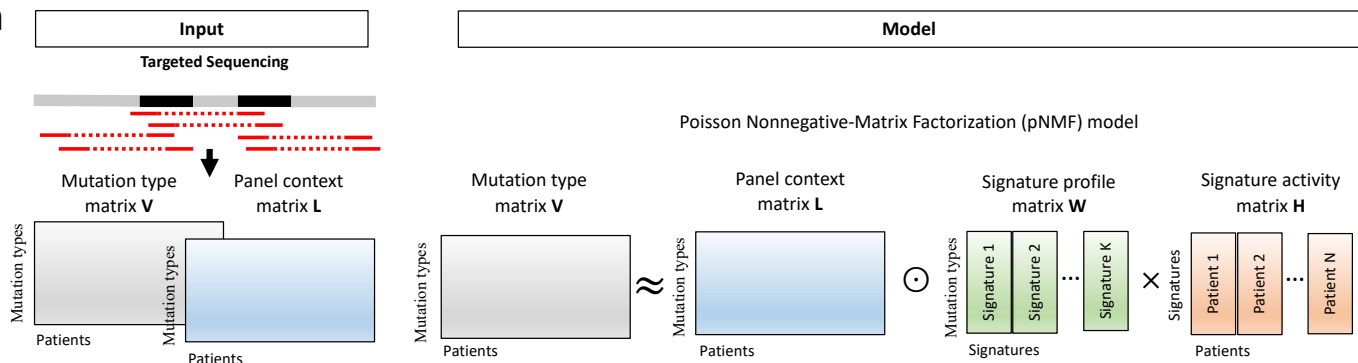
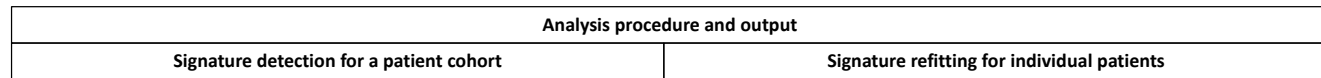


a



b

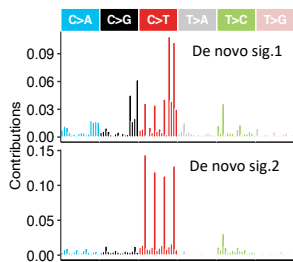


a. *De novo* TMB signature discovery, adjusting panel sizes

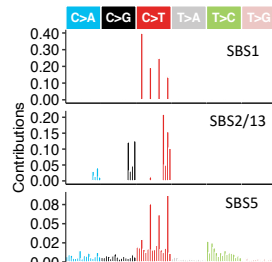
b. Mapping to the reference TMB signatures

c. Estimating activities of reference TMB signatures

d. Calculating burdens of reference TMB signatures



De novo TMB signature profiles



Reference TMB signature profiles

	Pt.1	Pt.2	Pt.3	Pt.4	Pt.5	Pt.6
SBS1	0	0	0.27	0.34	0.39	0
SBS2/13	0	0	0.84	0	0	0.16
SBS5	0.07	0.34	0.18	0.1	0	0.31

Signature activity matrix **H**

	Pt.1	Pt.2	Pt.3	Pt.4	Pt.5	Pt.6
SBS1	0	0.01	0.67	1.47	1	0
SBS2/13	0	0	1.16	0	0	0.19
SBS5	1	4.99	3.17	3.53	0	4.81

Signature burden matrix **E**