

New Classification of tissues and cell types in GENEVESTIGATOR®

Last updated: June 2016

Summary

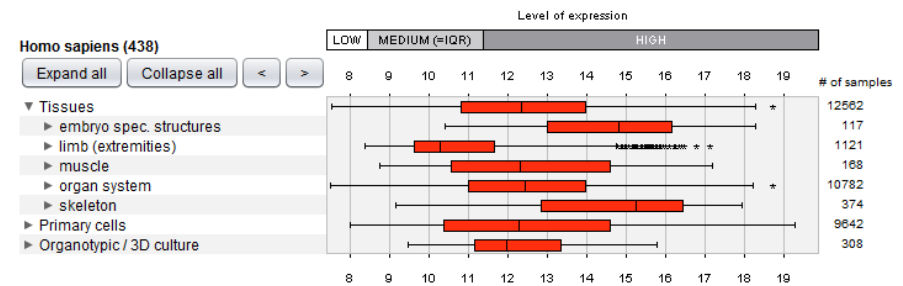
All organs, tissues and cell types have been restructured using the recently released CALOHA ontology developed by the CALIPHO Group at the Swiss Institute of Bioinformatics in Geneva. CALOHA represents a major improvement over existing anatomical ontologies, since many tissues and cell types were rigorously curated and structured. While originally developed for human, we adapted it also to mouse and rat.

This new classification gives you significantly better granularity and structure for the visualization of anatomical parts in GENEVESTIGATOR.

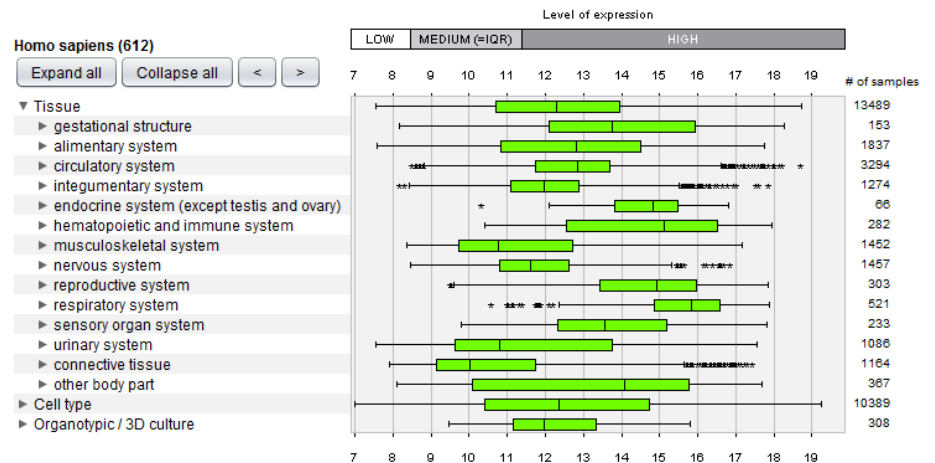
- To ensure interoperability, each term in CALOHA is mapped to the corresponding term in other ontologies (BRENDA, MeSH, FMA, UBERON, Cell ontology) and each term is associated with a wealth of synonyms and definitions
- The CALOHA ontology is implemented in OBO format, updated regularly and can be downloaded from the [NextProt FTP server](#)

Example of improved structure of the second level of the tree (Body systems):

'Old' anatomy tree

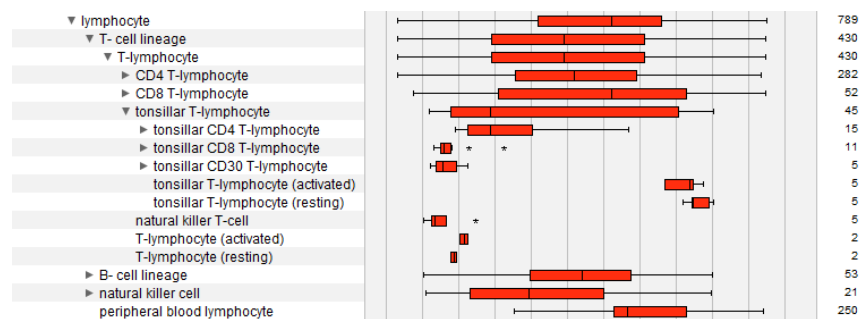


'New' adapted CALOHA anatomy tree



Example of improved granularity in the T-lymphocyte section:

'Old' anatomy tree



'New' adapted CALOHA anatomy tree

