Table S8: Functional Annotation TNT 1.85 mg/L

Biological Functions	p-Value
Cellular Assembly and Organization	2.79E-04
RNA Post-Transcriptional Modification	2.99E-04
RNA Post-Transcriptional Modification	3.06E-04
RNA Post-Transcriptional Modification	3.90E-04
Infectious Disease	5.86E-04
Energy Production	6.64E-04
Small Molecule Biochemistry	6.64E-04
Hereditary Disorder	1.01E-03
Ophthalmic Disease	1.01E-03
Hereditary Disorder	1.21E-03
Ophthalmic Disease	1.21E-03
Small Molecule Biochemistry	1.66E-03
Drug Metabolism	1.66E-03
Lipid Metabolism	1.66E-03
Vitamin and Mineral Metabolism	1.66E-03
RNA Post-Transcriptional Modification	1.88E-03
Cancer	1.91E-03
Immunological Disease	1.91E-03
Cellular Assembly and Organization	2.17E-03
Cell Morphology	2.17E-03
Small Molecule Biochemistry	3.40E-03
Nucleic Acid Metabolism	3.40E-03
Cellular Assembly and Organization	3.75E-03
Hereditary Disorder	4.37E-03
Immunological Disease	4.37E-03
Developmental Disorder	4.37E-03
Metabolic Disease	4.37E-03
Hereditary Disorder	4.37E-03
Immunological Disease	4.37E-03
Hereditary Disorder	4.37E-03
Developmental Disorder	4.37E-03
Metabolic Disease	4.37E-03
Neurological Disease	4.37E-03
Cell Cycle	4.37E-03
Embryonic Development	4.37E-03
Cell Cycle	4.37E-03
Cell Cycle	4.37E-03
Cellular Development	4.37E-03
Cellular Growth and Proliferation	4.37E-03
Cell Cycle	4.37E-03
DNA Replication, Recombination, and	4.37E-03
Hereditary Disorder	4.37E-03
Neurological Disease	4.37E-03
Hereditary Disorder	4.37E-03
Neurological Disease	4.37E-03
Carbohydrate Metabolism	4.37E-03

Toxicological Functions	p-value
Renal Inflammation	4.12E-03
Renal Nephritis	4.12E-03
Cardiac Necrosis/Cell Death	4.58E-02
Liver Cholestasis	7.95E-02
Renal Necrosis/Cell Death	8.58E-02
Renal Damage	1.21E-01
Renal Tubule Injury	1.21E-01
Kidney Failure	1.50E-01
Liver Steatosis	1.74E-01
Liver Steatosis	2.85E-01

Toxicological Lists	p-value
Fatty Acid Metabolism	0.01514
Cardiac Necrosis/Cell Death	0.01738
Xenobiotic Metabolism Signal	0.0182
Glutathione Depletion - CYP I	0.05129
Increases Renal Proliferation	0.07943
Nongenotoxic Hepatocarcinog	0.0912
Increases Cardiac Dilation	0.11169
CAR/RXR Activation	0.1194
Mitochondrial Dysfunction	0.1219
Cell Cycle: G2/M DNA Damag	0.18621
Cell Cycle: G1/S Checkpoint F	0.24155
PXR/RXR Activation	0.25468
Decreases Transmembrane P	0.34119
Hepatic Cholestasis	0.46881
Aryl Hydrocarbon Receptor Si	0.50119
Cardiac Fibrosis	0.52723
RAR Activation	0.53703
PPARα/RXRα Activation	0.54576
NF-κB Signaling	0.59704

