

Table S4: Canonical pathways annotated in cytoscape enrichment map

No.	Type I Interferon signaling	B-H P value
1	<i>Role of Pattern Recognition Receptors in Recognition of Bacteria and Viruses</i>	3.16E-14
2	<i>Activation of IRF by Cytosolic Pattern Recognition Receptors</i>	1.70E-07
3	<i>Interferon Signaling</i>	3.89E-06
4	<i>Toll-like Receptor Signaling</i>	8.91E-03
5	<i>Role of PKR in Interferon Induction and Antiviral Response</i>	4.79E-02
6	<i>Role of RIG-I-like Receptors in Antiviral Innate Immunity</i>	8.13E-02
No.	Innate cellular immune response	B-H P value
1	<i>Communication between Innate and Adaptive Immune Cells</i>	2.14E-06
2	<i>Natural Killer Cell Signaling</i>	3.39E-06
3	<i>Crosstalk between Dendritic Cells and Natural Killer Cells</i>	2.40E-04
4	<i>Fcy Receptor-mediated Phagocytosis in Macrophages and Monocytes</i>	1.26E-03
5	<i>Dendritic Cell Maturation</i>	8.91E-03
6	<i>Production of Nitric Oxide and Reactive Oxygen Species in Macrophages</i>	4.57E-02
No.	Adaptive cellular immune response	B-H P value
1	<i>Allograft Rejection Signaling</i>	1.07E-04
2	<i>Leukocyte Extravasation Signaling</i>	5.50E-04
3	<i>T Helper Cell Differentiation</i>	8.91E-03
4	<i>iCOS-iCOSL Signaling in T Helper Cells</i>	9.33E-03
5	<i>Cytotoxic T Lymphocyte-mediated Apoptosis of Target Cells</i>	2.40E-02
6	<i>Graft-versus-Host Disease Signaling</i>	4.57E-02
7	<i>PKCθ Signaling in T Lymphocytes</i>	4.57E-02
8	<i>CD28 Signaling in T Helper Cells</i>	1.00E-01
No.	Disease-specific signaling	B-H P value
1	<i>Pathogenesis of Multiple Sclerosis</i>	1.26E-03
2	<i>Altered T Cell and B Cell Signaling in Rheumatoid Arthritis</i>	1.26E-03
3	<i>Systemic Lupus Erythematosus Signaling</i>	1.07E-02
4	<i>Autoimmune Thyroid Disease Signaling</i>	3.39E-02
5	<i>Primary Immunodeficiency Signaling</i>	4.57E-02
6	<i>Colorectal Cancer Metastasis Signaling</i>	5.62E-02
7	<i>Role of Hypercytokinemia/hyperchemokinemias in the Pathogenesis of flu</i>	6.17E-02
No.	Cytokine Signaling	B-H P value
1	<i>TREM1 Signaling</i>	6.17E-07
2	<i>NF-κB Signaling</i>	1.02E-02
3	<i>Diff. Regulation of Cytokines in Intestinal Epithelial Cells by IL-17A and IL-17F</i>	2.40E-02
4	<i>Diff. Regulation of Cytokine in Macrophages and Th Cells by IL-17A and IL-17F</i>	8.00E-02
No.	Cell Stress and Injury	B-H P value
1	<i>Cell Cycle: G2/M DNA Damage Checkpoint Regulation</i>	1.74E-02
2	<i>Mitotic Roles of Polo-Like Kinase</i>	1.74E-02
No.	Humoral immune response	B-H P value
1	<i>Fc Epsilon RI Signaling</i>	9.33E-03
2	<i>PI3K Signaling in B Lymphocytes</i>	3.39E-02
No.	Cell Growth	B-H P value
1	<i>Role of BRCA1 in DNA Damage Response</i>	4.79E-02
2	<i>Cdc42 Signaling</i>	8.13E-02
No.	Intracellular secondary messenger signaling	B-H P value
1	<i>Sphingosine-1-phosphate Signaling</i>	8.13E-02