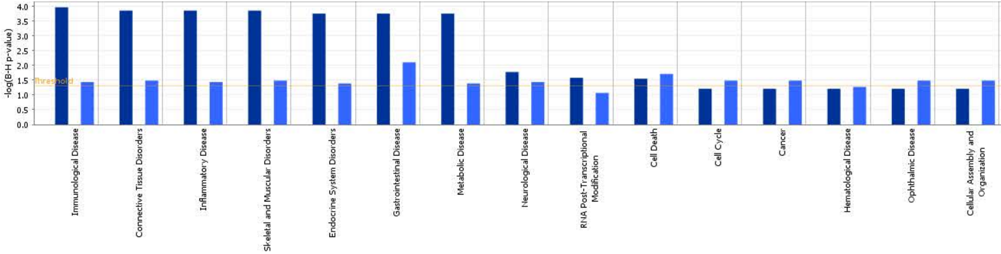
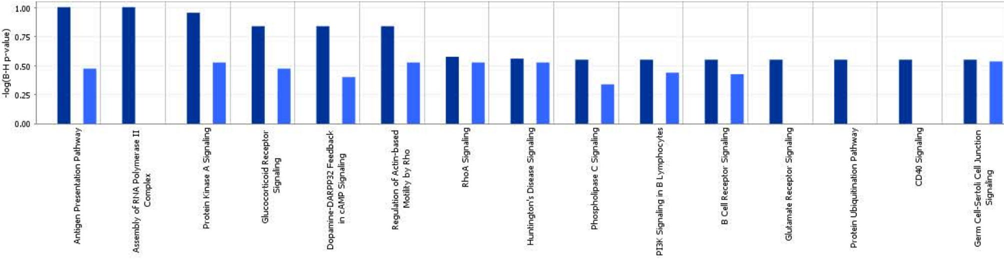
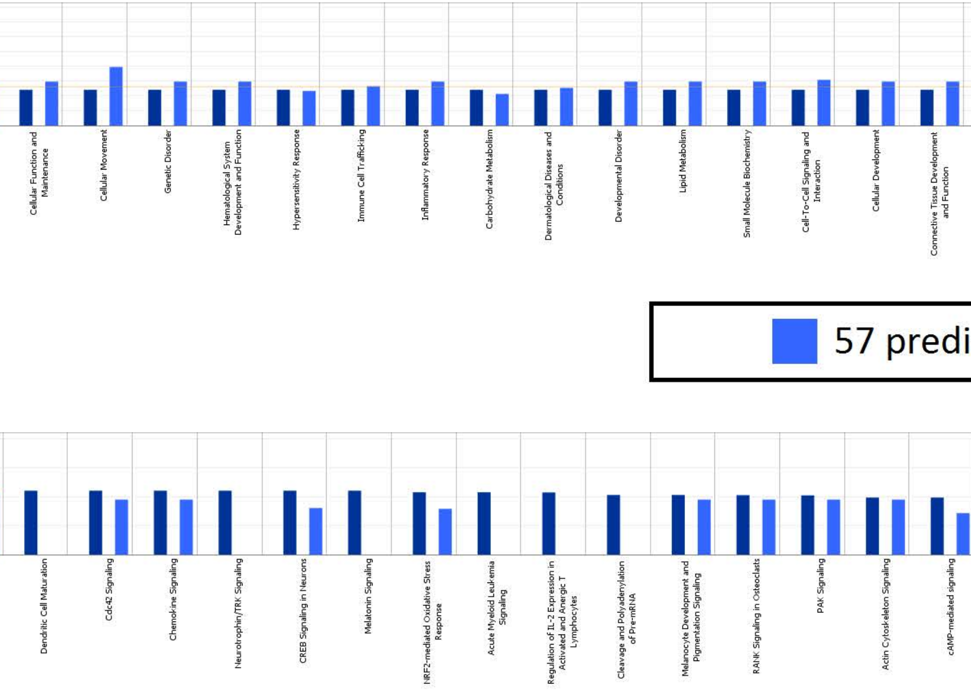
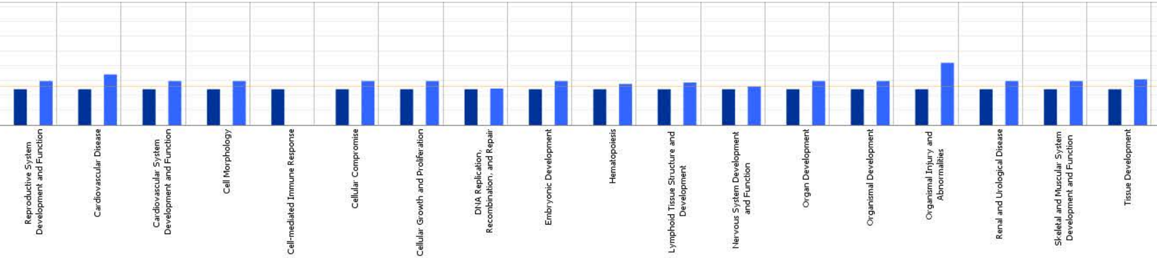
(a) Bio Functions



