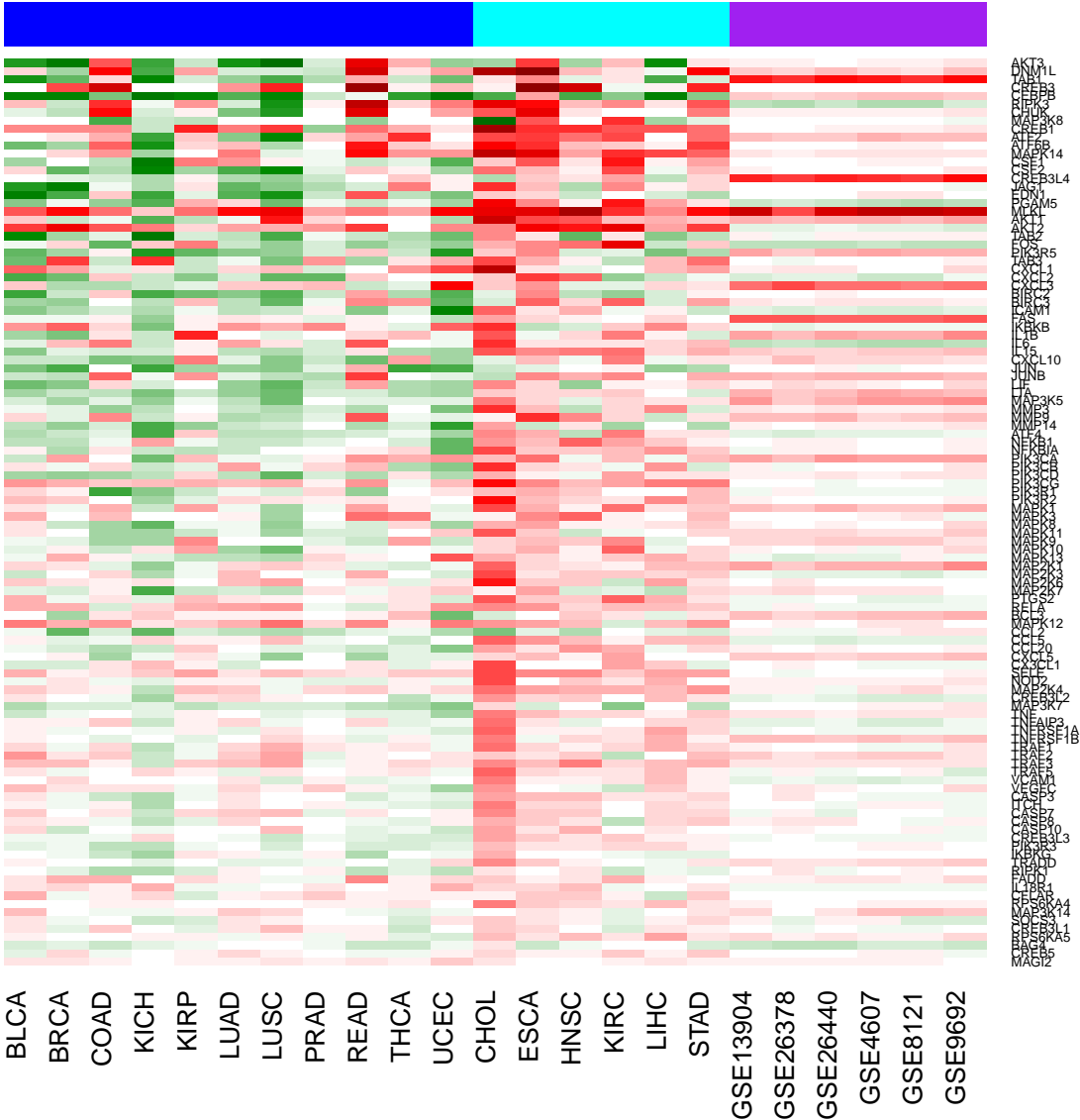


hsa04666: Fc gamma R-mediated phagocytosis



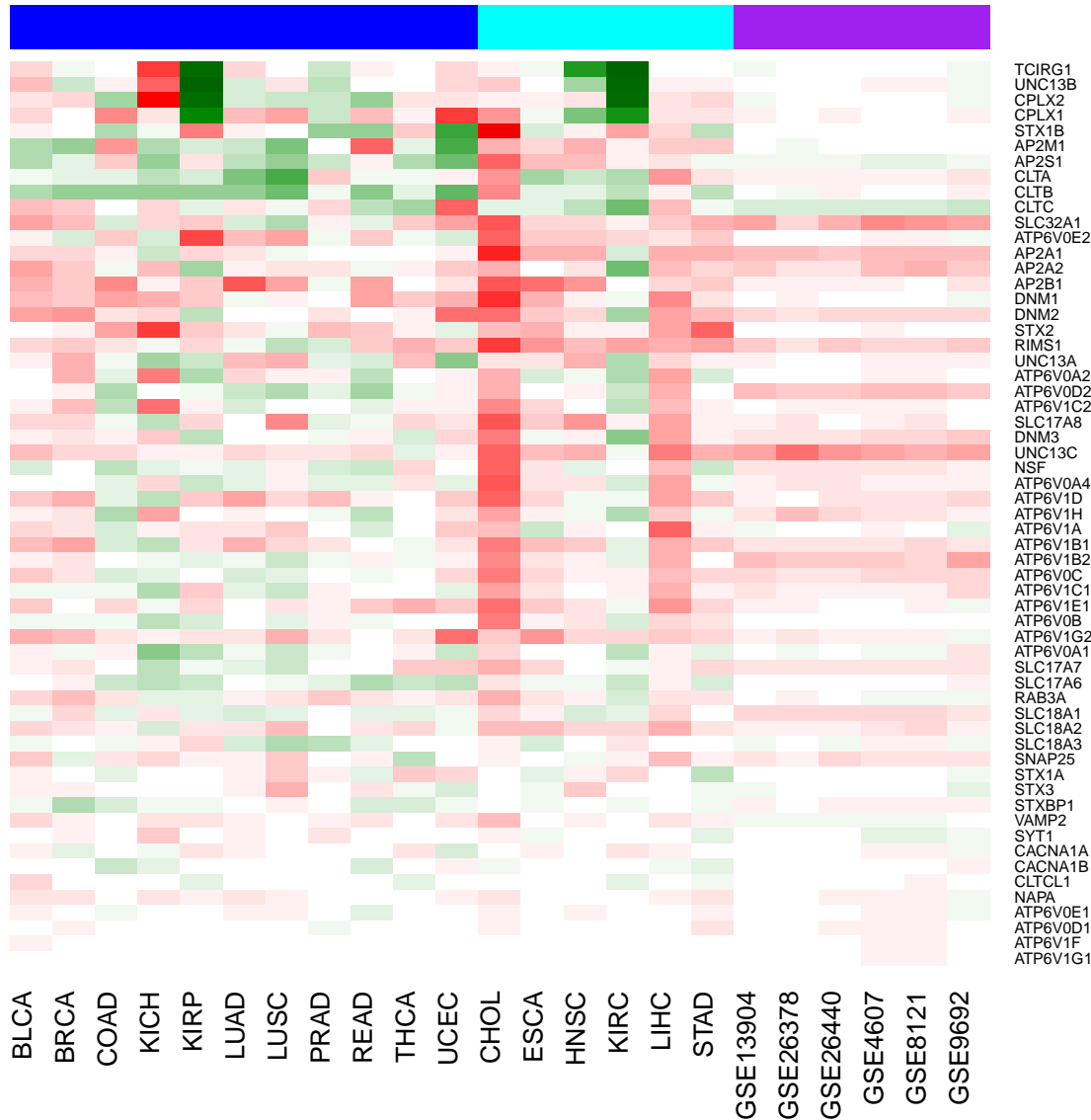


hsa04668: TNF signaling pathway



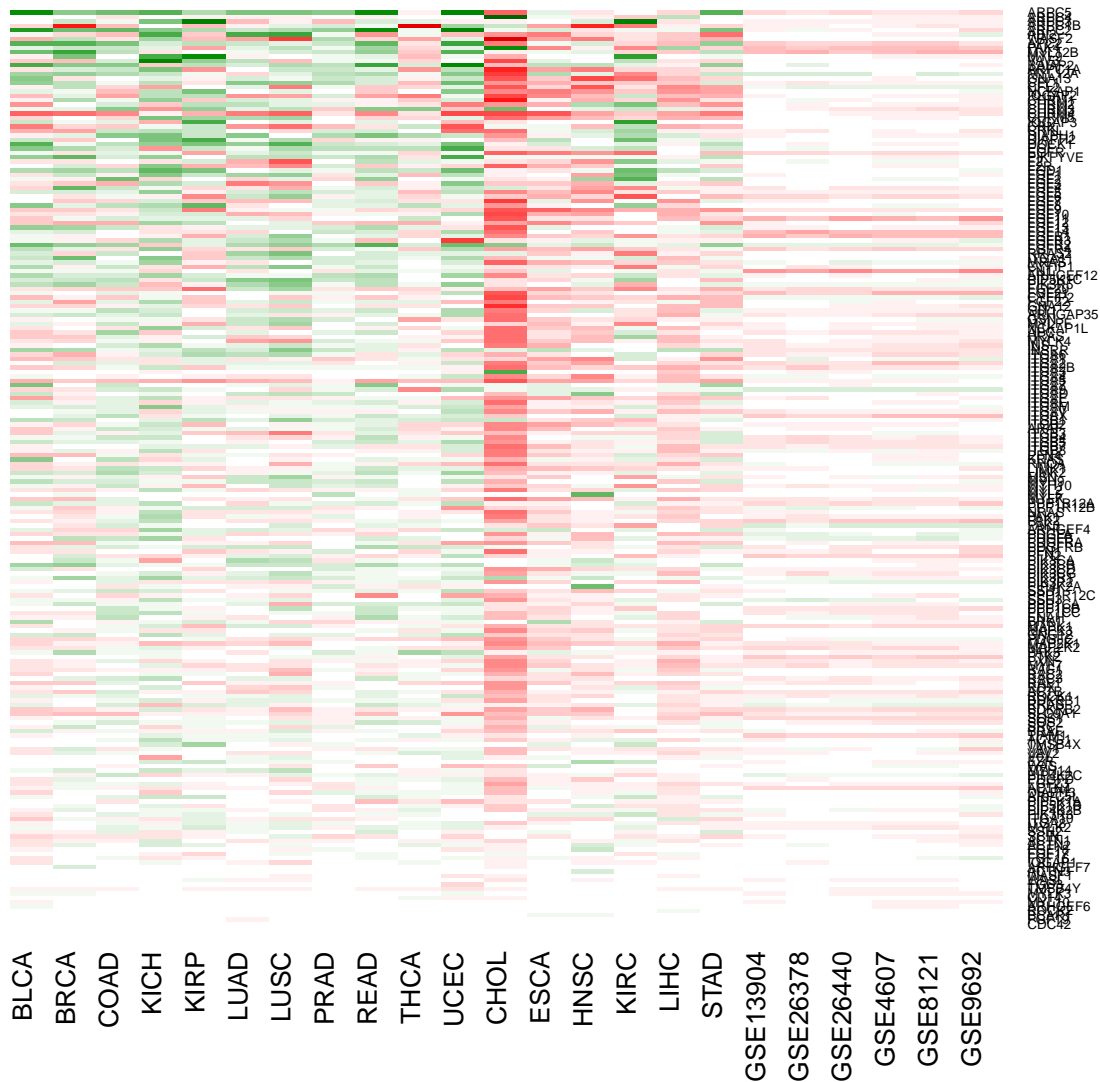


hsa04721: Synaptic vesicle cycle



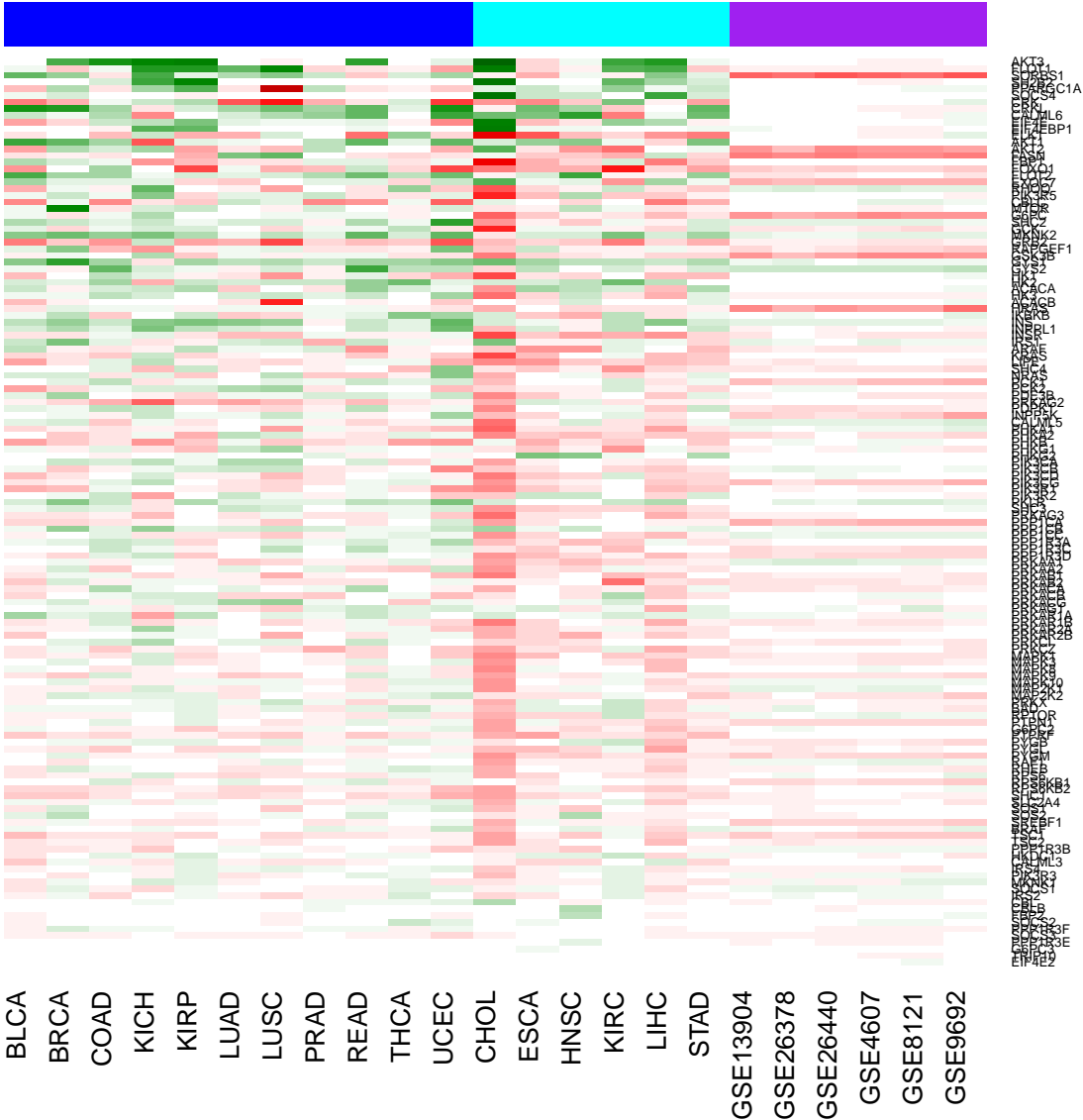


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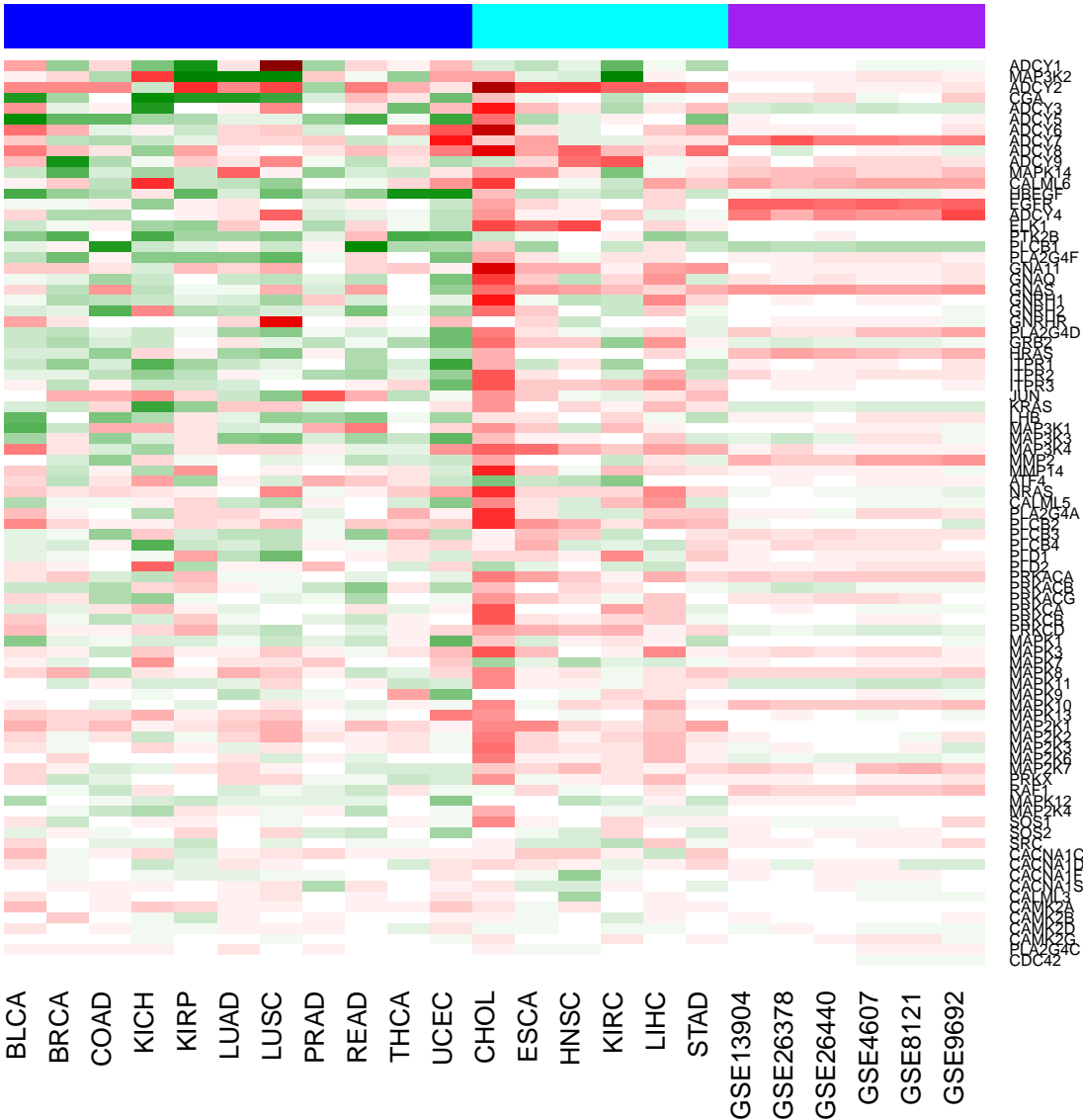


