

Supplemental Material to:

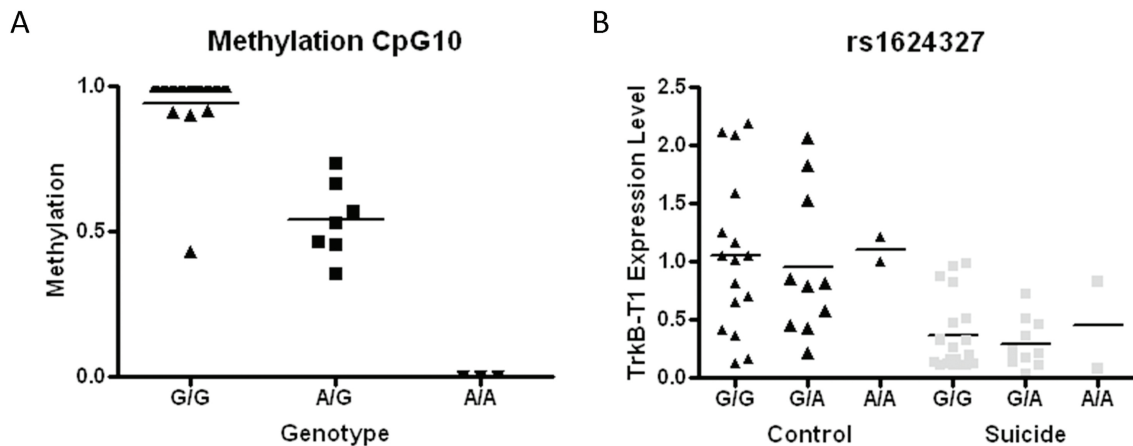
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**Functional DNA methylation in a transcript specific
3' UTR region of TrkB associates with suicide**

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Genotypes and expression levels of TrkB-T1 related to the rs1624327 SNP.

A: Genotype of the initial cohort (13 controls and 11 suicide completers) and the extended cohort (28 controls and 33 suicide completers for the rs1624327)

B: TrkB-T1 expression levels in frontal cortex of controls and suicide completers rearranged by genotypes at the rs1624327.

Supplementary Table 1

Pairwise comparison of methylation levels independently from the groups, between CpG 6 7

8 and 9

(I) CpG	(J) CpG	Mean Difference (I-J)	Std. Error	df	Sig.	95% Confidence Interval for Difference	
						Lower Bound	Upper Bound
6	7	.635*	.038	34.712	.000	.527	.742
	8	.030	.030	41.263	1.000	-.053	.113
	9	.009	.031	41.031	1.000	-.076	.094
7	6	-.635*	.038	34.712	.000	-.742	-.527
	8	-.604*	.041	38.909	.000	-.717	-.491
	9	-.625*	.041	39.421	.000	-.740	-.511
8	6	-.030	.030	41.263	1.000	-.113	.053
	7	.604*	.041	38.909	.000	.491	.717
	9	-.021	.033	43.269	1.000	-.113	.071
9	6	-.009	.031	41.031	1.000	-.094	.076
	7	.625*	.041	39.421	.000	.511	.740
	8	.021	.033	43.269	1.000	-.071	.113

The statistics were corrected for multiple testing according Bonferonni method

p<0.05

Supplementary Table 2

Supplementary Table 2A: Descriptive statistics of TrkB-T1 expression level in groups and genotypes

Group	Genotype	Mean	Std. Error	df	95% Confidence Interval	
					Lower Bound	Upper Bound
Control	G/G	.993	.126	31.325	.736	1.250
	G/A	.916	.150	19.293	.603	1.229
	A/A	1.095	.253	1.777	-.135	2.325
Suicide	G/G	.287	.113	31.415	.056	.517
	G/A	.285	.140	18.838	-.007	.578
	A/A	.464	.243	1.543	-.941	1.868

Supplementary Table 2B: Statistics of the comparison of TrkB-T1 expression inside control and suicide group in between genotypes.

Group	(I) Genotype	(J) Genotype	Mean Difference (I-J)	Std. Error	df	Sig.	95% Confidence Interval for Difference	
							Lower Bound	Upper Bound
Control	G/G	G/A	.077	.196	43.397	1.000	-.412	.566
		A/A	-.102	.282	2.770	1.000	-1.572	1.369
	G/A	G/G	-.077	.196	43.397	1.000	-.566	.412
		A/A	-.179	.304	3.466	1.000	-1.498	1.140
	A/A	G/G	.102	.282	2.770	1.000	-1.369	1.572
		G/A	.179	.304	3.466	1.000	-1.140	1.498
Suicide	G/G	G/A	.001	.181	41.697	1.000	-.450	.453
		A/A	-.177	.268	2.322	1.000	-1.864	1.510
	G/A	G/G	-.001	.181	41.697	1.000	-.453	.450
		A/A	-.179	.278	2.597	1.000	-1.724	1.367
	A/A	G/G	.177	.268	2.322	1.000	-1.510	1.864
		G/A	.179	.278	2.597	1.000	-1.367	1.724