SUPPLEMENTARY APPENDIX

Supplement to: 'Tumor characteristics of dissociated response to immune checkpoint inhibition in advanced melanoma'

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Suppl. Table 1. Treatment details per patient

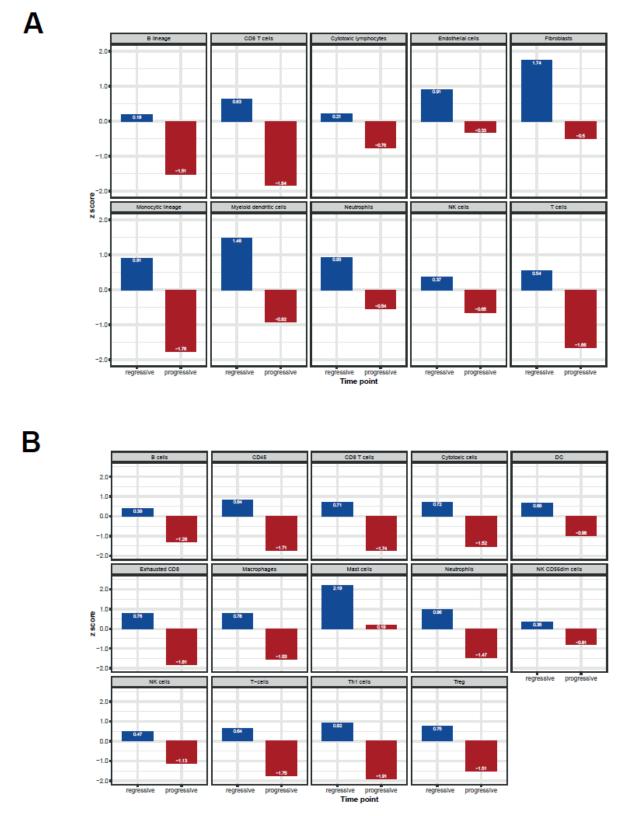
		BOR to		BOR to	ICI		subsequent	BOR to subsequent
Patient	prior DTIC	DITC	prior ICI	prior ICI	treatment	BOR to ICI	treatment	treatment
pat 1					IPI+NIVO	PD*		
pat 2					PEM	PR	PEM	PD
pat 3	yes	SD	IPI	PD	PEM	PR		
pat 4					NIVO	PR		
pat 5			IPI + PEM	NE + PR	PEM	PR		
pat 6					NIVO	MR	NIVO	
pat 7					PEM	PD	IPI	PR
pat 8					IPI+NIVO	PR	NIVO	
pat 9					NIVO	PR		
pat 10					PEM	CR		

*response on subsequent radiotherapy treatment.

BOR: best overall response; ICI: immune checkpoint inhibition; IPI: ipilimumab; NIVO: nivolumab; PEM: pembrolizumab; PD: progressive disease; PR: partial response; MR: mixed response; CR: complete response; NE: non-evaluable.

Antigen processing + presentation	Immune checkpoints	Resistance mechanisms	DNA damage response	
TAP1	CTLA-4	PTEN	BRCA1	
TAP2	PD-1	EGFR	BRCA2	
ТАРВР	LAG-3	MYC	ATM	
TAPBPL	TIM-3		POLE	
HLA-A	TIGIT	β-catenin signaling	FANCE	
HLA-B	VISTA	SOX2	ERCC2	
HLA-C	BTLA	SOX11	MDH6	
B2M		WNT7B		
CALR	Interferon + JAK/STAT	EFNB3	TNF signaling	
NLCR5	IFNG	APC2	CASP8	
PSMB9	IRF	TCF1	TNFRS1A	
PSMB10	STAT1	cMYC	ADO	
PSME1	JAK1	TCF12	AQSTM1	
PSME2	JAK2	VEGFA	GOSR1	
PSME3	IFNGR1			
RFX5	IFNGR2	Chemokines		
HSP90AB1	SOCS1	CXCL9		
CANX	PIAS4	CXCL10		
ERp57		CCR4		
ERAP1		CCR7		
ERAP2				