Small Molecule Biochemistry	4.37E-03
Drug Metabolism	4.37E-03
Vitamin and Mineral Metabolism	4.37E-03
Amino Acid Metabolism	4.37E-03
Embryonic Development	4.37E-03
Cell Cycle	4.37E-03
Hereditary Disorder	4.37E-03
Neurological Disease	4.37E-03
Cellular Assembly and Organization	4.37E-03
Cellular Development	4.37E-03
Embryonic Development	4.37E-03
Organ Development	4.37E-03
Organismal Development	4.37E-03
Tissue Development	4.37E-03
Visual System Development and Func	4.37E-03
Lymphoid Tissue Structure and Devel	4.37E-03
Hereditary Disorder	4.37E-03
Developmental Disorder	4.37E-03
Gastrointestinal Disease	4.37E-03
Hepatic System Disease	4.37E-03
Metabolic Disease	4.37E-03
Cellular Movement	4.37E-03
Connective Tissue Development and F	4.37E-03
Immunological Disease	4.37E-03
Hematological Disease	4.37E-03
Cancer	4.37E-03
Cardiovascular Disease	4.37E-03
Skeletal and Muscular Disorders	4.37E-03
Hereditary Disorder	4.37E-03
Ophthalmic Disease	4.37E-03
Visual System Development and Func	4.37E-03
Cell-To-Cell Signaling and Interaction	4.37E-03
Nervous System Development and Fu	4.37E-03
Cell Death and Survival	4.37E-03
Hereditary Disorder	4.37E-03
Developmental Disorder	4.37E-03
Metabolic Disease	4.37E-03
Renal and Urological Disease	4.37E-03
Cell Death and Survival	4.37E-03
Neurological Disease	4.37E-03
Hereditary Disorder	4.37E-03
Metabolic Disease	4.37E-03
Cellular Movement	4.37E-03
Nervous System Development and Fu	4.37E-03
Cell Death and Survival	4.37E-03
Cellular Assembly and Organization	4.37E-03
Cellular Assembly and Organization	4.37E-03
Small Molecule Biochemistry	4.37E-03
Nucleic Acid Metabolism	4.37E-03

Cell-To-Cell Signaling and Interaction	4.37E-03
Cell-To-Cell Signaling and Interaction	4.37E-03
Hereditary Disorder	4.37E-03
Ophthalmic Disease	4.37E-03
Cellular Assembly and Organization	4.37E-03
Cell Morphology	4.37E-03
Hereditary Disorder	4.37E-03
Connective Tissue Disorders	4.37E-03
Developmental Disorder	4.37E-03
Neurological Disease	4.37E-03
Skeletal and Muscular Disorders	4.37E-03
Hereditary Disorder	4.37E-03
Developmental Disorder	4.37E-03
Metabolic Disease	4.37E-03
Cellular Assembly and Organization	4.37E-03
Post-Translational Modification	5.23E-03
Hereditary Disorder	7.38E-03
Developmental Disorder	7.38E-03
Metabolic Disease	7.38E-03
Lymphoid Tissue Structure and Devel	7.57E-03
Nervous System Development and Fu	7.57E-03
Behavior	7.57E-03
Cancer	7.76E-03
Reproductive System Disease	7.76E-03
Post-Translational Modification	8.31E-03
Tissue Morphology	8.72E-03
Small Molecule Biochemistry	8.72E-03
Lipid Metabolism	8.72E-03
Immunological Disease	8.72E-03
Hematological Disease	8.72E-03
Cell Death and Survival	8.72E-03
Hematological System Development a	8.72E-03
Cell Death and Survival	8.72E-03
Hematological System Development a	8.72E-03
Cell Death and Survival	8.72E-03
Hematological System Development a	8.72E-03
Hereditary Disorder	8.72E-03
Ophthalmic Disease	8.72E-03
Developmental Disorder	8.72E-03
Hereditary Disorder	8.72E-03
Metabolic Disease	8.72E-03
Cellular Assembly and Organization	8.72E-03
Tissue Development	8.72E-03
Cellular Function and Maintenance	8.72E-03
Cell Death and Survival	8.72E-03
Cellular Assembly and Organization	8.72E-03
Cell-To-Cell Signaling and Interaction	8.72E-03
Tissue Development	8.72E-03
Cellular Function and Maintenance	8.72E-03

