

**Table S8. Baseline characteristics, response pattern and their correlation with target lesion size at disease progression (multivariate analysis, n=166)**

Baseline Characteristics	Target lesion size <sup>~</sup>	
	Coefficient (95% CI)	P value
<b>Age<sup>§</sup></b>	-0.002 (-0.302 to 0.298)	.99
<b>Ethnicity<sup>+</sup></b>	-12.587 (-23.550 to -1.624)	.02
<b>Subtype<sup>&amp;</sup></b>		
Acral	-0.431 (-12.953 to 12.091)	.95
Mucosal	-3.094 (-16.911 to 10.723)	.66
Ocular	7.425 (-9.421 to 24.271)	.39
UP	10.055 (-1.940 to 22.050)	.10
<b>Response pattern</b>		
<b>Tumor percent change (%)<sup>§</sup></b>	0.441 (0.356 to 0.526)	<.001
<b>Time to nadir (months)<sup>§</sup></b>	-1.869 (-3.654 to -0.084)	.04
<b>PFS (month)<sup>§</sup></b>	0.708 (-0.353 to 1.769)	.19

<sup>~</sup>Linear regression model, incorporating all variables with statistical significance or marginal significance in bivariate analyses (Table S6) and also adjusted for target lesion size at baseline. <sup>§</sup>As a continuous variable. <sup>+</sup>Non-Caucasian as the reference group. <sup>&</sup>Cutaneous melanoma as the reference. <sup>%</sup>M1a as the reference group.