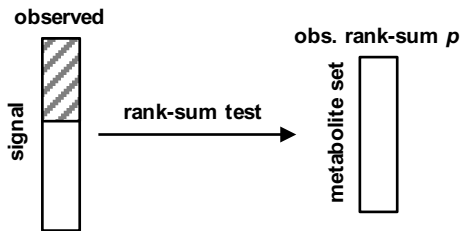
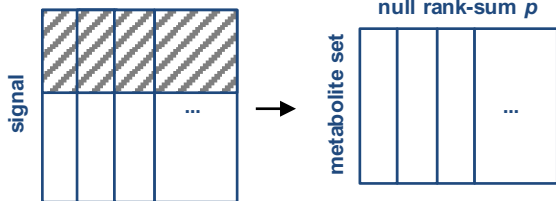


**a****b**

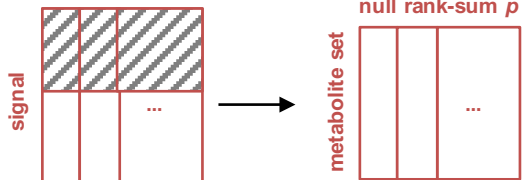
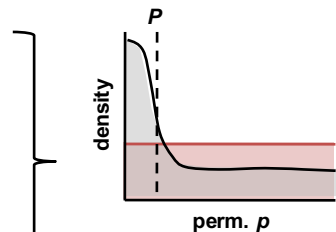
permutation round 1:

null x 1000



permutation round 2:

null x 20

obs. perm.  $p$ null perm.  $p$ **c**

$$\text{FDR}_p = \frac{\text{avg. \# of null perm. } p < P}{\text{\# of obs. perm. } p < P}$$