

# Thin and thick primary cutaneous melanomas reveal distinct patterns of somatic copy number alterations

## Supplementary Material

### SCNA > 0.45 Chromosome Arm

#### M2

Chr	% Alteration/Arm	Gain/Loss
6p	47%	Gain
6q	86%	Loss
7p	53%	Gain
9p	69%	Loss
11p	87%	Gain
18q	55%	Gain
8q	complete (98%)	Gain

#### M11

Chr	% Alteration/Arm	Gain/Loss
6p	47%	High Gain
11p	63%	Gain

#### M14

Chr	% Alteration/Arm	Gain/Loss
4q	55%	Gain
6p	70%	High Gain
7p	61%	Gain
8p	48%	Gain
8p+q	p half (50%)	Gain
	q complete (99%)	Gain
9p	49%	Loss
10q	75%	Loss
10p	p complete (99%)	Loss
11p	76%	Gain
13q	q complete (96%)	Gain
14q	45%	Loss
18p+q	p complete (99%)	Gain
	q complete (96%)	Gain
20p	70%	Gain

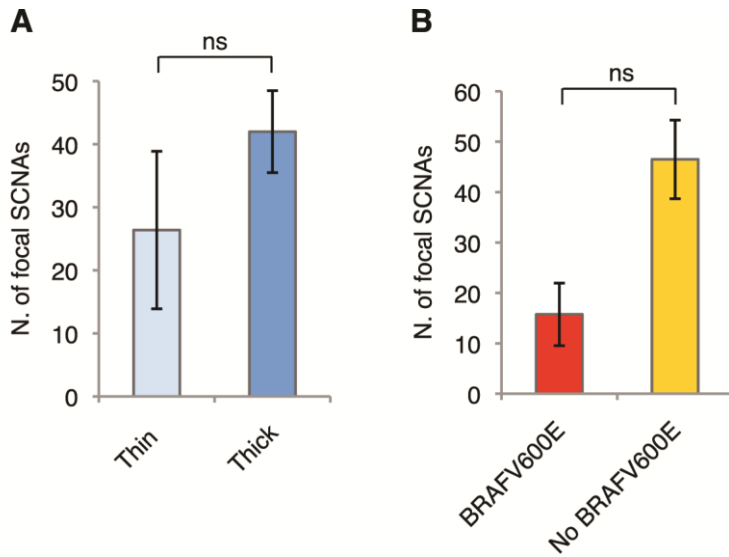
#### M9

Chr	% Alteration/Arm	Gain/Loss
2q	68%	Loss
3q	52%	Loss
6p	47%	High Gain
6q	86%	Loss
8q	80%	Gain
8p	complete (96%)	Gain
19q	complete (95%)	Loss

