SOCIAL EXCLUSION AND WOMEN'S SHORT-TERM SEXUAL MOTIVATION: THE ROLE OF PERCEIVED VULNERABILITY

SUPPLEMENTAL MATERIALS

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Study 1 Results

See Table S1a for model fit statistics for all iterative models and Table S1b for standardized local fit statistics and main effects for all iterative models.

Exclusion and Participant Sex Interaction on Short-Term Mating Motive Outcomes

To test whether social exclusion influenced unpartnered men and women's sexual unrestrictedness, desired mate investment, and openness to sexual intercourse scales, I conducted individual 2 (Participant sex: male vs. female) X 3 (Experimental condition: exclusion, inclusion, neutral control) between subjects analyses of variance (ANOVAs) on each outcome measure. The results revealed a significant main effect of participant sex on each sexual unrestrictedness, F(1, 176) = 47.95, $p \le .001$, $n_{partial}^2 = .21$, desired mate investment, F(1, 176) = 29.41, $p \le .001$, $n_{partial}^2 = .14$, and openness to sexual intercourse, F(1, 176) = 27.66, $p \le .001$, $n_{partial}^2 = .14$. More specifically, these results indicated that unpartnered men in Study 1 expressed greater sexual unrestrictedness and openness to sexual intercourse, as well as reported desiring less investment from a potential sexual partner, compared to unpartnered women.

However, these results also revealed no significant main effect of social exclusion on sexual unrestrictedness, F(2, 176) = 1.14, p = .323, $\eta_{partial}^2 = .01$, desired mate investment, F(2, 176) = 0.16, p = .850, $\eta_{partial}^2 = .002$, or openness to sexual intercourse, F(2, 176) = 0.18, p = .175, $\eta_{partial}^2 = .02$. Lastly, the results revealed no significant interaction between participant sex and exclusion on sexual unrestrictedness, F(2, 176) = 0.15, p = .865, $\eta_{partial}^2 = .002$, desired mate investment, F(2, 176) = 2.07, p = .129, $\eta_{partial}^2 = .02$, or openness to sexual

intercourse, F(2, 176) = 0.90, p = .409, $\eta_{\text{partial}}^2 = .01$ (see Figures 1a-b). Overall, the results of these individual ANOVAs suggest that, while unpartnered men generally express greater sexual unrestrictedness and openness to sexual intercourse, and lower desired investment from a potential mate, compared to unpartnered women, social exclusion does not lead these men or women to expresses differences in these outcomes compared social inclusion or a neutral control.

Table S1a

Study 1 Summary	of Model Fit Indices for Iterative Models
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Model	$\chi^2(df)$	CFI	RMSEA	SRMR
Covariates – model 1	16.24 (18)	1.00	≤.001	0.02
Covariates – model 2	9.74 (6)	0.99	0.06	0.02
Covariates – model 3	8.87 (4)	0.99	0.08	.03
STM Motives – model 1	18.39 (10)*	0.98	0.07	0.02
STM Motives – model 2	11.15 (8)	0.99	0.05	0.02

Note. STM = Short Term Mating Motive latent construct; $\chi^2(df)$ = chi-square test of model fit (degrees of freedom); CFI = comparative fit index; RMSEA = root mean square error of approximation; SRMR = standardized root mean square residual. * $p \le .05$. Reported models are in bold face type.

Table S1b

	Model	B(SD)	t	р
Covariates – mod	lel 1			
	Age	0.52 (0.32)	1.65	0.100
	Negative Mood	0.07 (0.09)	0.79	0.431
	Positive Mood	0.10 (0.11)	0.91	0.365
STM Motives	Childhood SES	-0.05 (0.40)	-0.13	0.896
	Adult SES	0.35 (0.29)	1.20	0.230
	Childhood Unpredictability	0.46 (0.56)	0.81	0.418
	Adult Unpredictability	0.05 (0.42)	0.13	0.901
	Parent Relationship	-0.97 (0.49)	-1.96	0.050
	Childhood Neighborhood	-0.88 (0.47)	-1.88	0.060
Covariates – mod	lel 2			
	Age	0.10 (0.08)	1.14	0.255
STM Motives	Parent Relationship	-0.28 (0.08)	-3.68	≤ 0.001
	Childhood Neighborhood	-0.19 (0.08)	-2.57	0.010
Covariates – mo	del 3			
	Parent Relationship	-0.29 (0.08)	-3.79	≤ 0.001
STM Motives	Childhood Neighborhood	-0.19 (0.08)	-2.54	0.011
STM Motives –	model 1			
	Parent Relationship	-0.22 (0.08)	-2.76	0.006
	Childhood Neighborhood	-0.21 (0.08)	-2.77	0.006
STM Motives	Participant Sex	-0.53 (0.09)	-5.65	≤ 0.001
	Condition	-0.01 (0.13)	-0.10	0.920
	Sex * Condition	0.12 (0.15)	0.78	0.436
STM – model 2				
	Parent Relationship	-0.21 (0.08)	-2.73	0.006
STM Madires	Childhood Neighborhood	-0.22 (0.08)	-2.85	0.004
STM Motives	Participant Sex	-0.47 (0.07)	-7.02	≤ 0.001
	Condition	0.07 (0.07)	1.08	0.280

