TissGDB.md 9/3/2020

TissGDB: tissue-specific gene database in cancer

Xiaoni Bioinformatics paper01 09032020

- The **TissGDB Website** is here.
- Publication Link Nucleic Acids Res. 2018 Jan 4;46(D1):D1031-D1038. doi: 10.1093/nar/gkx850

Representative Tissue-Specific Gene Expression Resources

- The Human Protein Atlas (HPA)
- Tissue-specific Gene Expression and Regulation (TiGER)
- Genotype-Tissue Expression (GTEx)

Feature

- 2461 Tissue Specific Genes (TissGenes)
- Across 22 Tissue Types
- Match the 28 Cancer types of The Cancer Genome Atlas (TCGA)

Analyses

- Identified hundreds of TissGenes
- universally **kept** or **lost** tissue-specific gene expression
- cancer type-specific **isoform** expression
- **fusion** with oncogenes or tumor suppressor genes
- markers for protective or risk prognosis

Seven Categories of Annotations

- 1. TissGeneSummary
- 2. TissGeneExp
- 3. TissGene-miRNA
- 4. TissGeneMut 4.1 TissGeneSNV 4.2 TissGeneCNV 4.3 TissGeneFusions
- 5. TissGeneNet
 - CePIN
 - Cytoscape
 - **■** F
- 6. TissGeneProg 6.1 overall survival, OS 6.2 relapse free survival, RFS
- 7. TissGeneClin 7.1 TissGeneDrug 7.2 TissGeneDisease

