

# Validation of the clonotypes



M. Bensouda Koraichi, A. Mazzolini  
T. Mora, A. Walczak,  
J.L. Weissman

# Database of biologically validated Tcell receptors



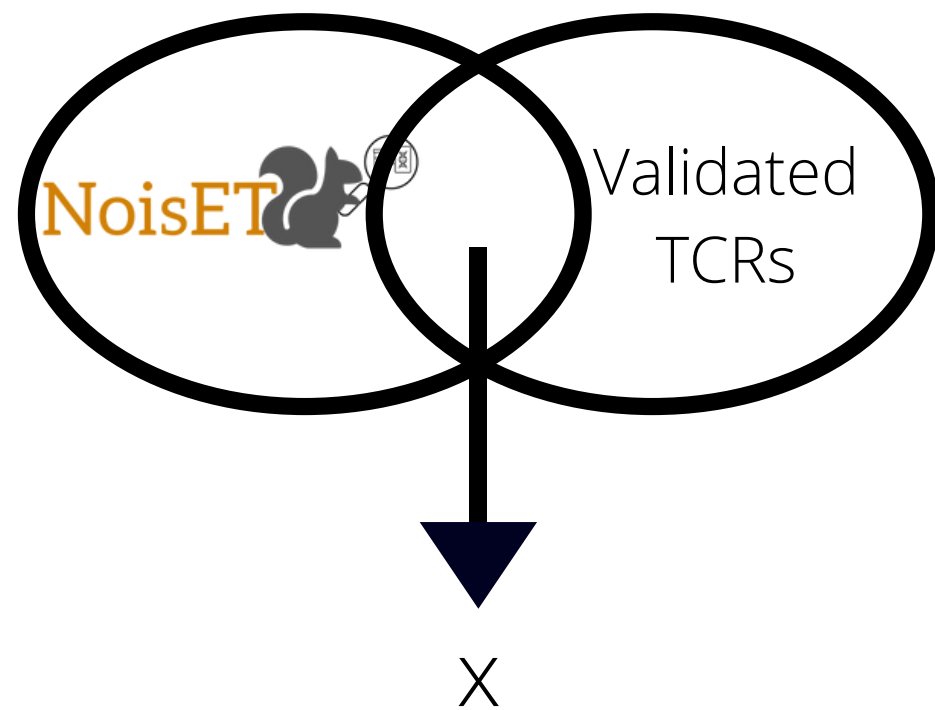
**Magnitude and Dynamics of the T-Cell Response to SARS-CoV-2 Infection at Both Individual and Population Levels**