hsa04910: Insulin signaling pathway



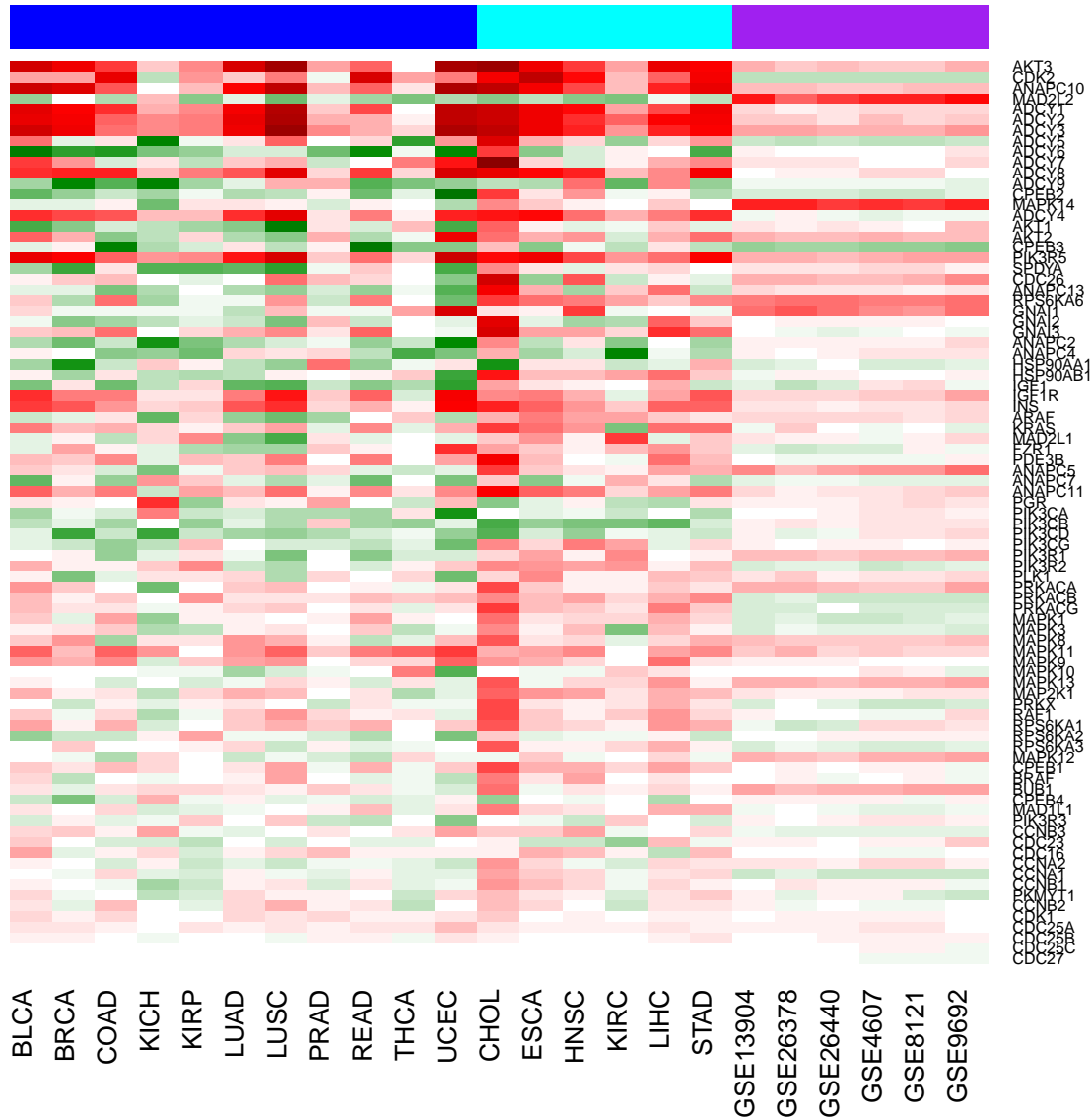


## hsa04912: GnRH signaling pathway



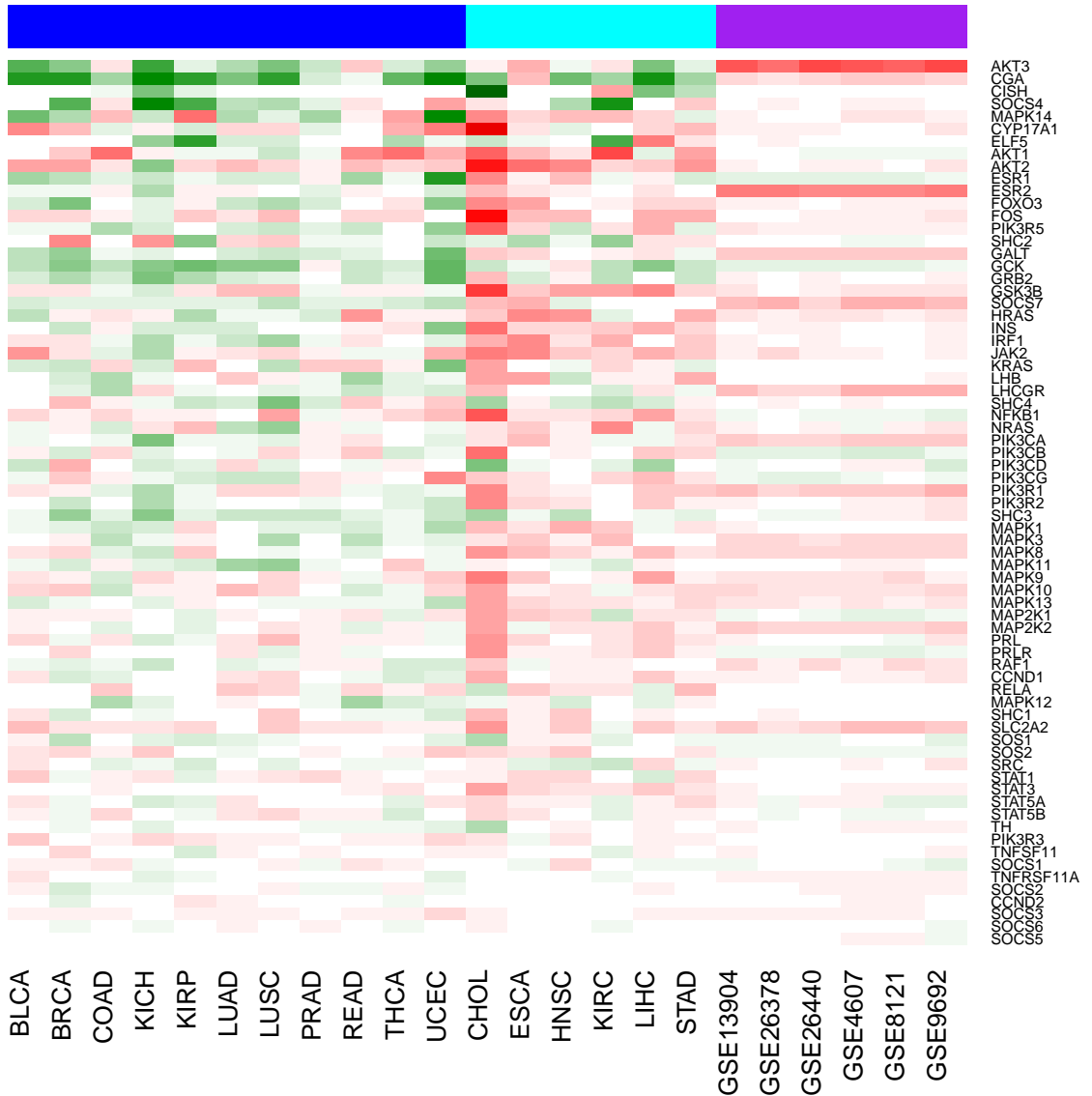


hsa04914: Progesterone-mediated oocyte maturation



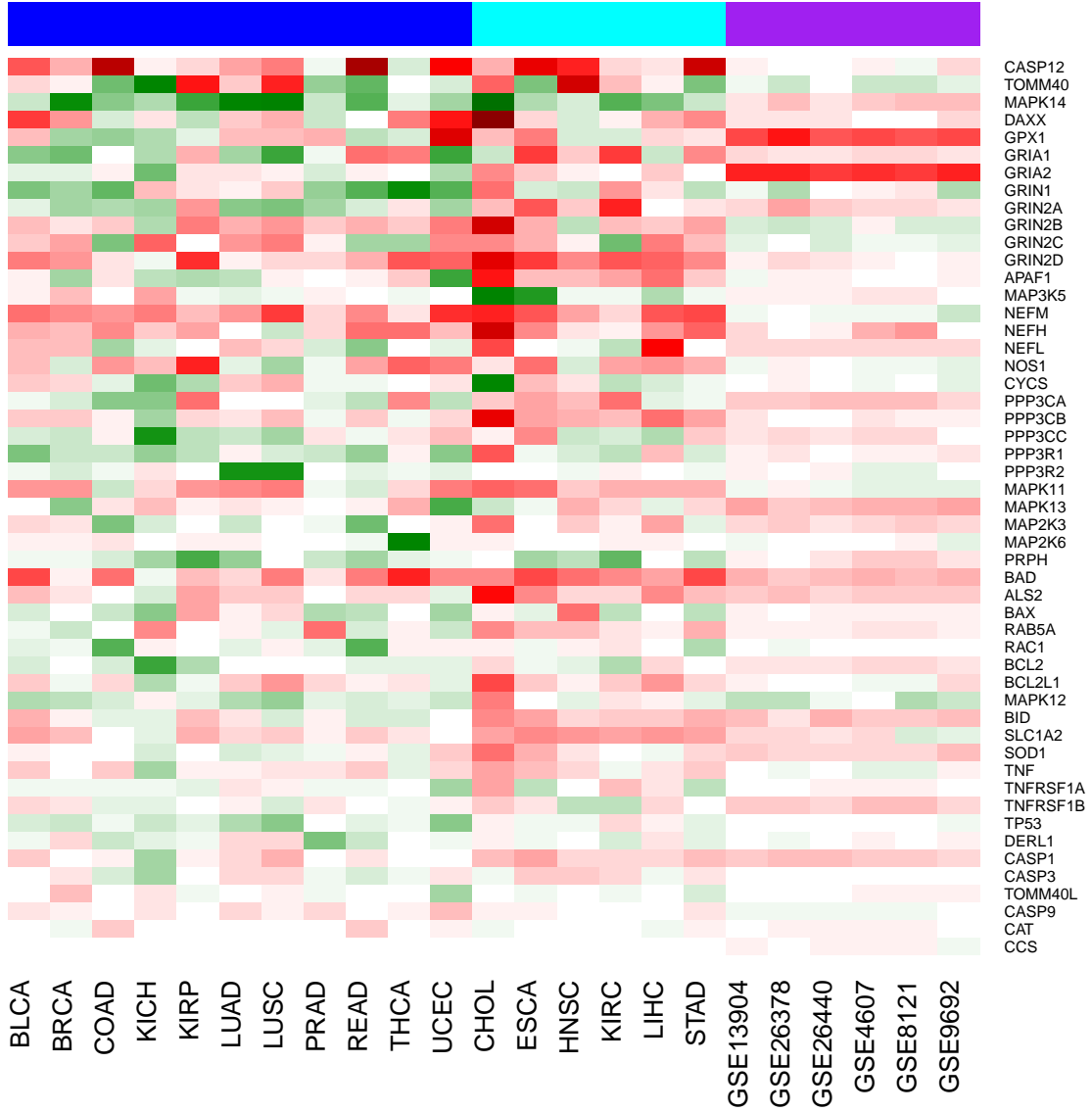


# hsa04917: Prolactin signaling pathway



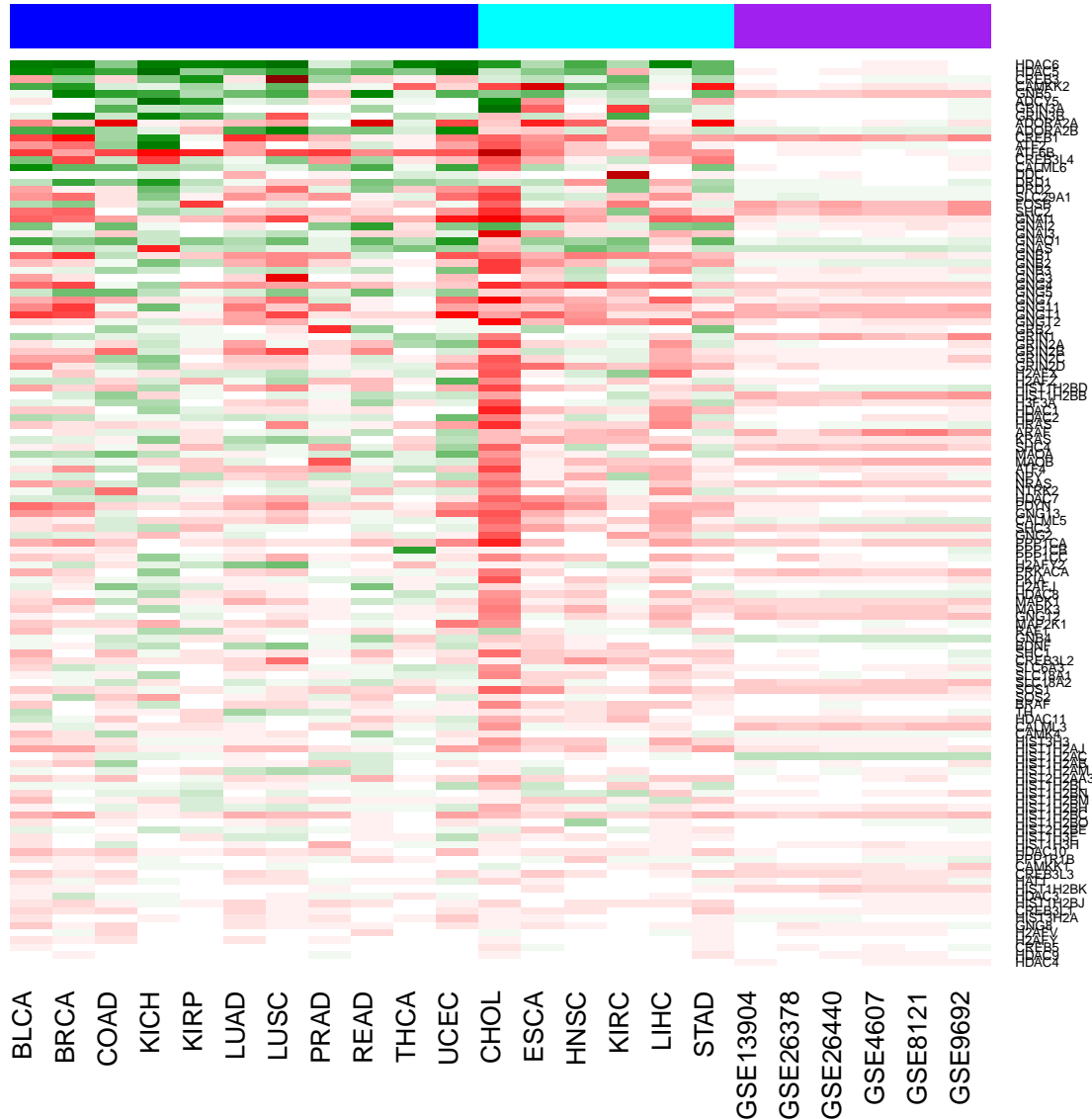


hsa05014: Amyotrophic lateral sclerosis (ALS)



