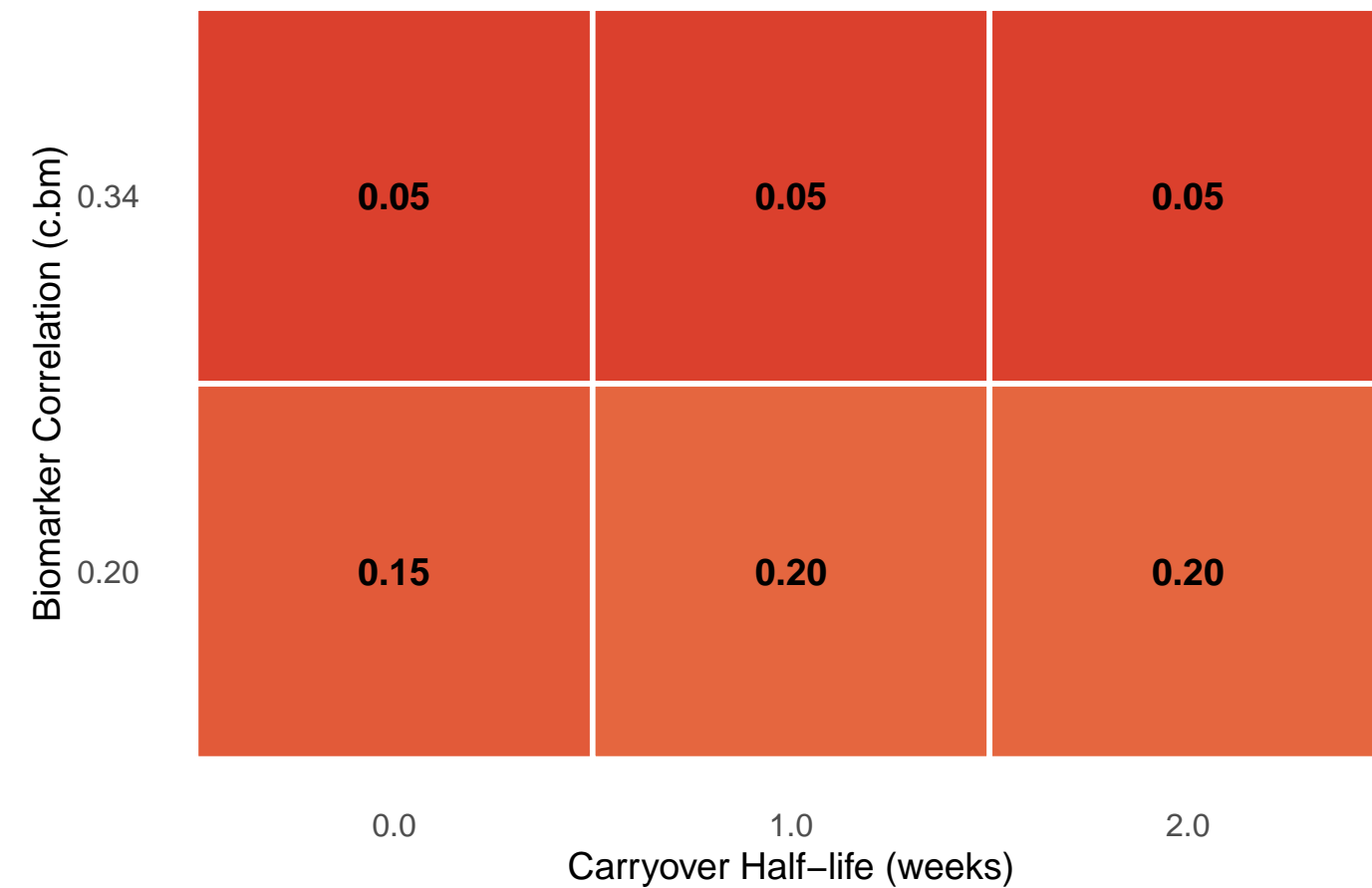


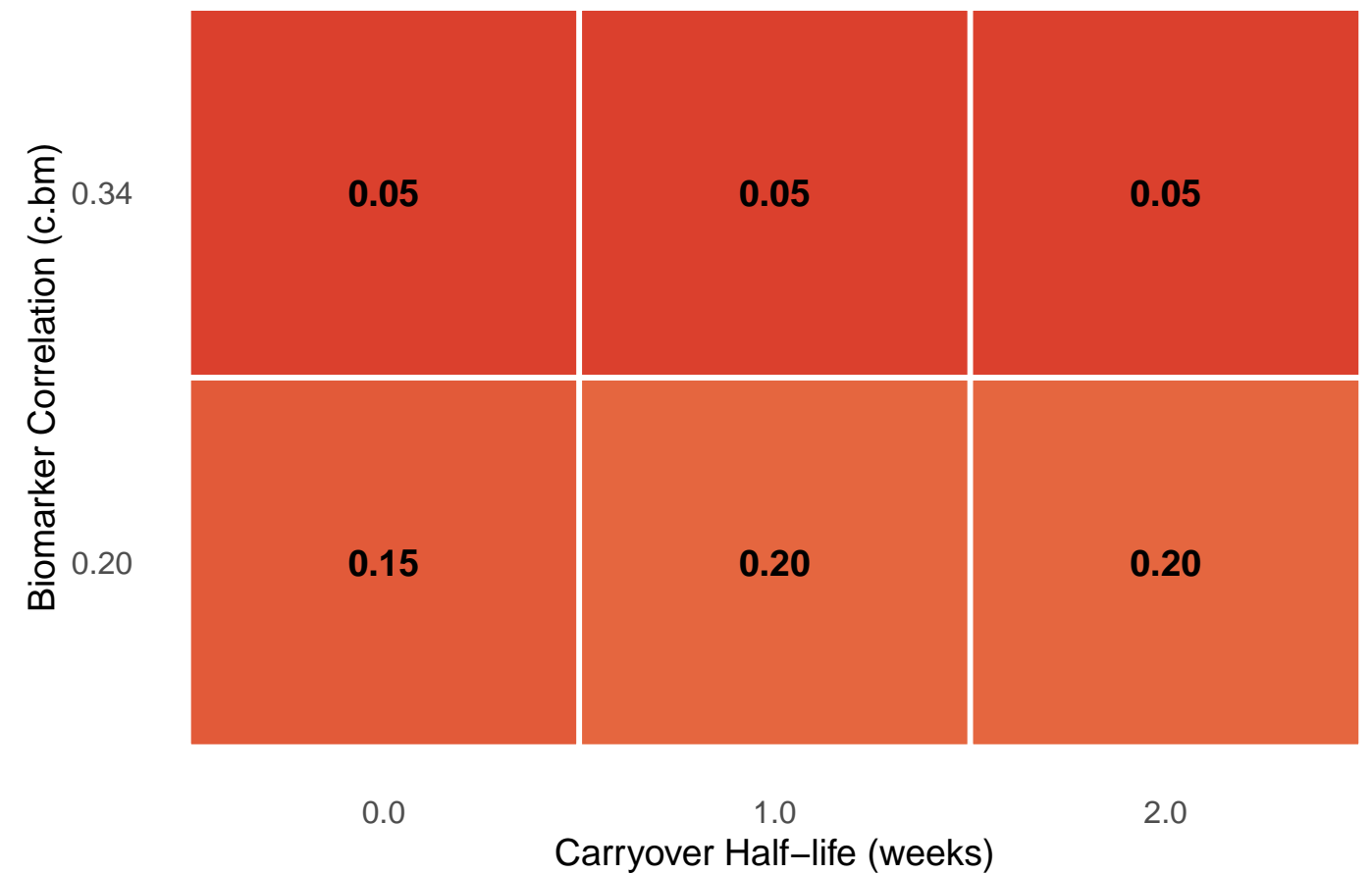
Statistical Power Across All Parameter Combinations

Monte Carlo simulation (N=70 participants, 20 iterations per combination)

