

Variant Risk Estimate (VRE)

**ClinVar variant
classifications
(6.8 M entries)**

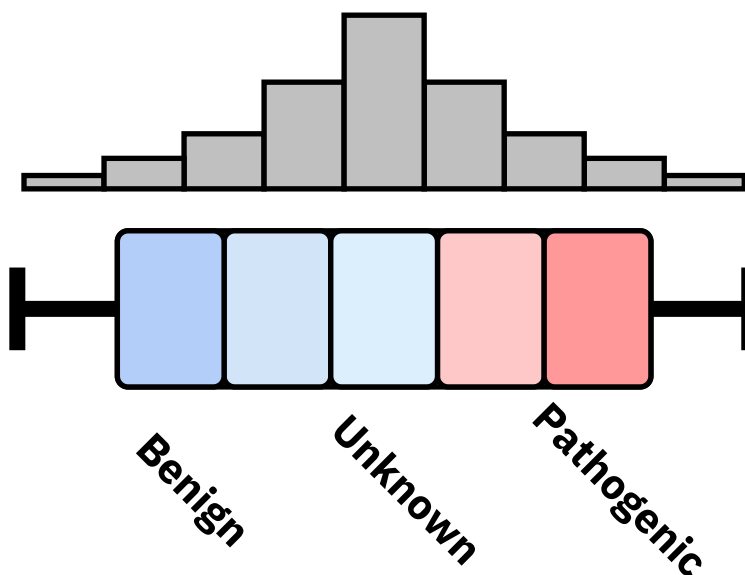
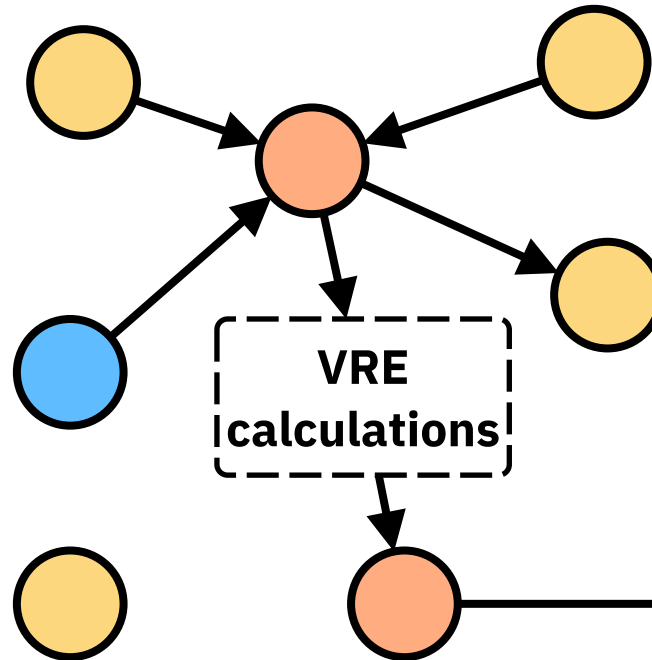
**PanelAppRex
Gene-disease
(58,592 entries)**

**AlphaMissense
71M variants
19k genes**

**GnomAD
Allele frequencies
(N = 807,162)
(800 M variants)**

**dbNSFP
(122 M variant
annotations)**

**IEI genetics
Variant observation
prior probabilities**



AR

AD

XL

**Diagnostic
confidence
given current
knowledge**

**0.86
(CI 95%: 0.85 - 0.87)**