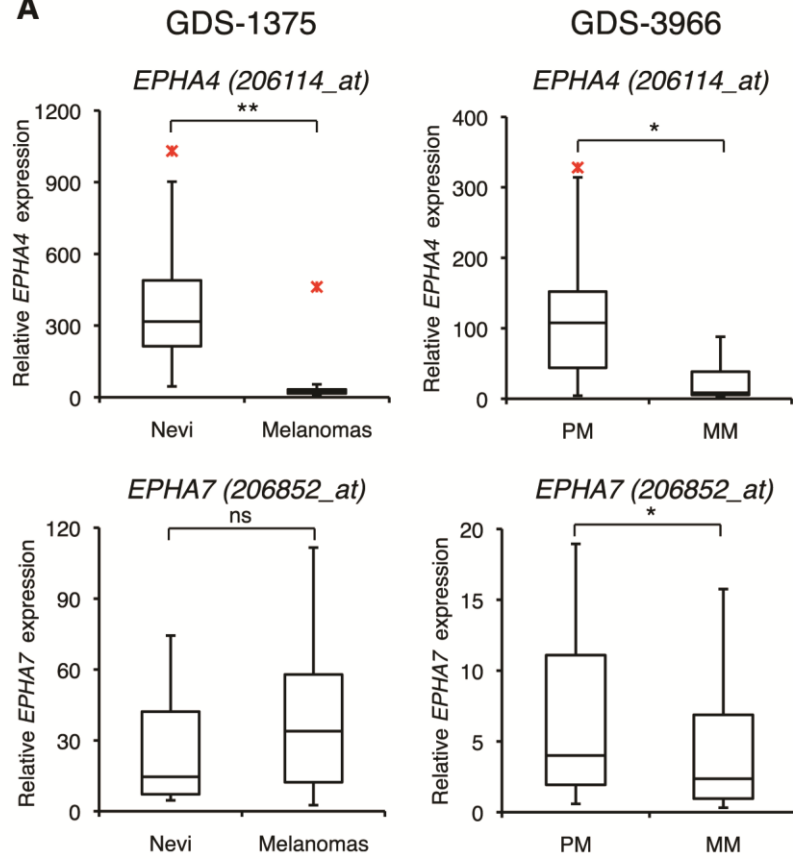
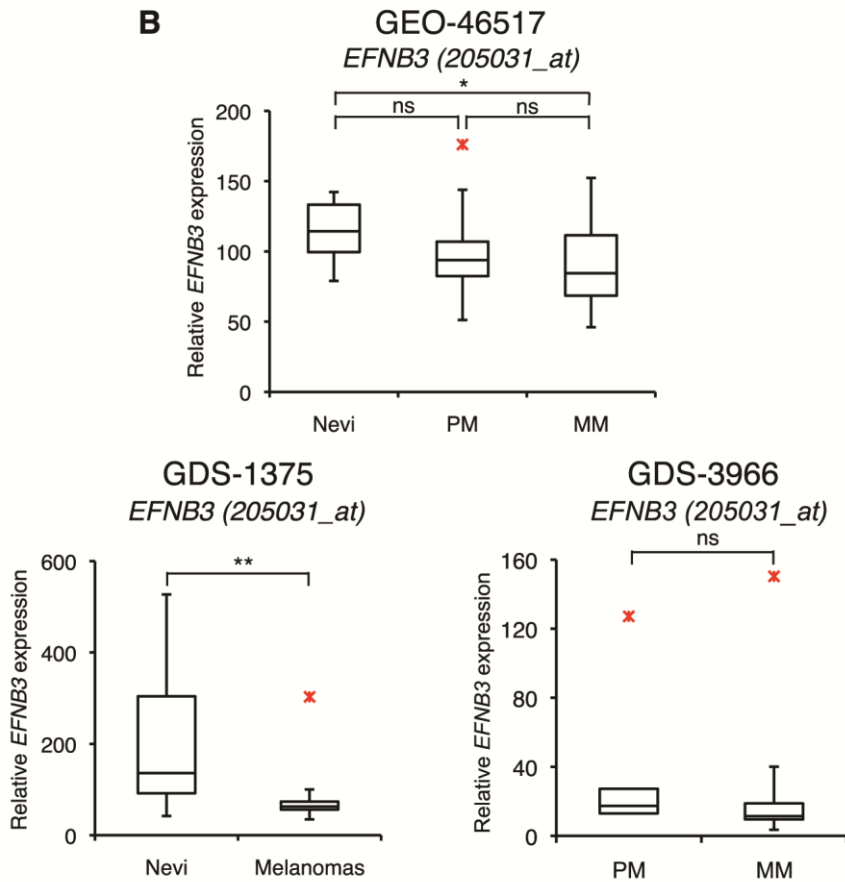
### Common aberrations

Chr	% Alteration/Arm	Gain/Loss	Samples
6p	47%	Gain	M2, M11 M9, M14
6q	at least 85%	Loss	M2, M9
7p	at least 53%	Gain	M2, M14
8p	at least 48%	Gain	M9, M11
9p	at least 50%	Loss	M2, M14
11p	at least 76%	Gain	M2, M11, M14
18q	at least 50%	Gain	M2, M11

Supplementary Figure 1. Chromosome aberrations in four thick melanomas.

