A

**Function associations**

**Lung development**

- **Up-regulation**
  - GSE37745-AD
  - GSE32863
  - TCGA
  - GSE37745-SCC

- **Down-regulation**
  - GSE37745-AD
  - GSE11969
  - GSE26939
  - GSE32863
  - TCGA
  - GSE37745-SCC
  - GSE4573

**P-value**

- 0.10-1.00
- 0.05-0.10
- 0.01-0.05
- 0.001-0.01
- <0.001

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B

**Significant GO terms involved in the dev-can associations**

- Cell death
- Programmed cell death
- Biological adhesion
- Cell adhesion
- Apoptosis

**devU-canU**

- Chromatin organization
- Negative regulation of macromolecule metabolic process
- Chordate embryonic development
- DNA packaging
- Regulation of mitosis
- Negative regulation of cell cycle process

**devD-canU**

- Regulation of lymphocyte mediated immunity
- Regulation of leukocyte mediated immunity
- Cellular chemical homeostasis
- Negative regulation of immune effector process
- Regulation of response to external stimulus
- Immunoglobulin mediated immune response
- Regulation of adaptive immune response
- Positive regulation of immune response
- T cell differentiation in the thymus
- Lymphocyte mediated immunity
- B cell mediated immunity
- Thymic T cell selection

**devU-canD**