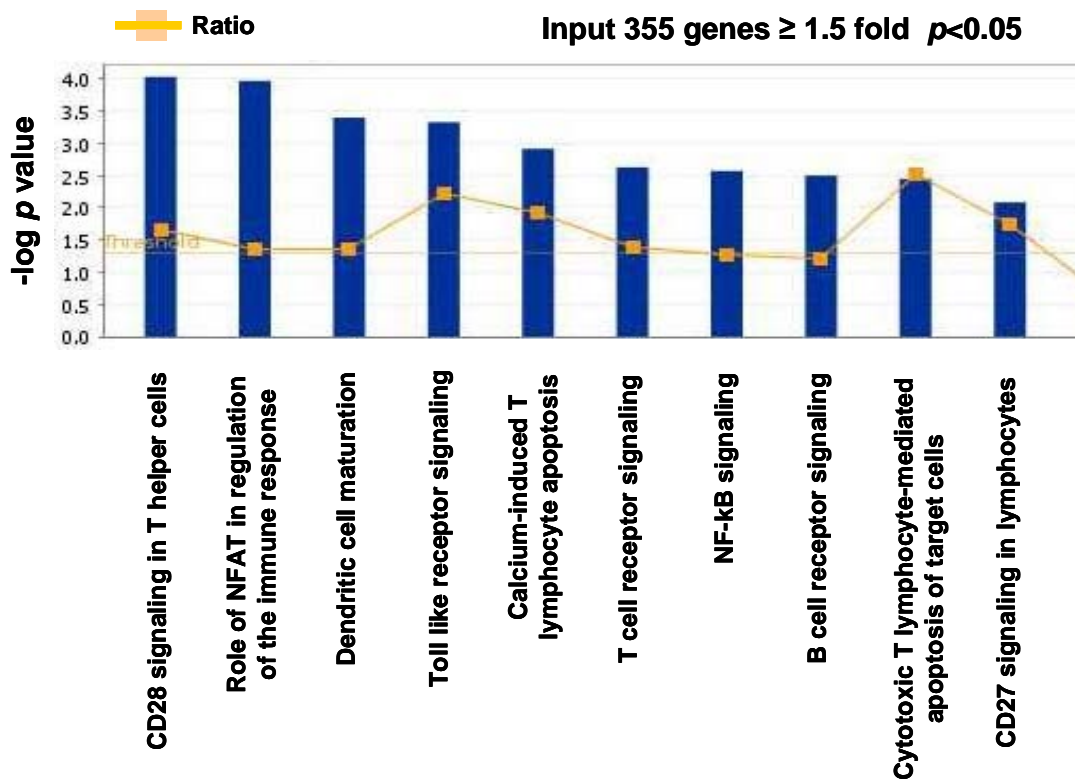


Figure E-1. Significant canonical pathways present in the peripheral blood of ischemic stroke patients

IPA analysis identified the top-5 most significant canonical pathways in the peripheral blood of ischemic stroke patients were: CD28 signaling in T-helper cells ($p=4.03E00$); nuclear factor of activated T cells (NFAT) in regulation of the immune response ($p=4.03E00$); dendritic cell maturation ($p=3.4E00$); toll-like receptor signaling ($p=3.33E00$); and calcium-induced T-lymphocyte apoptosis ($p=2.92E00$).

For questions related to the material in this supplemental figure contact Taura L. Barr at barrt@mail.nih.gov.