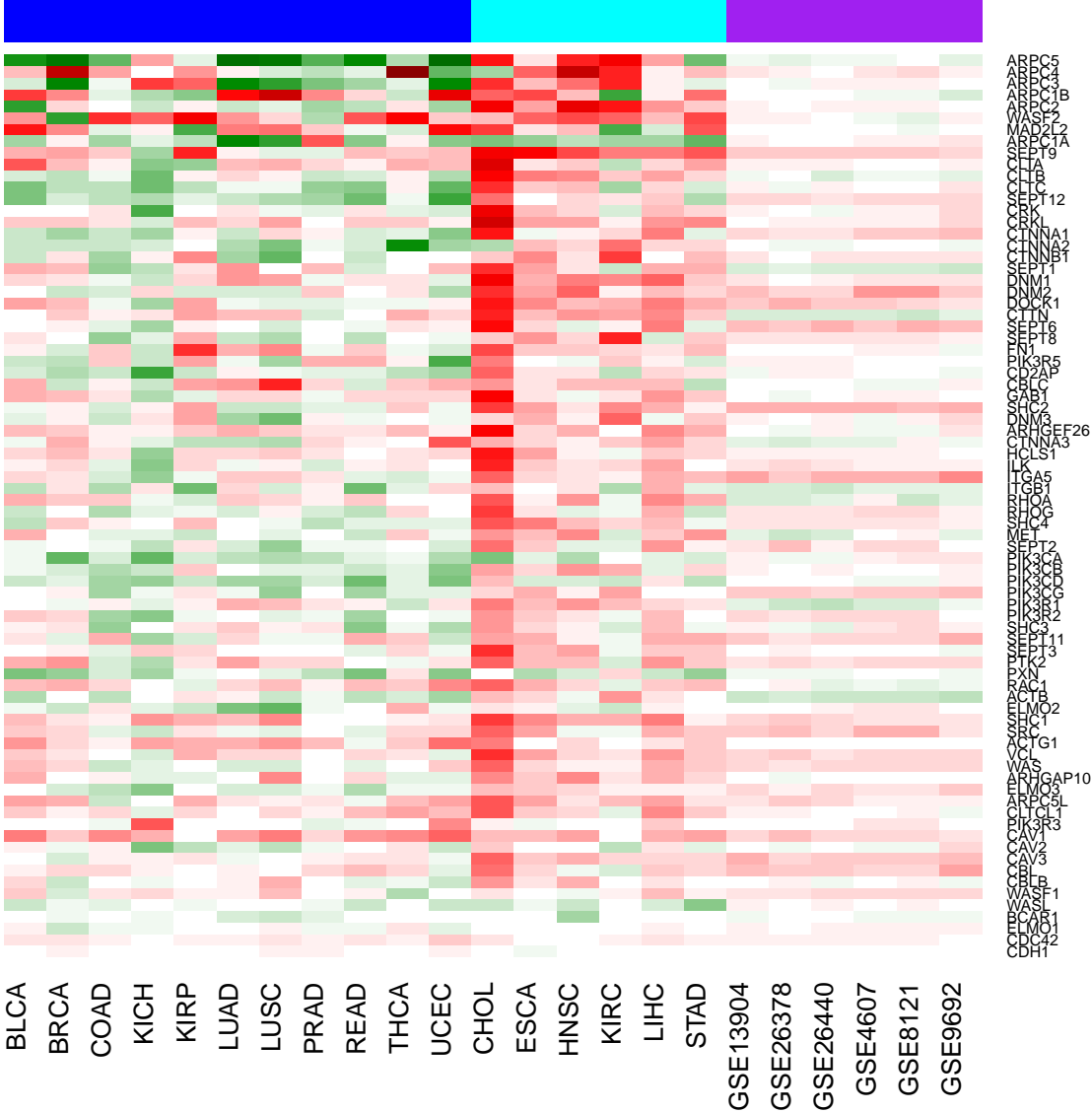


hsa05034: Alcoholism



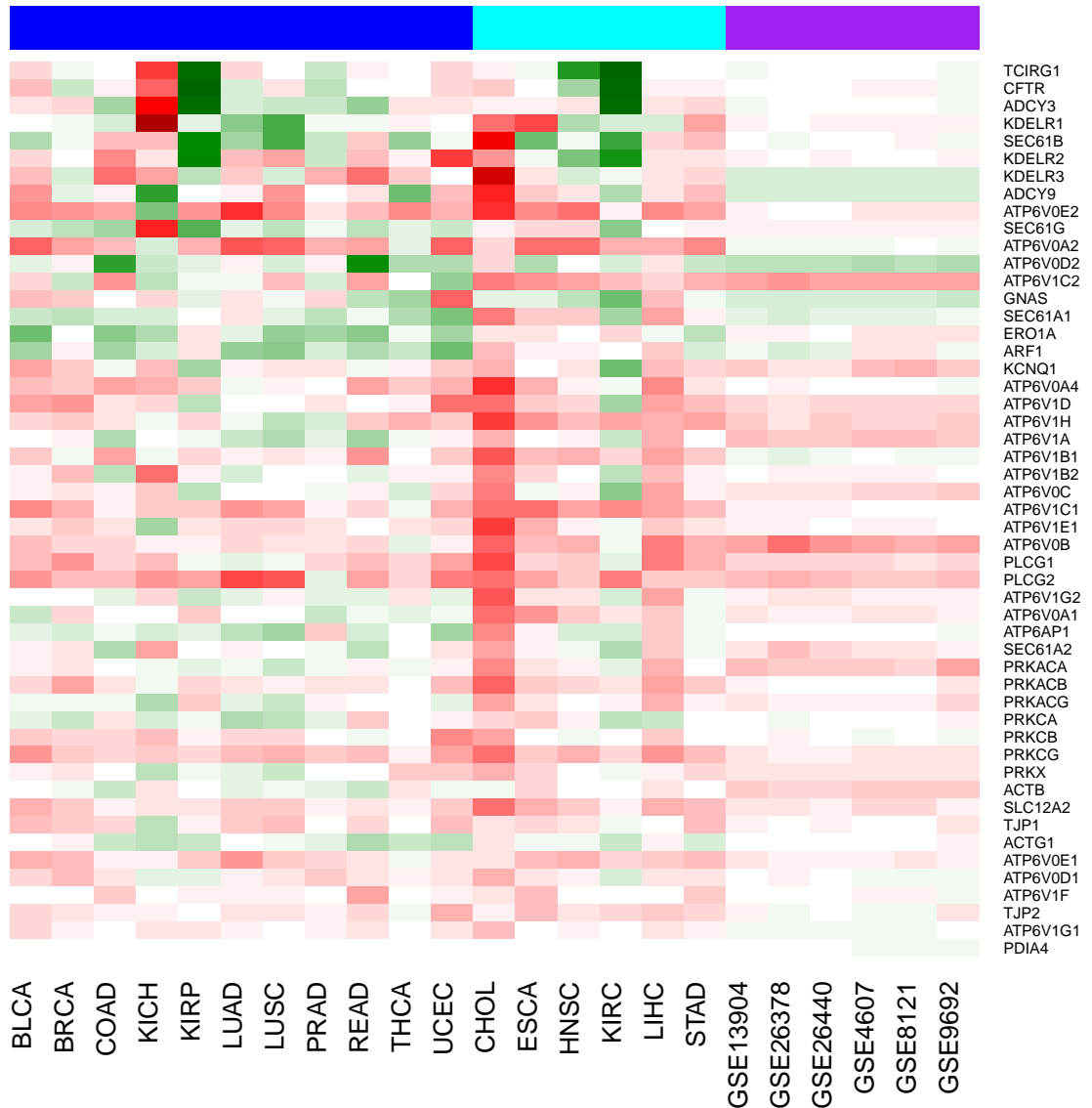


hsa05100: Bacterial invasion of epithelial cells



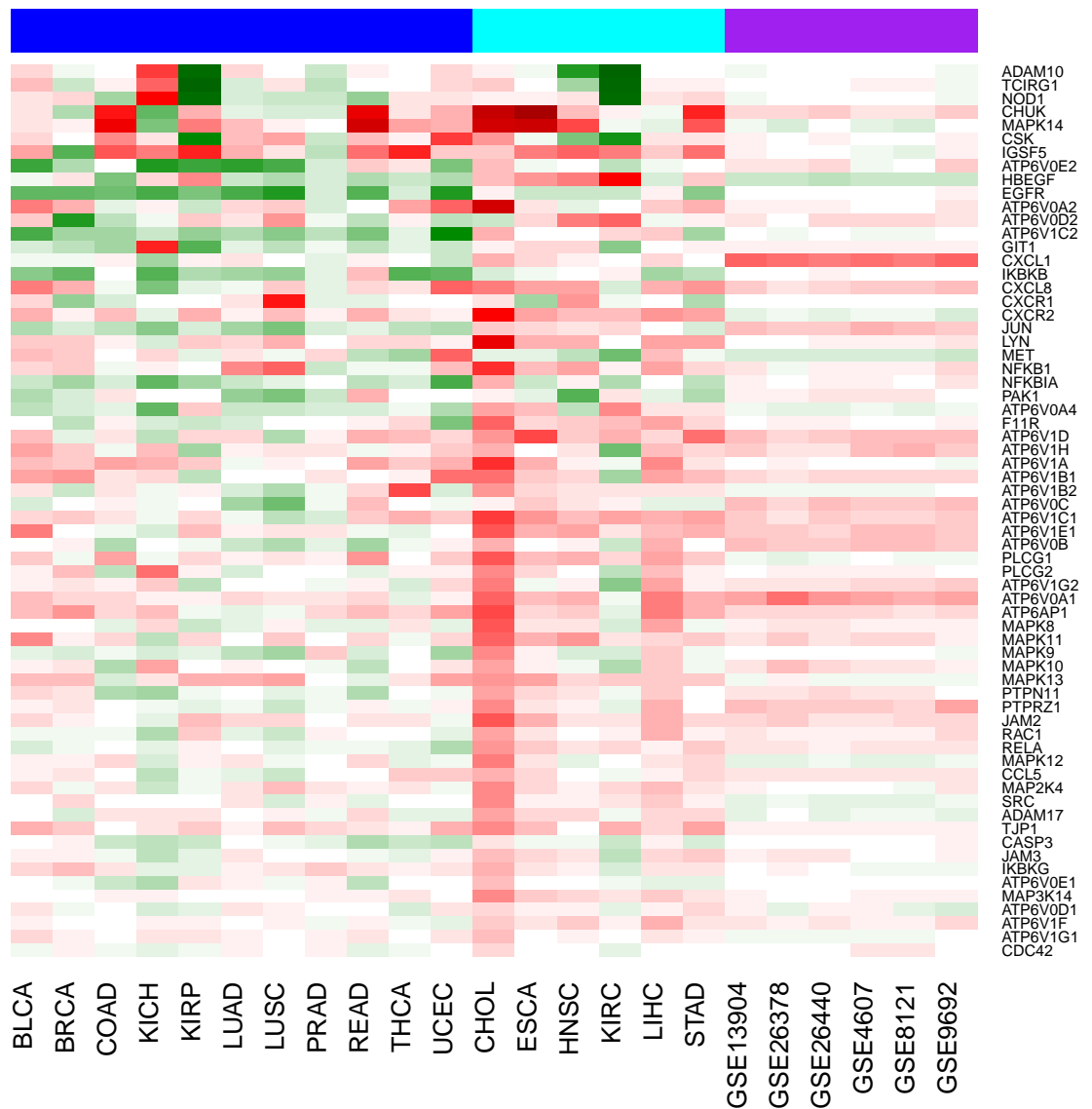


# hsa05110: Vibrio cholerae infection



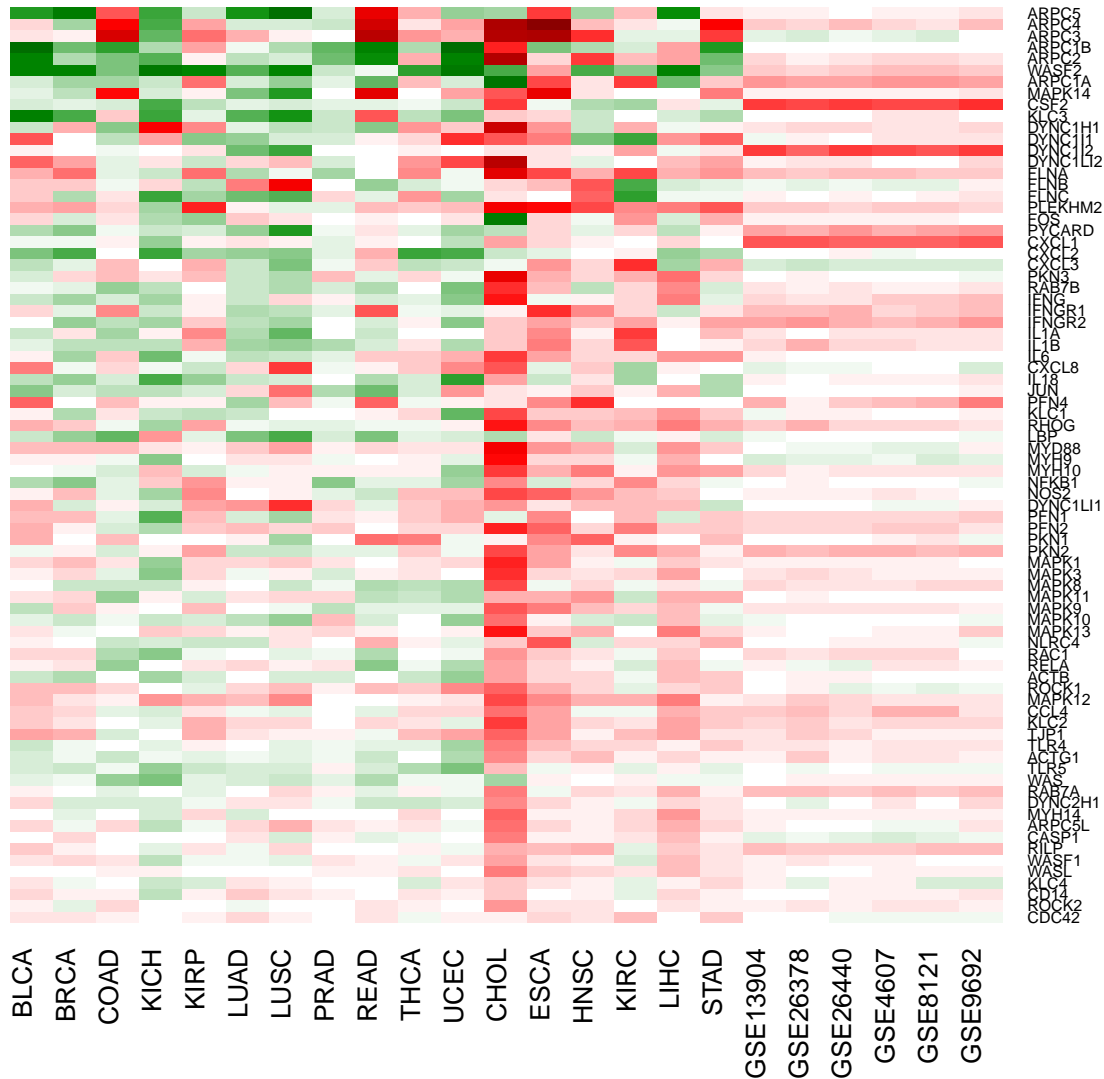


# 5120: Epithelial cell signaling in Helicobacter pylori infection



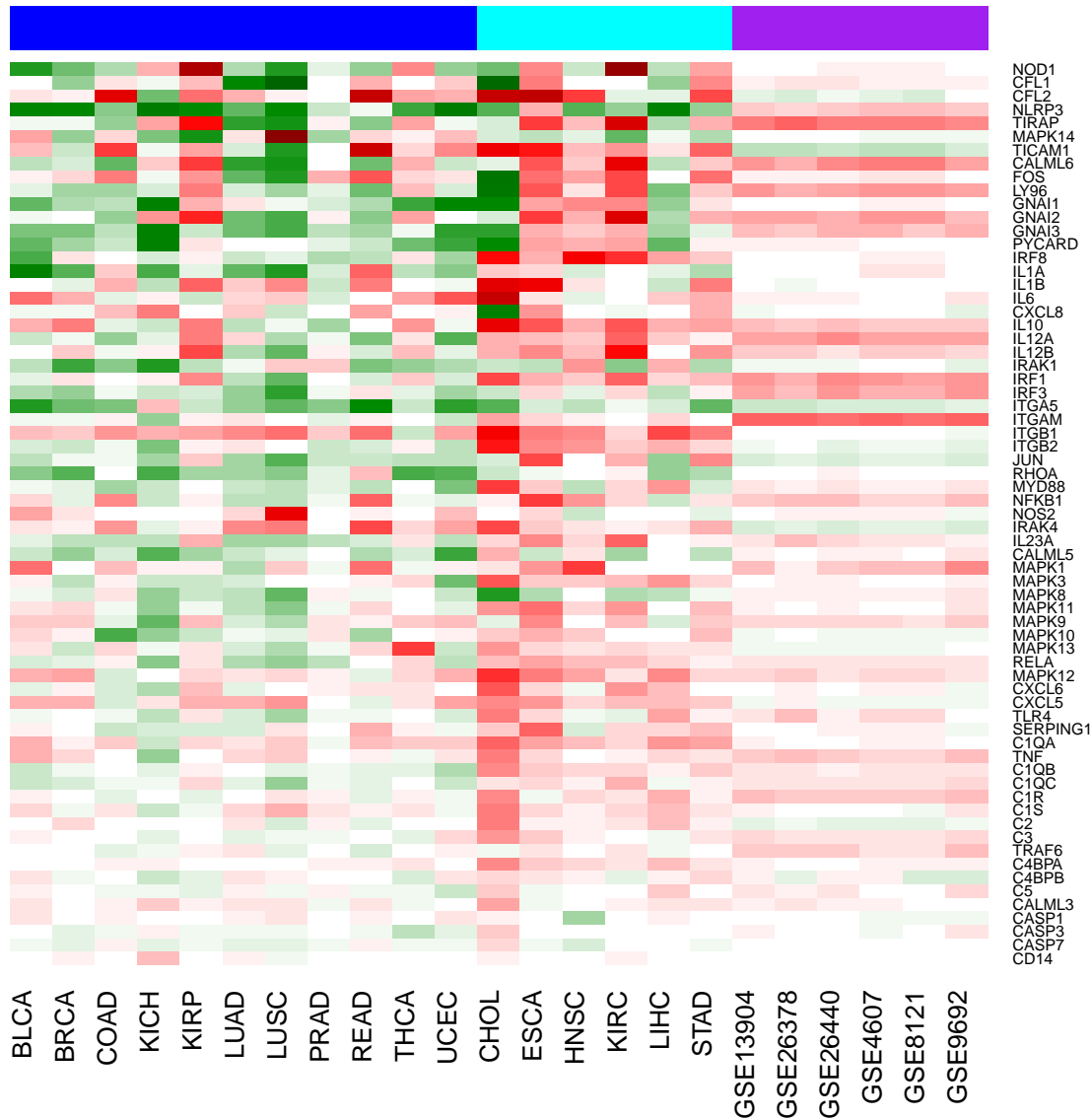


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# hsa05133: Pertussis

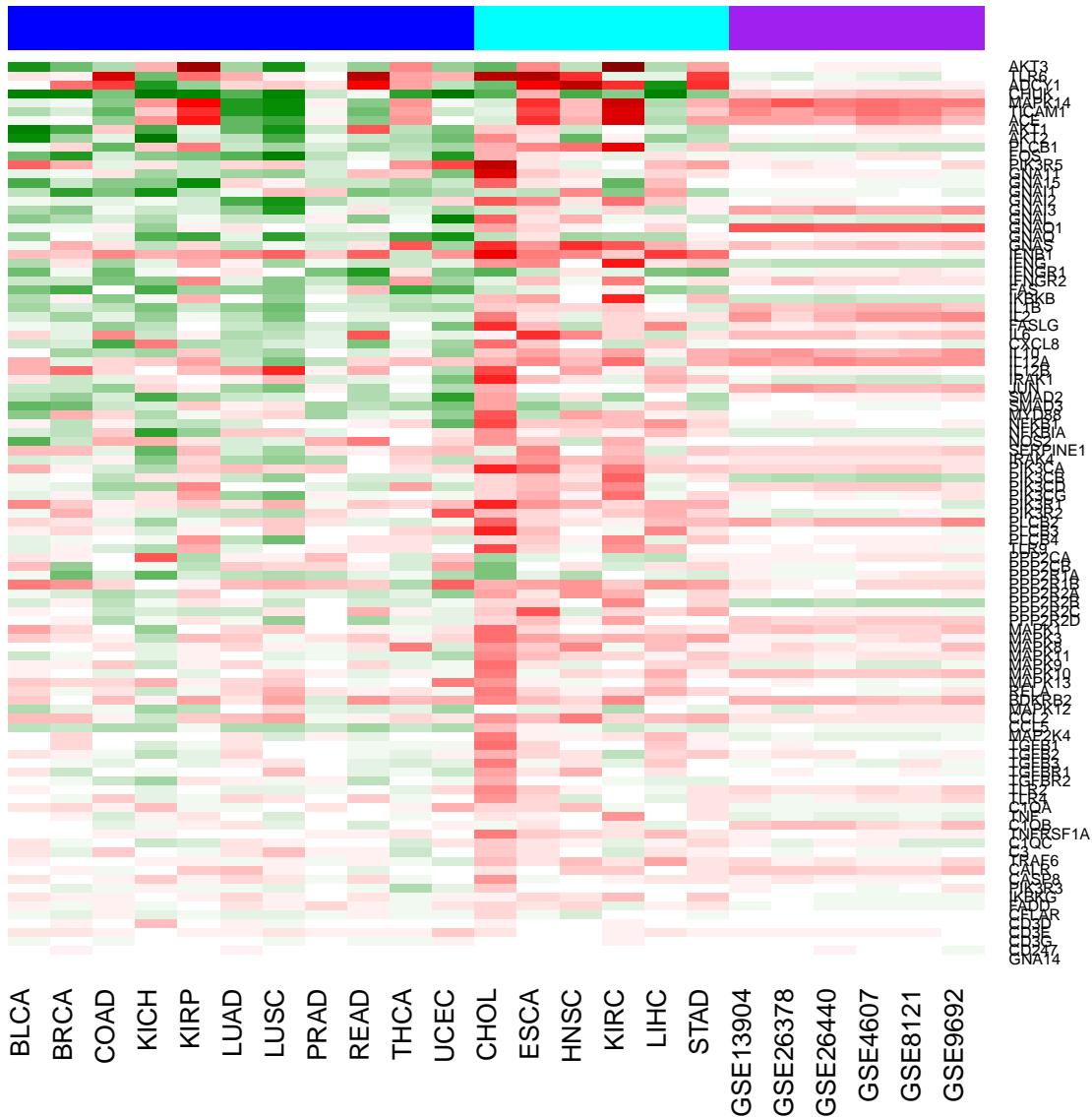




Heatmap visualization showing gene expression profiles across various cancer types and cell lines. The color scale ranges from blue (low expression) to red (high expression). The heatmap is