Cellular Assembly and Organization	8.72E-03
Connective Tissue Development and F	8.72E-03
Embryonic Development	8.72E-03
Organ Development	8.72E-03
Organismal Development	8.72E-03
Tissue Development	8.72E-03
Skeletal and Muscular System Develo	8.72E-03
Cellular Assembly and Organization	8.72E-03
Cellular Assembly and Organization	8.72E-03
Cancer	8.72E-03
Embryonic Development	8.72E-03
Cell Death and Survival	8.72E-03
Visual System Development and Func	8.72E-03
Hereditary Disorder	8.72E-03
Hematological Disease	8.72E-03
Hereditary Disorder	8.72E-03
Hematological Disease	8.72E-03
Energy Production	8.72E-03
Small Molecule Biochemistry	8.72E-03
Drug Metabolism	8.72E-03
Amino Acid Metabolism	8.72E-03
Post-Translational Modification	8.72E-03
Energy Production	8.72E-03
Small Molecule Biochemistry	8.72E-03
Energy Production	8.72E-03
Small Molecule Biochemistry	8.72E-03
Embryonic Development	8.72E-03
Nervous System Development and Fu	8.72E-03
Organ Development	8.72E-03
Cellular Assembly and Organization	8.72E-03
Cellular Assembly and Organization	8.72E-03
Cellular Assembly and Organization	8.72E-03
Hematological System Development a	8.72E-03
Infectious Disease	8.72E-03
Small Molecule Biochemistry	8.72E-03
Lipid Metabolism	8.72E-03
Vitamin and Mineral Metabolism	8.72E-03
Behavior	8.72E-03
Cell Death and Survival	1.08E-02
Hereditary Disorder	1.20E-02
Neurological Disease	1.20E-02
Protein Trafficking	1.24E-02
Cellular Function and Maintenance	1.26E-02
Hematological System Development a	1.26E-02
Tissue Morphology	1.30E-02
Small Molecule Biochemistry	1.30E-02
Amino Acid Metabolism	1.30E-02
Post-Translational Modification	1.30E-02
Cell-To-Cell Signaling and Interaction	1.30E-02

Connective Tissue Development and F	1.30E-02
Embryonic Development	1.30E-02
Organ Development	1.30E-02
Organismal Development	1.30E-02
Tissue Development	1.30E-02
Skeletal and Muscular System Develo	1.30E-02
Hereditary Disorder	1.30E-02
Neurological Disease	1.30E-02
Cellular Assembly and Organization	1.30E-02
Cell-To-Cell Signaling and Interaction	1.30E-02
Tissue Development	1.30E-02
Renal and Urological System Develop	1.30E-02
Small Molecule Biochemistry	1.30E-02
Lipid Metabolism	1.30E-02
Vitamin and Mineral Metabolism	1.30E-02
Molecular Transport	1.30E-02
Small Molecule Biochemistry	1.30E-02
Lipid Metabolism	1.30E-02
Vitamin and Mineral Metabolism	1.30E-02
Molecular Transport	1.30E-02
Embryonic Development	1.30E-02
Organ Development	1.30E-02
Organismal Development	1.30E-02
Tissue Development	1.30E-02
Visual System Development and Func	1.30E-02
Connective Tissue Development and F	1.30E-02
Embryonic Development	1.30E-02
Organ Development	1.30E-02
Organismal Development	1.30E-02
Tissue Development	1.30E-02
Skeletal and Muscular System Develo	1.30E-02
Cellular Assembly and Organization	1.30E-02
Cellular Assembly and Organization	1.30E-02
Nervous System Development and Fu	1.30E-02
Cellular Function and Maintenance	1.30E-02
Cell-mediated Immune Response	1.30E-02
Inflammatory Response	1.30E-02
Cellular Movement	1.30E-02
Immune Cell Trafficking	1.30E-02
Renal and Urological Disease	1.30E-02
Inflammatory Disease	1.30E-02
Inflammatory Response	1.30E-02
Neurological Disease	1.30E-02
Behavior	1.30E-02
Cellular Assembly and Organization	1.30E-02
Nervous System Development and Fu	1.30E-02
Visual System Development and Func	1.30E-02
Cell Signaling	1.30E-02
Cellular Assembly and Organization	1.30E-02

