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Risk for major depression (MD) at different levels of exposure to childhood maltreatment and risk genotypes

Table S1. Logistic regression analysis of the risk for MD at different exposure levels according to childhood maltreatment and *SERT* 5-HTTLPR triallelic genotypes

Maltreatment	Genotype	With MD, no.	Without MD, no.	Unadjusted OR (95%CI)	Adjusted OR (95%CI)
Emotional					
No	l/l	140	386	1	1
No	s/*	458	1286	0.98 (0.79–1.22)	0.95 (0.75–1.21)
Yes	l/l	44	54	2.25 (1.44–3.52)	1.60 (0.99–2.57)
Yes	s/*	161	147	3.02 (2.22–4.10)	2.19 (1.59–3.01)
Physical					
No	l/l	162	401	1	1
No	s/*	504	1351	0.92 (0.75–1.12)	0.90 (0.71–1.12)
Yes	l/l	22	37	1.47 (0.84–2.58)	1.15 (0.63–2.10)
Yes	s/*	115	84	3.39 (2.39–4.80)	2.83 (1.97–4.09)
Sexual					
No	l/l	180	426	1	1
No	s/*	581	1414	0.97 (0.77–1.17)	0.94 (0.77–1.17)
Yes	l/l	4	12	0.79 (0.16–1.80)	0.53 (0.16–1.80)
Yes	s/*	38	21	4.28 (2.41–7.60)	3.16 (1.66–6.02)
Overall					
No	l/l	135	364	1	1
No	s/*	424	1249	0.92 (0.73–1.15)	0.86 (0.68–1.01)
Yes	l/l	49	74	1.79 (1.18–2.70)	1.18 (0.76–1.84)
Yes	s/*	195	186	2.83 (2.11–3.78)	2.06 (1.52–2.80)

CI = confidence interval; MD = major depression; OR = odds ratio.

Table S2. Logistic regression analysis of the risk for MD at different exposure levels according to childhood maltreatment and *BDNF* Val66Met genotypes

Maltreatment	Genotype	With MD, no.	Without MD, no.	Unadjusted OR (95%CI)	Adjusted OR (95%CI)
Emotional					
No	Val/Val	407	1015	1	1
No	Met/*	198	666	0.74 (0.61–0.90)	0.73 (0.59–0.90)
Yes	Val/Val	122	125	2.43 (1.84–3.21)	1.81 (1.34–2.43)
Yes	Met/*	76	67	2.83 (1.99–4.02)	2.09 (1.43–3.05)
Physical					
No	Val/Val	435	1067	1	1
No	Met/*	234	689	0.83 (0.69–1.00)	0.82 (0.67–1.01)
Yes	Val/Val	94	73	3.16 (2.27–4.40)	2.70 (1.89–3.85)
Yes	Met/*	40	44	2.23 (1.43–3.48)	1.88 (1.16–3.06)
Sexual					
No	Val/Val	503	1120	1	1
No	Met/*	259	721	0.80 (0.67–0.95)	0.80 (0.66–0.97)
Yes	Val/Val	15	12	2.78 (1.60–5.25)	1.76 (0.79–3.91)
Yes	Met/*	26	20	2.89 (1.29–6.00)	2.25 (1.12–4.51)
Overall					
No	Val/Val	380	980	1	1
No	Met/*	186	644	0.74 (0.61–0.91)	0.74 (0.59–0.91)
Yes	Val/Val	149	160	2.40 (1.86–3.10)	1.80 (1.37–2.37)
Yes	Met/*	88	89	2.55 (1.85–3.52)	1.90 (1.34–2.68)

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Table S3. Logistic regression analysis of the risk for MD at different exposure levels according to childhood maltreatment and both *SERT* 5-HTTLPR triallelic and *BDNF* Val66Met polymorphism genotypes