divided into three main clusters by a vertical color bar at the top: blue, red, and green. The genes listed on the right include HBS1L, CLK1, CR1, EEF1A1, EEF1A2, BCL2L13, PYCARD, CXCL1, CXCL2, CXCL3, APAF1, HSF1, HSPA1L, HSPA2, HSPA6, HSPD1, IL1B, IL6, CXCL8, IL12A, IL12B, IL18, ITGAM, ITGB2, ARF1, MYD88, NAIIP, NFKB1, NFKB2, NFKBIA, SAR1B, CYCS, SAR1A, NLRC4, RAB1A, RELA, BNIP3, TLR2, TLR4, TLR5, TNF, C3, VCP, RAB1B, CASP1, CASP3, CASP7, CASP8, CASP9, CD14, and SEC22B.

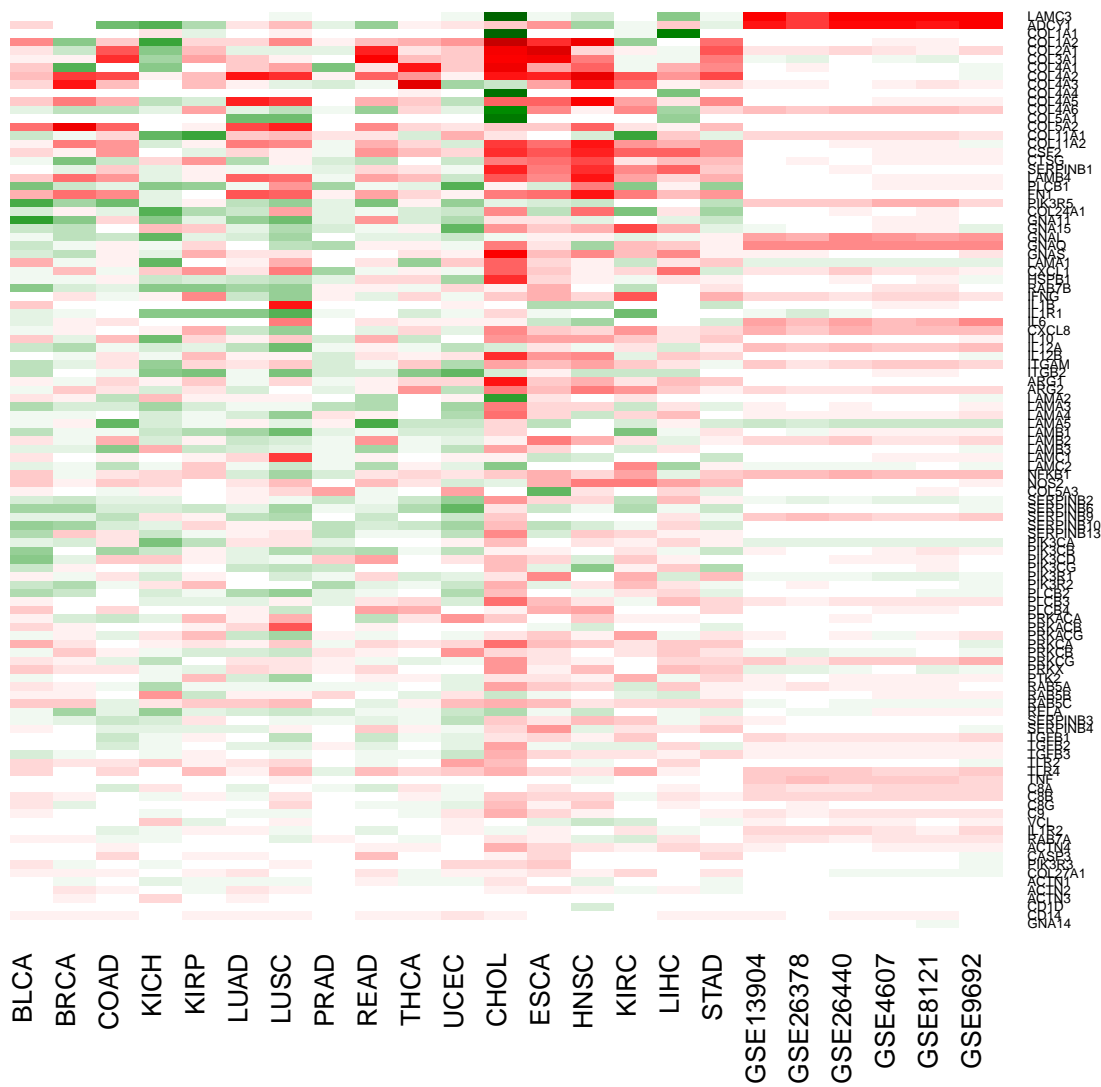


## hsa05142: Chagas disease (American trypanosomiasis)



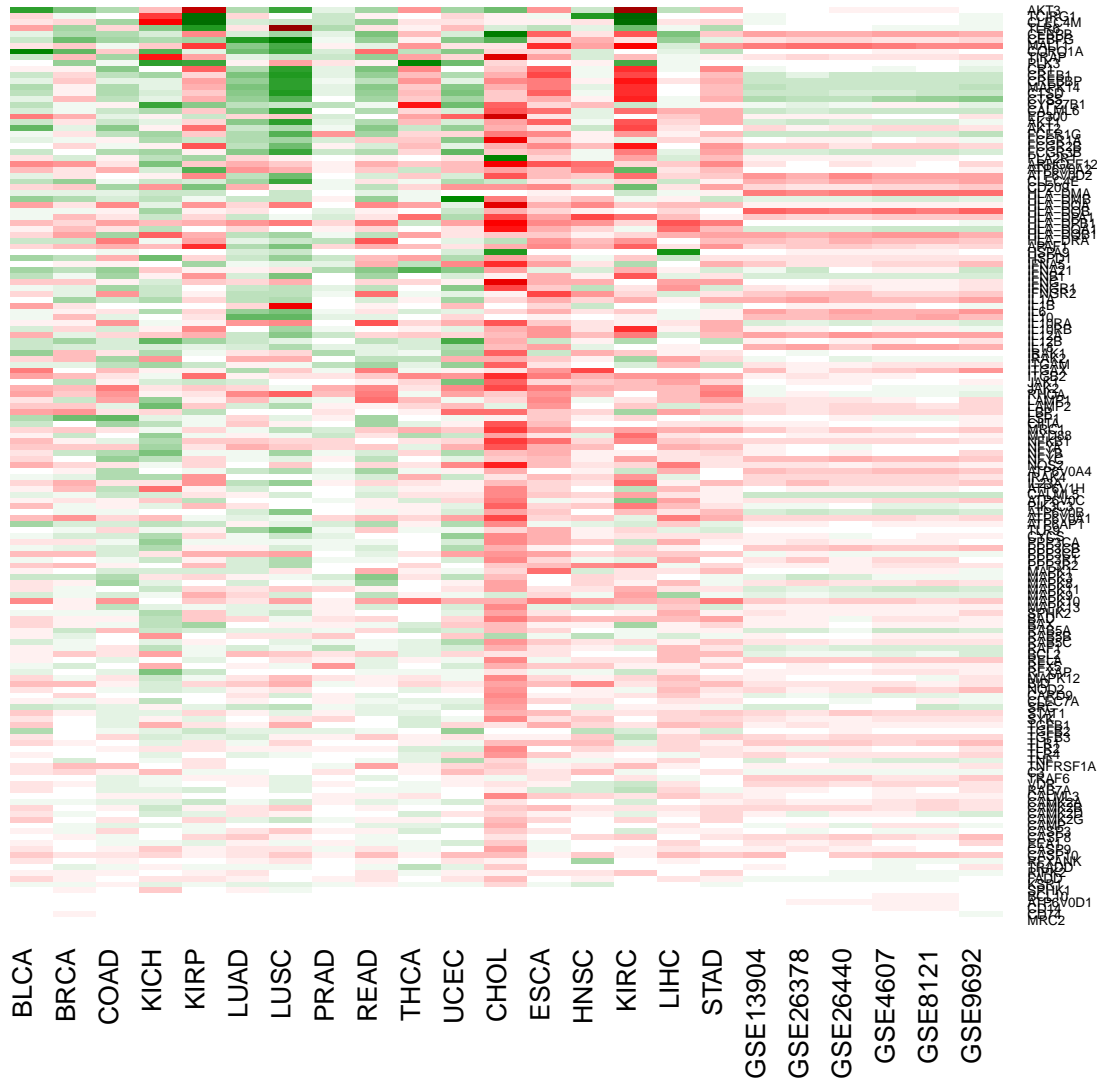


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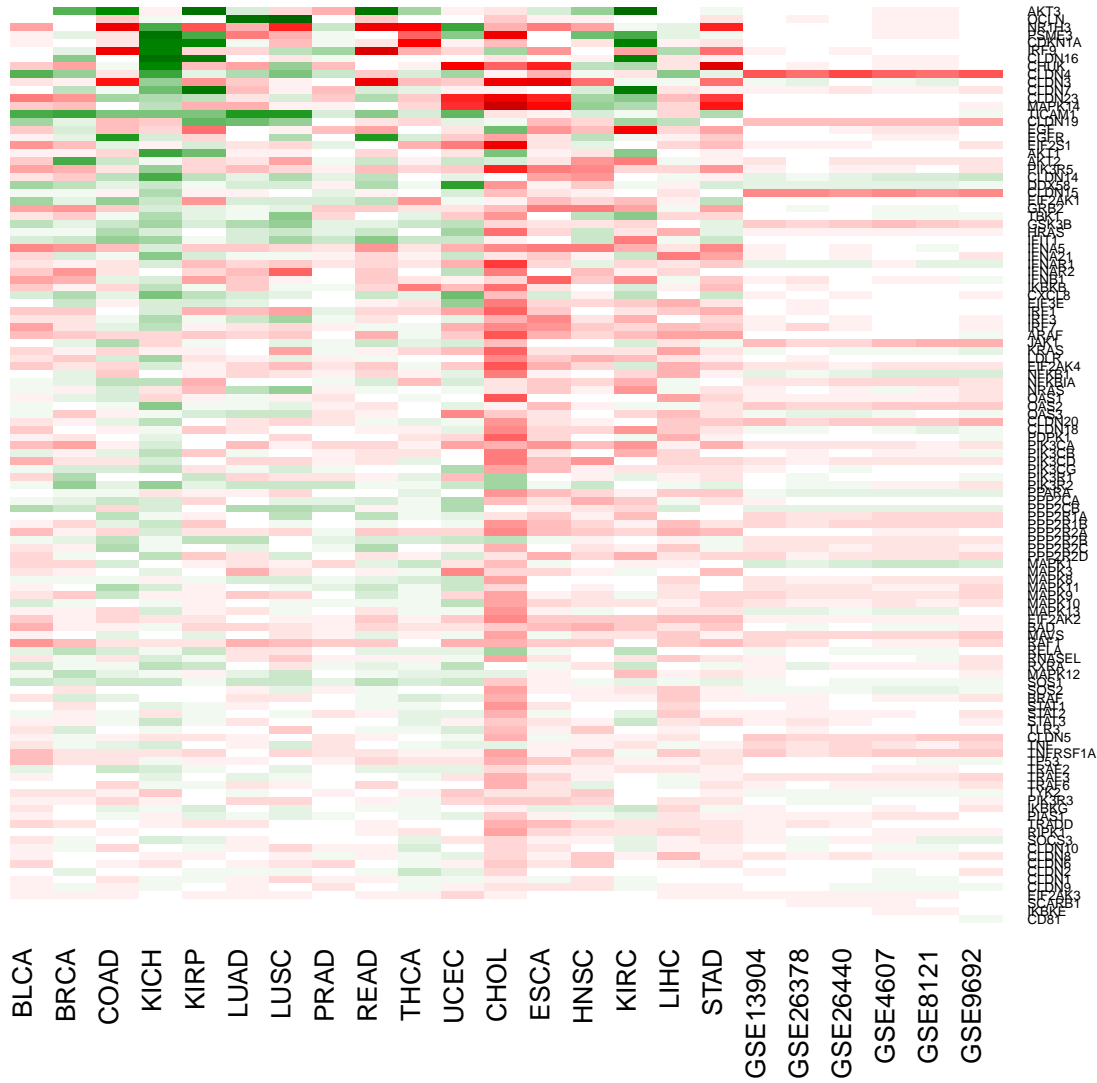


