

Supplementary material

Position	Sexe	Age	Organ	Pathology diagnosis	Stage	TNM	Type
A6	F	38	Rectum	Malignant melanoma of rectum	-	-	Malignant
A12	F	52	Rectum	Malignant melanoma of rectum	-	-	Malignant
A14	F	69	Rectum	Malignant melanoma of rectum	-	-	Malignant
B1	F	42	Rectum	Malignant melanoma of rectum	-	-	Malignant
B3	M	75	Rectum	Malignant melanoma of rectum	-	-	Malignant
B10	F	45	Vulva	Malignant melanoma of cunnus	-	-	Malignant
C1	M	52	Skin	Malignant melanoma of right heel	IV	T4N1M1	Malignant
C2	M	71	Skin	Malignant melanoma of right groin	II	T4N0M0	Malignant
C4	F	46	Skin	Malignant melanoma of thigh	II	T4N0M0	Malignant
C5	M	66	Skin	Malignant melanoma of right thigh	II	T4N0M0	Malignant
C6	F	66	Skin	Malignant melanoma of chest wall	II	T4N0M0	Malignant
C8	M	61	Skin	Malignant melanoma of right sole	II	T4N0M0	Malignant
C10	M	52	Skin	Malignant melanoma of left crissum	II	T3N0M0	Malignant
C11	F	47	Skin	Malignant melanoma of right upper arm	II	T4N0M0	Malignant
C13	M	64	Skin	Malignant melanoma of sole	II	T2N0M0	Malignant
D3	F	83	Skin	Malignant melanoma of right little finger	II	T2N0M0	Malignant
D4	F	59	Skin	Malignant melanoma of right rump	I	T1N0M0	Malignant
D5	M	42	Skin	Malignant melanoma of left sole	IV	T3N2M1	Malignant
D7	M	76	Skin	Malignant melanoma of right medial malleolus	III	T4N1M0	Malignant
D8	F	54	Skin	Malignant melanoma of left heel	II	T4N0M0	Malignant
D12	M	65	Skin	Malignant melanoma of right sole	II	T2N0M0	Malignant
D16	M	21	Skin	Malignant melanoma of back	I	T1N0M0	Malignant
E1	F	32	Skin	Malignant melanoma of right lumbar part	II	T4N0M0	Malignant
E2	F	63	Skin	Malignant melanoma of right foot	II	T4N0M0	Malignant
E3	M	51	Skin	Malignant melanoma of back	II	T4N0M0	Malignant
E4	M	73	Skin	Malignant melanoma of right sole	I	T2N0M0	Malignant
E5	M	55	Skin	Malignant melanoma of sole	II	T4N0M0	Malignant
E6	M	72	Skin	Malignant melanoma of left heel	I	T2N0M0	Malignant
E10	F	56	Skin	Malignant melanoma of left leg	II	T3N0M0	Malignant
E11	M	42	Skin	Malignant melanoma of right sole	II	T2N0M0	Malignant
E12	M	51	Skin	Malignant melanoma of left oxter	II	T4N0M0	Malignant
E14	M	61	Skin	Malignant melanoma of left oxter	IV	T4N0M1	Malignant
E15	M	49	Skin	Malignant melanoma of left rump	II	T2N0M0	Malignant
E16	F	46	Skin	Malignant melanoma of right big toe	II	T4N0M0	Malignant
F2	F	74	Skin	Malignant melanoma of right heel	I	T2N0M0	Malignant
F5	M	51	Skin	Malignant melanoma of chest wall	II	T4N0M0	Malignant
F6	M	51	Skin	Malignant melanoma of left upper arm	III	T4N1M0	Malignant
F8	M	45	Skin	Malignant melanoma of crissum	-	-	Malignant
F9	M	61	Skin	Malignant melanoma of right groin	III	T4N2M0	Malignant
F10	F	61	Skin	Malignant melanoma of left sole	II	T4N0M0	Malignant
F12	M	49	Skin	Malignant melanoma of left foot	III	T4N2M0	Malignant
G2	M	50	Nose	Malignant melanoma of right nose	-	-	Malignant
G3	F	47	Nose	Malignant melanoma of right nasal cavity	III	T2N1M0	Malignant
G5	M	56	Nose	Malignant melanoma of nasal cavity	-	-	Malignant
G7	M	45	Skin	Malignant melanoma of right sole	II	T3N0M0	Malignant
G9	F	46	Adipose tissue	Malignant melanoma of right chest wall	II	T4N0M0	Malignant
G12	F	88	Skin	Malignant melanoma of left sole	II	T4N0M0	Malignant
H4	F	67	Eye	Malignant melanoma of right eye	I	T1N0M0	Malignant
H5	F	46	Eye	Malignant melanoma of right eye	III	T4N0M0	Malignant
H7	M	52	Eye	Malignant melanoma of left eye	II	T2N0M0	Malignant
H8	M	44	Eye	Malignant melanoma of left eye	II	T4N0M0	Malignant
H9	M	57	Eye	Malignant melanoma of left eye	III	T4N0M0	Malignant
I3	M	44	Lymph node.	Metastatic malignant melanoma of right oxter	-	-	Metastasis
I6	M	55	Lymph node.	Metastatic malignant melanoma of neck	-	-	Metastasis
I7	F	40	Lymph node.	Metastatic malignant melanoma of right groin	-	-	Metastasis
I9	M	68	Lymph node.	Metastatic malignant melanoma of neck	-	-	Metastasis
I11	M	65	Lymph node.	Metastatic malignant melanoma of groin	-	-	Metastasis
I12	F	61	Lymph node.	Metastatic malignant melanoma of right groin	-	-	Metastasis
I15	F	56	Lymph node.	Metastatic malignant melanoma of right groin	-	-	Metastasis
I16	F	56	Lymph node.	Metastatic malignant melanoma of groin	-	-	Metastasis

