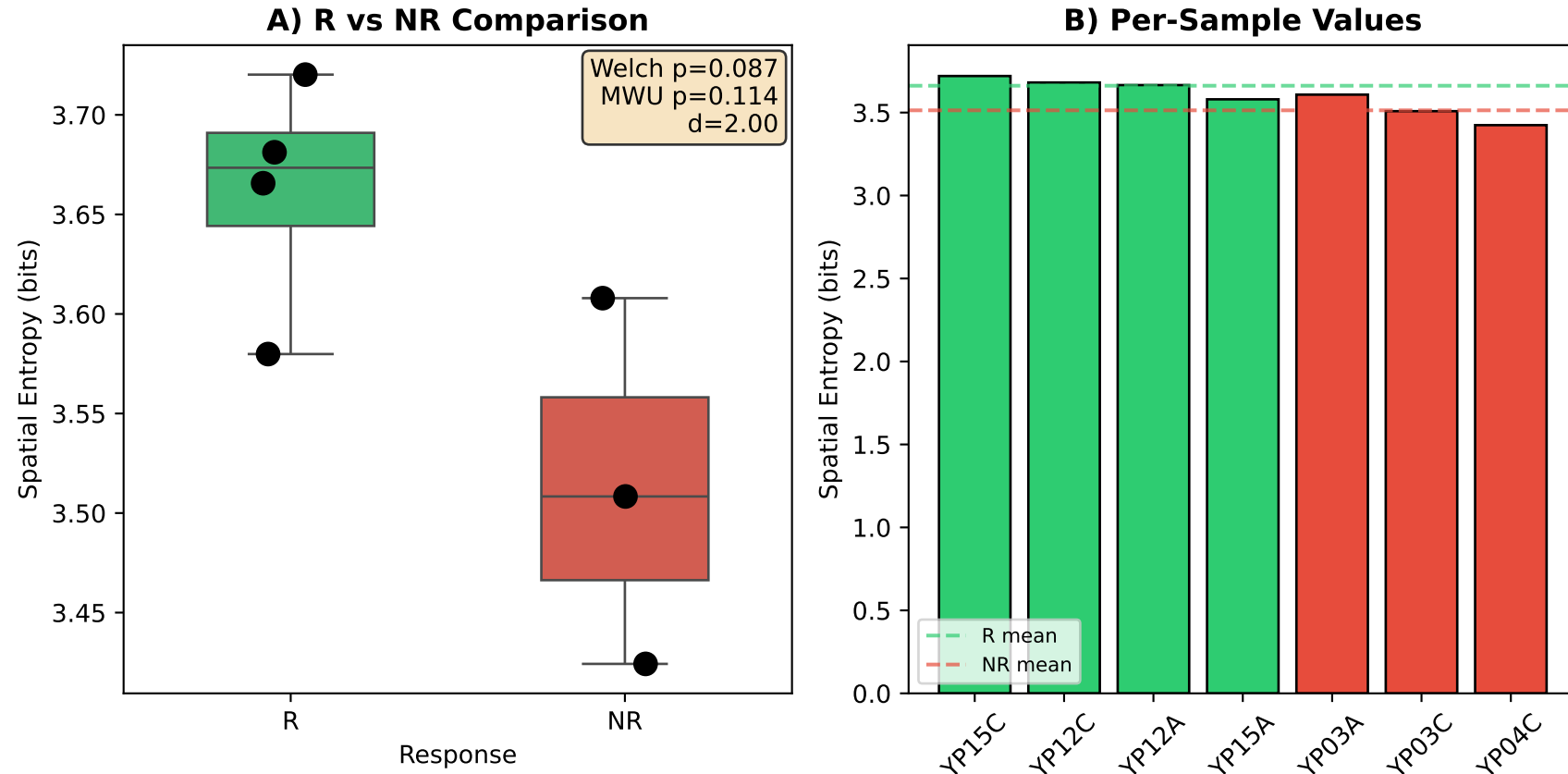


# Figure 7: Spatial Entropy - Cell Type Diversity Analysis



## SPATIAL ENTROPY ANALYSIS

Definition: Shannon entropy of cell type distribution per sample. Higher values indicate more diverse cell populations.

### Key Finding:

- Responders show higher spatial entropy
- Effect size  $d=2.0$  (LARGE effect)
- Welch  $p=0.087$  (trending)

### Interpretation:

Responders have more diverse cell type composition, suggesting a more complex tumor microenvironment that may be more amenable to treatment.

### Clinical Relevance:

Spatial entropy could serve as a predictive biomarker for treatment response in PDAC.