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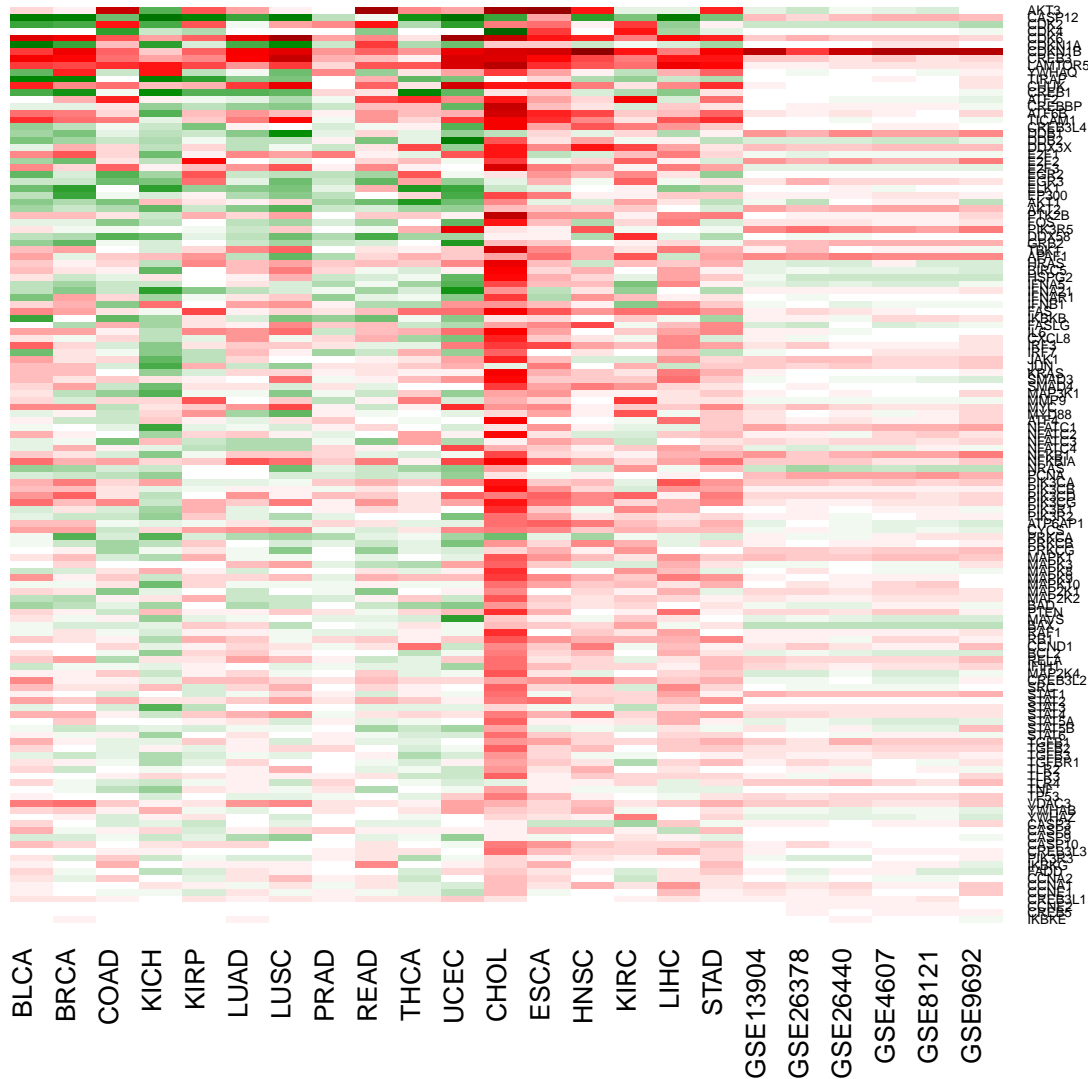


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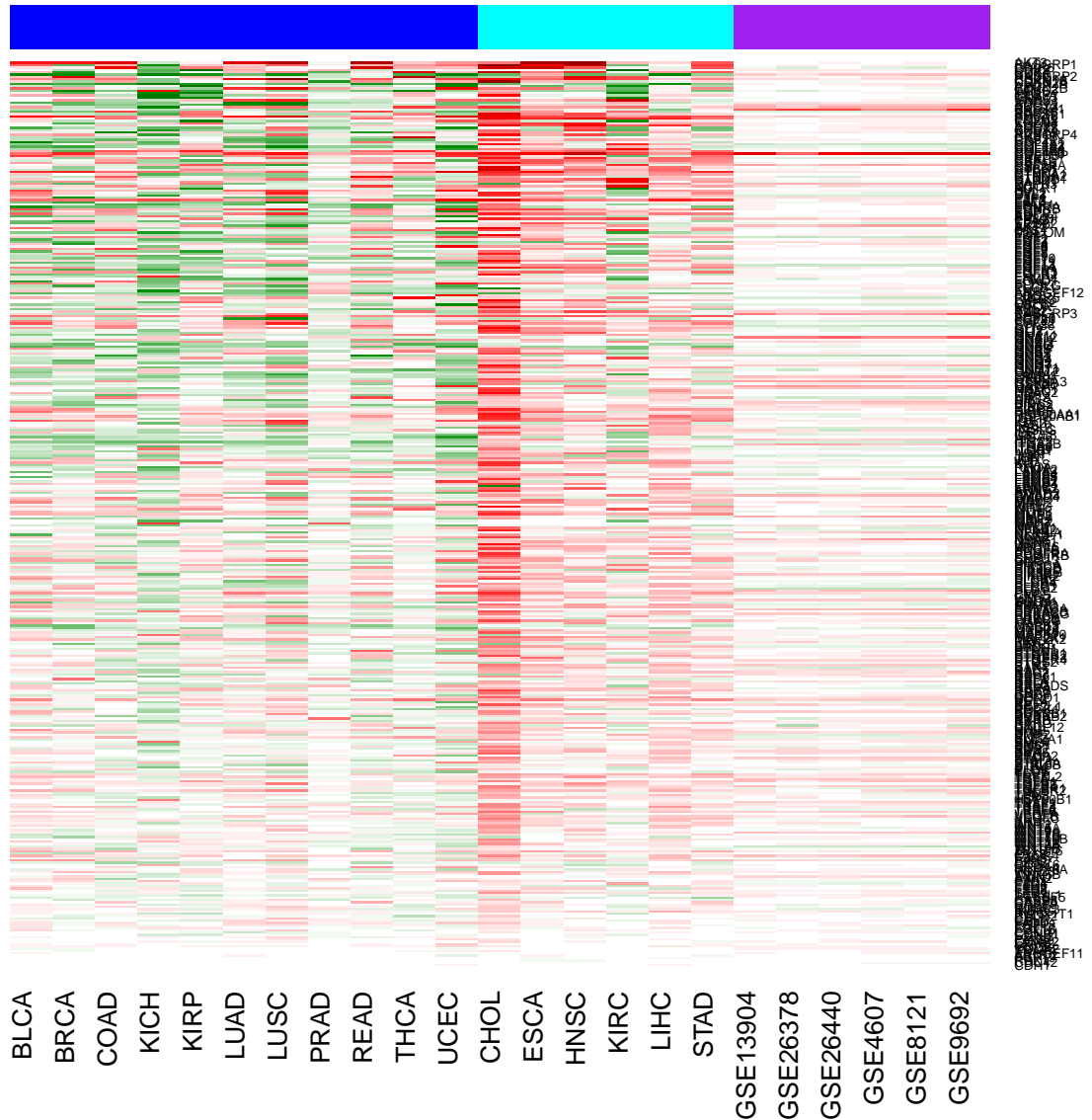


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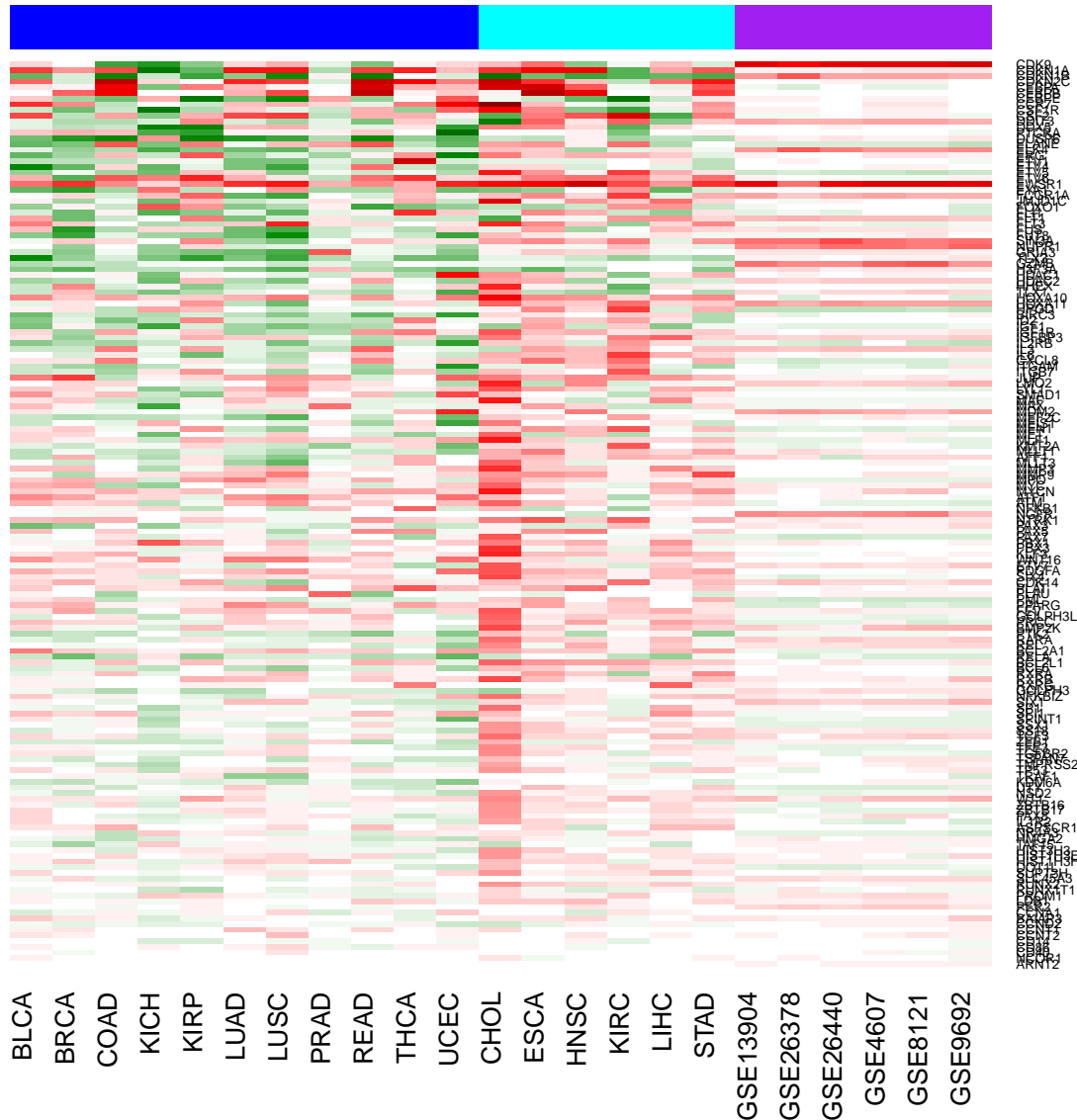