Study 1 Standardized Local Fit Statistics and Main Effects for Iterative Models

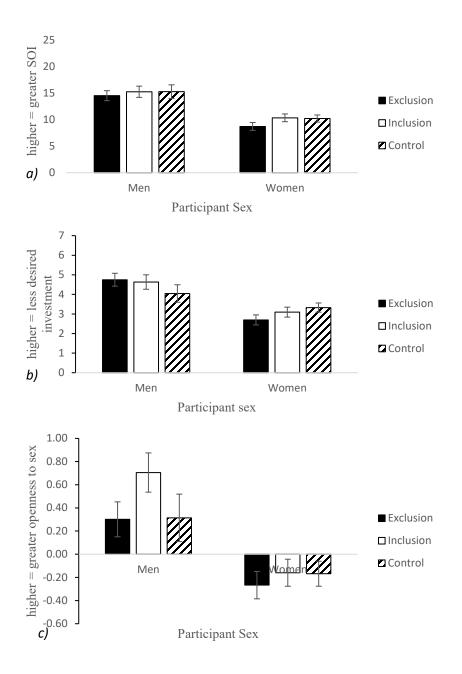


Figure S1a-c. Study 1 participant (a) Sexual Unrestrictedness, (b) Desired Mate Investment, and (c) Openness to Sexual Intercourse as a function of the interaction between participant sex and condition.

Note. SOI = sexual unrestrictedness

Study 2a Results

See Table 8a for model fit statistics for all iterative models and Table 8b for standardized local fit statistics and main effects for all iterative models for Study 2a. Due to an insufficient sample size of male participants (< 20 men per condition), sex differences could not be assessed and analyses for Study 2a were restricted to only the 138 female participants in order to avoid potential skewing of STM scores by the male participants. Importantly, the pattern of results for Study 2a do not change with the inclusion of male participants.

Main Effect of Exclusion on Short-Term Mating Motive Outcomes

To examine whether a forecast of future exclusion influenced unpartnered women's sexual unrestrictedness, desired mate investment, and openness to sexual intercourse, I conducted a one-way multivariate analysis of variance (MANOVA) on each outcome measure with exclusion condition as the independent variable. The results revealed no significant main effect of exclusion condition on sexual unrestrictedness, F(2, 134) = 1.37, p = .258, $\eta_{partial}^2 = .02$, desired mate investment, F(2, 134) = 0.54, p = .585, $\eta_{partial}^2 = .01$, or openness to sexual intercourse, F(2, 134) = 1.60, p = .206, $\eta_{partial}^2 = .02$ (see Figures 2a-c). More specifically, these results indicated that unpartnered women in Study 2a that received a future forecast of social exclusion did not differ in their reported sexual unrestrictedness, desired investment from a potential mate, or openness to sexual intercourse from women that received a future forecast of social inclusion or a neutral control.

Model	$\chi^2(df)$	CFI	RMSEA	SRMR
Covariates – model 1	31.03 (18)*	0.94	0.07	0.02
Covariates – model 2	3.31 (4)	1.00	≤ 0.001	0.02
STM Motives – model 1	7.78 (6)	0.99	0.05	0.03

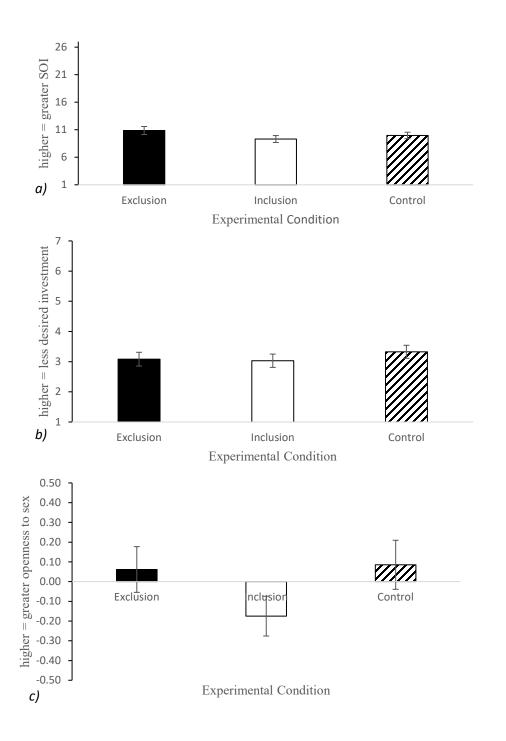
Table S2aStudy 2a Summary of Model Fit Indices for Iterative Models

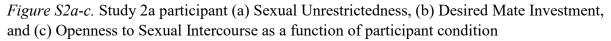
Note. STM = Short Term Mating Motive latent construct; $\chi^2(df)$ = chi-square test of model fit (degrees of freedom); CFI = comparative fit index; RMSEA = root mean square error of approximation; SRMR = standardized root mean square residual. * $p \le .05$. Reported models are in bold face type.