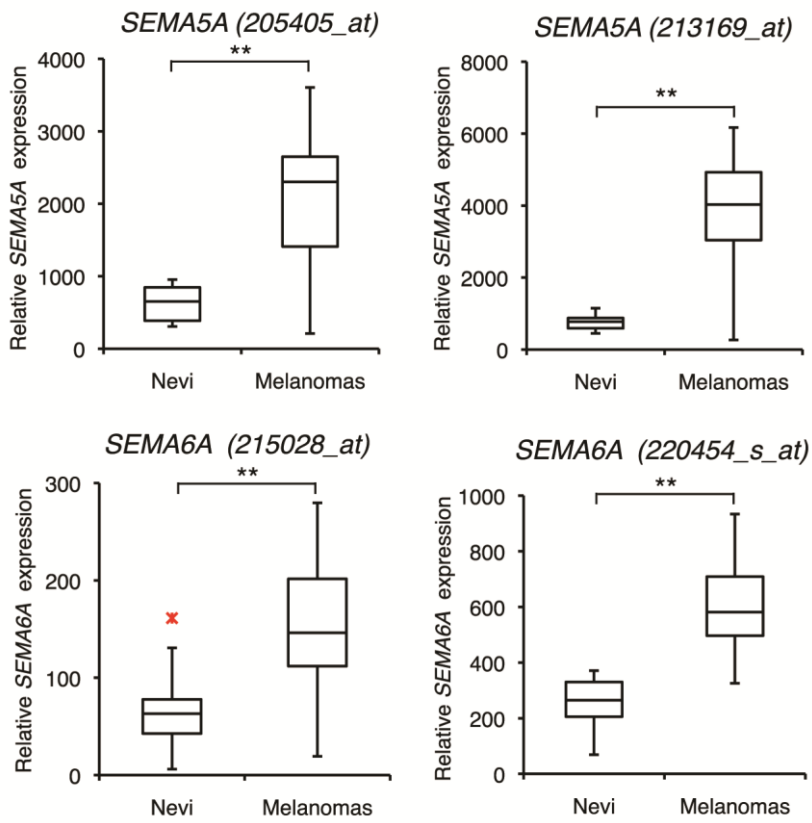


**Supplementary Figure 2.** (A) Number of focal SCNAs in thin (n=5) and thick melanomas (n=5) (p=0.27, Mann-Whitney U test). (B) Number of focal SCNAs in melanomas with BRAFV600E (n=4) and with no BRAFV600E mutation (n=6) (p=0.08, Mann-Whitney U test).

**A****B**

**Supplementary Figure 3.** (A) Expression of *EPHA4* and *EPHA7* mRNA determined by different publicly available microarray data sets (GDS-1375 and GDS-3966). (B) Expression of *EFNB3* mRNA determined by different publicly available microarray data sets (GEO-46517, GDS-1375 and GDS-3966). In GEO-46517 nevi (n=9), primary (n=31) and metastatic (n=73) melanomas. In GDS-1375 nevi (n=17) and melanomas (n=45). In GDS-3966 primary melanomas (n=31) and metastatic melanomas (n=52). PM, primary melanomas; MM, metastatic melanomas. Red crosses indicate outlier values. \*, p<0.05; \*\*, p<0.001.

### GDS-1375



**Supplementary Figure 4.** Expression of *SEMA5A* and *SEMA6A* mRNA in nevi (n=17) and melanomas (n=45) determined by a publicly available microarray data set (GDS-1375). Red crosses indicate outlier values. \*\*, p<0.001.

<b>Table S1:</b>	Summary of genomic data
<b>Table S2:</b>	Summary of somatic mutations
<b>Table S3:</b>	Non-synonymous and stopgain SNVs
<b>Table S4:</b>	Small indels
<b>Table S5:</b>	Splice variants
<b>Table S6:</b>	SCNA gain
<b>Table S7:</b>	SCNA loss
<b>Table S8:</b>	Mutations found in TCGA and Cosmic databases