

Validation of the clonotypes



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Database of biologically validated Tcell receptors



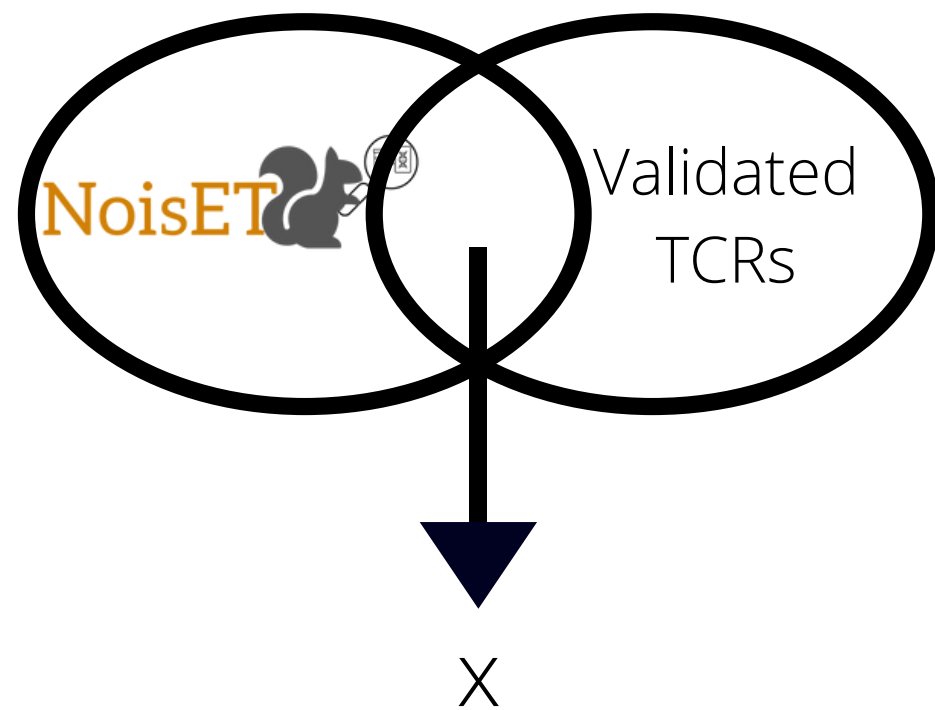
Magnitude and Dynamics of the T-Cell Response to SARS-CoV-2 Infection at Both Individual and Population Levels

 Thomas M. Snyder,  Rachel M. Gittelman, Mark Klinger,  Damon H. May,  Edward J. Osborne, et al.