J1	F	49	Lymph node.	Metastatic malignant melanoma of neck	-	-	Metastasis
J2	M	49	Lymph node.	Metastatic malignant melanoma of left oter	-	-	Metastasis
J4	F	57	Lymph node.	Metastatic malignant melanoma of right groin	-	-	Metastasis
J6	F	29	Lymph node.	Metastatic malignant melanoma of neck	-	-	Metastasis
J8	M	62	Lymph node.	Metastatic malignant melanoma of left groin	-	-	Metastasis
J10	F	61	Lymph node.	Metastatic malignant melanoma of right groin	-	-	Metastasis
J11	M	68	Lymph node.	Metastatic malignant melanoma of right armpit	-	-	Metastasis
J13	M	52	Lymph node.	Metastatic malignant melanoma of left groin	-	-	Metastasis
J15	F	68	Lymph node.	Metastatic malignant melanoma of left groin	-	-	Metastasis
K5	F	46	Lymph node.	Metastatic malignant melanoma of right neck	-	-	Metastasis
K8	F	47	Skin	Metastatic malignant melanoma of oter	-	-	Metastasis
K9	M	38	Skin	Metastatic malignant melanoma of oter	-	-	Metastasis
K12	F	38	Skin	Metastatic malignant melanoma of left upper arm	-	-	Metastasis
K15	F	52	Spleen	Metastatic malignant melanoma of spleen	-	-	Metastasis
L1	M	39	Bone	Metastatic malignant melanoma of left femur inferior segment	-	-	Metastasis
L2	M	62	Scrotum	Metastatic malignant melanoma of groin	-	-	Metastasis
L3	F	55	Cerebrum	Metastatic malignant melanoma of right occipital lobe of brain	-	-	Metastasis
L6	F	55	Skin	Metastatic malignant melanoma of left groin	-	-	Metastasis
L7	M	49	Skin	Metastatic malignant melanoma of cavitas pelvis	-	-	Metastasis
L12	F	80	Soft tissue	Malignant melanoma of right armpit	-	-	Metastasis
L15	F	41	Soft tissue	Metastatic malignant melanoma of right groin	-	-	Metastasis
L16	M	62	Soft tissue	Metastatic malignant melanoma of groin	-	-	Metastasis
M1	F	44	Breast	Cancer adjacent normal skin tissue	-	-	NAT
M3	F	48	Breast	Cancer adjacent normal skin tissue	-	-	NAT
M4	F	43	Breast	Cancer adjacent normal skin tissue	-	-	NAT
M7	F	37	Skin	Cancer adjacent normal skin tissue	-	-	NAT
M8	M	56	Skin	Cancer adjacent normal skin tissue	-	-	NAT
M9	M	35	Skin	Normal skin tissue	-	-	Normal
M10	M	47	Skin	Normal skin tissue	-	-	Normal

