

Supplementary Table S1. Genomic features of *S. aureus* non-ocular isolates

<i>S. aureus</i> isolates	Accession number	Source	MLST	GC%	Contigs	Core genes	Shell genes	Pan/total genes
M121	GCA_001021875.1	Nasal	ST8	32.9	1	2494	388	2882
USA300_SUR17	GCA_002000725.1	Nasal	ST8	32.8	1	2518	360	2878
Mu50	GCA_000009665.1	Skin/Soft Tissue	ST5	32.9	1	2324	684	3008
JKd6159	GCA_000144955.1	Skin/Soft Tissue	ST93	32.8	1	2190	875	3065
2148.N	GCA_001717665.2	Nasal	ST72	32.8	1	2288	585	2873
CA12	GCA_001045795.2	Blood	ST8	32.7	1	2482	321	2803
FDAARGOS_159	GCA_001558795.2	Skin/Soft Tissue	ST8	32.9	1	2330	591	2921
JH9	GCA_000016805.1	Blood	ST105	32.9	1	2190	875	3065
USA_ISMMs1	GCA_000568455.1	Heart	ST8	32.8	1	2512	360	2872
USA300_FPR3757	GCA_000013465.1	Joint	ST8	32.8	1	2479	356	2835