142069 TCell receptors that interact with COVID

Validating our clonotypes

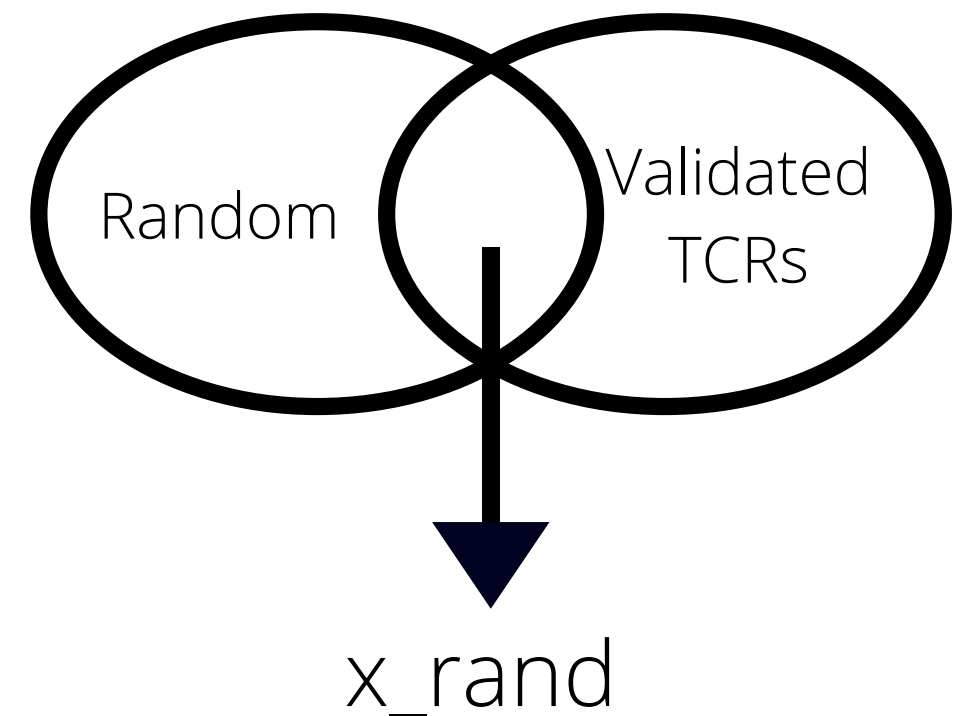
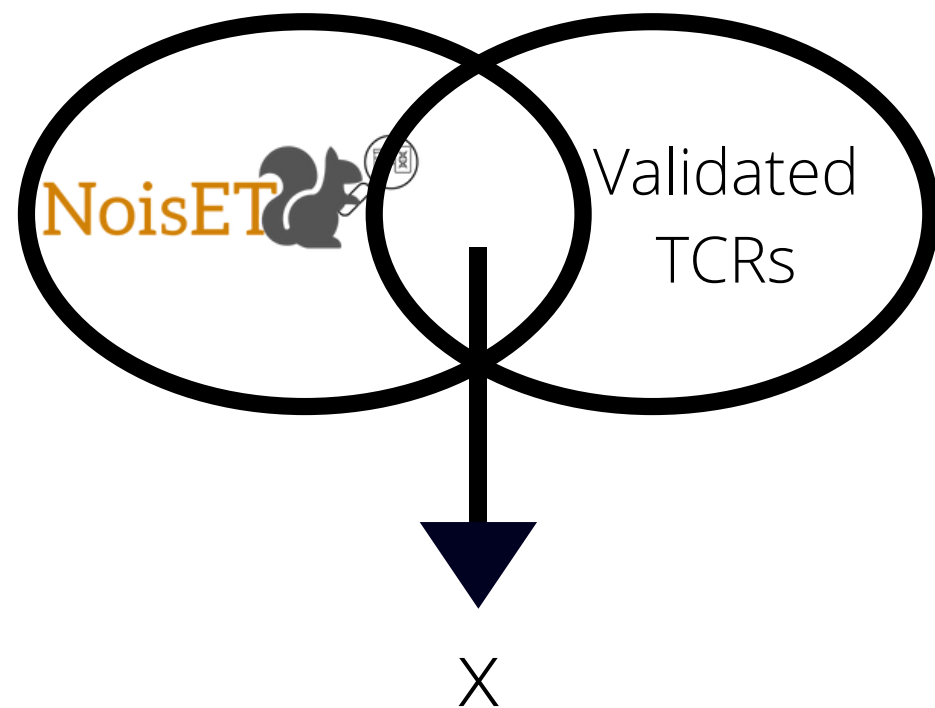
How many clonotypes found by **NoisET** are in the validated list?