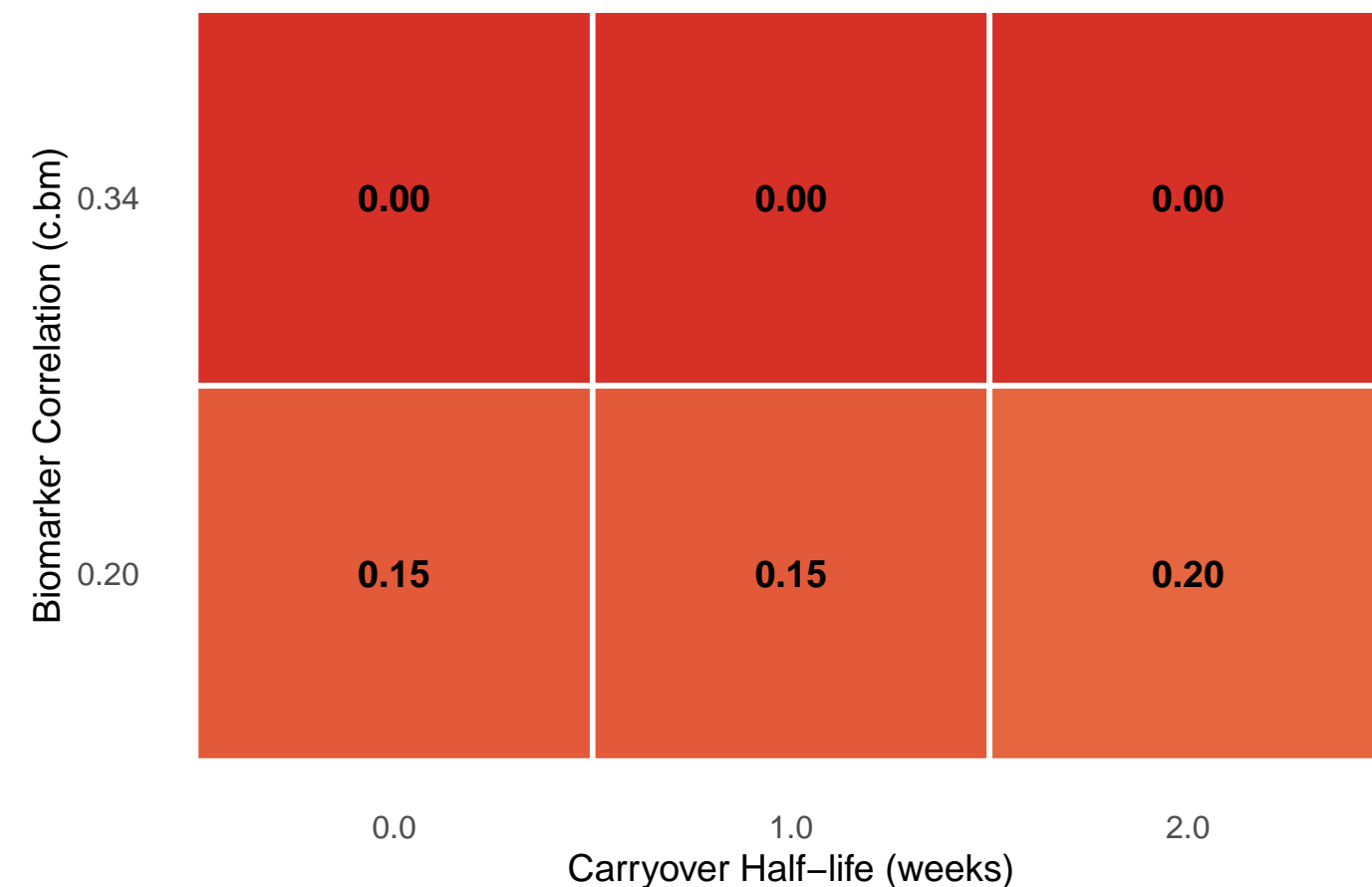
**Hybrid Design
WITHOUT Carryover Model**