 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

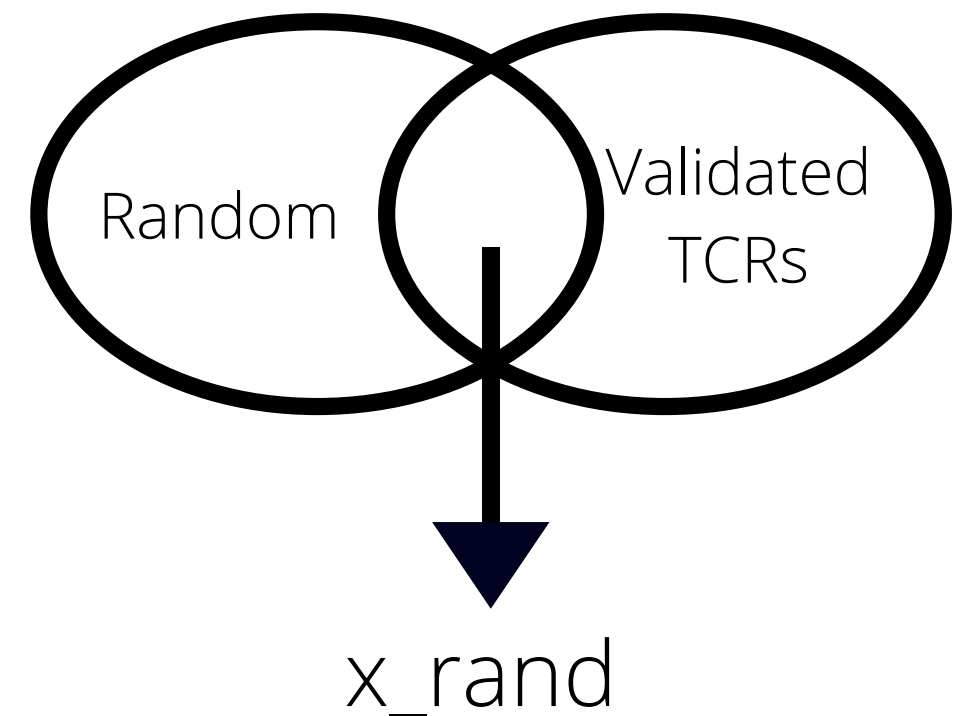
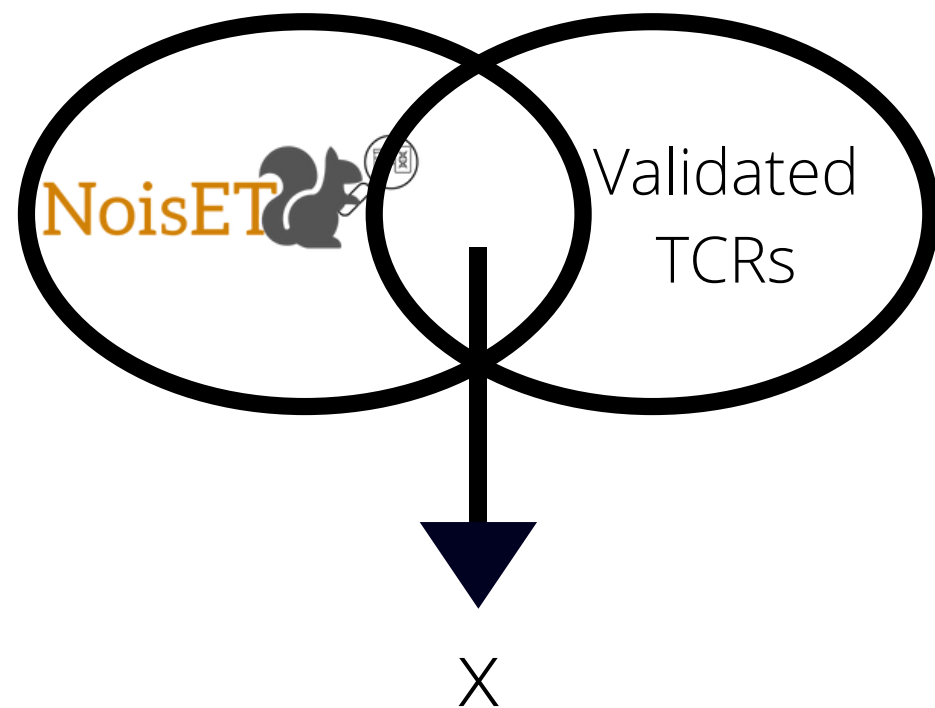
How many clonotypes found by **NoisET** are in the validated list?