Cell Morphology	1.30E-02
Cellular Assembly and Organization	1.30E-02
Hair and Skin Development and Funct	1.30E-02
Cellular Development	1.32E-02
Embryonic Development	1.32E-02
Organ Development	1.32E-02
Organismal Development	1.32E-02
Tissue Development	1.32E-02
Visual System Development and Func	1.32E-02
Cellular Development	1.32E-02
Cellular Growth and Proliferation	1.32E-02
Hematological System Development a	1.32E-02
Hereditary Disorder	1.67E-02
Digestive System Development and F	1.74E-02
Hepatic System Development and Fur	1.74E-02
Organ Morphology	1.74E-02
Small Molecule Biochemistry	1.74E-02
Lipid Metabolism	1.74E-02
Vitamin and Mineral Metabolism	1.74E-02
Molecular Transport	1.74E-02
Ophthalmic Disease	1.74E-02
Protein Degradation	1.74E-02
Protein Synthesis	1.74E-02
Cellular Assembly and Organization	1.74E-02
Hair and Skin Development and Funct	1.74E-02
Infectious Disease	1.74E-02
Cell-mediated Immune Response	1.74E-02
Hematopoiesis	1.74E-02
Hereditary Disorder	1.74E-02
Ophthalmic Disease	1.74E-02
Cancer	1.74E-02
Immunological Disease	1.74E-02
Carbohydrate Metabolism	1.74E-02
Molecular Transport	1.74E-02
Tumor Morphology	1.74E-02
Cellular Assembly and Organization	1.74E-02
Cellular Assembly and Organization	1.74E-02
Cell Morphology	1.74E-02
Small Molecule Biochemistry	1.74E-02
Drug Metabolism	1.74E-02
Amino Acid Metabolism	1.74E-02
Cancer	1.74E-02
Skeletal and Muscular Disorders	1.74E-02
Tissue Morphology	1.74E-02
Post-Translational Modification	1.79E-02
Protein Synthesis	1.79E-02
Protein Synthesis	1.79E-02
Cell Death and Survival	1.82E-02
Infectious Disease	1.87E-02

Protein Synthesis	1.87E-02
Gene Expression	1.87E-02
Infectious Disease	1.92E-02
Molecular Transport	1.94E-02
RNA Trafficking	1.94E-02
Cancer	2.08E-02
Reproductive System Disease	2.08E-02
Endocrine System Disorders	2.08E-02
Hematological Disease	2.17E-02
Respiratory Disease	2.17E-02
Small Molecule Biochemistry	2.17E-02
Cell Morphology	2.17E-02
Embryonic Development	2.17E-02
Organ Development	2.17E-02
Organismal Development	2.17E-02
Small Molecule Biochemistry	2.17E-02
Lipid Metabolism	2.17E-02
Endocrine System Development and F	2.17E-02
Cellular Assembly and Organization	2.17E-02
Infectious Disease	2.17E-02
Neurological Disease	2.17E-02
Inflammatory Disease	2.17E-02
Cell Death and Survival	2.17E-02
Organ Morphology	2.17E-02
Cancer	2.17E-02
Cell Signaling	2.17E-02
Cellular Assembly and Organization	2.17E-02
Cellular Function and Maintenance	2.17E-02
Small Molecule Biochemistry	2.17E-02
Carbohydrate Metabolism	2.17E-02
Molecular Transport	2.17E-02
Small Molecule Biochemistry	2.17E-02
Nucleic Acid Metabolism	2.17E-02
Small Molecule Biochemistry	2.17E-02
Nucleic Acid Metabolism	2.17E-02
Cell Signaling	2.17E-02
Protein Synthesis	2.33E-02
Cellular Assembly and Organization	2.59E-02
Hair and Skin Development and Funct	2.59E-02
Inflammatory Response	2.59E-02
Cellular Compromise	2.59E-02
Small Molecule Biochemistry	2.59E-02
Drug Metabolism	2.59E-02
Lipid Metabolism	2.59E-02
Endocrine System Development and F	2.59E-02
Tissue Development	2.59E-02
Inflammatory Response	2.59E-02
Cell Morphology	2.59E-02
Embryonic Development	2.59E-02

