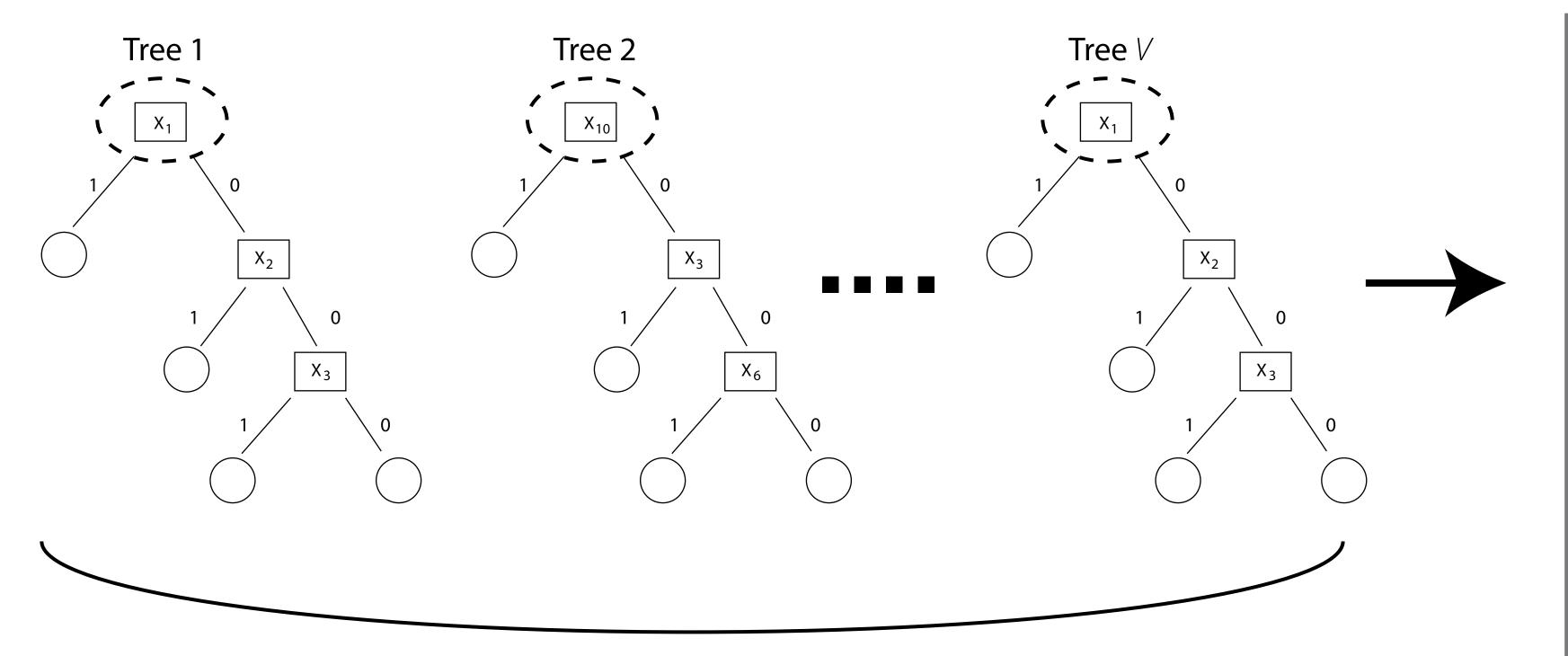
binomialRF Algorithm for Feature Selection

1. Grow Random Forest and Identify Optimal Splitting Variables

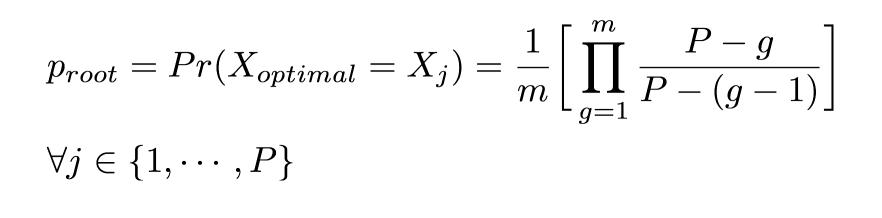


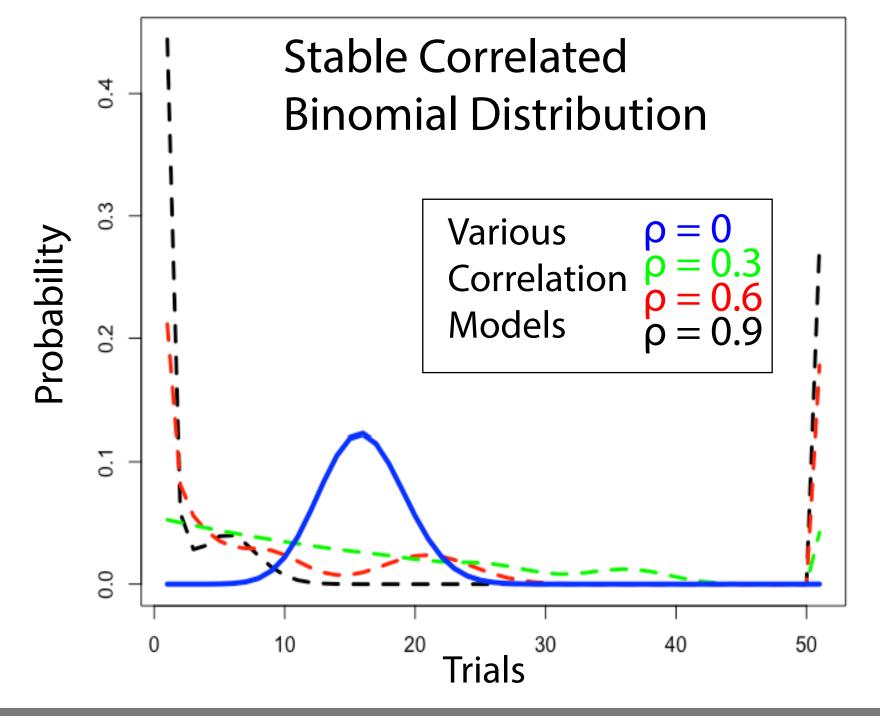
Feature	Frequency		
X_1	$F_1 = 13$		
X_2	$F_2 = 530$		
X _P	$F_P = 94$		

2. Calculate SCB One-sided Test

Calculate probability of randomly selecting X_j

Conduct stable correlated binomial test for significance





3. FDR-adjust and return feature list

Freq.	P-val	Adj. P-val
F ₁	p-val ₁	q-val ₁
F ₂	p-val ₂	q-val 2
F _P	p-val _P	q-val _P
	F ₁	F ₁ p-val ₁ F ₂ p-val ₂