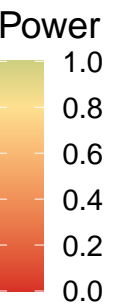
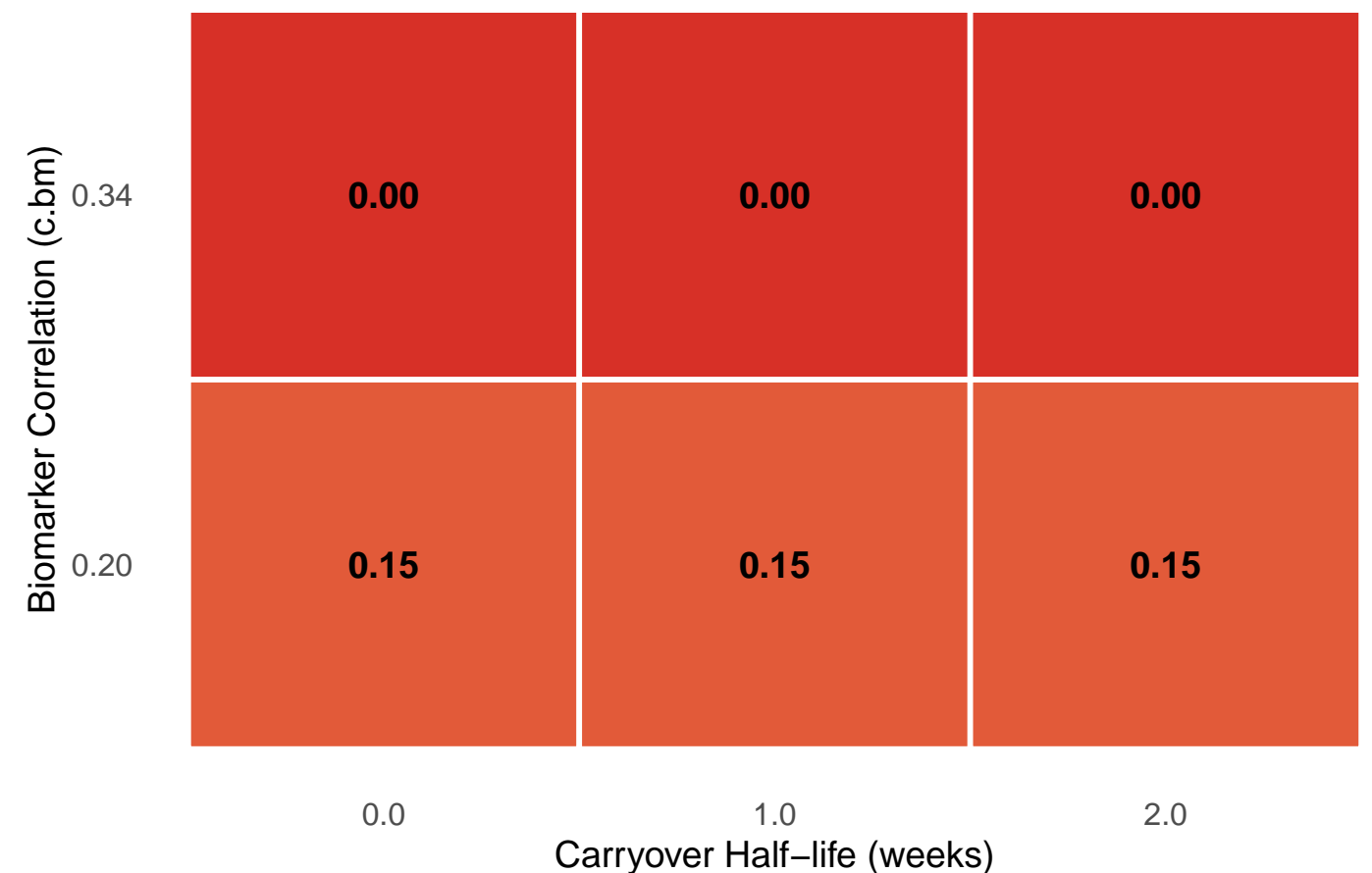
**Hybrid Design
WITH Carryover Model**



**Crossover Design
WITHOUT Carryover Model**



**Crossover Design
WITH Carryover Model**



Each heatmap shows power to detect biomarkerxreatment interaction
Fixed parameters: autocorr = 0.8 (Hendrickson values), treatment effect = 5.0