# hsa05200: Pathways in cancer



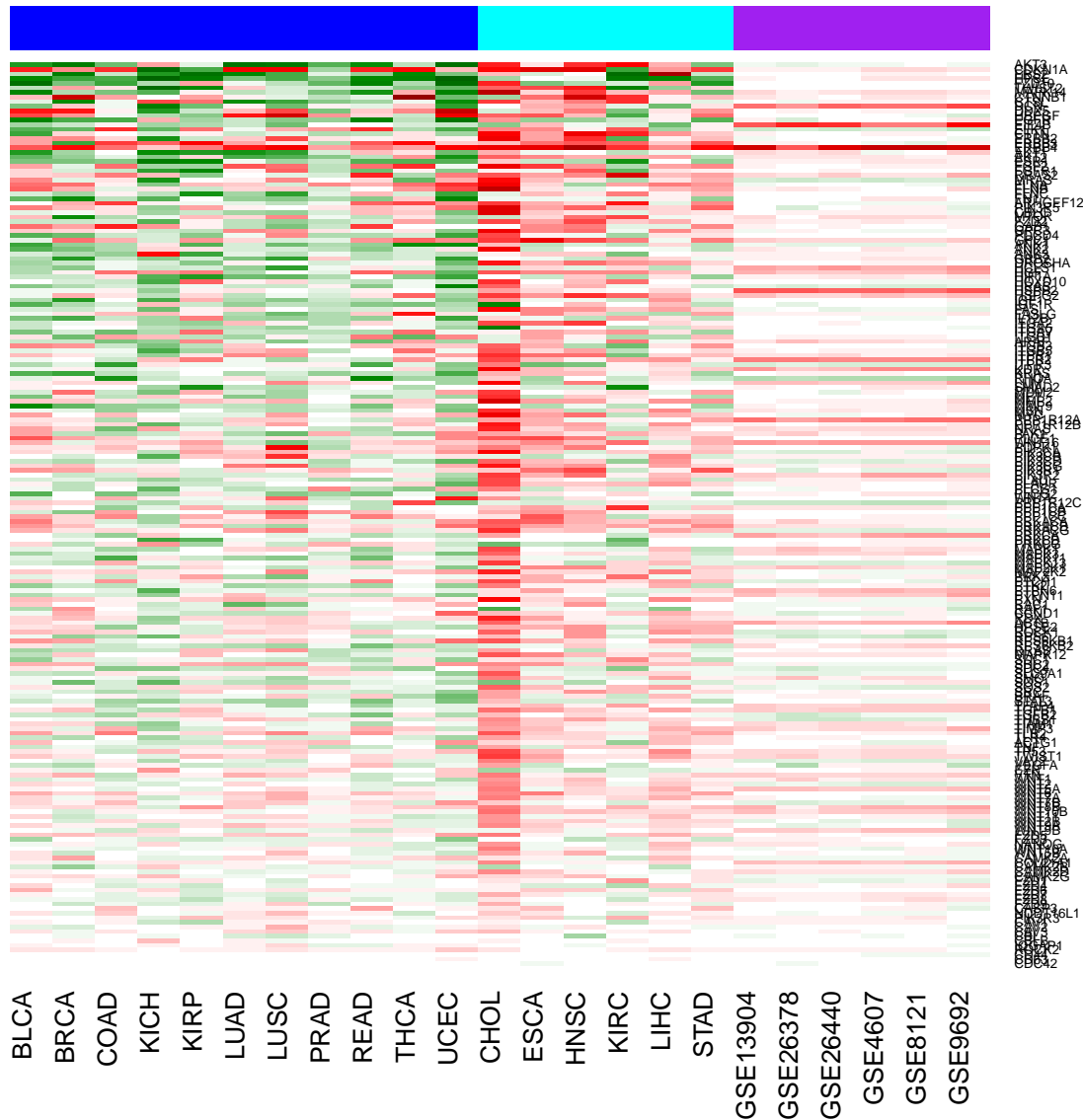


hsa05202: Transcriptional misregulation in cancer



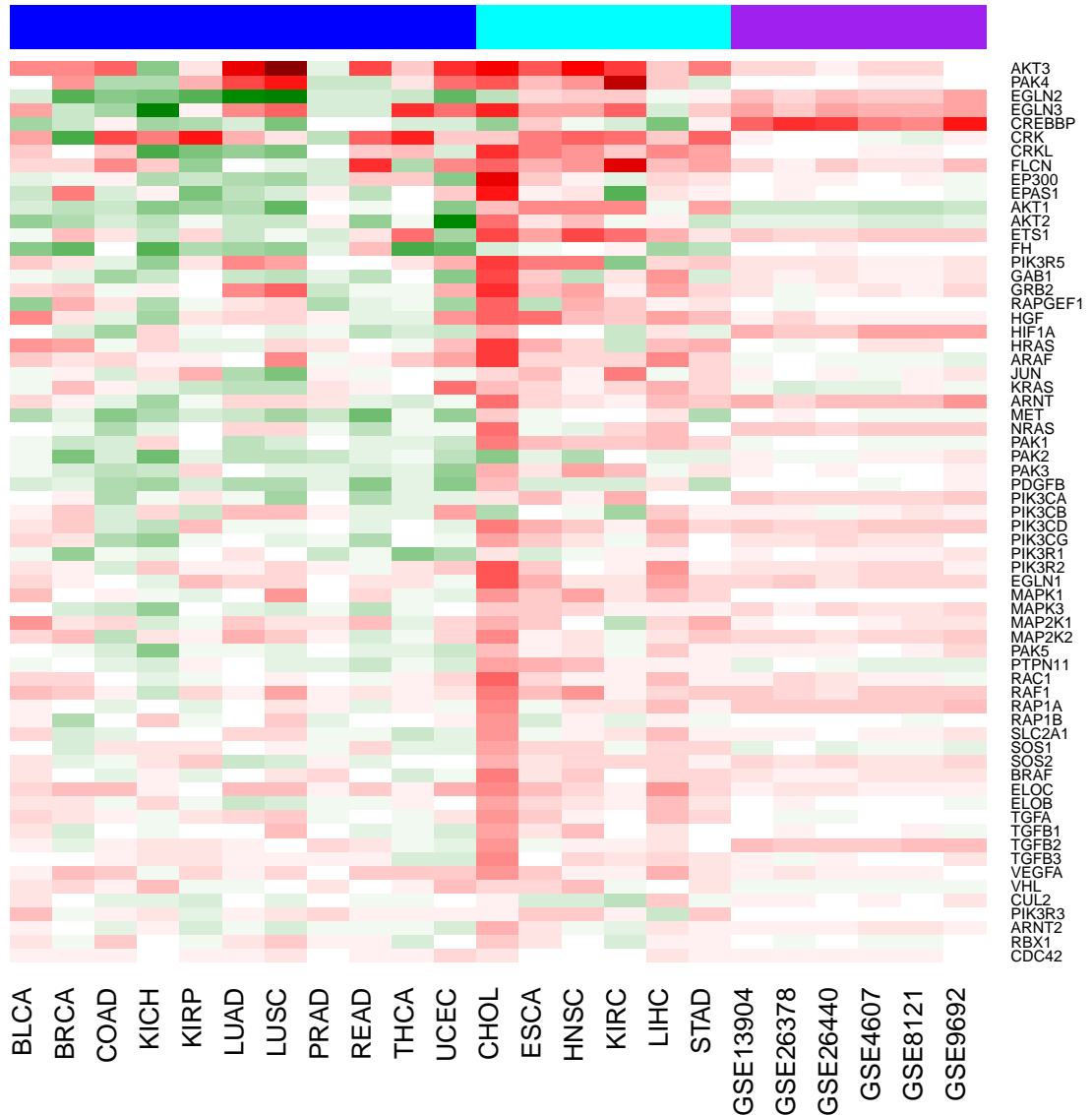


# hsa05205: Proteoglycans in cancer



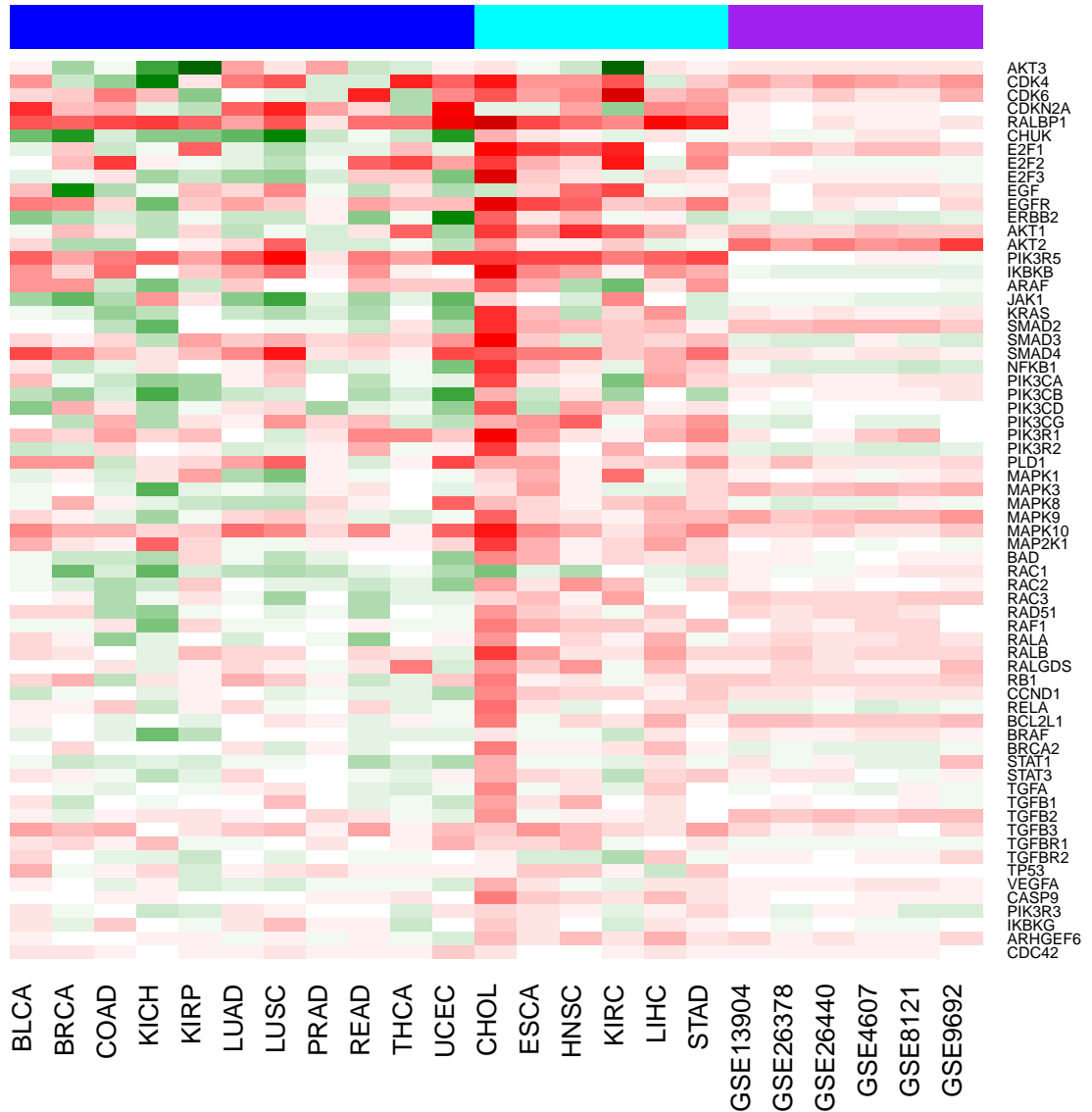


# hsa05211: Renal cell carcinoma



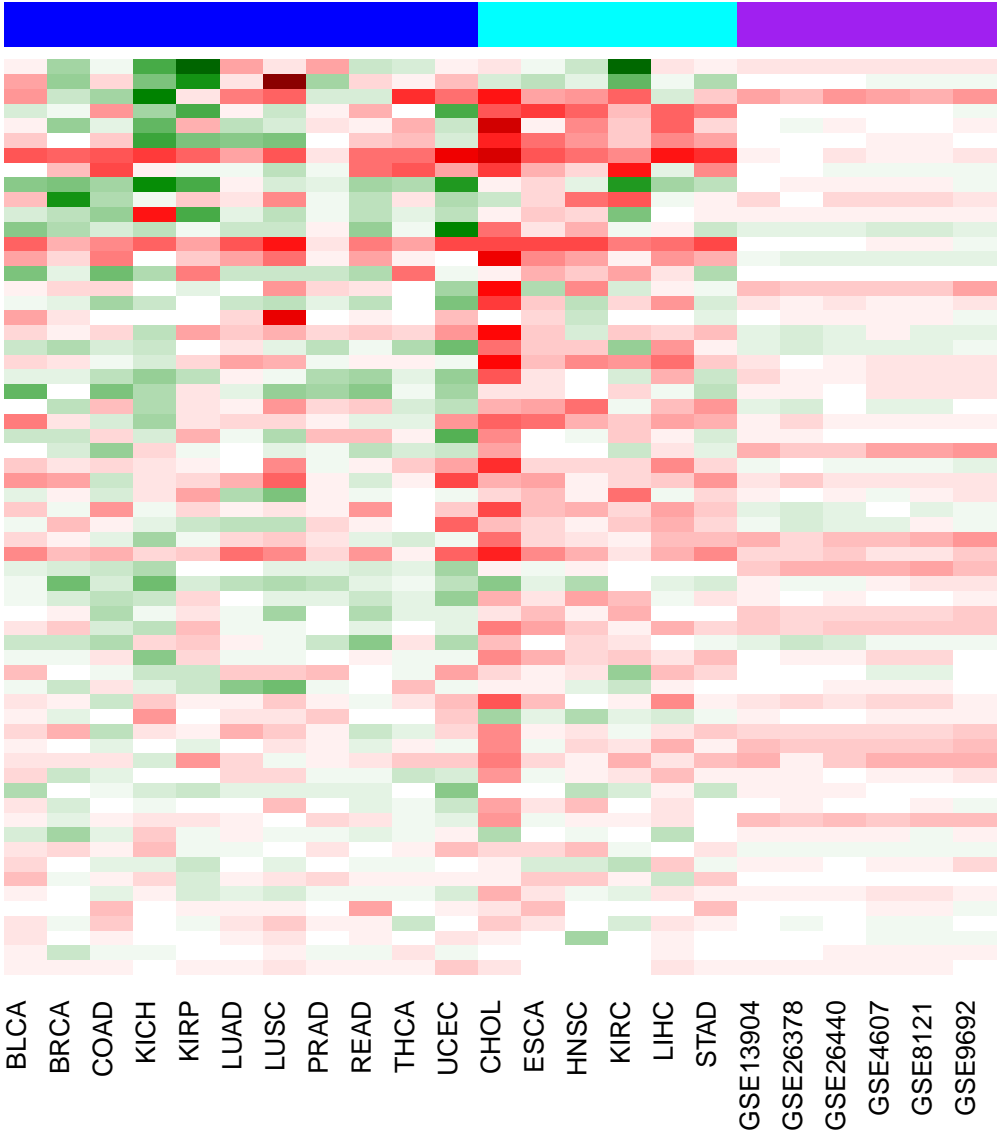


## hsa05212: Pancreatic cancer





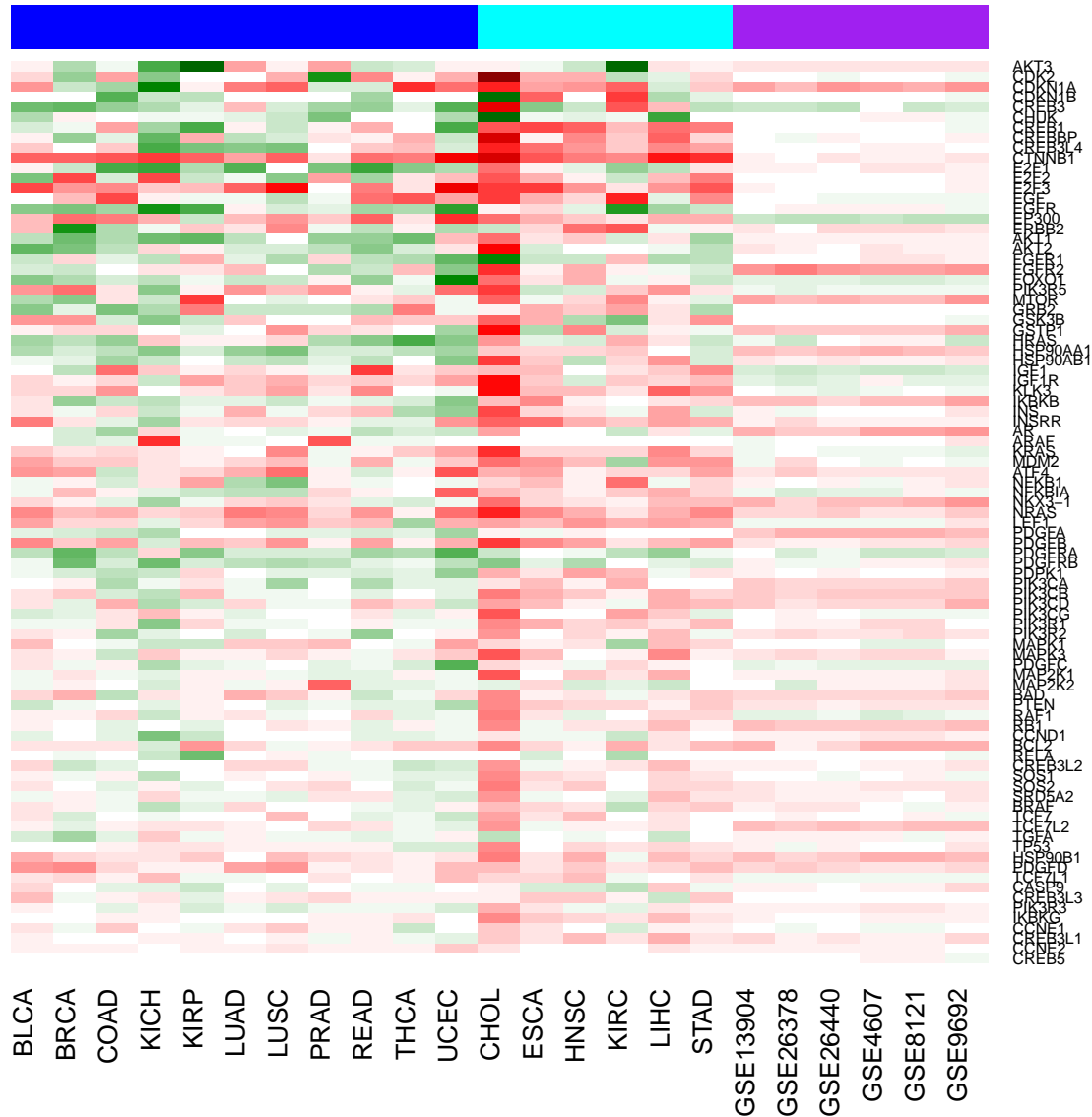
hsa05214: Glioma



AKT3  
CDK4  
CDK6  
CDKN1A  
CDKN2A  
CALML6  
E2F1  
E2F2  
E2F3  
EGF  
EGFR  
AKT1  
AKT2  
PIK3R5  
MTOR  
SHC2  
GRB2  
HRAS  
IGF1  
IGF1R  
ARAF  
KRAS  
SHC4  
MDM2  
NRAS  
PDGFA  
PDGFB  
PDGFRA  
PDGFRB  
CALML5  
PIK3CA  
PIK3CB  
PIK3CD  
PIK3CG  
PIK3R1  
PIK3R2  
PLCG1  
SHC3  
PLCG2  
PRKCA  
PRKCB  
PRKCG  
MAPK1  
MAPK3  
MAP2K1  
MAP2K2  
PTEN  
RAF1  
RB1  
CCND1  
SHC1  
SOS1  
SOS2  
BRAF  
TGFA  
TP53  
CALML3  
CAMK2A  
CAMK2B  
CAMK2D  
CAMK2G  
PIK3R3