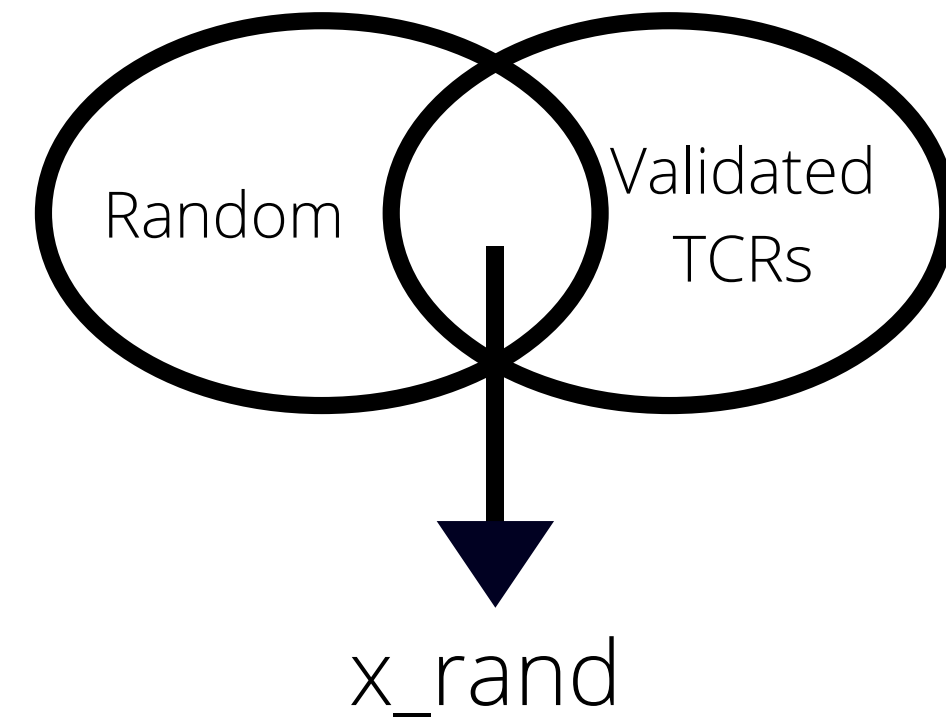
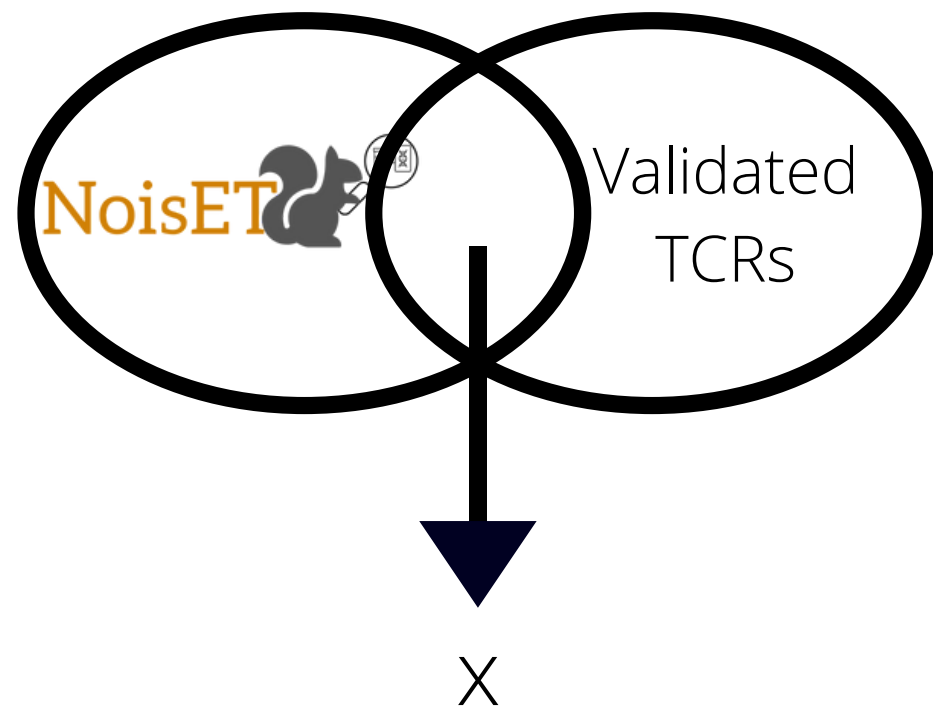
Validating our clonotypes

How many clonotypes found by **NoisET** are in the validated list?

How many clonotypes chosen at **random** are also in the validated list?



Validating our clonotypes



Is NoisET significantly better than a random choice?

$$z_score = (x - \text{mean}[x_rand]) / \text{std}[x_rand]$$