Table S1: Detailed list of the patients cores used for this work. The table gives the alphanumeric code associated to a patient as well as the sex, age, organ of origin of the tumor and some complementary information about pathological diagnostic. Stage, TNM status and type of the tumor (primary, metastasis or healthy) are also given.

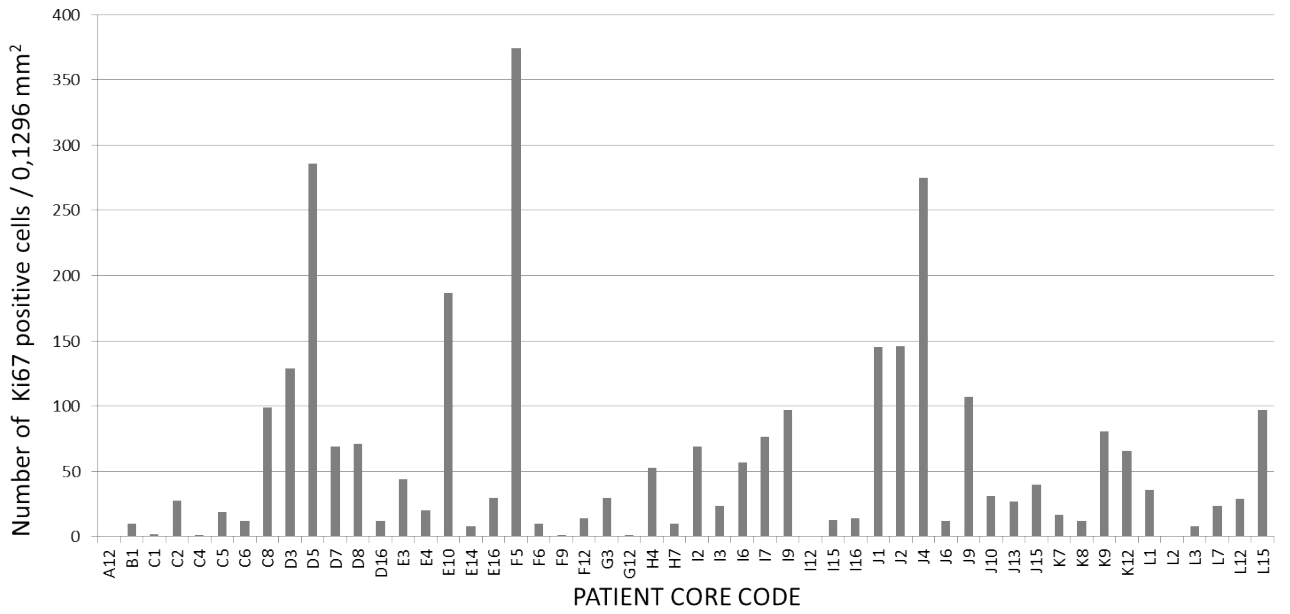


Figure S1: Representation of the number of positive cells for the immunofluorescent staining targeting the Ki67 antigen in the area considered for infrared measurements (i.e. 0.1296 mm²) for each patient core. Patient core code refers to the alphanumeric code attributed in the Figure 1.