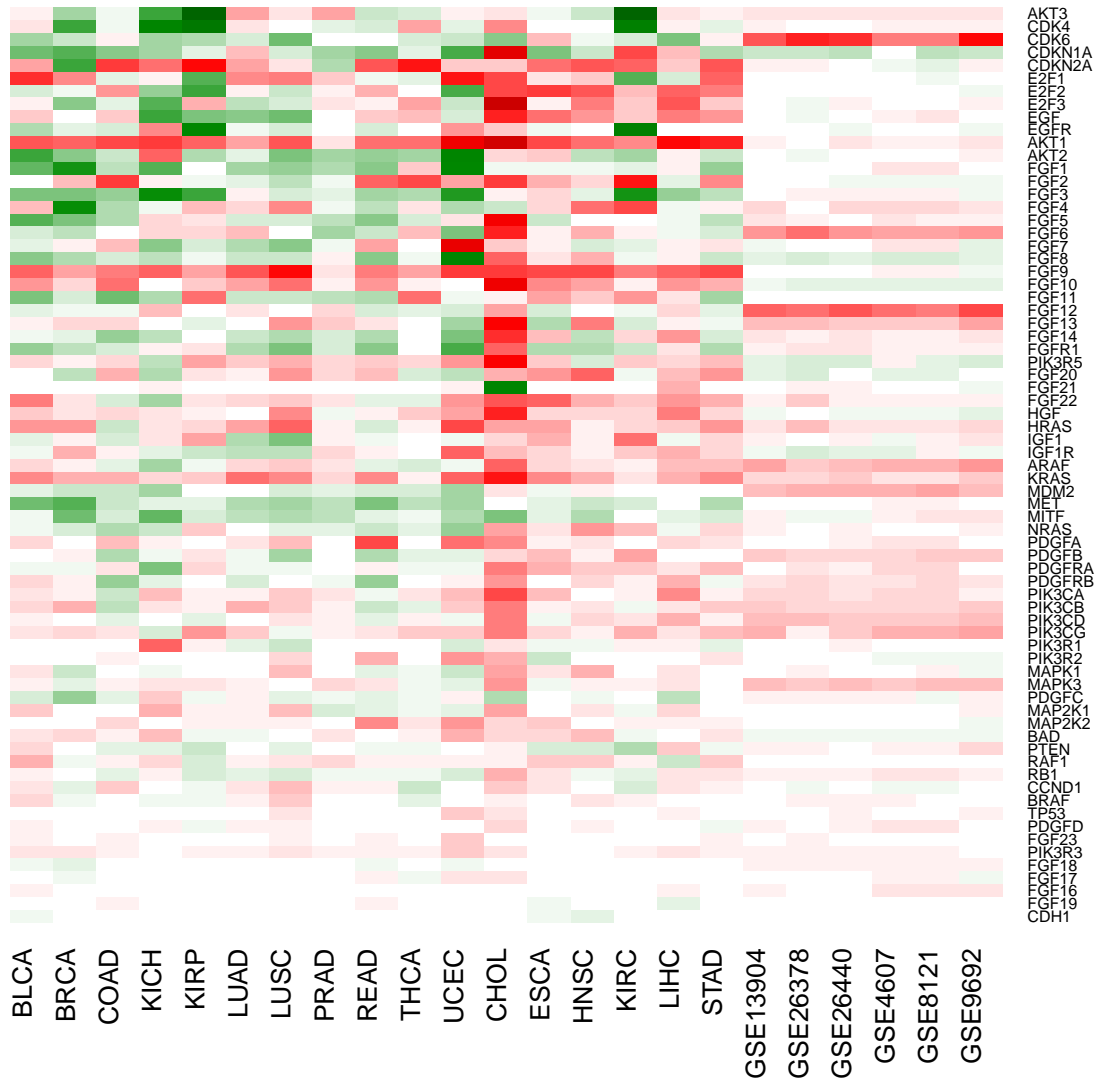


hsa05215: Prostate cancer



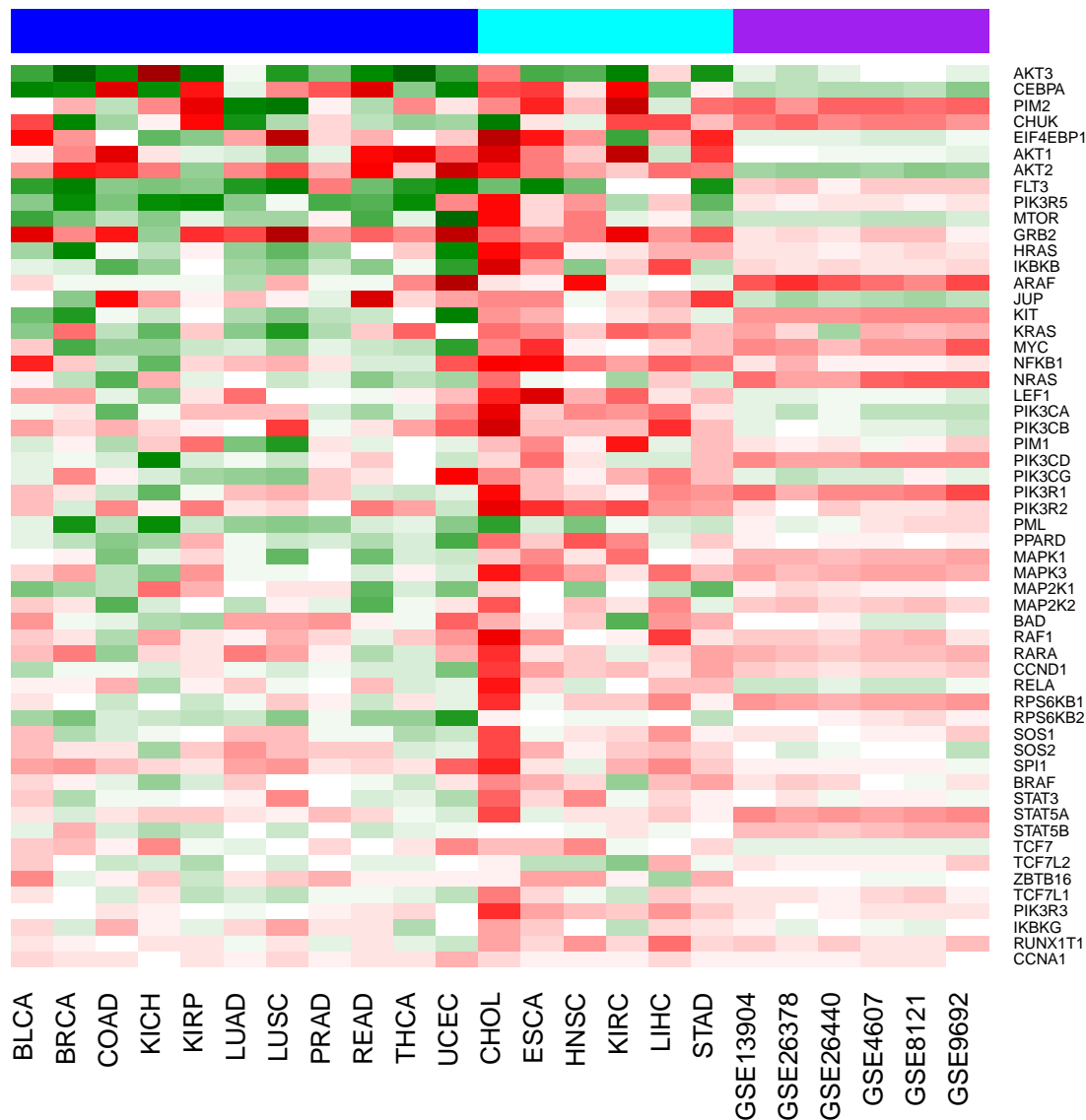


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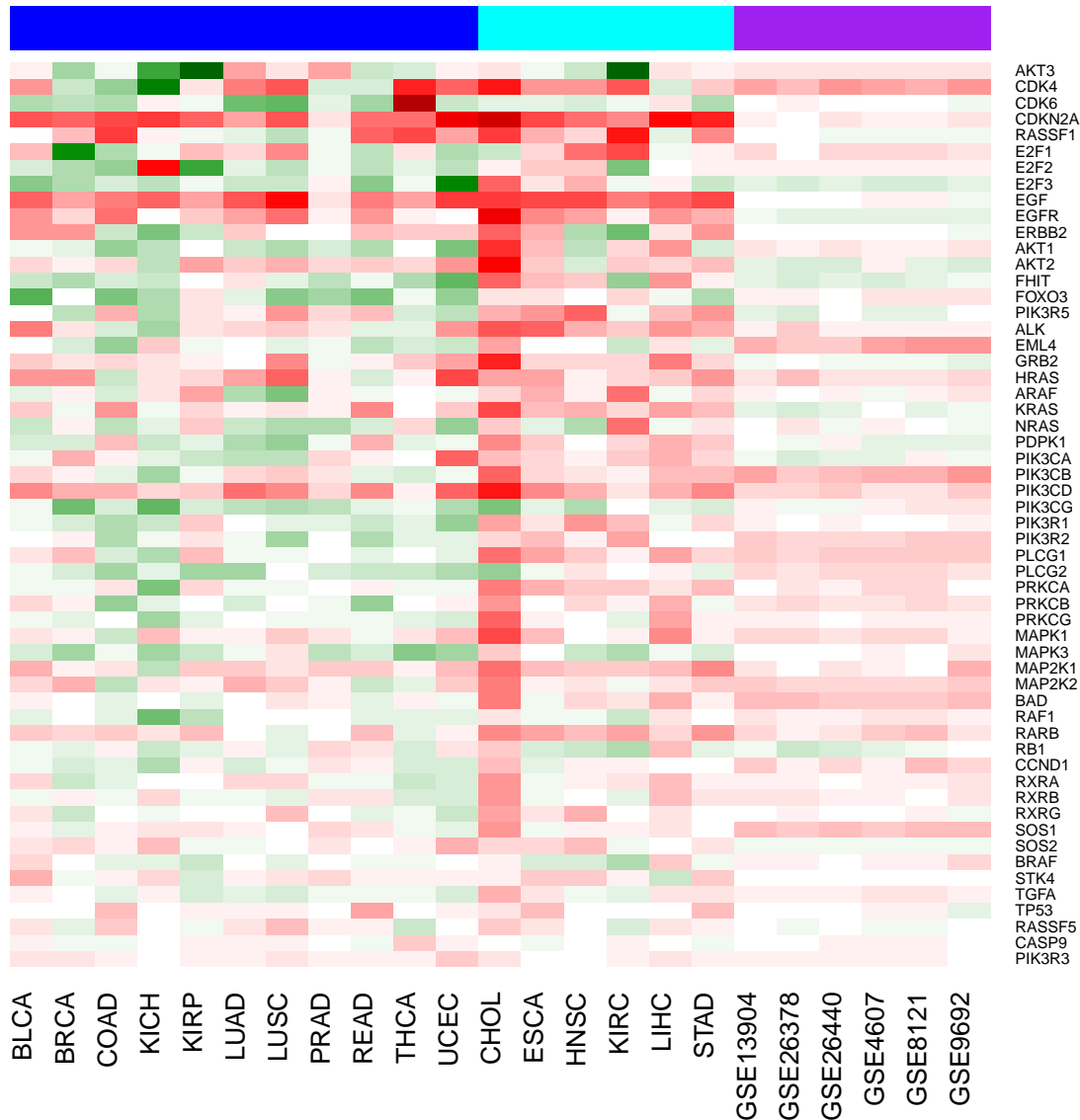


