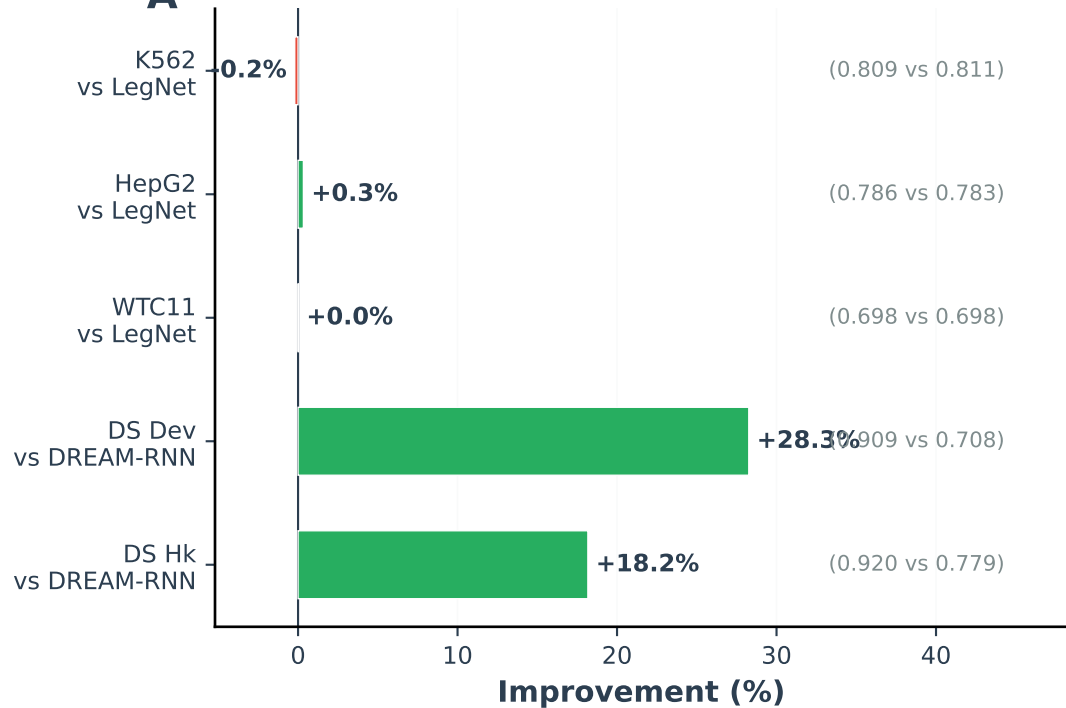


Fig 8. FUSEMAP Comprehensive Benchmark Summary

A

CADENCE vs Published SOTA

**B**

Overall Statistics

CADENCE Single-Task

Best Pearson r	0.958	(Yeast DREAM)
Mean across datasets	0.808	(9 datasets)
vs SOTA Human	+0.0%	(matched)
vs SOTA Drosophila	+28.3%	(new SOTA)

Physics Models

TileFormer R^2	>0.95	(10,000x speedup)
PhysInformer transfer	r=0.847	(within-human)
Bending universality	-6%	(across kingdoms)

Transfer Learning

Best cross-species	ρ =0.556	(K562 \rightarrow S2)
S2A zero-shot plants	ρ =0.700	(Maize LOO)