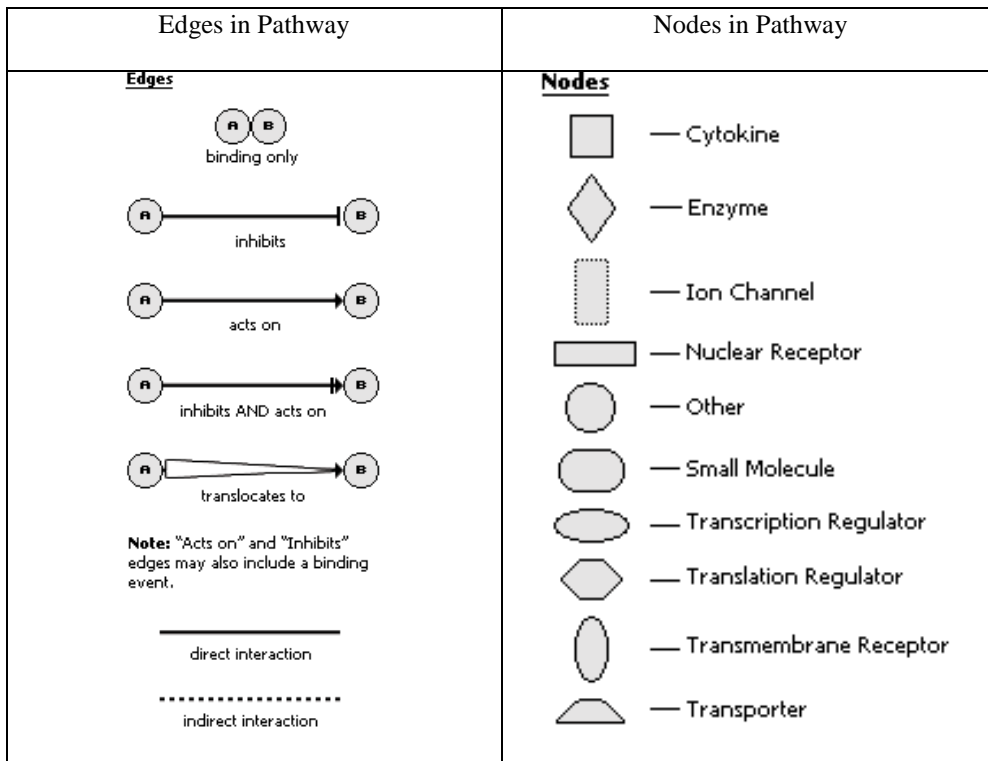


Data Description

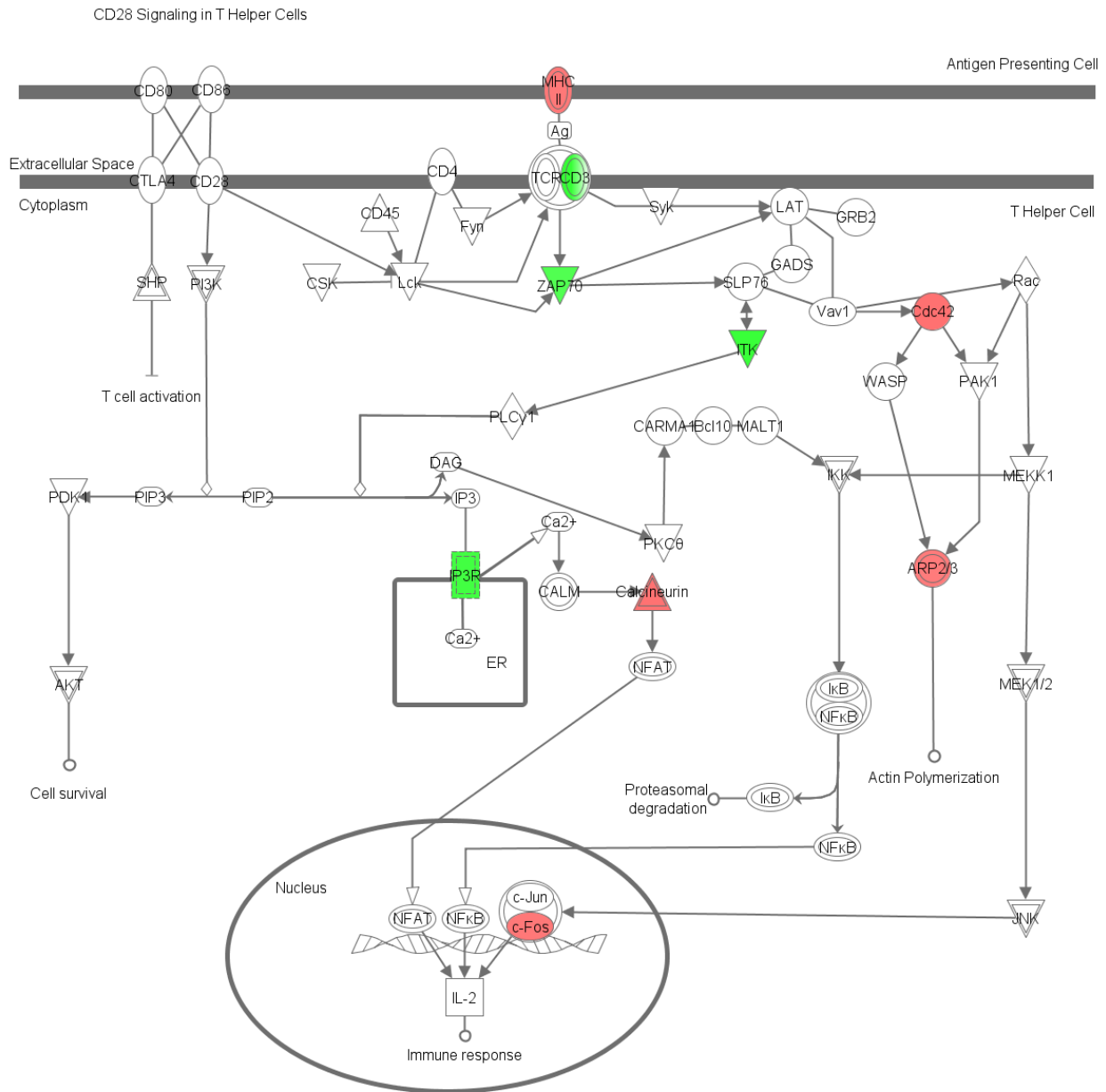
Data Set	Fold Change cutoff; pvalue	Input Genes	Genes mapped to knowledge database	Genes eligible for pathway analysis
Stroke versus Control	≥ 1.5 ; <0.05	500	484	355