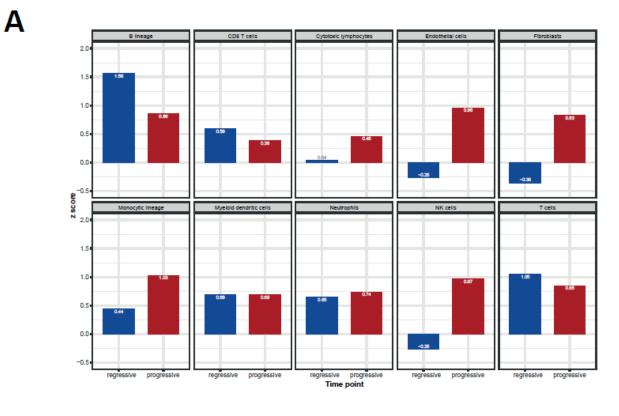
Suppl. Table 2. Overview of DNA mutation in focused analyses



Suppl. Figure 1. MCP counter and Danaher gene expression data of patient 1

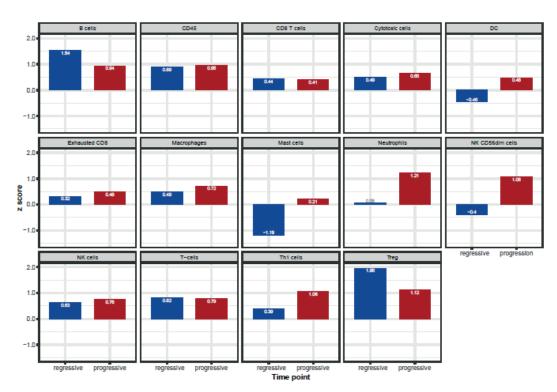
A. Overview of expression of MCP counter genes, in blue for regressive and in red for progressive tumor lesion.

B. Overview of expression of Danaher genes, in blue for regressive and in red for progressive tumor lesion.



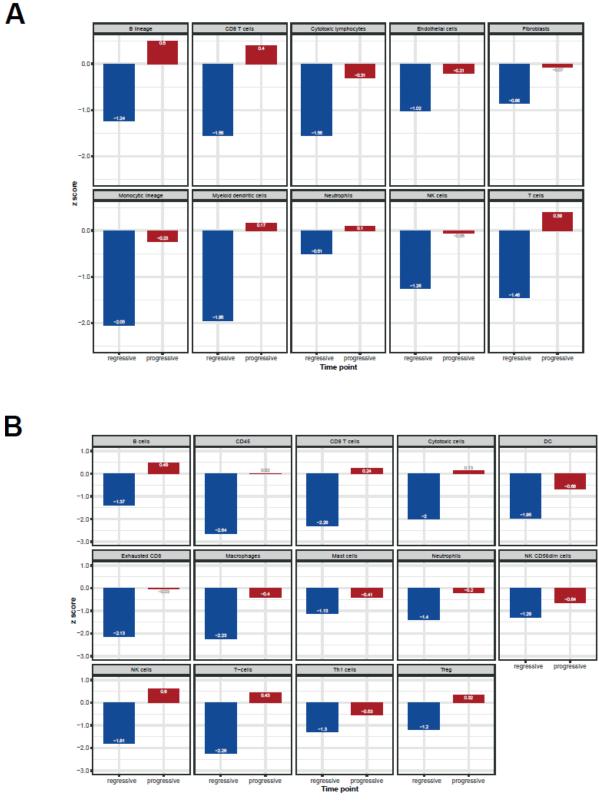
Suppl. Figure 2. MCP counter and Danaher gene expression data of patient 2

