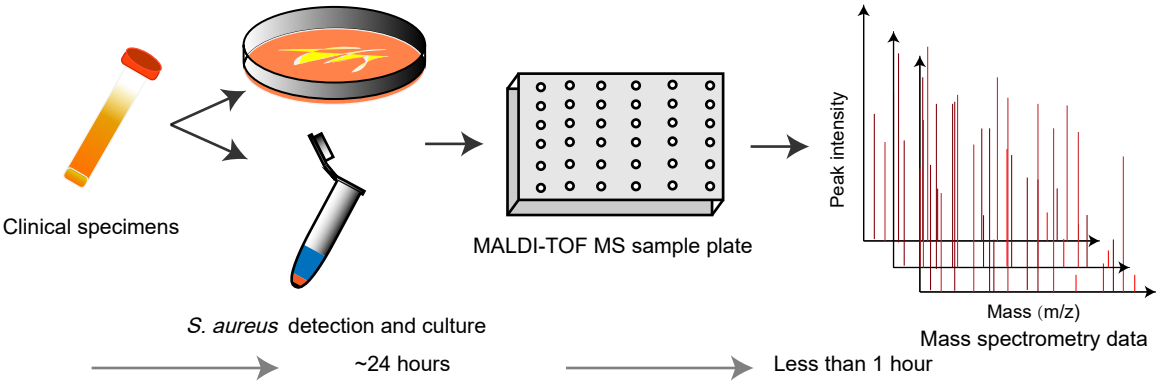


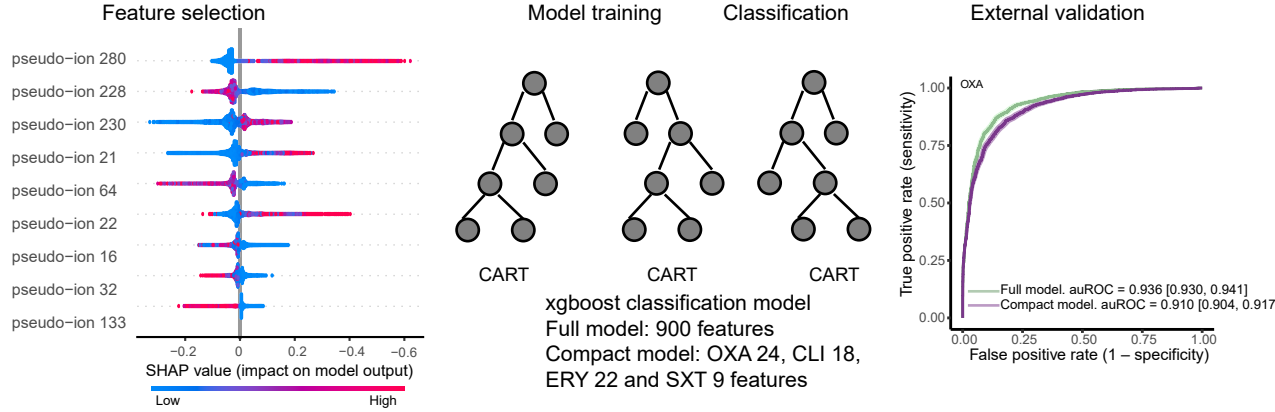
a Data preparation



b Data pre-processing

Ion-wise intensity matrices Maldi-TOF mass spectra peak intensities					Pseudo-ion-wise intensity matrices (m=i/20) Binning normalization with bin size 20 Da				
X_{in}	Sample 1	Sample 2	Sample 3	Sample	X_{mn}	Sample 1	Sample 2	Sample 3	Sample n
Ion 1	1287	0	0	8364	Pseudo-ion 1	357.8	5516.2	3732.7	8317.5
Ion 2	0	27056	0	7519	Pseudo-ion 2	8589.3	7498.9	6677.0	11571.3
Ion 3	10900	0	7661	0	Pseudo-ion 3	6623.1	14625.8	9913.8	6391.9
Ion i	0	0	561	0	Pseudo-ion m	725.0	1517.3	158.2	914.4

c Drug resistance prediction model



d Multi-drug resistant risk evaluation score