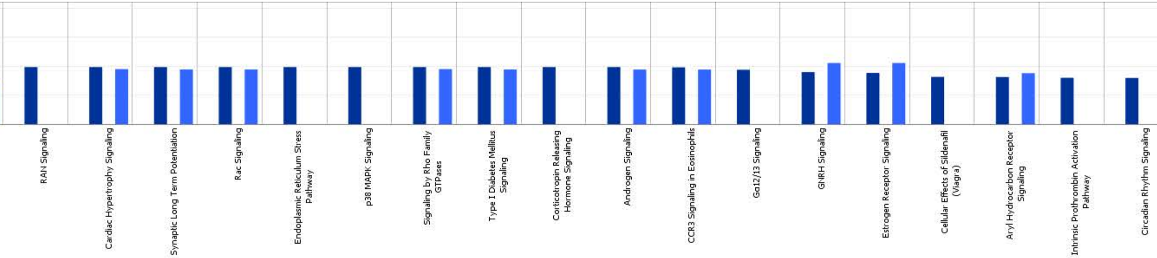
(b) Canonical Pathways

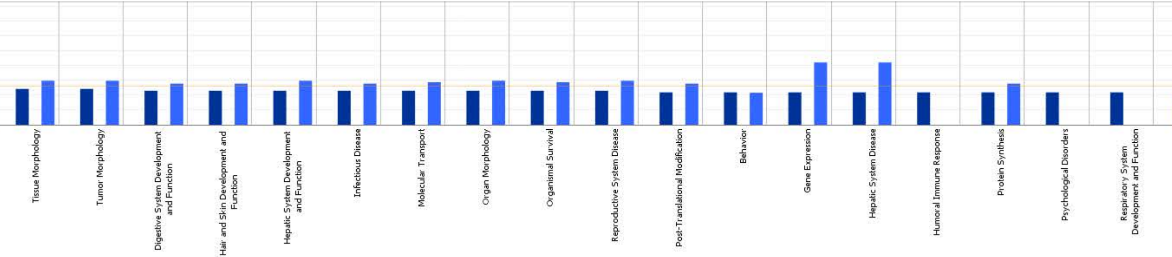




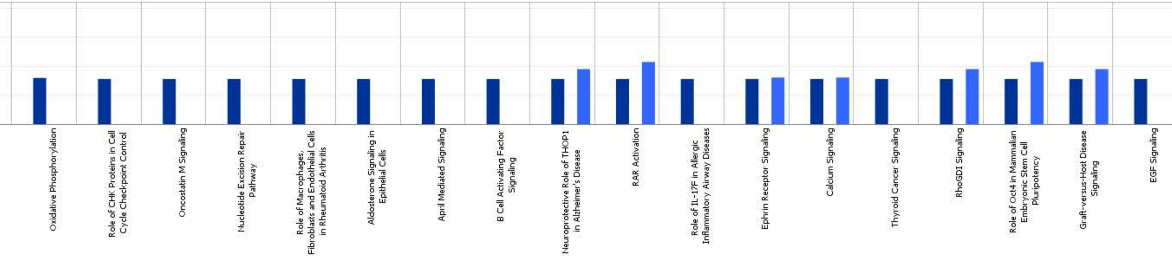


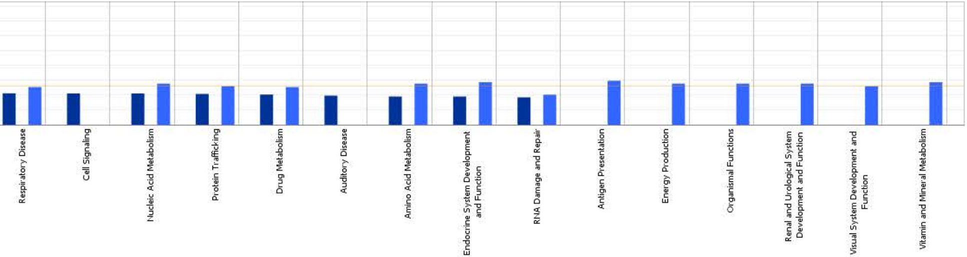
cted imprinted genes from Group I 🟦 94 predicted imprinted gen

