

Supplementary Table 1: Detailed patient characteristics of the ICI melanoma cohort.

Patient ID	Sex	Age at ICI (years)	BRAF (0 no, 1 yes, NA not applicable)	NRAS (0 no, 1 yes, NA not applicable)	Brain metastases (0 no, 1 yes)	Tissue in relation to ICI	AJCC stage	Overall treatment ICI (days)	ICI response (DC disease control, PD progressive disease, UNK unknown)
FFM_1	female	61	0	NA	0	pre-ICI	IV	498	DC
FFM_2	female	75	0	0	0	pre-ICI	IV	334	PD
FFM_3	female	76	0	0	0	pre-ICI	IV	35	PD
FFM_4	male	79	0	1	0	post-ICI	IV	624	DC
FFM_5	female	74	0	1	1	pre-ICI	IV	770	PD
FFM_6	female	83	0	0	0	post-ICI	IV	1154	PD
FFM_7	male	52	1	NA	1	post-ICI	IV	110	DC
FFM_8	female	73	1	0	0	pre-ICI	IV	105	DC
FFM_9	male	70	0	1	1	pre-ICI	IV	510	PD
FFM_10	male	72	0	1	0	pre-ICI	IV	210	DC
FFM_11	male	86	1	0	1	pre-ICI	IV	168	DC
FFM_12	male	54	0	0	0	pre-ICI	IV	167	DC
FFM_13	female	48	1	0	0	pre-ICI	IV	0	PD
FFM_14	female	44	1	0	1	post-ICI	IV	51	PD
FFM_15	female	72	0	0	0	pre-ICI	IV	126	PD
FFM_16	male	53	0	1	1	pre-ICI	IV	64	PD
FFM_17	male	76	1	0	0	pre-ICI	IV	926	DC
FFM_18	male	40	1	0	1	pre-ICI	IV	141	PD
FFM_19	female	73	1	0	0	pre-ICI	IV	672	DC
FFM_20	male	66	0	0	1	pre-ICI	IV	1057	DC

FFM_21	male	79	0	0	0	pre-ICI	IV	568	PD
FFM_22	male	53	1	NA	1	pre-ICI	IV	49	PD
FFM_23	male	61	0	1	1	pre-ICI	IV	1029	DC
FFM_24	male	43	0	1	1	post-ICI	IV	907	DC
FFM_25	male	89	1	0	0	pre-ICI	IV	293	PD
FFM_26	male	69	1	0	0	pre-ICI	IV	63	DC
FFM_27	male	46	1	NA	0	pre-ICI	IV	870	DC
FFM_28	female	41	0	NA	1	pre-ICI	IV	63	PD
FFM_29	male	52	1	NA	1	post-ICI	IV	63	PD
FFM_30	female	43	1	0	1	post-ICI	IV	142	PD
FFM_31	female	68	0	NA	0	post-ICI	IV	64	PD
FFM_32	male	72	0	1	1	pre-ICI	IV	301	PD
FFM_33	female	75	0	NA	1	post-ICI	IV	43	DC
FFM_34	female	85	0	NA	1	pre-ICI	IV	64	PD
FFM_35	male	65	0	NA	1	pre-ICI	IV	69	PD
FFM_36	male	43	1	0	1	pre-ICI	IV	115	PD
FFM_37	female	46	0	NA	1	post-ICI	IV	61	PD
FFM_38	female	68	0	0	1	post-ICI	IV	1529	PD
FFM_39	male	56	1	NA	0	post-ICI	IV	1793	DC
B_1	male	71	1	0	0	pre-ICI	IV	334	PD
B_2	female	46	0	NA	0	pre-ICI	IV	305	DC
B_3	male	37	0	1	0	post-ICI	IV	238	PD
B_4	male	73	0	1	0	pre-ICI	IV	1257	DC
B_5	female	61	1	0	1	pre-ICI	IV	179	PD
B_6	female	73	1	0	0	pre-ICI	IV	181	PD
B_7	male	59	1	0	1	pre-ICI	IV	153	PD
B_8	male	82	1	0	0	post-ICI	IV	171	PD

B_9	female	56	1	0	0	pre-ICI	IV	155	PD
B_10	male	71	NA	NA	0	pre-ICI	IV	100	UNK
B_11	female	53	1	0	1	pre-ICI	IV	151	PD
B_12	male	82	1	0	0	post-ICI	IV	700	PD
B_13	female	83	0	0	0	post-ICI	IV	1339	DC
B_14	male	63	0	0	0	post-ICI	IV	183	PD
WUE_1	male	80	1	NA	0	pre-ICI	IV	736	DC
WUE_2	male	62	1	NA	0	pre-ICI	IV	68	PD
WUE_3	male	66	0	NA	1	pre-ICI	IV	58	PD
WUE_4	male	60	1	NA	1	pre-ICI	IV	0	UNK
WUE_5	male	75	0	NA	0	pre-ICI	IV	0	UNK
WUE_6	female	67	0	NA	0	pre-ICI	IV	46	DC
WUE_7	male	75	1	NA	0	pre-ICI	IV	505	DC
WUE_8	female	63	0	NA	0	pre-ICI	IV	63	PD
WUE_9	male	63	0	NA	0	pre-ICI	IV	63	UNK
WUE_10	female	54	1	NA	0	pre-ICI	IV	105	PD
WUE_11	female	71	0	NA	0	pre-ICI	IV	70	PD
WUE_12	male	50	0	NA	0	pre-ICI	IV	83	PD