a. Synthetic regression tasks Linear Nonlinear (MLP) Gaussian process Sinusoidal Hodakin-Huxley 0.6 0.4 10⁴ 0.2 MSE(↑) 60 0.4 10³ 40 0.1 0.2 20 0.0 0.0 IID OOD IID OOD OOD IID OOD IID OOD IID b. Synthetic classification tasks Real-world tasks c. Linear Nonlinear (MLP) Alchemy Raven's PM Gene targeting 1.00 1,00 0.83 Accuracy (↑) Accuracy (↑) 0.8 0.82 0.6 0.98 0.4 0.81 0.2 0.96 0.0 0.0 0.99 0.80 IID OOD IID OOD OOD OOD OOD Implicit Explicit $x_q \rightarrow$ $\rightarrow y_q$ $D \rightarrow$ Transformer Transformer

 $x_q \rightarrow$