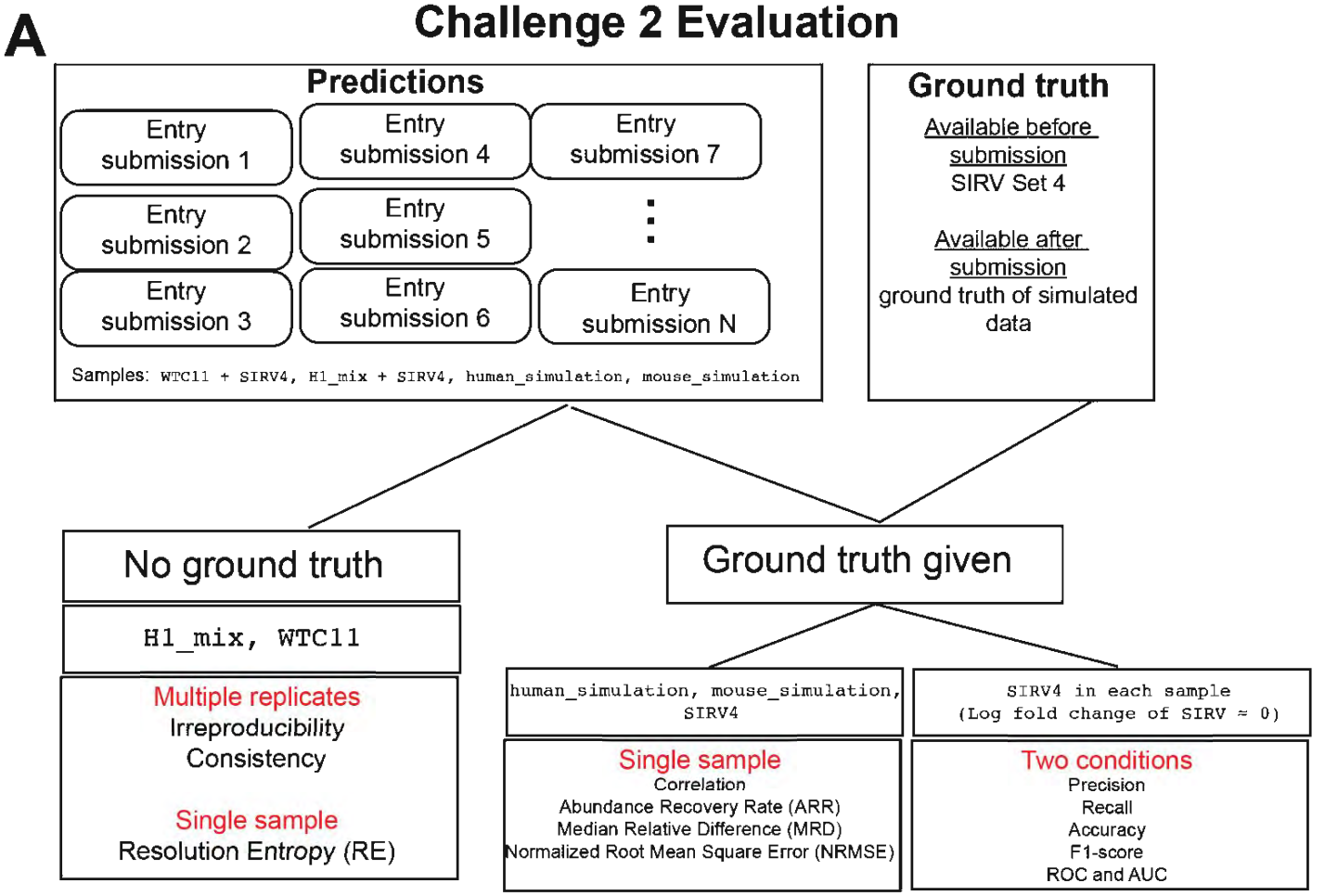
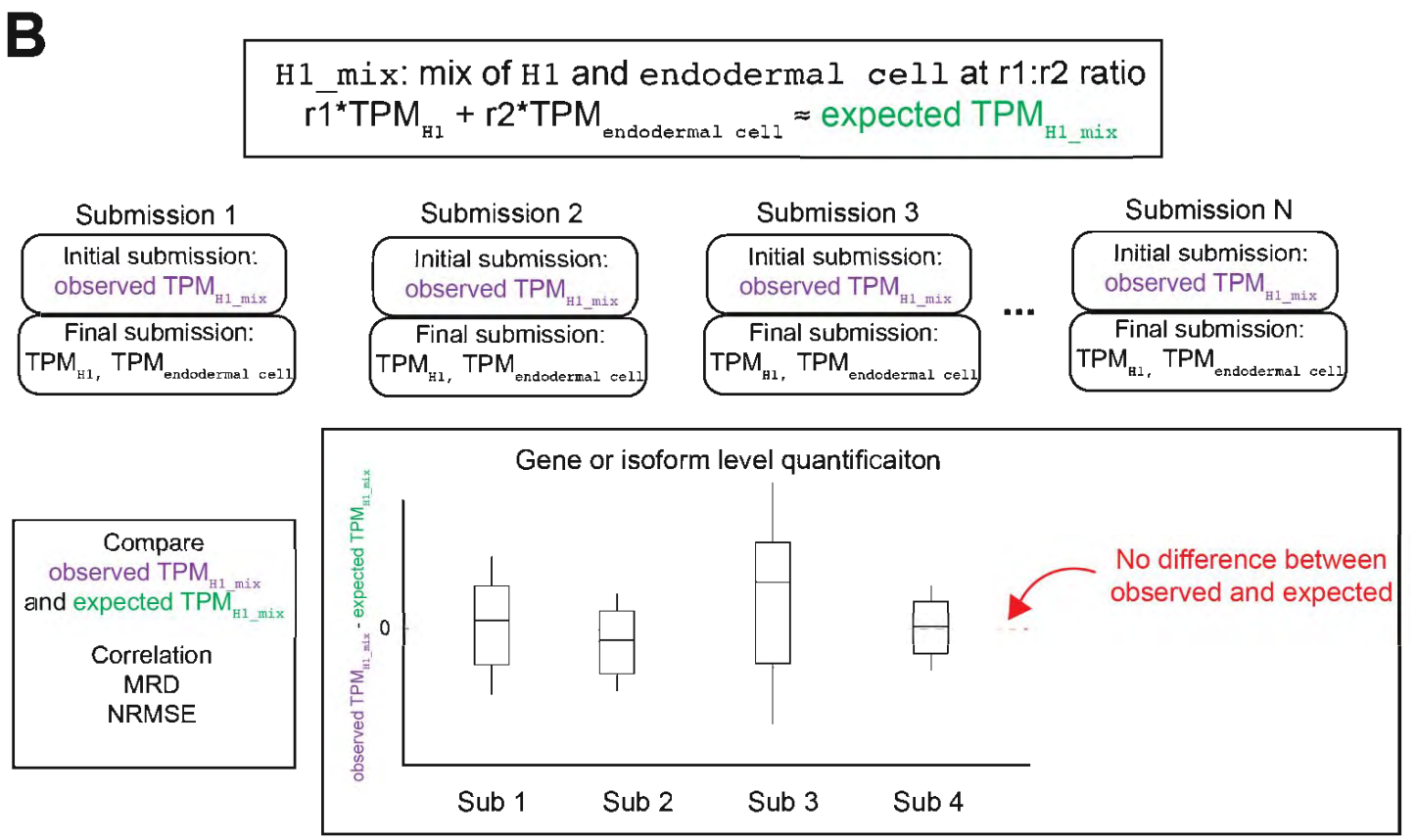

A
Challenge 2 Evaluation
Predictions
Entry submission 1
Entry submission 2
Entry submission 3
Entry submission 4
Entry submission 5
Entry submission 6
Entry submission 7
Entry submission N
Samples: WTC11 + SIRV4, H1_mix + SIRV4, human_simulation, mouse_simulation
Ground truth
Available before submission
SIRV Set 4
Available after submission
ground truth of simulated data
No ground truth
H1_mix, WTC11
Multiple replicates
Irreproducibility
Consistency
Single sample
Resolution Entropy (RE)
Ground truth given
human_simulation, mouse_simulation, SIRV4
Single sample
Correlation
Abundance Recovery Rate (ARR)
Median Relative Difference (MRD)
Normalized Root Mean Square Error (NRMSE)
SIRV4 in each sample (Log fold change of SIRV ≈ 0)
Two conditions
Precision
Recall
Accuracy
F1-score
ROC and AUC


B
H1_mix: mix of H1 and endodermal cell at r1:r2 ratio
r1*TPM_H1 + r2*TPM_endodermal cell ≈ expected TPM_H1_mix
Submission 1
Initial submission: observed TPM_H1_mix
Final submission: TPM_H1, TPM_endodermal cell
Submission 2
Initial submission: observed TPM_H1_mix
Final submission: TPM_H1, TPM_endodermal cell
Submission 3
Initial submission: observed TPM_H1_mix
Final submission: TPM_H1, TPM_endodermal cell
...
Submission N
Initial submission: observed TPM_H1_mix
Final submission: TPM_H1, TPM_endodermal cell
Compare observed TPM_H1_mix and expected TPM_H1_mix
Correlation
MRD
NRMSE
Gene or isoform level quantificaiton
observed TPM_H1_mix - expected TPM_H1_mix
0
No difference between observed and expected
Sub 1
Sub 2
Sub 3
Sub 4