Organ Development	2.59E-02
Organismal Development	2.59E-02
Tissue Development	2.59E-02
Visual System Development and Func	2.59E-02
Tissue Morphology	2.59E-02
Organ Morphology	2.59E-02
Vitamin and Mineral Metabolism	2.59E-02
Cell Signaling	2.59E-02
Infectious Disease	2.59E-02
Skeletal and Muscular System Develo	2.59E-02
Embryonic Development	2.59E-02
Organ Development	2.59E-02
Organismal Development	2.59E-02
Tissue Development	2.59E-02
Visual System Development and Func	2.59E-02
Organ Morphology	2.59E-02
Cell Signaling	2.59E-02
Small Molecule Biochemistry	2.59E-02
Nucleic Acid Metabolism	2.59E-02
Small Molecule Biochemistry	2.59E-02
Drug Metabolism	2.59E-02
Small Molecule Biochemistry	2.75E-02
Nucleic Acid Metabolism	2.75E-02
Cell Morphology	3.02E-02
Embryonic Development	3.02E-02
Organ Development	3.02E-02
Organismal Development	3.02E-02
Tissue Development	3.02E-02
Visual System Development and Func	3.02E-02
Tissue Morphology	3.02E-02
Organ Morphology	3.02E-02
Tissue Morphology	3.02E-02
Embryonic Development	3.02E-02
Organ Development	3.02E-02
Organismal Development	3.02E-02
Tissue Development	3.02E-02
Auditory and Vestibular System Devel	3.02E-02
Cardiovascular System Development a	3.02E-02
Cellular Movement	3.02E-02
Small Molecule Biochemistry	3.02E-02
Vitamin and Mineral Metabolism	3.02E-02
Cell Signaling	3.02E-02
Molecular Transport	3.02E-02
Small Molecule Biochemistry	3.02E-02
Nucleic Acid Metabolism	3.02E-02
Cellular Movement	3.02E-02
Connective Tissue Development and F	3.02E-02
Skeletal and Muscular System Develo	3.02E-02
Cellular Movement	3.02E-02

Hematological System Development a	3.02E-02
Immune Cell Trafficking	3.02E-02
Inflammatory Response	3.02E-02
Behavior	3.02E-02
Cell-To-Cell Signaling and Interaction	3.02E-02
Hematological System Development a	3.02E-02
Cellular Assembly and Organization	3.02E-02
Cellular Function and Maintenance	3.02E-02
Cellular Assembly and Organization	3.02E-02
Cellular Function and Maintenance	3.02E-02
Cell Morphology	3.37E-02
Organ Morphology	3.44E-02
Embryonic Development	3.44E-02
Organ Development	3.44E-02
Organismal Development	3.44E-02
Tissue Development	3.44E-02
Visual System Development and Func	3.44E-02
Organ Morphology	3.44E-02
Cell Cycle	3.44E-02
Cellular Assembly and Organization	3.44E-02
Cellular Function and Maintenance	3.44E-02
Molecular Transport	3.44E-02
Carbohydrate Metabolism	3.44E-02
Cellular Assembly and Organization	3.44E-02
Cell Morphology	3.44E-02
Cellular Development	3.44E-02
Embryonic Development	3.44E-02
Organ Development	3.44E-02
Organismal Development	3.44E-02
Tissue Development	3.44E-02
Visual System Development and Func	3.44E-02
Cancer	3.44E-02
Cellular Development	3.44E-02
Cellular Growth and Proliferation	3.44E-02
Organ Development	3.44E-02
Respiratory Disease	3.44E-02
Energy Production	3.44E-02
Small Molecule Biochemistry	3.44E-02
Nucleic Acid Metabolism	3.44E-02
DNA Replication, Recombination, and	3.44E-02
Energy Production	3.44E-02
Small Molecule Biochemistry	3.44E-02
Small Molecule Biochemistry	3.44E-02
Nucleic Acid Metabolism	3.44E-02
Molecular Transport	3.44E-02
Molecular Transport	3.44E-02
Visual System Development and Func	3.44E-02
Tissue Morphology	3.44E-02
Cellular Assembly and Organization	3.44E-02

