

Supplementary Table. Information of MRSA ST45 strains included for whole genome sequencing

Strain Name	Collections	Year of isolation	Institutes		Source type	Age (years)
			Type	Location of Taiwan		
Sau84	TSAR	2010	Hospital	Northern	Blood	76
Sau92	TSAR	2010	Hospital	Eastern	Blood	78
Sau95	TSAR	2012	Hospital	Southern	Blood	42
Sau100	TSAR	2012	Hospital	Eastern	Blood	89
Sau102	TSAR	2012	Hospital	Central	Blood	69
Sau114	TSAR	2014	Hospital	Eastern	Blood	92
Sau116	TSAR	2014	Hospital	Southern	Blood	82
Sau122	TSAR	2014	Hospital	Central	Blood	82
Sau41	TSAR	2004	Hospital	Eastern	Sputum	91
Sau54	TSAR	2006	Hospital	Eastern	Pus	43
Sau56	TSAR	2006	Hospital	Central	Wound	76
Sau57	TSAR	2006	Hospital	Central	Blood	76
Sau62	TSAR	2008	Hospital	Southern	Blood	58
Sau70	TSAR	2008	Hospital	Central	Blood	58
Sau73	TSAR	2008	Hospital	Northern	Blood	84
Sau80	TSAR	2010	Hospital	Southern	Blood	76
ILR17	CGMH	2010	Hospital	Northern	Blood	80.7
ILR37	CGMH	2010	Hospital	Northern	Blood	82.6
ILR76	CGMH	2010	Hospital	Northern	Blood	55.4
KTR35	CGMH	2010	Hospital	Central	Blood	NA
KTR43	CGMH	2010	Hospital	Central	Blood	NA
KTR58	CGMH	2010	Hospital	Central	Blood	NA
LCR01	CGMH	2010	Hospital	Southern	Blood	NA
LCR11	CGMH	2010	Hospital	Southern	Blood	NA
LCR13	CGMH	2010	Hospital	Southern	Blood	NA
JGR12	CGMH	2010	Hospital	Northern	Blood	81.4
JGR38	CGMH	2009	Hospital	Northern	Blood	47.7
JGR69	CGMH	2010	Hospital	Northern	Blood	81.2
NCHR52	CGMH	2010	Hospital	Central	Blood	NA
NCHR53	CGMH	2010	Hospital	Central	Blood	NA
NCHR59	CGMH	2010	Hospital	Central	Blood	NA
MKR4	CGMH	2010	Hospital	Southern	Blood	84
MKR24	CGMH	2010	Hospital	Southern	Blood	78
MKR53	CGMH	2010	Hospital	Southern	Blood	63
DR4	CGMH	2010	Survey in a conference	Northern	Nose	41-50

sta1645	CGMH	2012	Hospital	Northern	SP	0.5
sta1676	CGMH	2012	Hospital	Northern	SP	0.2
QR949	CGMH	2012	Hospital	Northern	WD	47
QR1130	CGMH	2012	Hospital	Northern	PUS	87
RR5	CGMH	2012	Nursing Home(non-Taiwanese worker)	Northern	Nose	25
RR8	CGMH	2012	Nursing Home(non-Taiwanese worker)	Northern	Nose	26
RR13	CGMH	2012	Nursing Home(non-Taiwanese worker)	Northern	Nose	21
RR14	CGMH	2012	Nursing Home(non-Taiwanese worker)	Northern	Nose	35
RR19	CGMH	2012	Nursing Home(non-Taiwanese worker)	Northern	Nose	34
RR20	CGMH	2012	Nursing Home(non-Taiwanese worker)	Northern	Nose	32
RR23	CGMH	2012	Nursing Home(non-Taiwanese worker)	Northern	Nose	48
RR34	CGMH	2012	Nursing Home(non-Taiwanese worker)	Northern	Nose	29
RR51	CGMH	2012	Nursing Home(non-Taiwanese worker)	Northern	Nose	29
RR62	CGMH	2012	Nursing Home(non-Taiwanese worker)	Southern	Nose	43
RR68	CGMH	2012	Nursing Home(non-Taiwanese worker)	Southern	Nose	37
RR96	CGMH	2012	Nursing Home(non-Taiwanese worker)	Northern	Nose	23
RR97	CGMH	2012	Nursing Home(non-Taiwanese worker)	Northern	Nose	24
RR103	CGMH	2012	Nursing Home(non-Taiwanese worker)	Northern	Nose	23
RR111	CGMH	2012	Nursing Home(non-Taiwanese worker)	Northern	Nose	66
RR7	CGMH	2012	Nursing Home(Taiwanese worker)	Northern	Nose	35
RR17	CGMH	2012	Nursing Home(Taiwanese worker)	Northern	Nose	29

RR105	CGMH	2012	Nursing Home (Taiwanese worker)	Northern	Nose	33
RR107	CGMH	2012	Nursing Home (Taiwanese worker)	Northern	Nose	52
RR1	CGMH	2012	Nursing Home (resident)	Northern	Nose	75
ABR10	CGMH	2016	Nursing Home(non-Taiwanese worker)	Northern	Nose	26
ABR23	CGMH	2016	Nursing Home(non-Taiwanese worker)	Northern	Nose	31
ABR29	CGMH	2016	Nursing Home(non-Taiwanese worker)	Northern	Nose	27
ABR39	CGMH	2016	Nursing Home(non-Taiwanese worker)	Northern	Nose	36
ABR102	CGMH	2016	Nursing Home(non-Taiwanese worker)	Northern	Nose	36
ACR3	CGMH	2017	Foreign worker's survey	Northern	Nose	26
ACR10	CGMH	2017	Foreign worker's survey	Northern	Nose	24
ACR14	CGMH	2017	Foreign worker's survey	Northern	Nose	34
ACR15	CGMH	2017	Foreign worker's survey	Northern	Nose	39
ACR33	CGMH	2017	Foreign worker's survey	Northern	Nose	30
ACR34	CGMH	2017	Foreign worker's survey	Northern	Nose	30
ACR35	CGMH	2017	Foreign worker's survey	Northern	Nose	32
ACR36	CGMH	2017	Foreign worker's survey	Northern	Nose	35
ACR37	CGMH	2017	Foreign worker's survey	Northern	Nose	21
ACR52	CGMH	2017	Foreign worker's survey	Northern	Nose	25
ACR40	CGMH	2017	Foreign worker's survey	Northern	Nose	42

TSAR, Taiwan Surveillance of Antimicrobial Resistance, a biennial survey of antimicrobial resistance in Taiwan

CGMH, Chang Gung Memorial Hospital

Supplementary figure 1. Phylogenetic tree of 75 ST45 MRSA isolates identified from Taiwan revealed two clades.

