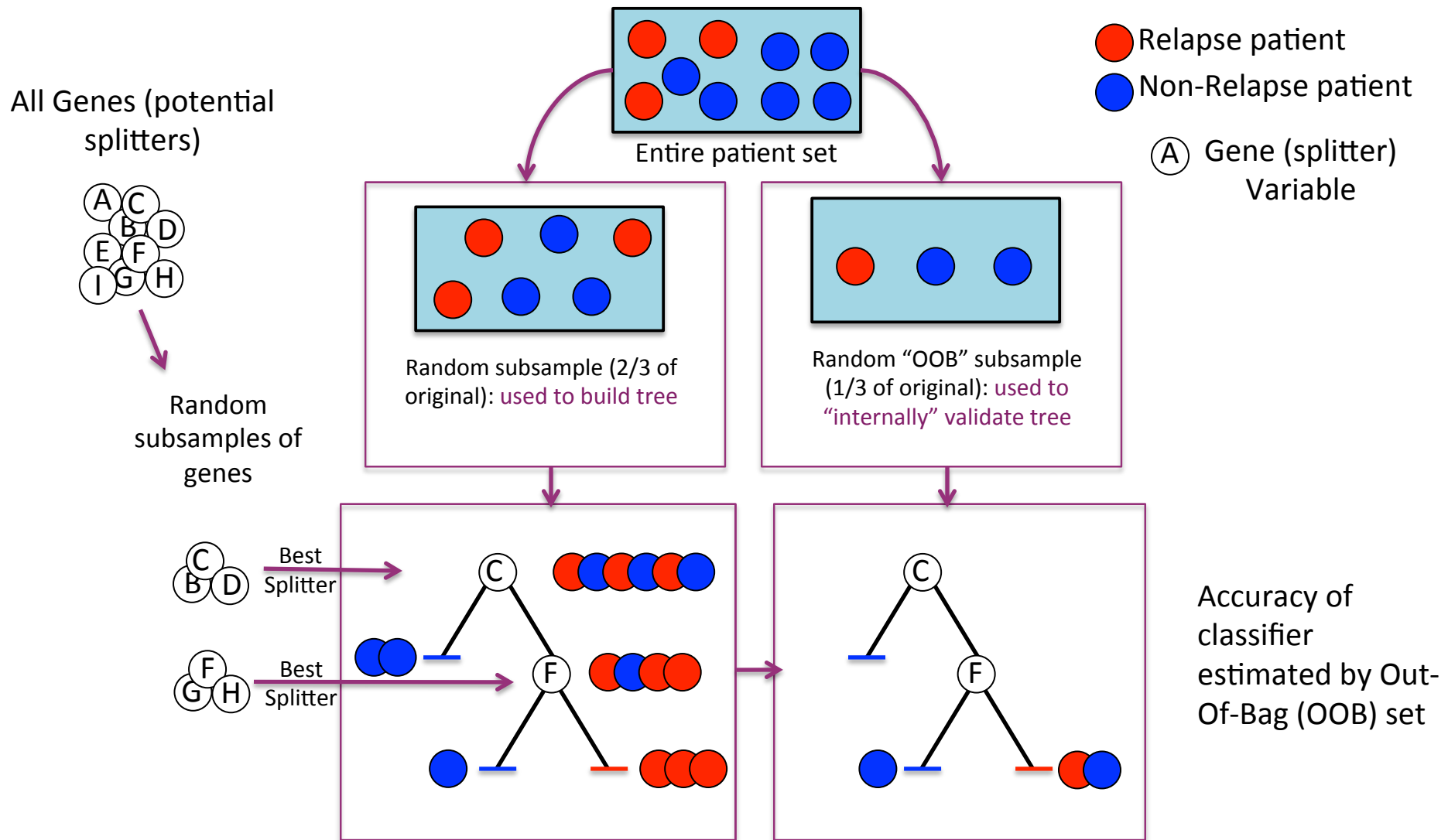
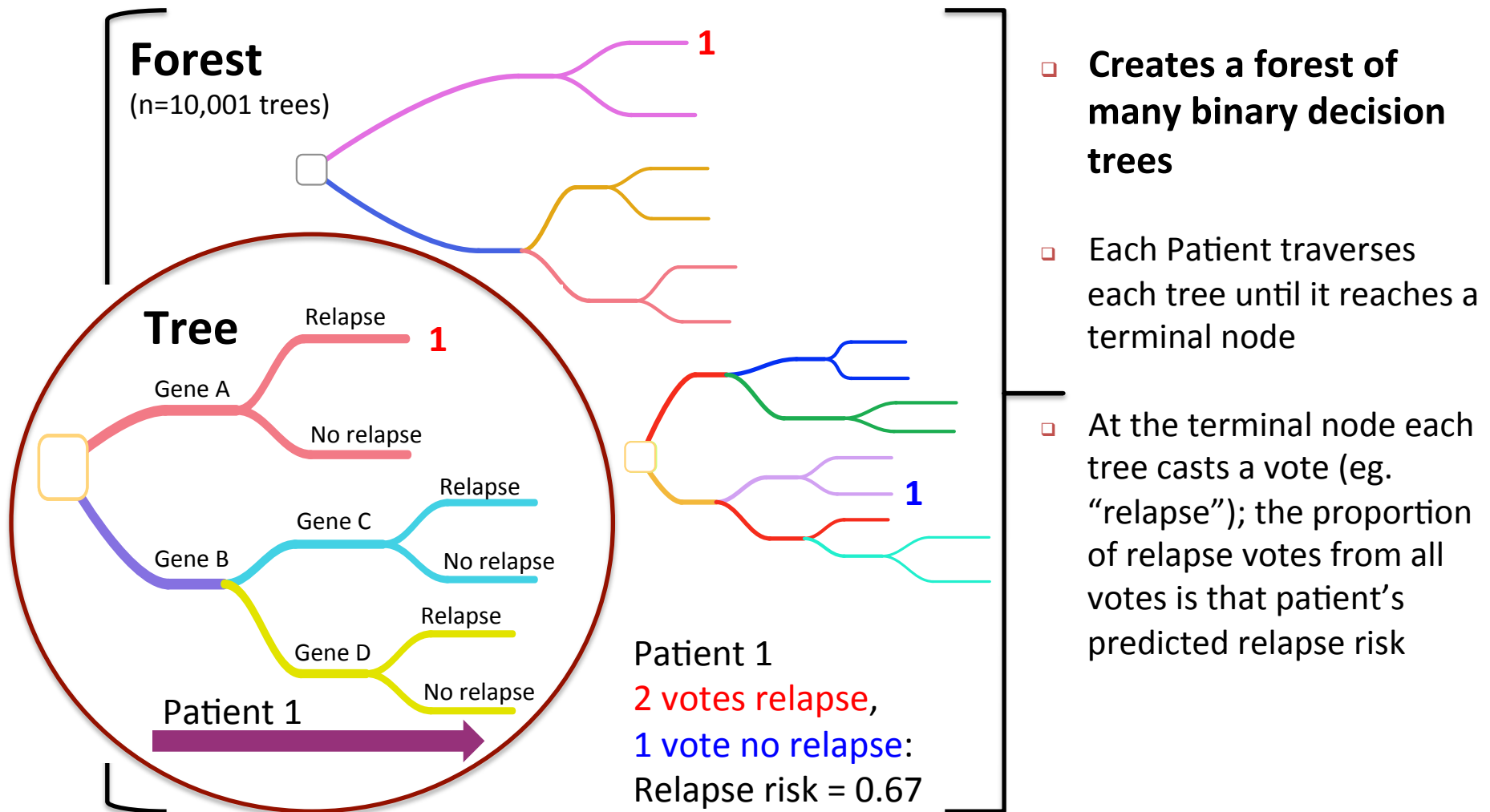


