

## SUPPLEMENTARY TABLES

**Supplementary Table 9. The age and sex distributions of the training and test set.**

	<b>Total (N = 87)</b>	<b>Training Set (N = 72)</b>	<b>test set (N = 15)</b>	<b>p-value (Training vs. test set)</b>
Age: mean (min–max)	52.8 (21–105)	52.4 (21–105)	54.8 (25–103)	0.732 <sup>a</sup>
Female: <i>n</i> (%)	34 (39.1%)	28 (38.8%)	6 (40.0%)	1.000 <sup>b</sup>
Male: <i>n</i> (%)	53 (60.9%)	44 (61.1%)	9 (60.0%)	

<sup>a</sup>Student's *T*-test, <sup>b</sup>Fisher's Exact Test.

**Supplementary Table 10. The parameters used to construct the four prediction models, based on the initial five-fold CV results.**

<b>Lasso (22 probe sets)</b>	<b>EN (252 probe sets)</b>	<b>XGBoost (269 probe sets)</b>	<b>LightGBM (404 probe sets)</b>
Alpha = 1	Alpha = 0.05	Learning rate = 0.1	Learning rate = 0.05
Lambda = 4.335	Lambda = 45.205	Gamma = 0.425	Max. tree depth = 5
		Max. tree depth = 3	Num. of leaves = 30
		Min. child weight = 9.5	Min. data in a leaf = 22
		Subsample ratio = 1	Min. sum hessian in a leaf = 0.001
		Column sample ratio = 0.8	Subsample ratio = 0.85
		L1 regularization = 0	Column sample ratio = 0.6
		L2 regularization = 3.5	L1 regularization = 0.4
		Num. boosting rounds = 366	L2 regularization = 0.4
			Min. gain to split = 0
			Num. boosting rounds = 970