Pathway legend

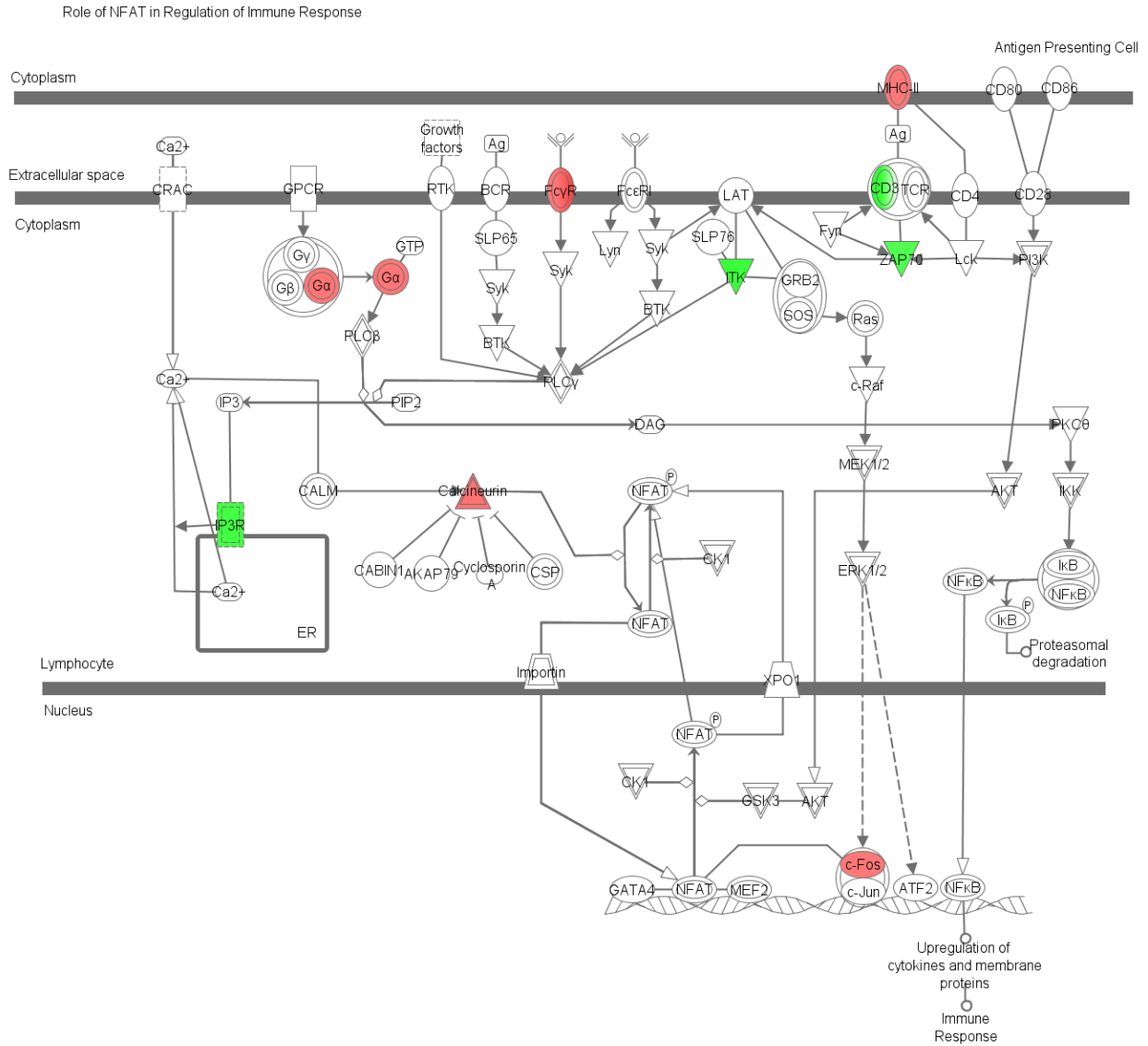
- ↑, red color – up-regulated
- ↓, green color – down-regulated



1. There were 12 genes in the dataset involved in CD28 signaling in T-helper cells ($p=4.03E00$): *CD247*, *FOS*, *ACTR3*, *CD3E*, *CDC42*, *PPP3R1*, *ITPR3*, *ARPC5*, *ZAP70*, *CD3D*, *HLA-DRB5*, and *ITK* ($p=4.03E00$).