# The Random Forest is built one tree at a time...



# To predict new patients, each tree gets a vote...

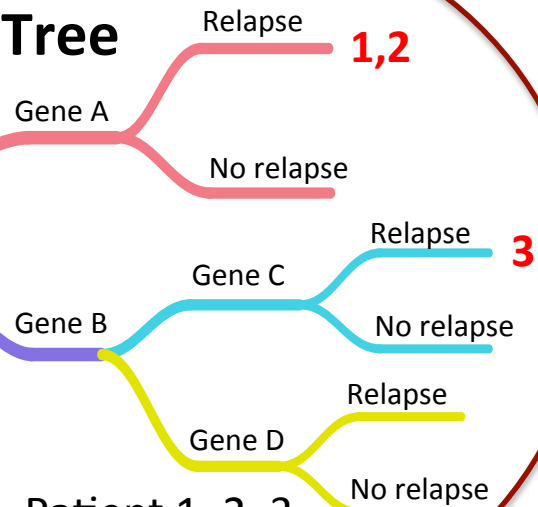


# Variable importance is a feature of random forests

## Forest

(n=10,001 trees)

## Tree



Patient 1, 2, 3

- The more often a gene is chosen as a splitter variable, the higher its “Variable Importance” – This can be used to prioritize which genes to select for an assay with limited gene measurements

Gene	Var. Imp.
Gene A	0.67
Gene B	0.20
Gene D	0.13
...	...