SUPPLEMENTARY MATERIAL

Figure S1A

B. Inflammatory disease
- 22.22% Immunological Disease, Inflammatory Disease, Inflammatory Response, Neurological Disease, Organismal Injury and Abnormalities
- 38.89% Connective Tissue Disorders, Inflammatory Disease, Inflammatory Response, Organismal Injury and Abnormalities, Respiratory Disease
- 38.89% Inflammatory Disease, Inflammatory Response, Organismal Injury and Abnormalities, Renal and Urological Disease

C. Inflammatory response
- 14.58% Connective Tissue Disorders, Inflammatory Disease, Inflammatory Response, Organismal Injury and Abnormalities, Respiratory Disease
- 14.58% Inflammatory Disease, Inflammatory Response, Organismal Injury and Abnormalities, Renal and Urological Disease
- 25% Inflammatory Response, Organismal Injury and Abnormalities
- 27.08% Inflammatory Response
- 4.17% Cell-To-Cell Signaling and Interaction, Cellular Function and Maintenance, Inflammatory Response
- 6.25% Cell-To-Cell Signaling and Interaction, Cellular Function and Maintenance, Hematological System Development and Function, Inflammatory Response
- 8.33% Immunological Disease, Inflammatory Disease, Inflammatory Response, Neurological Disease, Organismal Injury and Abnormalities

D. Connective tissue disorders
- 30% Cancer, Connective Tissue Disorders, Organismal Injury and Abnormalities
- 70% Connective Tissue Disorders, Inflammatory Disease, Inflammatory Response, Organismal Injury and Abnormalities, Respiratory Disease
E. Immunological disease

- 13.04% Immunological Disease
- 17.39% Immunological Disease, Inflammatory Disease, Inflammatory Response, Neurological Disease, Organismal Injury and Abnormalities
- 4.35% Hematological Disease, Immunological Disease
- 56.52% Cancer, Hematological Disease, Immunological Disease, Organismal Injury and Abnormalities
- 8.7% Cardiovascular Disease, DNA Replication, Recombination, and Repair, Developmental Disorder, Endocrine System Disorders, Hereditary Disorder, Immunological Disease, Neurological Disease, Organismal Injury and Abnormalities

F. Cellular development

- 18.18% Cancer, Cellular Development, Cellular Growth and Proliferation, Organismal Injury and Abnormalities, Tumor Morphology
- 18.18% Cellular Development, Cellular Growth and Proliferation
- 27.27% Cellular Development
- 9.09% Cancer, Cellular Development, Cellular Growth and Proliferation, Organismal Injury and Abnormalities, Respiratory Disease, Tumor Morphology
- 9.09% Cellular Development, Hematological System Development and Function
Figure S2A

a. Organismal injury and abnormality

b. Cancer

c. Metabolic Disease
Figure S2B

a. Organismal injury and abnormality

- 0.69% Cancer, Cellular Development, Cellular Growth and Proliferation, Organismal Injury and Abnormalities, Respiratory Disease, Tumor Morphology
- 0.69% Cancer, Gastrointestinal Disease, Organismal Injury and Abnormalities
- 0.69% Cardiovascular Disease, Organismal Injury and Abnormalities, Tissue Morphology
- 0.69% Cellular Compromise, Organismal Injury and Abnormalities
- 1.38% Cancer, Cellular Development, Cellular Growth and Proliferation, Organismal Injury and Abnormalities, Tumor Morphology
- 1.38% Cancer, Endocrine System Disorders, Organismal Injury and Abnormalities
- 1.38% Cancer, Neurological Disease, Organismal Injury and Abnormalities
- 1.38% Cardiovascular Disease, DNA Replication, Recombination, and Repair, Developmental Disorder, Endocrine System Disorders, Hereditary Disorder, Immunological Disease, Neurological Disease, Organismal Injury and Abnormalities
- 1.38% Cardiovascular Disease, Organismal Injury and Abnormalities
- 1.38% Endocrine System Disorders, Gastrointestinal Disease, Hepatic System Disease, Metabolic Disease, Organismal Injury and Abnormalities
- 1.38% Organismal Injury and Abnormalities, Skeletal and Muscular Disorders
- 11.72% Endocrine System Disorders, Gastrointestinal Disease, Metabolic Disease, Organismal Injury and Abnormalities
- 12.41% Cancer, Organismal Injury and Abnormalities
- 2.07% Cancer, Connective Tissue Disorders, Organismal Injury and Abnormalities
- 2.07% Cancer, Organismal Injury and Abnormalities, Reproductive System Disease, Skeletal and Muscular Disorders
- 2.76% Immunological Disease, Inflammatory Disease, Inflammatory Response, Neurological Disease, Organismal Injury and Abnormalities
- 2.76% Organismal Injury and Abnormalities
- 4.14% Dermatological Diseases and Conditions, Organismal Injury and Abnormalities
- 4.83% Cancer, Gastrointestinal Disease, Organismal Injury and Abnormalities, Respiratory Disease
- 4.83% Connective Tissue Disorders, Immunological Disease, Inflammatory Response, Organismal Injury and Abnormalities, Respiratory Disease
- 4.83% Inflammatory Disease, Inflammatory Response, Organismal Injury and Abnormalities, Renal and Urological Disease
- 8.28% Cancer, Organismal Injury and Abnormalities, Reproductive System Disease
- 8.28% Inflammatory Response, Organismal Injury and Abnormalities
- 8.97% Cancer, Hematological Disease, Immunological Disease, Organismal Injury and Abnormalities
- 9.66% Organismal Injury and Abnormalities, Reproductive System Disease
b. Cancer

- 1.54%_Cancer
- 1.54%_Cancer, Cellular Development, Cellular Growth and Proliferation, Organismal Injury and Abnormalities, Respiratory Disease, Tumor Morphology
- 1.54%_Cancer, Gastrointestinal Disease, Organismal Injury and Abnormalities
- 10.77%_Cancer, Gastrointestinal Disease, Organismal Injury and Abnormalities, Respiratory Disease
- 18.46%_Cancer, Organismal Injury and Abnormalities, Reproductive System Disease
- 20%_Cancer, Hematological Disease, Immunological Disease, Organismal Injury and Abnormalities
- 27.69%_Cancer, Organismal Injury and Abnormalities
- 3.08%_Cancer, Cellular Development, Cellular Growth and Proliferation, Organismal Injury and Abnormalities, Tumor Morphology
- 3.08%_Cancer, Endocrine System Disorders, Organismal Injury and Abnormalities
- 3.08%_Cancer, Neurological Disease, Organismal Injury and Abnormalities
- 4.62%_Cancer, Connective Tissue Disorders, Organismal Injury and Abnormalities
- 4.62%_Cancer, Organismal Injury and Abnormalities, Reproductive System Disease, Skeletal and Muscular Disorders

c. Metabolic Disease

- 80.95%_Endocrine System Disorders, Gastrointestinal Disease, Metabolic Disease, Organismal Injury and Abnormalities
- 9.52%_Endocrine System Disorders, Gastrointestinal Disease, Hepatic System Disease, Metabolic Disease, Organismal Injury and Abnormalities
- 9.52%_Endocrine System Disorders, Hematological Disease, Metabolic Disease
Figure S3