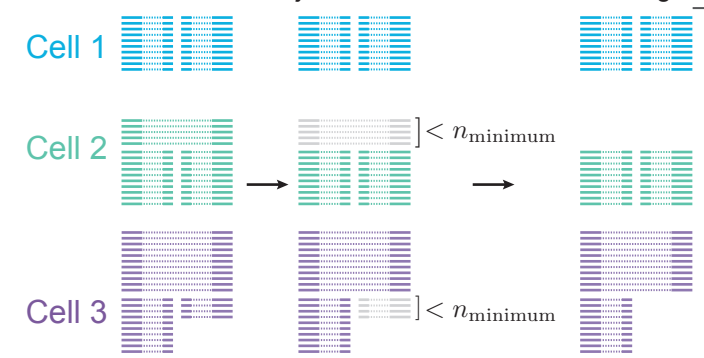


1. outrigger index

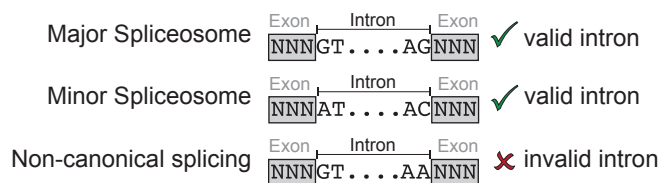
Within each cell, retain junctions with sufficient coverage



Collapse junctions
across all samples

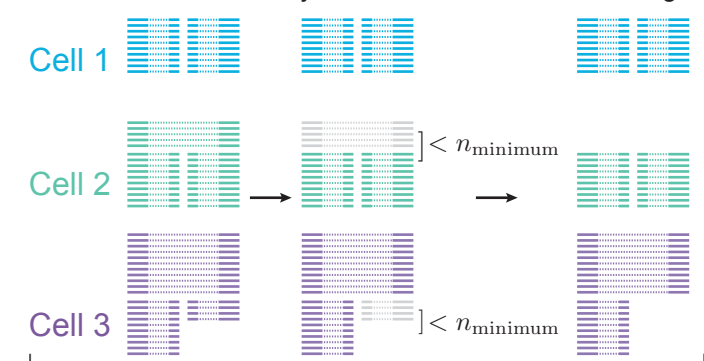
Find alternative exons

2. outrigger validate (optional)



3. outrigger psi

Within each cell, retain junctions with sufficient coverage



Match up junctions with
alternative exons

Remove junctions inconsistent
with alternative exon event

Calculate percent spliced in (Psi/ Ψ)
for each cell and alternative exon

$$\Psi = \frac{\text{inclusion reads}}{\text{inclusion} + \text{exclusion reads}} \quad \Psi = 1$$

SE

$$\frac{\text{inclusion reads}}{\text{exclusion reads}} = \frac{1}{2} \quad \Psi = 1$$

MXE

$$\frac{\text{inclusion reads}}{\text{exclusion reads}} = \frac{1}{2} \quad \Psi = 0$$

*Don't duplicate work if already did this in outrigger index