Feature Selection Methods Performance Comparison

A — HIV-1

B — SARS-CoV-2

C — HCMV UL55

D — HCMV UL73

E — HCMV US28

Legend:
- Random
- Discriminative (ln)
- Discriminative (log2)
- Mutual Information
- Chi-squared
- ANOVA F-statistic
- Odds Ratio

F — Score Value (log scale)

- Discriminative (ln): min: 1e-09, med: 0.001, max: 1
- Discriminative (log2): min: 1e-09, med: 0.002, max: 1
- Mutual Information: min: 1e-09, med: 0.0007, max: 3
- Chi-squared: min: 1e-09, med: 0.8, max: 2e+06
- ANOVA F-statistic: min: 1e-09, med: 3e+01, max: 6e+10
- Odds Ratio: min: 0.0001, med: 1, max: 6e+01

G — Pearson: 0.902, Spearman: 0.971

H — Pearson: 0.883, Spearman: 0.981

X-axis (A–E): Number of Top-K Positions Selected
Y-axis (A–E): F1 Macro Score