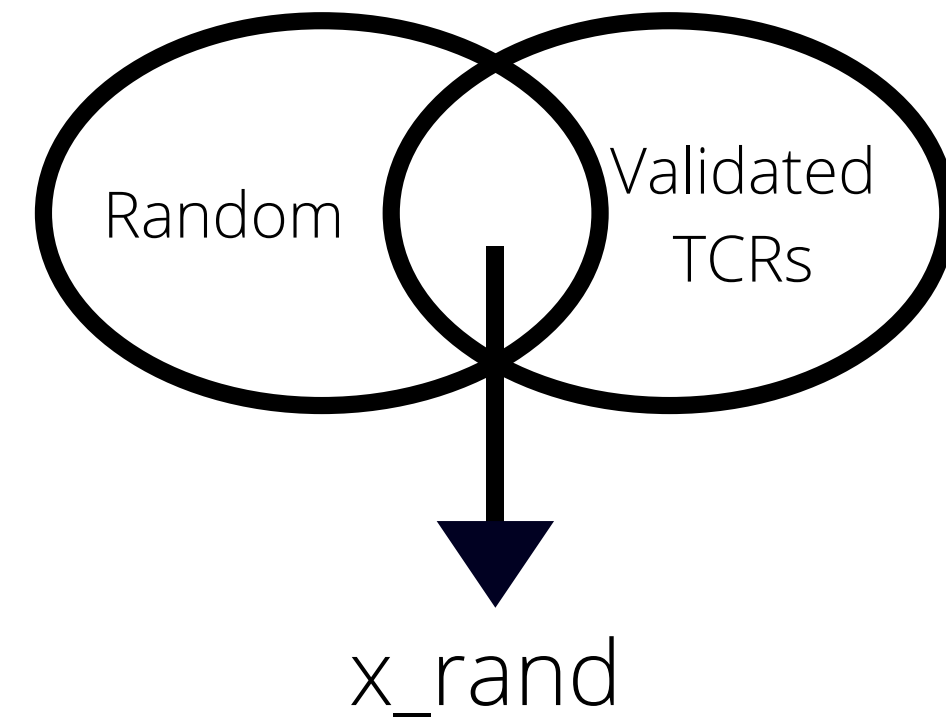
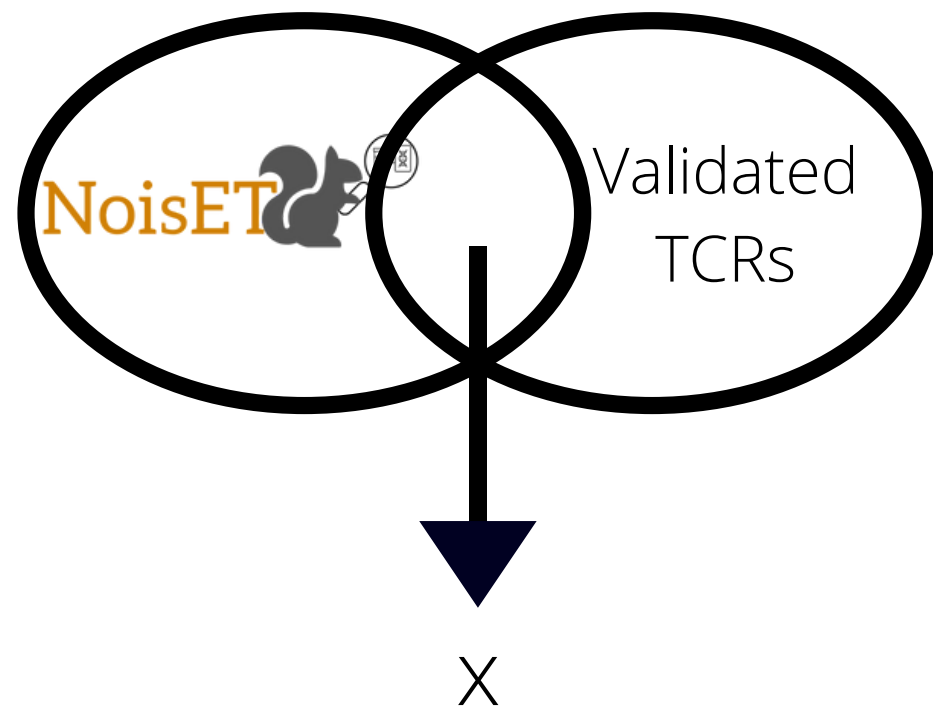
# Validating our clonotypes

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?

$$z\_score = \text{abs}(x - \text{mean}[x\_rand]) / \text{std}[x\_rand]$$