

S1 Appendix

Feature selection and ranking for univariate method, glmnet and random forest

Univariate*	Glmnet**	Random forest***	Rank
CA125	CA125	CA125	1
anti-SiaT _n IgM	anti-SiaT _n IgM	anti-SiaT _n IgM	2
anti-O-Sulfo-TF IgM	anti-O-Sulfo-TF IgM	anti-O-Sulfo-TF IgM	3
anti-6-OSulfo-LN IgG	anti-6-OSulfo-LN IgG	SiaLex.IgM	4
	anti-SiaLe ^a IgG	SiaTn.Gc..IgG	5
	anti-GM ₂ IgG	GM2.IgG	6
		GM1a.IgM	7

* based on significance, $p < 0.05$

** based on elastic-net feature selection

*** based on random forest variable importance, only the seven best are presented.