

# Noise-Resistant Training for Sequence-to-Expression Models

Systematic Evaluation on CAGI5 Clinical Variant Benchmark

**74**

Models

**+1.2%**

Best CAGI5  
Improvement

**-0.088**

Best Noise  
Correlation



Rank Stability



Contrastive



Distributional



Quantile/Curriculum



Noise Gated



Hard Negative