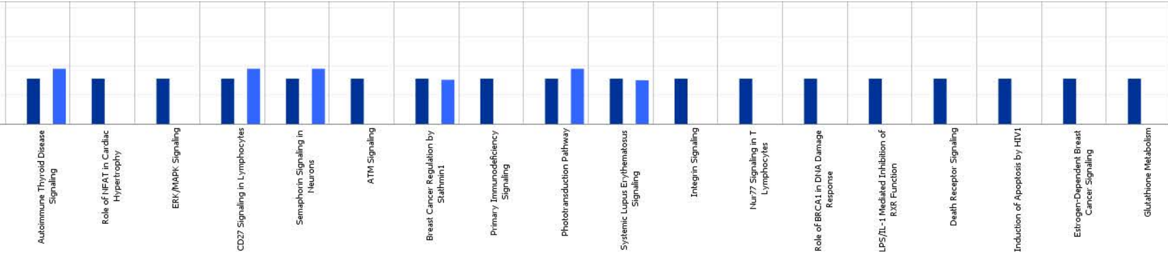


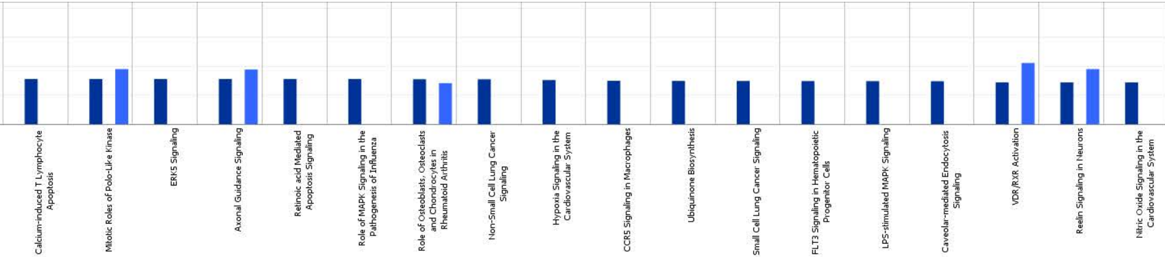


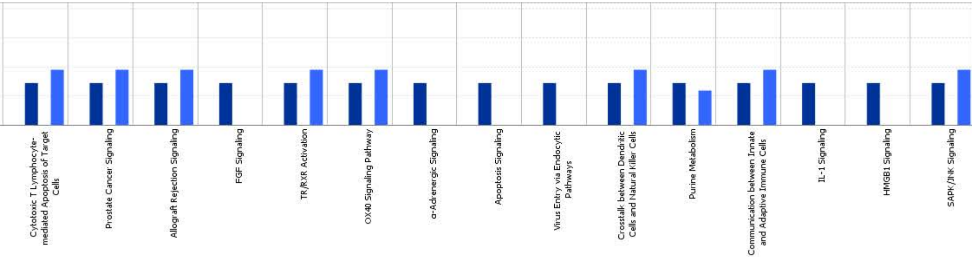
es from Group II

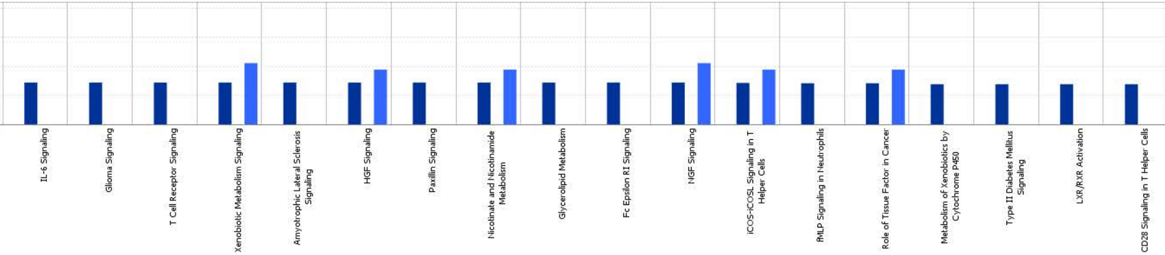

Oxidative Phosphorylation
Role of CHK Proteins in Cell Cycle Checkpoint Control
Oncostatin M Signaling
Nucleotide Excision Repair Pathway
Role of Macrophages, Fibroblasts and Endothelial Cells in Rheumatoid Arthritis
Aldosterone Signaling in Epithelial Cells
April Mediated Signaling
B Cell Activating Factor Signaling
Neuroprotective Role of THOP1 in Alzheimer's Disease
RAR Activation
Role of IL-17F in Allergic Inflammatory Airway Diseases
Ephrin Receptor Signaling
Calcium Signaling
Thyroid Cancer Signaling
RhoGDI Signaling
