Data supplement

Results in control group

Table DS1 Analysis of covariance of effects of emotion and gender (covaried for age) for accuracy, reaction time, discrimination and bias in the control group ^a					
Measure	Emotion	Gender	Age (covariate)	Emotion × gender	
Accuracy	F(5,490) = 18.844	F(1,98) = 7.146	F(1,98) = 1.791)	F(5,490) = 0.762	
	P < 0.001	P = 0.009	P = 0.18	P = 0.56	
Reaction time	F(5,440) = 0.921	F(1,88) = 4.469	F(1,88) = 3.274	F(5,440) = 1.078	
	P = 0.46	P = 0.037	P = 0.074	P = 0.37	
Discrimination (d')	F(5,490) = 33.466	F(1,98) = 7.732	F(1,98) = 1.175	F(5,490) = 1.034	
	P < 0.001	P = 0.007	P = 0.28	P = 0.39	
Bias (criterion)	F(5,490) = 9.032	F(1,98) = 2.330	F(1,98) = 0.994	F(5,490) = 0.676	
	P < 0.001	P = 0.13	P = 0.32	P = 0.61	

a. Significance levels reported using Greenhouse-Geisser correction but unadjusted degrees of freedom are reported for clarity.

Between-group results

Table DS2 False alarm rates (overall and by emotion) according to group ^a					
	Control group (<i>n</i> = 101) Mean (s.d.)	Currently depressed group (n = 30) Mean (s.d.)	Remitted depressed group (n = 99) Mean (s.d.)		
Overall ^b	0.050 (0.016)	0.060 (0.016)** ^f	0.051 (0.016)** ^g		
Anger ^c	0.071 (0.044)	0.085 (0.043)	0.086 (0.043)		
Disgust	0.043 (0.038)	0.040 (0.039)	0.038 (0.037)		
Fear	0.052 (0.040)	0.060 (0.039)	0.052 (0.039)		
Happiness ^d	0.010 (0.029)	0.024 (0.028)	0.012 (0.028)		
Sadness	0.053 (0.045)	0.067 (0.044)	0.060 (0.044)		
Surprise ^e	0.074 (0.042)	0.084 (0.040)	0.061 (0.041)* ^f ,** ^g		
a. Values are corrected means and standard deviations. <i>Post hoc</i> tests only reported where there is a significant effect of group. b. Analysis of covariance significant effect of group $F(1,225) = 4.353$, $P = 0.014$. c. Analysis of covariance trend effect of group $F(1,225) = 2.975$, $P = 0.053$. d. Analysis of covariance trend effect of group $F(1,225) = 2.824$, $P = 0.061$. e. Analysis of covariance significant effect of group $F(1,225) = 4.501$, $P = 0.012$. f. Comparison with control group. g. Comparison with currently depressed group. * $P < 0.05$, ** $P < 0.01$.					

Table DS3 Analysis of covariance of effects of emotion and group (covaried for age and gender) for accuracy, reaction time, discrimination and bias

Measure	Emotion	Group	Gender (covariate)	Age (covariate)	Emotion \times group
Accuracy	F(5,1125) = 11.900	F(2,225) = 5.340	F(1,225) = 6.610	F(1,225) = 2.391	F(10,1125) = 1.424
	P<0.001	P = 0.005	P = 0.011	P = 0.123	P = 0.17
Reaction time	F(5,1050) = 1.032	F(2,210) = 0.258	F(1,210) = 1.858	F(1,210) = 2.633	F(10,1050) = 2.475
	P = 0.39	P = 0.77	P = 0.174	P = 0.106	P = 0.009
Discrimination (d')	F(5,1125) = 27.024	F(2,225) = 4.850	F(1,225) = 8.494	F(1,225) = 0.461	F(10,1125) = 0.799
	P < 0.001	P = 0.009	P = 0.004	P = 0.498	P = 0.62
Bias (criterion)	F(5,1125) = 3.363	F(2,225) = 4.647	F(1,225) = 0.812	F(1,225) = 3.945	F(10,1125) = 1.356
	P = 0.009	P = 0.011	P = 0.37	P = 0.048	P = 0.21
Significance levels reported using Greenhouse-Geisser correction but unadjusted degrees of freedom are reported for clarity.					