Maltreatment	Genotype	With MD, no.	Without MD, no.	Unadjusted OR (95%CI)	Adjusted OR (95%CI)
Emotional					
No	I/I and Val/Val	126	277	1	1
No	s/* or Met/*	323	896	0.79 (0.62–1.01)	0.73 (0.57–0.95)
No	s/* and Met/*	156	508	0.68 (0.51–0.89)	0.65 (0.49–0.88)
Yes	I/I and Val/Val	25	39	1.41 (0.82–2.43)	1.14 (0.64–2.03)
Yes	s/* or Met/*	112	100	2.46 (1.73–3.49)	1.75 (1.21–2.55)
Yes	s/* and Met/*	61	53	2.53 (1.64–3.90)	1.96 (1.23–3.12)
Physical					
No	I/I and Val/Val	135	289	1	1
No	s/* or Met/*	352	940	0.80 (0.63–1.02)	0.74 (0.57–0.95)
No	s/* and Met/*	182	527	0.74 (0.57–0.96)	0.72 (0.54–0.95)
Yes	I/I and Val/Val	16	25	1.37 (0.71–2.65)	1.20 (0.60–2.38)
Yes	s/* or Met/*	83	58	3.06 (2.04–4.59)	2.28 (1.48–3.50)
Yes	s/* and Met/*	35	34	2.20 (1.31–3.71)	1.78 (1.02–3.11)
Sexual					
No	I/I and Val/Val	148	307	1	1
No	s/* or Met/*	411	980	0.87 (0.69–1.09)	0.80 (0.63–1.01)
No	s/* and Met/*	203	554	0.76 (0.59–0.98)	0.73 (0.56–0.96)
Yes	I/I and Val/Val	3	7	0.89 (0.23–3.49)	0.62 (0.14–2.78)
Yes	s/* or Met/*	24	18	2.77 (1.44–5.29)	1.97 (0.94–4.11)
Yes	s/* and Met/*	14	7	4.15 (1.62–10.61)	2.71 (1.01–7.28)
Overall					
No	I/I and Val/Val	123	265	1	1
No	s/* or Met/*	297	865	0.74 (0.58–0.95)	0.68 (0.52–0.89)
No	s/* and Met/*	146	494	0.64 (0.48–0.85)	0.61 (0.45–0.82)
Yes	I/I and Val/Val	28	49	1.23 (0.74–2.05)	0.95 (0.55–1.64)
Yes	s/* or Met/*	138	133	2.24 (1.61–3.10)	1.59 (1.12–2.56)
Yes	s/* and Met/*	71	67	2.28 (1.53–3.42)	1.79 (1.15–2.78)

CI = confidence interval; MD = major depression; OR = odds ratio.

Parallel analyses using the *SERT* 5-HTTLPR biallelic polymorphism instead of the 5-HTTLPR triallelic variant

Table S4. Interactions between 5-HTTLPR biallelic, *BDNF* Val66Met and childhood maltreatment on adult major depression, adjusted for sex, age and baseline MD

Interaction	Maltreatment type, OR (95% CI), z score, p value			
	Emotional	Physical	Sexual	Any
Gene × environment				
Maltreatment × 5-HTTLPR	1.353 (0.799–2.289), z = 1.35, p = 0.26	2.043 (1.068–3.905), z = 2.16, p = 0.031	4.417 (1.284–15.188), z = 2.36, p = 0.018	1.680 (1.032–2.732), z = 2.09, p = 0.037
Maltreatment × <i>BDNF</i>	1.576 (0.960–2.586), z = 1.80, p = 0.07	0.842 (0.457–1.550), z = -0.55, p = 0.58	1.080 (0.386–3.018), z = 0.15, p = 0.88	1.418 (0.898–2.239), z = 1.50, p = 0.13
Gene × gene × environment				
Maltreatment × 5-HTTLPR × <i>BDNF</i>	1.795 (1.068–3.017), z = 2.21, p = 0.027	1.082 (0.569–2.058), z = 0.24, p = 0.81	2.232 (1.080–4.613), z = 2.17, p = 0.030	1.746 (1.082–2.818), z = 2.28, p = 0.022

CI = confidence interval; MD = major depression; OR = odds ratio.

Table S5. Akaike Information Criteria (AIC) values as a measure of overall fit of putative explicative models for major depression

Model*	df†	Emotional		Physical		Sexual		Any	
		AIC	AIC–minAIC‡	AIC	AIC–minAIC‡	AIC	AIC–minAIC‡	AIC	AIC–minAIC‡
A, B, C	7	2701.214	1.646	2700.696	2.827	2735.967	4.232	2700.643	3.560
A × B, C	8	2699.568	0	2698.911	1.042	2733.590	1.855	2698.587	1.504
A × C, B	8	2700.892	1.324	2697.869	0	2731.735	0	2697.327	0.244
A, B × C	8	2699.976	0.408	2702.389	4.520	2737.945	6.210	2700.402	3.319
A × B × C	11	2700.252	0.684	2698.687	0.818	2733.046	1.311	2697.083	0

AIC = Akaike information criteria; df = degrees of freedom; MD = major depression.

*All models include (A) 5-HTTLPR biallelic, (B) *BDNF* Val66Met and (C) childhood maltreatment as risk factors and sex, age and baseline MD as covariates.

†Degrees of freedom are associated with the analysis of every AIC model.

‡AIC–minAIC shows the difference between every AIC with respect to the lowest AIC value in each category. Differences lower than 3.84 (1.96²) make the model statistically as good as the model with the minor AIC value.