Cellular Function and Maintenance	3.44E-02
Infectious Disease	3.44E-02
Cellular Assembly and Organization	3.44E-02
Cellular Function and Maintenance	3.44E-02
Cellular Function and Maintenance	3.44E-02
Cellular Growth and Proliferation	3.56E-02
Cell-To-Cell Signaling and Interaction	3.66E-02
Hematological System Development a	3.66E-02
Immune Cell Trafficking	3.66E-02
Inflammatory Response	3.66E-02
Cancer	3.67E-02
Infectious Disease	3.67E-02
Cell Morphology	3.86E-02
Embryonic Development	3.86E-02
Nervous System Development and Fu	3.86E-02
Organ Development	3.86E-02
Organismal Development	3.86E-02
Tissue Development	3.86E-02
Visual System Development and Func	3.86E-02
Tissue Morphology	3.86E-02
Organ Morphology	3.86E-02
DNA Replication, Recombination, and	3.86E-02
Cancer	3.86E-02
Hematological Disease	3.86E-02
Inflammatory Response	3.86E-02
Cellular Compromise	3.86E-02
Behavior	3.86E-02
Visual System Development and Func	3.86E-02
Cellular Function and Maintenance	3.86E-02
DNA Replication, Recombination, and	3.86E-02
Organismal Functions	3.86E-02
Energy Production	3.86E-02
Small Molecule Biochemistry	3.86E-02
Lipid Metabolism	3.86E-02
Vitamin and Mineral Metabolism	3.86E-02
Energy Production	3.86E-02
Small Molecule Biochemistry	3.86E-02
Lipid Metabolism	3.86E-02
Vitamin and Mineral Metabolism	3.86E-02
DNA Replication, Recombination, and	3.86E-02
Small Molecule Biochemistry	3.86E-02
Nucleic Acid Metabolism	3.86E-02
Carbohydrate Metabolism	3.86E-02
Cellular Movement	3.86E-02
Hematological System Development a	3.86E-02
Immune Cell Trafficking	3.86E-02
Inflammatory Response	3.86E-02
Visual System Development and Func	3.86E-02
Cancer	4.05E-02

Gastrointestinal Disease	4.05E-02
Cell Morphology	4.28E-02
Embryonic Development	4.28E-02
Organ Development	4.28E-02
Organismal Development	4.28E-02
Tissue Development	4.28E-02
Visual System Development and Func	4.28E-02
Tissue Morphology	4.28E-02
Organ Morphology	4.28E-02
Organ Morphology	4.28E-02
Cell Morphology	4.28E-02
Embryonic Development	4.28E-02
Organ Development	4.28E-02
Organismal Development	4.28E-02
Tissue Development	4.28E-02
Visual System Development and Func	4.28E-02
Tissue Morphology	4.28E-02
Organ Morphology	4.28E-02
Hematological Disease	4.28E-02
Metabolic Disease	4.28E-02
Cell Cycle	4.28E-02
Cell Morphology	4.28E-02
Embryonic Development	4.28E-02
Organ Development	4.28E-02
Organismal Development	4.28E-02
Hematopoiesis	4.28E-02
Cellular Development	4.28E-02
Cellular Assembly and Organization	4.28E-02
Cell Morphology	4.28E-02
Cellular Development	4.28E-02
Cellular Growth and Proliferation	4.28E-02
Hematological System Development a	4.28E-02
Embryonic Development	4.28E-02
Organismal Development	4.28E-02
Tissue Development	4.28E-02
Immunological Disease	4.28E-02
Cancer	4.28E-02
Hematological Disease	4.28E-02
Cellular Assembly and Organization	4.28E-02
Cell Morphology	4.28E-02
Small Molecule Biochemistry	4.28E-02
Drug Metabolism	4.28E-02
Lipid Metabolism	4.28E-02
Vitamin and Mineral Metabolism	4.28E-02
Cancer	4.36E-02
Reproductive System Disease	4.36E-02
Endocrine System Disorders	4.36E-02
Cell Death and Survival	4.57E-02
Cell Morphology	4.70E-02