Role of Oct4 in Mammalian Embryonic Stem Cell Pluripotency
Graft-versus-Host Disease Signaling
EGF Signaling

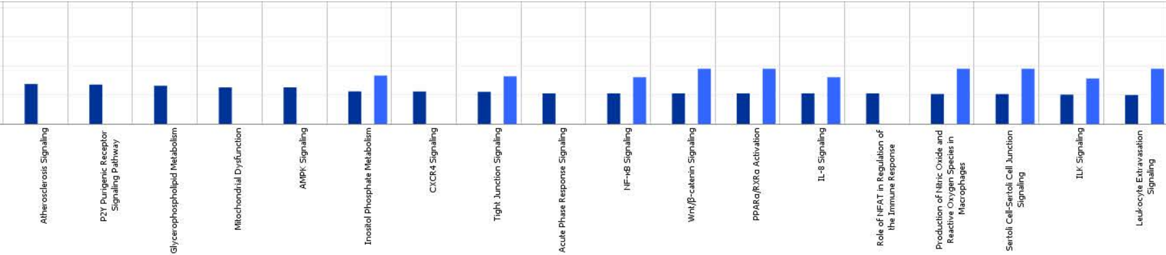


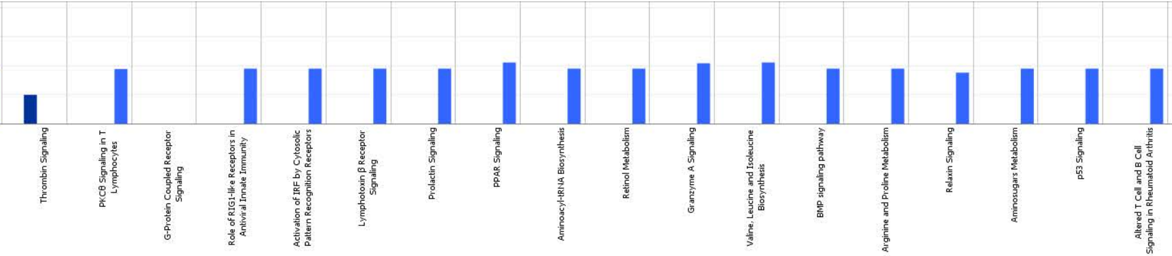

Autoimmune Thyroid Disease Signaling
Role of NFAT in Cardiac Hypertrophy
ERK/MAPK Signaling
CD27 Signaling in Lymphocytes
Semaphorin Signaling in Neurons
ATM Signaling
Breast Cancer Regulation by Stathmin1
Primary Immunodeficiency Signaling
Phototransduction Pathway
Systemic Lupus Erythematosus Signaling
Integrin Signaling
Nur77 Signaling in T Lymphocytes
Role of BRCA1 in DNA Damage Response
LPS/IL-1 Mediated Inhibition of RXR Function
Death Receptor Signaling
Induction of Apoptosis by HIV1
Estrogen-Dependent Breast Cancer Signaling
Glutathione Metabolism