Table S6. Logistic regression analysis of the risk for MD at different exposure levels according to childhood maltreatment and *SERT* 5-HTTLPR biallelic genotypes

Maltreatment	Genotype	With MD, no.	Without MD, no.	Unadjusted OR (95%CI)	Adjusted OR (95%CI)
Emotional					
No	L/L	159	447	1	1
No	S/*	439	1225	1.01 (0.82–1.24)	0.95 (0.76–1.18)
Yes	L/L	50	58	2.42 (1.58–3.71)	1.70 (1.08–2.68)
Yes	S/*	155	143	3.05 (2.26–4.12)	2.31 (1.68–3.17)
Physical					
No	L/L	181	464	1	1
No	S/*	485	1288	0.97 (0.79–1.18)	0.93 (0.75–1.15)
Yes	L/L	28	39	1.84 (1.10–3.09)	1.46 (0.86–2.49)
Yes	S/*	109	82	3.41 (2.41–4.82)	2.66 (1.84–3.86)
Sexual					
No	L/L	204	491	1	1
No	S/*	557	1349	0.99 (0.82–1.20)	0.95 (0.78–1.17)
Yes	L/L	5	12	1.00 (0.35–2.89)	0.65 (0.21–2.03)
Yes	S/*	37	21	4.24 (2.39–7.51)	3.08 (1.62–5.85)
Overall					
No	L/L	152	425	1	1
No	S/*	407	1188	0.96 (0.77–1.19)	0.89 (0.71–1.12)
Yes	L/L	57	78	2.04 (1.38–3.03)	1.40 (0.92–2.13)
Yes	S/*	187	182	2.87 (2.16–3.82)	2.15 (1.58–2.91)

CI = confidence interval; MD = major depression; OR = odds ratio.

Table S7. Logistic regression analysis of the risk for MD at different exposure levels according to childhood maltreatment and both *SERT* 5-HTTLPR biallelic and *BDNF* Val66Met polymorphisms

Maltreatment	Genotype	With MD, no.	Without MD, no.	Unadjusted OR (95%CI)	Adjusted OR (95%CI)
Emotional					
No	L/L and Val/Val	139	320	1	1
No	S/* or Met/*	315	870	0.83 (0.66–1.06)	0.75 (0.58–0.96)
No	S/* and Met/*	151	491	0.71 (0.54–0.93)	0.67 (0.50–0.90)
Yes	L/L and Val/Val	31	41	1.74 (1.05–2.90)	1.34 (0.78–2.31)
Yes	S/* or Met/*	106	99	2.46 (1.74–3.48)	1.72 (1.19–2.49)
Yes	S/* and Met/*	61	52	2.70 (1.76–4.15)	2.06 (1.30–3.28)
Physical					
No	L/L and Val/Val	149	332	1	1
No	S/* or Met/*	342	915	0.83 (0.66–1.05)	0.75 (0.58–0.95)
No	S/* and Met/*	178	509	0.78 (0.60–1.01)	0.74 (0.56–0.98)
Yes	L/L and Val/Val	21	27	1.73 (0.95–3.17)	1.46 (0.78–2.76)
Yes	S/* or Met/*	79	56	3.14 (2.10–4.71)	2.29 (1.49–3.51)
Yes	S/* and Met/*	34	34	2.23 (1.33–3.74)	1.72 (0.98–3.03)
Sexual					
No	L/L and Val/Val	166	352	1	1
No	S/* or Met/*	398	953	0.89 (0.71–1.10)	0.79 (0.63–1.00)
No	S/* and Met/*	198	536	0.78 (0.61–1.00)	0.75 (0.57–0.97)
Yes	L/L and Val/Val	4	7	1.21 (0.35–4.20)	0.81 (0.21–3.23)
Yes	S/* or Met/*	23	18	2.71 (1.41–5.19)	1.88 (0.90–3.93)
Yes	S/* and Met/*	14	7	4.24 (1.66–10.82)	2.67 (1.00–7.16)
Overall					
No	L/L and Val/Val	135	308	1	1
No	S/* or Met/*	289	839	0.79 (0.62–1.00)	0.70 (0.54–0.91)
No	S/* and Met/*	142	477	0.68 (0.51–0.90)	0.64 (0.47–0.86)
Yes	L/L and Val/Val	35	51	1.57 (0.97–2.52)	1.17 (0.71–1.95)
Yes	S/* or Met/*	132	132	2.28 (1.65–3.15)	1.60 (1.13–2.25)
Yes	S/* and Met/*	70	66	2.42 (1.62–3.61)	1.85 (1.19–2.88)

CI = confidence interval; MD = major depression; OR = odds ratio.