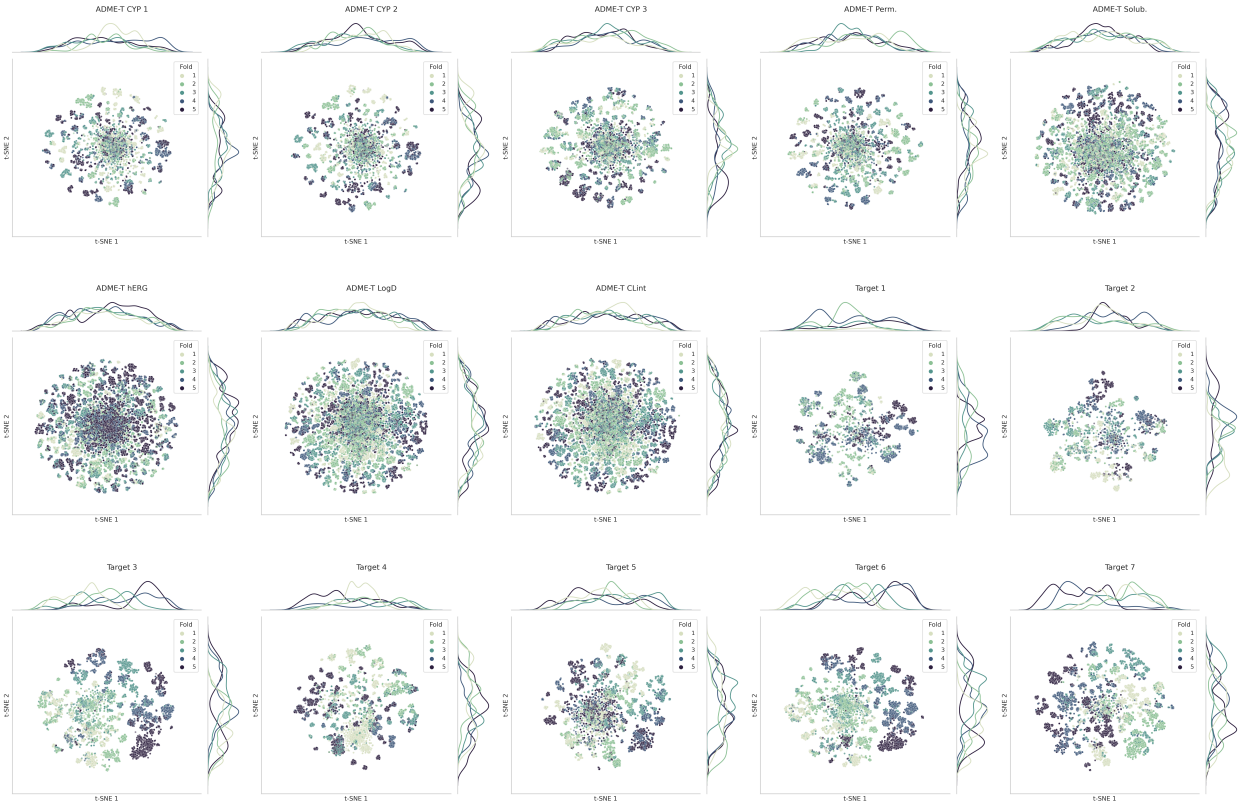

Figure 10: **Temporal Distribution of the Feature-space.** Feature space of each assay illustrated in terms of t-SNE projections for each temporal fold.

Table 2: **Model Selection.** Considered hyperparameter space for model selection of Random Forest and the base neural network architectures during grid search based on validation loss.

Base Model	Hyperparameter	Explored space
Random Forest	n_estimators	{50, 100, 250, 500, 1000}
	min_samples_leaf	{2, 10, 0.25, 0.5, 0.75}
	min_samples_split	{1, 25, 50, 100, 250, 500}
Neural Network	Learning rate	{0.00005, 0.0001, 0.0005, 0.001}
	Scheduler Factor	{0.1, 0.5}
	Number of hidden layers	{2, 3, 4}
	Hidden dimension	{64, 128, 256, 512}
	Decreasing dimension	{False, True}
	Dropout	{0.25, 0.5, 0.75}

C Full Ablation Study

Fig. 11, 12, and 13 present the full results from the Ablation study underlying the summary provided in Fig. 3 for each temporal setting respectively. The names of the models have been abbreviated for readability as follows, E for Ensemble, MC for MC-Dropout, BB for Bayes by Backprop, G for the Gaussian model, GE Al for the aleatoric estimate from the Gaussian Ensemble, and GE Ep for the epistemic estimate from the Gaussian Ensemble. The colors separate the NLL performance for the models trained with and without the additional censored labels.