# Human and Mouse networks

## Introduction

* Biology of gene regulation
* Methods for learning gene regulatory networks
  + Correlation as intro
  + Limitations of correlation
  + Linear regression vs mutual information
* Choice of data
* Loss of gene regulation with age

## Results

### Validation of networks in external datasets

* GTEx (Hs)
* TCGA (Hs)
* Moreira (Mm)

### Network topology (Hs)

A picture containing diagram

Description automatically generated

Figure : Topology of the human network excluding indirect effects.

## Methods

Learning gene regulatory networks

Removal of indirect effects

Removal of unbalanced edge pairs

Topology analysis

Module detection

GTEx data preprocessing

# Supplementary Material