hsa05221: Acute myeloid leukemia



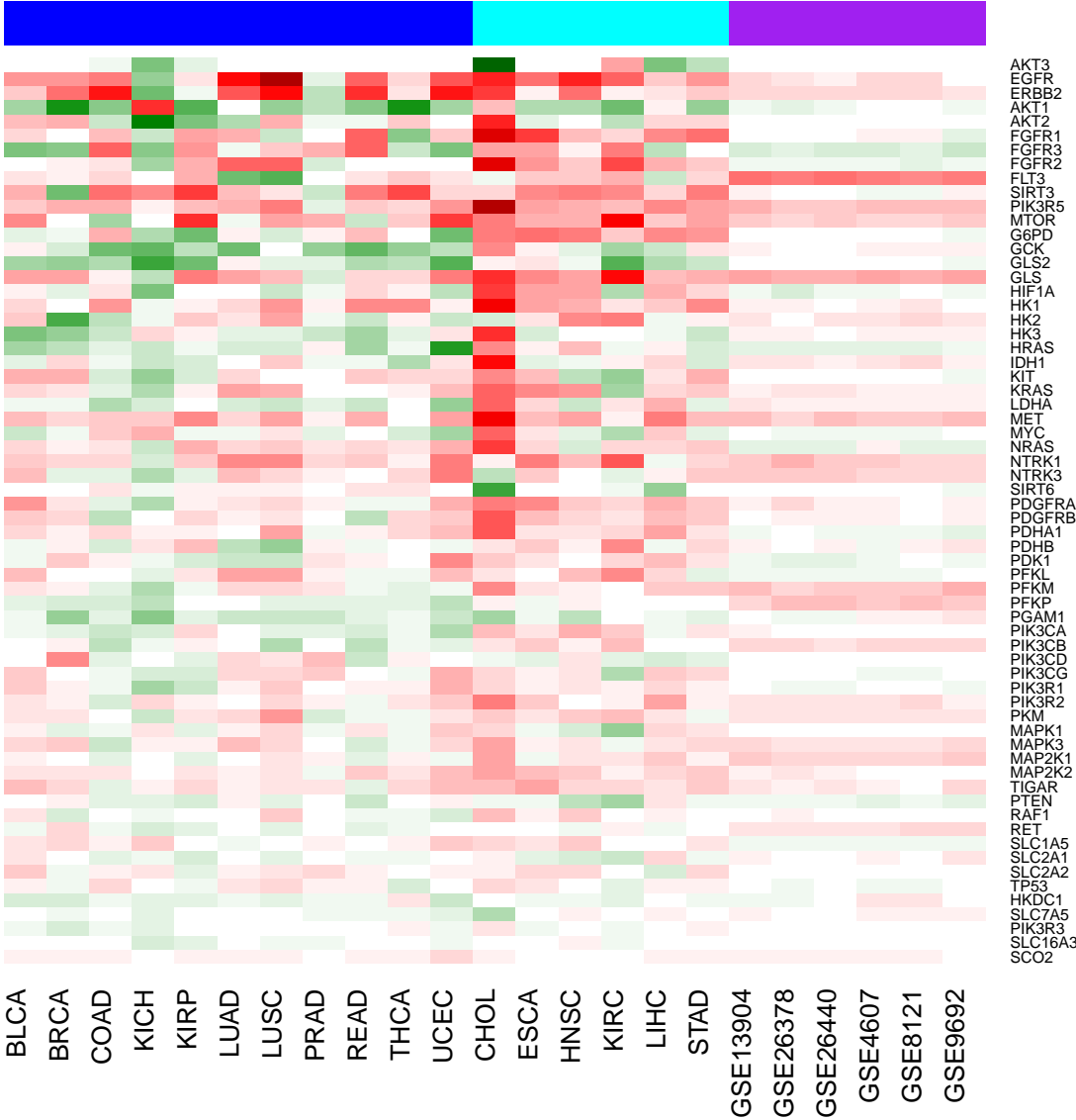


# hsa05223: Non-small cell lung cancer



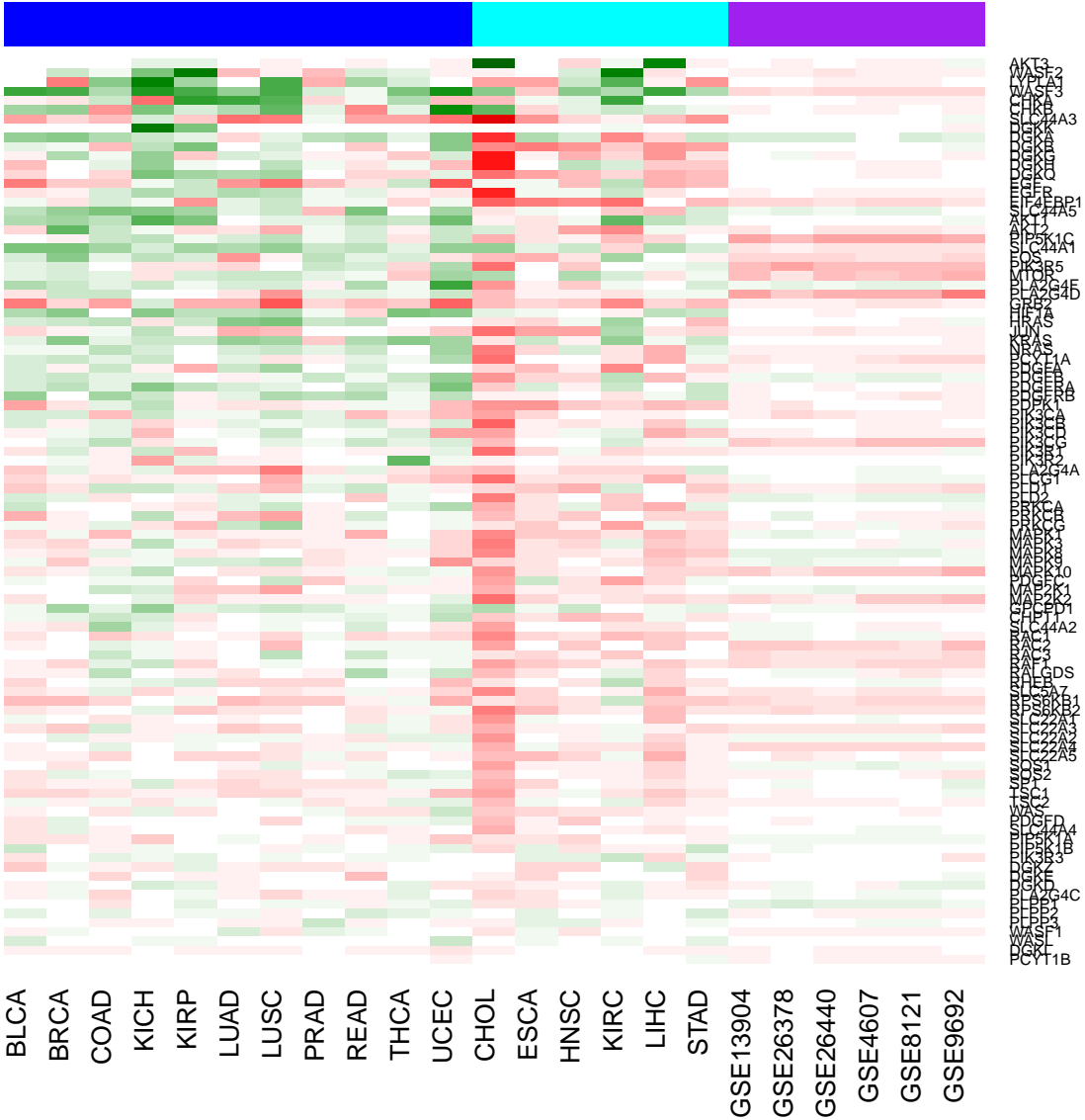


hsa05230: Central carbon metabolism in cancer



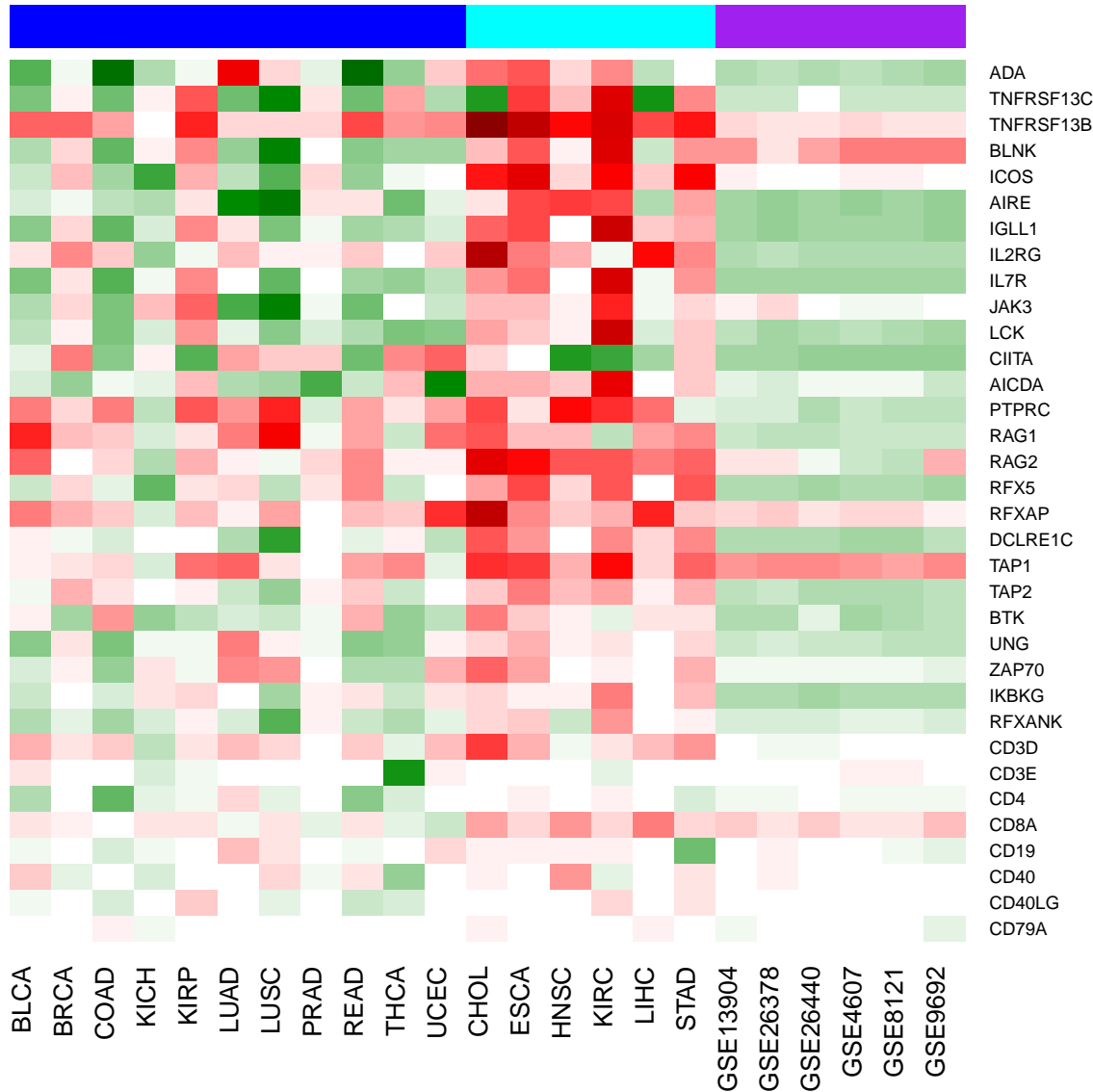


hsa05231: Choline metabolism in cancer



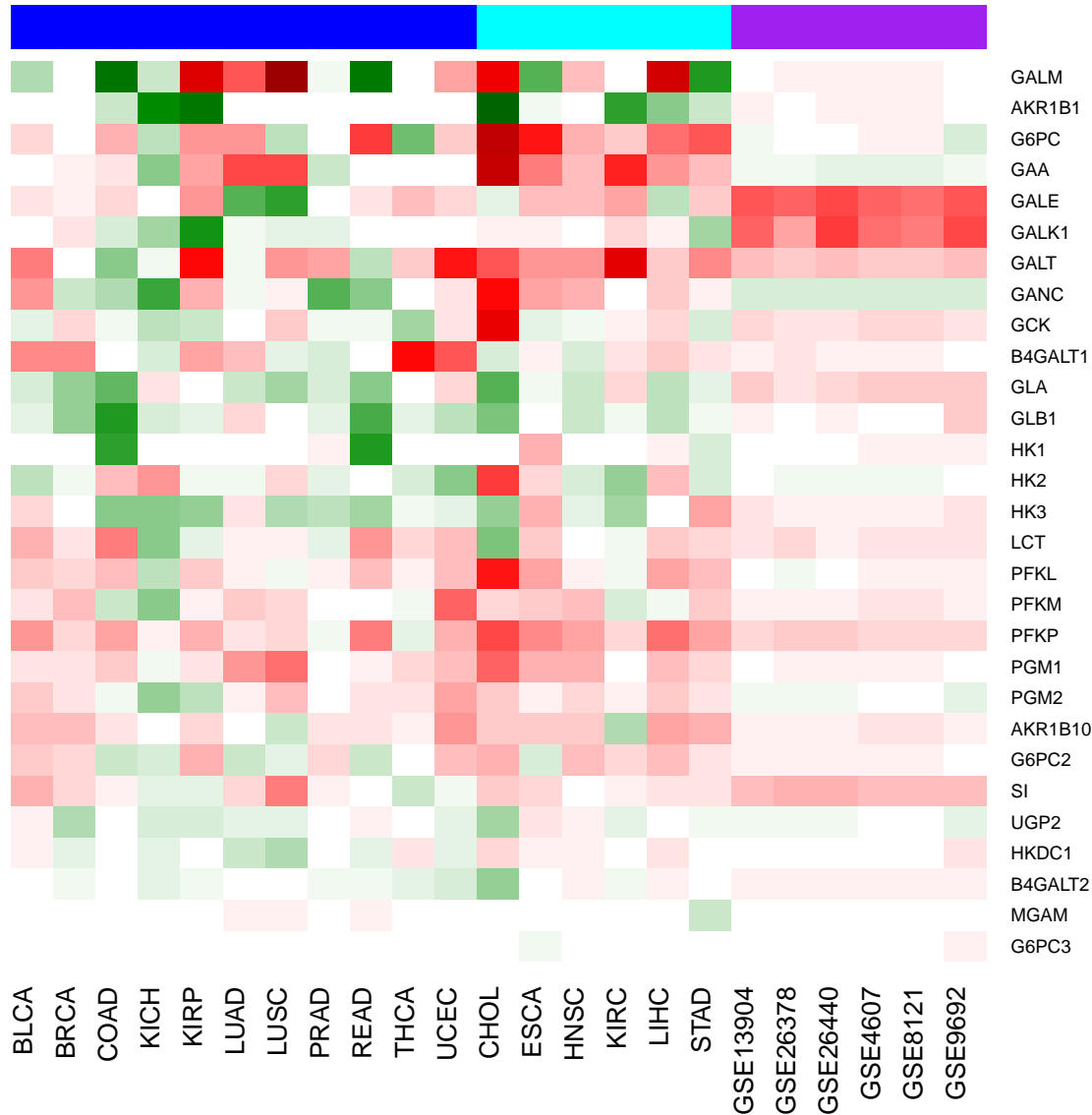


hsa05340: Primary immunodeficiency



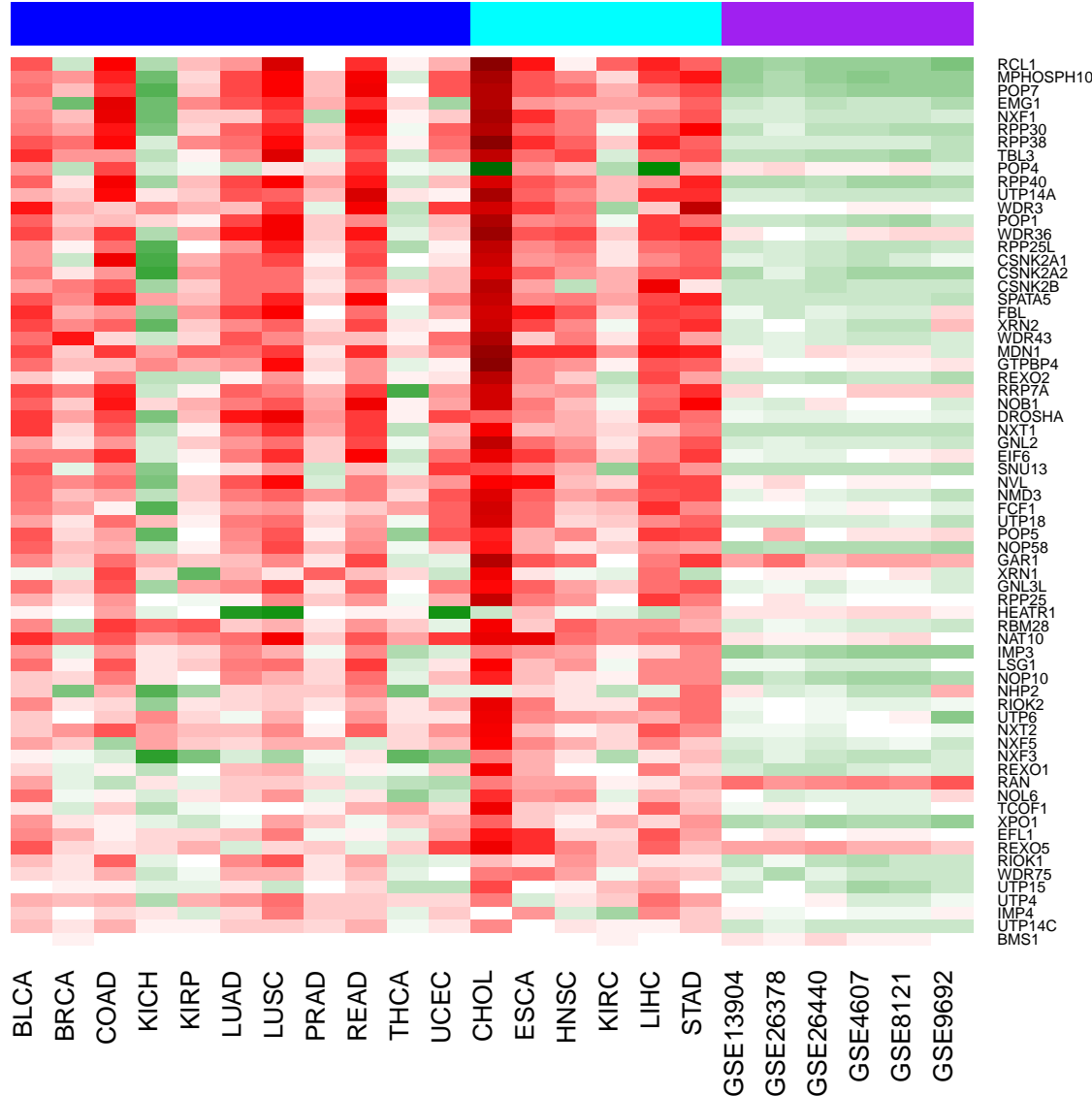


hsa00052: Galactose metabolism



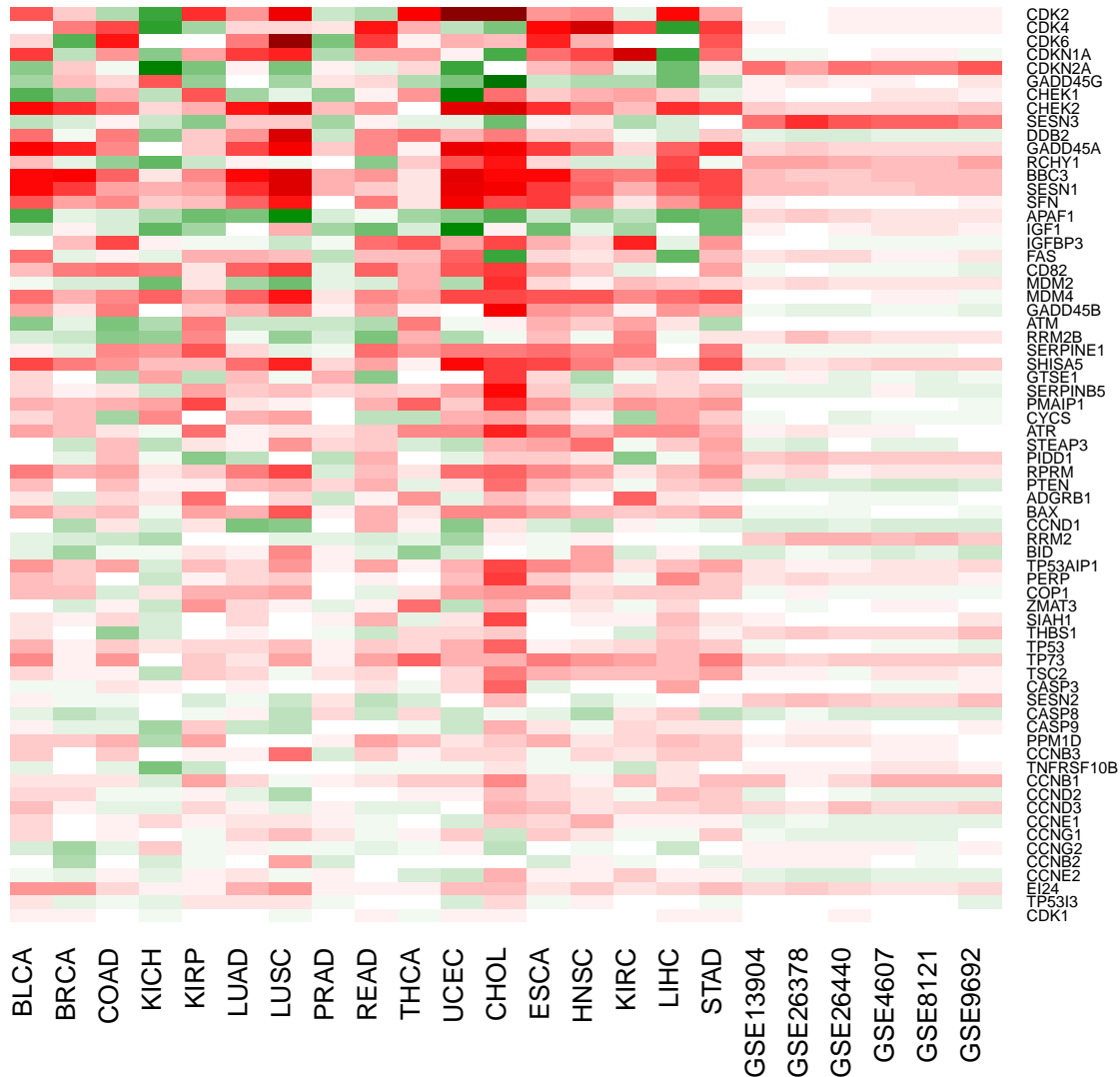


hsa03008: Ribosome biogenesis in eukaryotes



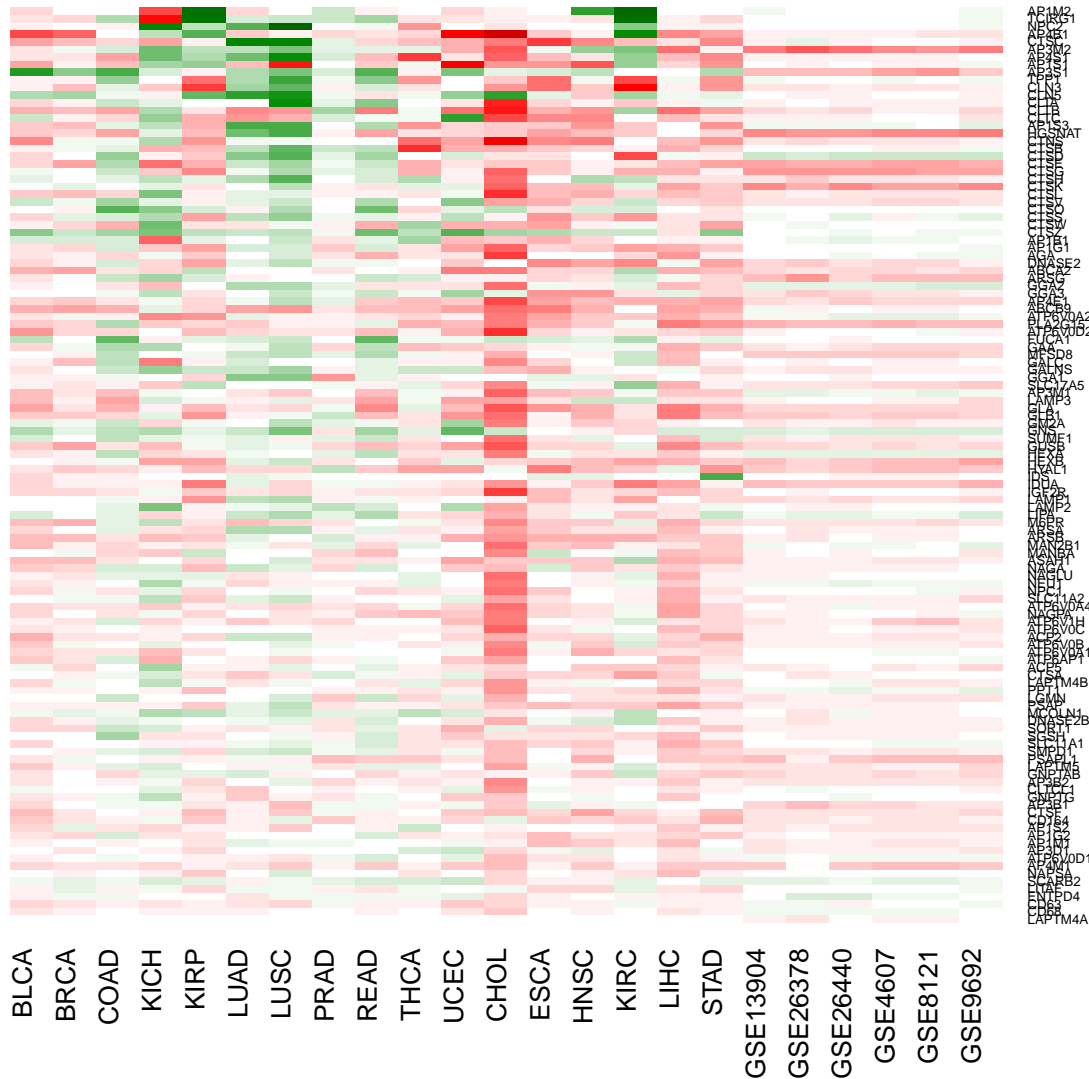


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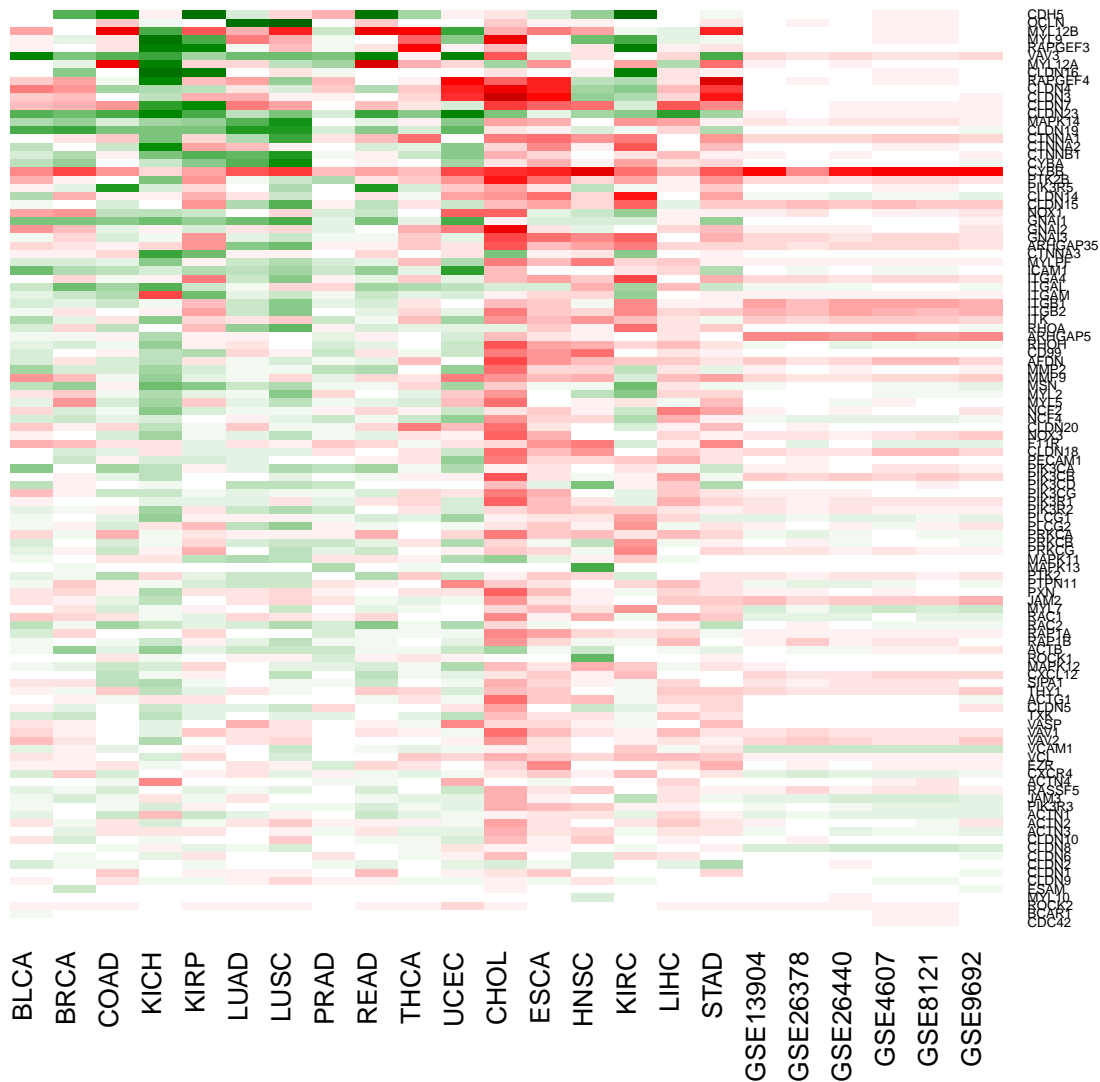


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Gender	Percentage
Male	55%
Female	45%





# hsa05219: Bladder cancer