Table DS4 Analysis of covariance of effects of emotion and group (covaried for age) for accuracy, reaction time, discrimination and bias in men and women separately					
Measure	Emotion	Group	Age (covariate)	Emotion × group	
Men					
Accuracy	F(5,335) = 11.099	F(2,67) = 3.091	F(1,67) = 6.964	F(10,335) = 1.293	
	P < 0.001	P = 0.052	P = 0.010	P = 0.242	
Reaction time	F(5,295) = 0.395	F(2,59) = 0.435	F(1,59) = 1.767	F(10,295) = 0.897	
	P = 0.809	P = 0.650	P = 0.189	P = 0.519	
Discrimination (d')	F(5,335) = 23.753	F(2,67) = 1.547	F(1,67) = 4.602	F(10,335) = 0.876	
	P < 0.001	P = 0.22	P = 0.036	P = 0.548	
Bias (criterion)	F(5,335) = 3.172	F(2,67) = 3.552	F(1,225) = 3.945	F(10,335) = 1.449	
	P = 0.012	P = 0.034	P = 0.048	P = 0.169	
Women					
Accuracy	F(5,775) = 13.256	F(2,155) = 4.148	F(1,155) = 0.012	F(10,775) = 0.887	
	P < 0.001	P = 0.018	P = 0.914	P = 0.533	
Reaction time	F(5,740) = 1.732	F(2,148) = 1.271	F(1,148) = 1.359	F(10,740) = 2.145	
	P < 0.001	P = 0.284	P = 0.246	P = 0.025	
Discrimination (d')	F(5,775) = 30.917	F(2,155) = 4.969	F(1,155) = 0.579	F(10,775) = 0.929	
	P < 0.001	P = 0.008	P = 0.448	P = 0.497	
Bias (criterion)	F(5,775) = 5.321	F(2,155) = 2.133	F(1,155) = 1.547	F(10,775) = 0.654	
	P < 0.001	P = 0.122	P = 0.215	P = 0.720	
Significance levels reported using Greenhouse–Geisser correction but unadjusted degrees of freedom are reported for clarity.					



Fig. DS1 Individual face emotion recognition discrimination (*d'*) categorised by group.

Values are age- and gender-corrected means plus standard deviations. *P < 0.05; **P < 0.01 v. currently depressed group.



Fig. DS2 Individual face emotion recognition bias (criterion) categorised by group.

Values are age- and gender-corrected means plus standard deviations. Lower criterion indicates greater bias. ^{+}P < 0.05 v. currently depressed group; **P < 0.01 v. control group.



Fig. DS3 Individual face emotion recognition accuracy categorised by group in participants not taking antidepressants.

Values are age- and gender-corrected means plus standard deviations. Analysis of covariance: emotion, F(5,960) = 11.329, P < 0.001; group, F(2,192) = 8.406, P < 0.001; emotion × group, F(10,960) = 1.543, P = 0.22. *P < 0.05 v. controls; *P < 0.01 v. controls; P < 0.05 v. currently depressed group; P < 0.01 v. currently depressed group.



Fig. DS4 Individual face emotion recognition discrimination (*d'*) categorised by group in participants not taking antidepressants.

Values are age- and gender-corrected means plus standard deviations. Analysis of covariance: emotion, F(5,960) = 22.126, P < 0.001; group, F(2,192) = 6.443, P = 0.002; emotion × group, F(10,960) = 1.040, P = 0.36. *P < 0.05 v. controls; [†]P < 0.05 v. currently depressed group, [†]P < 0.01 v. currently depressed group.



Fig. DS5 Individual face emotion recognition bias (criterion) categorised by group in participants not taking antidepressants.

Values are age- and gender-corrected means plus standard deviations. Lower criterion indicates greater bias. Analysis of covariance: emotion, *F*(5,960) = 4.347, *P* = 0.002; group, *F*(2,192) = 7.151, *P* = 0.001; emotion × group, *F*(10,960) = 1.389, *P* = 0.25. **P* < 0.05 v. controls; **P* < 0.05 v. currently depressed group.