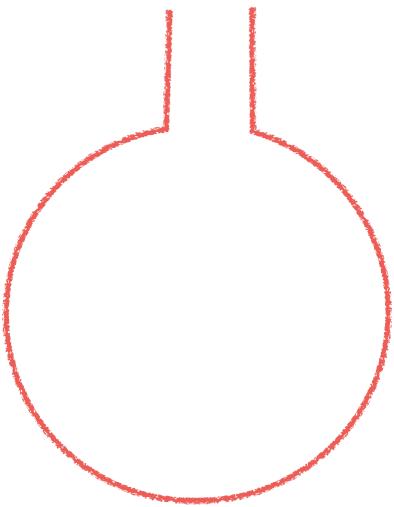
Over-representation analysis: additional considerations



















































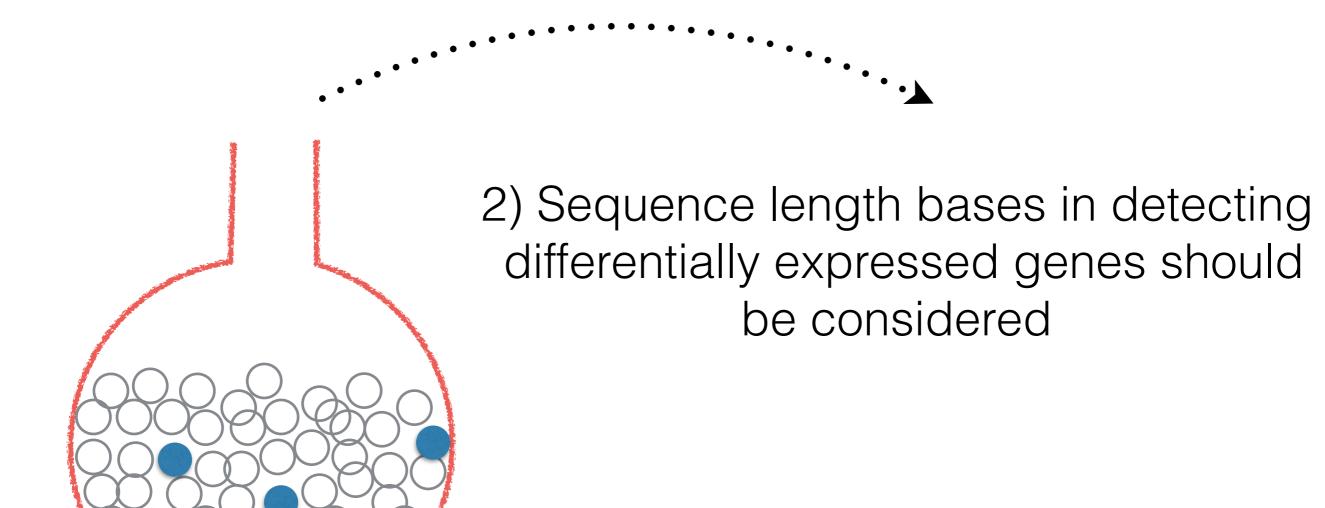


1) The Jar (aka Universe) should only contain **expressed genes.** (Why?)



2) Sequence length bases in detecting differentially expressed genes should be considered

Over-representation analysis: additional considerations



1) The Jar (aka Universe) should only contain **expressed genes.** (Why?)

Statistical tests for over (or under) representation:

Build a contingency table categorizing genes by D.E. and GO

ion"		Differentiall NO	y Expressed YES
GO term "cell wall modificat present?	NO	32,710	950
	YES	290	50

 Use a (modified) Fisher's Exact Test to look for unequal ratios (is 32710:290 different from 950:50)?