Cellular Movement	4.70E-02
Hematological System Development a	4.70E-02
Cell-mediated Immune Response	4.70E-02
Immune Cell Trafficking	4.70E-02
Small Molecule Biochemistry	4.70E-02
Drug Metabolism	4.70E-02
Lipid Metabolism	4.70E-02
Vitamin and Mineral Metabolism	4.70E-02
Molecular Transport	4.70E-02
Embryonic Development	4.70E-02
Organismal Development	4.70E-02
Tissue Development	4.70E-02
Cellular Development	4.70E-02
Embryonic Development	4.70E-02
Lymphoid Tissue Structure and Devel	4.70E-02
Organ Development	4.70E-02
Organismal Development	4.70E-02
Tissue Development	4.70E-02
Hematological System Development a	4.70E-02
Hematopoiesis	4.70E-02
Cell-To-Cell Signaling and Interaction	4.70E-02
Hematological System Development a	4.70E-02
Immune Cell Trafficking	4.70E-02
Inflammatory Response	4.70E-02
Small Molecule Biochemistry	4.70E-02
Drug Metabolism	4.70E-02
Vitamin and Mineral Metabolism	4.70E-02
Amino Acid Metabolism	4.70E-02
Molecular Transport	4.70E-02
Tissue Morphology	4.70E-02
Cellular Compromise	4.70E-02
Carbohydrate Metabolism	4.70E-02
Small Molecule Biochemistry	4.70E-02
Drug Metabolism	4.70E-02
Cell-To-Cell Signaling and Interaction	4.70E-02
Carbohydrate Metabolism	4.85E-02
Cellular Assembly and Organization	4.89E-02
Cellular Compromise	4.89E-02
Vitamin and Mineral Metabolism	5.00E-02

Canonical Pathways	pvalue
Protein Ubiquitination Pathway	2E-06
Formaldehyde Oxidation II (Glutathione-d	0.0005
Ethanol Degradation II	0.0009
Noradrenaline and Adrenaline Degradatio	0.0015
Lipid Antigen Presentation by CD1	0.0034
Serotonin Degradation	0.0043
CTLA4 Signaling in Cytotoxic T Lymphocy	0.0076
mTOR Signaling	0.0107
Systemic Lupus Erythematosus Signaling	0.0166
Sulfite Oxidation IV	0.0174
Regulation of eIF4 and p70S6K Signaling	0.0282
Superpathway of Methionine Degradation	0.0316
Pentose Phosphate Pathway (Oxidative Br	0.0427
Cyclins and Cell Cycle Regulation	0.0468
Heme Degradation	0.0468
EIF2 Signaling	0.0479
Methylmalonyl Pathway	0.0513
Glycogen Biosynthesis II (from UDP-D-Glu	0.0513
Serine Biosynthesis	0.055
Dopamine Receptor Signaling	0.0575
Catecholamine Biosynthesis	0.0631
2-oxobutanoate Degradation I	0.0724
Fatty Acid α-oxidation	0.0724
Superpathway of Serine and Glycine Biosy	0.0759
Pentose Phosphate Pathway	0.0912
Urate Biosynthesis/Inosine 5'-phosphate I	0.0955
γ-linolenate Biosynthesis II (Animals)	0.1
Role of Lipids/Lipid Rafts in the Pathogene	0.1038
Antiproliferative Role of TOB in T Cell Sign	0.1076
Histamine Degradation	0.1117
Tryptophan Degradation X (Mammalian, v	0.1153
Oxidative Ethanol Degradation III	0.1153
Putrescine Degradation III	0.1194
Ethanol Degradation IV	0.1194
Xenobiotic Metabolism Signaling	0.1315
Glioblastoma Multiforme Signaling	0.1413
Cell Cycle Regulation by BTG Family Prote	0.1422
Purine Nucleotides Degradation II (Aerobi	0.1422
Nucleotide Excision Repair Pathway	0.1422
Retinoate Biosynthesis I	0.1459
Mitochondrial Dysfunction	0.1472
Dopamine Degradation	0.1496
Antigen Presentation Pathway	0.1496
Wnt/β-catenin Signaling	0.1718
Purine Nucleotides De Novo Biosynthesis	0.1718
Cell Cycle: G2/M DNA Damage Checkpoin	0.1718

