Immune-associated genes

791 genes from Amigo terms (GO:0002376: 505 genes) and additional genes related to cytokines, cell markers and immunomodulation (286 genes)

WGCNA analysis
6 modules
- Functional annotations
  - from the top 20 hug genes
  - associated with each module

Functional annotations
- from the genes associated with survival in each module

Survival associated IA genes
108 genes
- Methods:
  - Step-Cox
  - Quartile
  - Z-score

Association with GBM pathology

Survival IA gene risk model
6 genes
- Association with GBM patient survival

Association with GBM patient survival

Training cohort
- de Tayrac, 2011
  - GSE4271/ GSE4412
  - Affymetrix
  - 115 patients

Lee, 2008
- GSE 13041
- Affymetrix
- 161 patients

Verhaak, 2010
- TCGA
- Affymetrix
- 173 patients

Petalidis, 2008
- GSE2727
- Affymetrix
- 39 patients

Local 1
- Agilent
- 41 patients

Local 2
- RT-Q-PCR
- 57 patients

Methods:
- survival
- MGMT status
- GBM subtypes