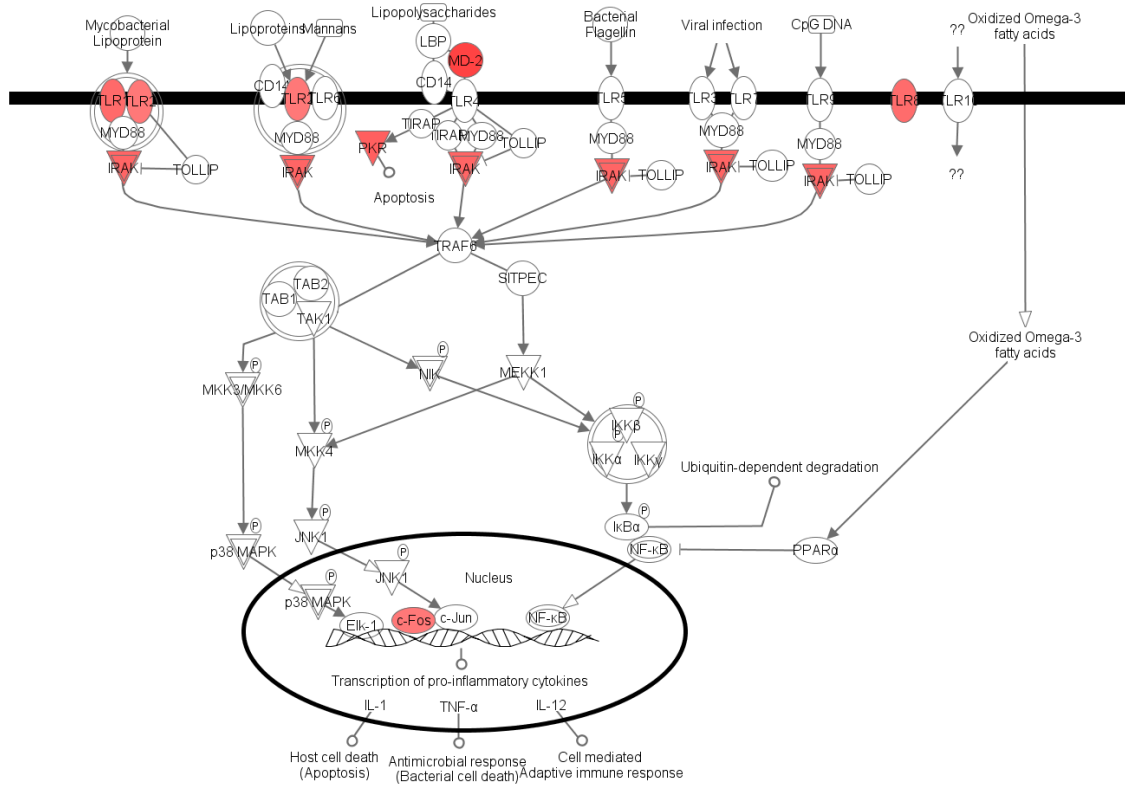


2. There are 15 genes in the dataset involved in NFAT regulation ($p=4.03E00$): *FCGR3B*, *CD247*, *CD3E*, *FCGR2A*, *FCGR1A*, *CD3D*, *FOS*, *PPP3R1*, *ITPR3*, *ZAP70*, *GNA13*, *FCGR1B*, *FCGR3A*, *HLA-DRB5*, and *ITK*).



4. There were more genes involved in Toll-like receptor signaling within the dataset compared to the total number of genes in the Toll-like receptor pathway with a ratio >2 and $p=3.33E00$ (*TLR2*, *TLR1*, *FOS*, *LY96*, *TLR8* (includes *EG:51311*), *IF2AK2*, *IRAK3*).

Toll-like Receptor Signaling



5. There are 7 genes in the dataset involved in calcium-induced T lymphocyte apoptosis ($p=2.92E00$): *CD247*, *CD3E*, *PPP3R1*, *ITPR3*, *ZAP70*, *CD3D*, and *HLA-DRB5*

