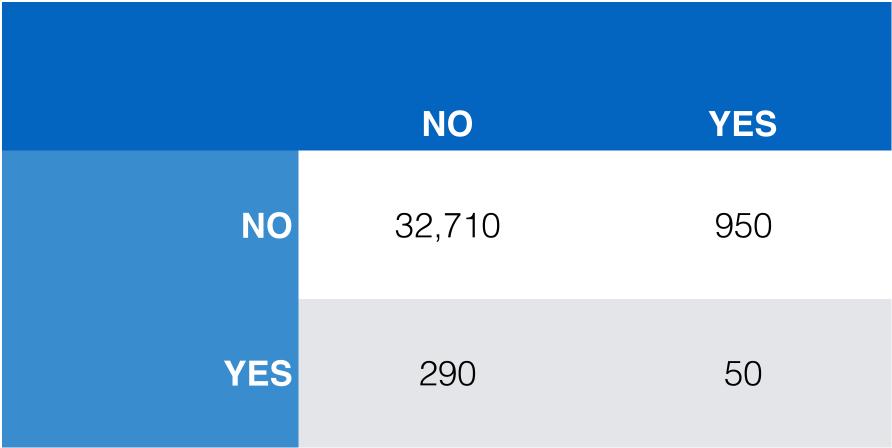
## Statistical tests for over (or under) representation:

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

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







## Promoter Motif Analysis

## Statistical tests for over (or under) representation:

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

ion"		Differential NO	ly Expressed <b>YES</b>
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 32710:950 different from 290:50)