В



A. Overview of expression of MCP counter genes, in blue for regressive and in red for new progressive tumor lesion.

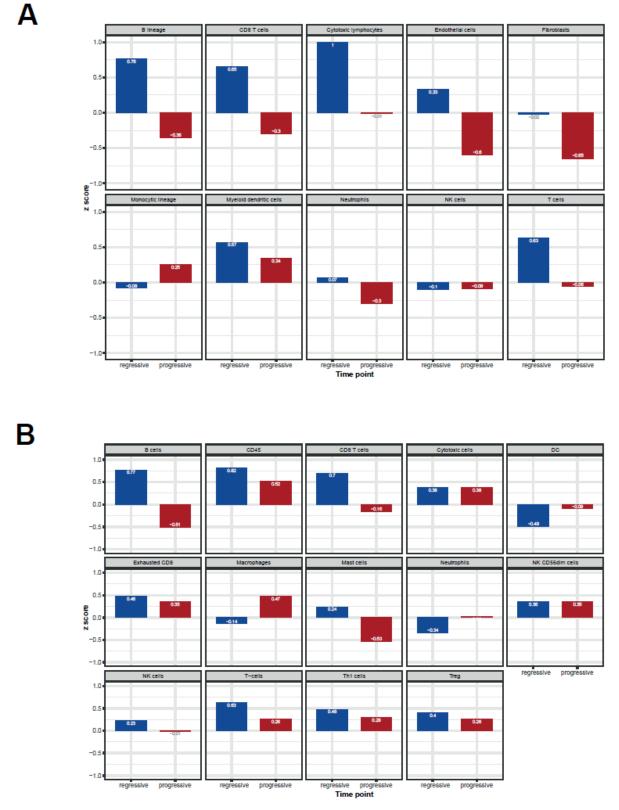
B. Overview of expression of Danaher genes, in blue for regressive and in red for new progressive tumor lesion.



Suppl. Figure 3. MCP counter and Danaher gene expression data of patient 3

A. Overview of expression of MCP counter genes, in blue for regressive and in red for new progressive tumor lesion.

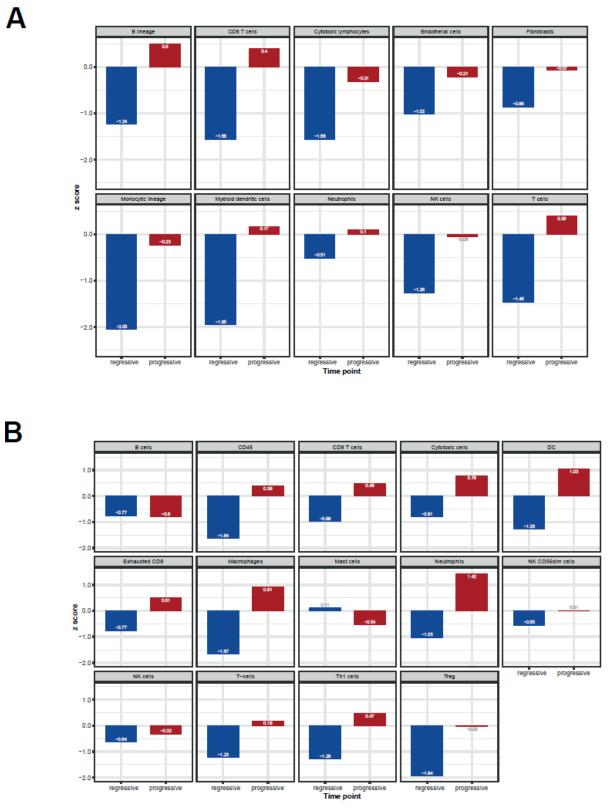
B. Overview of expression of Danaher genes, in blue for regressive and in red for new progressive tumor lesion.



Suppl. Figure 4. MCP counter and Danaher gene expression data of patient 4

A. Overview of expression of MCP counter genes, in blue for regressive and in red for progressive tumor lesion.

B. Overview of expression of Danaher genes, in blue for regressive and in red for progressive tumor lesion.



Suppl. Figure 5. MCP counter and Danaher gene expression data of patient 5

A. Overview of expression of MCP counter genes, in blue for regressive and in red for progressive tumor lesion.

B. Overview of expression of Danaher genes, in blue for regressive and in red for progressive tumor lesion.