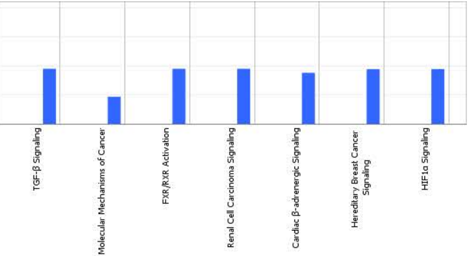

Calcium-induced T Lymphocyte Apoptosis
Mitotic Roles of Polo-Like Kinase
ERK5 Signaling
Axonal Guidance Signaling
Retinoic acid Mediated Apoptosis Signaling
Role of MAPK Signaling in the Pathogenesis of Influenza
Role of Osteoblasts, Osteoclasts and Chondrocytes in Rheumatoid Arthritis
Non-Small Cell Lung Cancer Signaling
Hypoxia Signaling in the Cardiovascular System
CCR5 Signaling in Macrophages
Ubiquinone Biosynthesis
Small Cell Lung Cancer Signaling
FLT3 Signaling in Hematopoietic Progenitor Cells
LPS-stimulated MAPK Signaling
Caveolar-mediated Endocytosis Signaling
VDR/RXR Activation
Reelin Signaling in Neurons
Nitric Oxide Signaling in the Cardiovascular System


Cytotoxic T Lymphocyte-mediated Apoptosis of Target Cells
Prostate Cancer Signaling
Allograft Rejection Signaling
FGF Signaling
TR/RXR Activation
OX40 Signaling Pathway
α-Adrenergic Signaling
Apoptosis Signaling
Virus Entry via Endocytic Pathways
Crosstalk between Dendritic Cells and Natural Killer Cells
Purine Metabolism
Communication between Innate and Adaptive Immune Cells
IL-1 Signaling
HMGB1 Signaling
SAPK/JNK Signaling


IL-6 Signaling
Glioma Signaling
T Cell Receptor Signaling
Xenobiotic Metabolism Signaling
Amyotrophic Lateral Sclerosis Signaling
HGF Signaling
Paxillin Signaling
Nicotinate and Nicotinamide Metabolism
Glycerolipid Metabolism
Fc Epsilon RI Signaling
NGF Signaling
iCOS-iCOSL Signaling in T Helper Cells
fMLP Signaling in Neutrophils
Role of Tissue Factor in Cancer
Metabolism of Xenobiotics by Cytochrome P450
Type II Diabetes Mellitus Signaling
LXR/RXR Activation
CD28 Signaling in T Helper Cells


Atherosclerosis Signaling
P2Y Purigenic Receptor Signaling Pathway
Glycerophospholipid Metabolism
Mitochondrial Dysfunction
AMPK Signaling
Inositol Phosphate Metabolism
CXCR4 Signaling
Tight Junction Signaling
Acute Phase Response Signaling
NF-κB Signaling
Wnt/β-catenin Signaling
PPARα/RXRα Activation
IL-8 Signaling
Role of NFAT in Regulation of the Immune Response
Production of Nitric Oxide and Reactive Oxygen Species in Macrophages
Sertoli Cell-Sertoli Cell Junction Signaling
ILK Signaling
Leukocyte Extravasation Signaling


Thrombin Signaling
PKCθ Signaling in T Lymphocytes
G-Protein Coupled Receptor Signaling
Role of RIG1-like Receptors in Antiviral Innate Immunity
Activation of IRF by Cytosolic Pattern Recognition Receptors
Lymphotoxin β Receptor Signaling
Prolactin Signaling
PPAR Signaling
Aminoacyl-tRNA Biosynthesis
Retinol Metabolism
Granzyme A Signaling
Valine, Leucine and Isoleucine Biosynthesis
BMP signaling pathway
Arginine and Proline Metabolism
Relaxin Signaling
Aminosugars Metabolism
p53 Signaling
Altered T Cell and B Cell Signaling in Rheumatoid Arthritis


TGF-β Signaling
Molecular Mechanisms of Cancer
FXR/RXR Activation
Renal Cell Carcinoma Signaling
Cardiac β-adrenergic Signaling
Hereditary Breast Cancer Signaling
HIF1α Signaling