Role of Oct4 in Mammalian Embryonic Ste	0.1791
iNOS Signaling	0.1862
Molecular Mechanisms of Cancer	0.1923
Production of Nitric Oxide and Reactive Ox	0.195
ILK Signaling	0.1968
Assembly of RNA Polymerase II Complex	0.1968
Clathrin-mediated Endocytosis Signaling	0.1982
IL-8 Signaling	0.1982
Semaphorin Signaling in Neurons	0.2037
GABA Receptor Signaling	0.2037
Role of CHK Proteins in Cell Cycle Checkp	0.2143
Actin Nucleation by ARP-WASP Complex	0.2178
Toll-like Receptor Signaling	0.2178
Retinol Biosynthesis	0.2213
Glioma Invasiveness Signaling	0.2244
Cell Cycle: G1/S Checkpoint Regulation	0.235
Phototransduction Pathway	0.235
Protein Kinase A Signaling	0.2404
Role of Osteoblasts, Osteoclasts and Chon	0.2529
Mitotic Roles of Polo-Like Kinase	0.2547
Huntington's Disease Signaling	0.2594
Erythropoietin Signaling	0.2642
PXR/RXR Activation	0.2679
Basal Cell Carcinoma Signaling	0.2679
IL-10 Signaling	0.271
FLT3 Signaling in Hematopoietic Progenito	0.2773
Ephrin B Signaling	0.2805
Caveolar-mediated Endocytosis Signaling	0.2838
Colorectal Cancer Metastasis Signaling	0.2871
Role of Wnt/GSK-3β Signaling in the Path	0.2897
tRNA Charging	0.2992
Ceramide Signaling	0.3055
Regulation of Actin-based Motility by Rho	0.3083
Factors Promoting Cardiogenesis in Verteb	0.3177
RANK Signaling in Osteoclasts	0.3206
CDK5 Signaling	0.3296
HMGB1 Signaling	0.335
IL-1 Signaling	0.3381
Virus Entry via Endocytic Pathways	0.3412
Mouse Embryonic Stem Cell Pluripotency	0.3412
Fcγ Receptor-mediated Phagocytosis in M	0.3499
Telomerase Signaling	0.3556
T Cell Receptor Signaling	0.3614
HIF1α Signaling	0.3698
Cholecystokinin/Gastrin-mediated Signali	0.3724
Role of NANOG in Mammalian Embryonic	0.3802
Role of Macrophages, Fibroblasts and End	0.389
Sphingosine-1-phosphate Signaling	0.3908
Androgen Signaling	0.3936

p38 MAPK Signaling	0.4018
Hereditary Breast Cancer Signaling	0.4046
14-3-3-mediated Signaling	0.4074
PTEN Signaling	0.4121
D-myo-inositol (1,4,5,6)-Tetrakisphospha	0.4198
D-myo-inositol (3,4,5,6)-tetrakisphosphat	0.4198
p70S6K Signaling	0.4227
Estrogen Receptor Signaling	0.4276
PI3K/AKT Signaling	0.4305
PI3K Signaling in B Lymphocytes	0.4426
Ovarian Cancer Signaling	0.4446
Insulin Receptor Signaling	0.455
Human Embryonic Stem Cell Pluripotency	0.4571
Cardiac β-adrenergic Signaling	0.4571
D-myo-inositol-5-phosphate Metabolism	0.4624
3-phosphoinositide Degradation	0.4645
Aryl Hydrocarbon Receptor Signaling	0.4688
Hepatic Cholestasis	0.4764
AMPK Signaling	0.4764
Synaptic Long Term Depression	0.4786
Tight Junction Signaling	0.4898
Gαq Signaling	0.4943
Germ Cell-Sertoli Cell Junction Signaling	0.5012
CXCR4 Signaling	0.5035
3-phosphoinositide Biosynthesis	0.5035
Aldosterone Signaling in Epithelial Cells	0.5093
NF-κB Signaling	0.52
Dopamine-DARPP32 Feedback in cAMP Sig	0.5346
RhoGDI Signaling	0.5433
PPARα/RXRα Activation	0.5458
RAR Activation	0.5458
NRF2-mediated Oxidative Stress Respons	0.547
CREB Signaling in Neurons	0.547
Axonal Guidance Signaling	0.5662
ERK/MAPK Signaling	0.5662
Thrombin Signaling	0.5768
Integrin Signaling	0.5781
Breast Cancer Regulation by Stathmin1	0.5794
Superpathway of Inositol Phosphate Compl	0.597
LPS/IL-1 Mediated Inhibition of RXR Functi	0.6223