Table S2b

Study 2a Standardized Local Fit Statistics and Main Effects for Iterative Models

	Model	B(SD)	t	р
Covariates – mo	del 1			
	Age			
	Negative Mood	0.11 (0.08)	1.43	0.153
	Positive Mood	0.18 (0.10)	1.79	0.074
	Childhood SES	-0.01 (0.11)	-0.08	0.937
STM Motives	Adult SES	0.27 (0.12)	2.29	0.022
	Childhood Unpredictability	-0.08 (0.09)	-0.83	0.409
	Adult Unpredictability	0.03 (0.18)	0.16	0.873
	Parent Relationship	-0.07 (0.17)	-0.39	0.696
	Childhood Neighborhood	-0.06 (0.12)	-0.50	0.615
		-0.11 (0.11)	-0.97	0.335
Covariates – m	odel 2			
STM Motives	Childhood SES	0.14 (0.08)	1.80	0.072
STM Mouves	Negative Mood	0.19 (0.08)	2.26	0.024
STM Motives -	model 1			
	Childhood SES	0.15 (0.08)	1.84	0.066
STM Motives	Negative Mood	0.21 (0.08)	2.43	0.015
	Condition	0.05 (0.10)	0.49	0.622





Note. SOI = sexual unrestrictedness

Study 2b Results

See Table S3a for model fit statistics for all iterative models and Table S3b for standardized local fit statistics and main effects for all iterative models for 2b.

Exclusion and Participant Sex Interaction on Short-Term Mating Motive Outcomes

To examine whether a future forecast of exclusion influenced unpartnered men and women's sexual unrestrictedness, desired mate investment, and openness to sexual intercourse, I conducted individual 2 (Participant sex: male vs. female) X 3 (Experimental condition: exclusion, inclusion, neutral control) between subjects ANOVAs on each outcome measure. The results revealed a significant main effect of participant sex on each sexual unrestrictedness, F(1, 228) = 36.48, $p \le .001$, $\eta_{partial}^2 = .14$, desired mate investment, F(1,228) = 36.22, $p \le .001$, $\eta_{partial}^2 = .14$, and openness to sexual intercourse, F(1, 176) = 45.18, $p \le .001$, $\eta_{partial}^2 = .17$. These results suggest that, irrespective of condition, unpartnered men in Study 2b expressed greater sexual unrestrictedness and openness to sexual intercourse, and reported desiring less investment from a potential sexual partner, compared to unpartnered women.

However, these results also revealed no significant main effect of social exclusion condition on sexual unrestrictedness, F(2, 228) = .80, p = .449, $\eta_{partial}^2 = .01$, desired mate investment, F(2, 228) = .30, p = .744, $\eta_{partial}^2 = .003$, or openness to sexual intercourse, F(2, 228) = .30, p = .738, $\eta_{partial}^2 = .003$. Lastly, the results revealed no significant interaction between participant sex and exclusion condition on sexual unrestrictedness, F(2, 228) = .98, p = .376, $\eta_{partial}^2 = .01$, desired mate investment, F(2, 228) = .50, p = .608, $\eta_{partial}^2 = .004$, or openness to sexual intercourse, F(2, 228) = .22, p = .806, $\eta_{partial}^2 = .002$ (see Figures 3a-b). Consistent with the results of Study 1, the results of these individual ANOVAs suggest that, while men generally express greater sexual unrestrictedness and openness to sexual intercourse, and lower desired investment from a potential mate, compared to women, men or women that are socially excluded do not expresses differences in these outcomes compared men and women that are socially included or experience a neutral control.

Table S3a

Study 2b Summar	of Mo	del Fit In	dices for	Iterative Models
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Model	$\chi^2(df)$	CFI	RMSEA	SRMR
Covariates – model 1	31.25 (20)*	0.98	0.05	0.02
Covariates – model 2	17.50 (12)	0.99	0.04	0.02
Covariates – model 3	16.87 (8)*	0.98	0.07	0.02
Covariates – model 4	16.33 (6)	0.98	0.09	0.02
STM Motives – model 1	22.57 (12)*	0.98	0.06	0.02
STM Motives – model 2	21.97 (10)*	0.98	0.07	0.02

Note. STM = Short Term Mating Motive latent construct; $\chi^2(df)$ = chi-square test of model fit (degrees of freedom); CFI = comparative fit index; RMSEA = root mean square error of approximation; SRMR = standardized root mean square residual. * $p \le .05$. Reported models are in bold face type.

Table S3b

	Model	B(SD)	t	р
Covariates – mo	del 1			
	Age	-0.04 (0.07)	-0.50	0.619
	Negative Mood	-0.07 (0.08)	-0.80	0.422
	Positive Mood	-0.21 (0.08)	-0.59	0.010
	Childhood SES	0.16 (0.08)	2.02	0.044
	Adult SES	0.09 (0.07)	1.18	0.239
STM Motives	Childhood Unpredictability	-0.18 (0.10)	-1.84	0.065
	Adult Unpredictability	0.13 (0.07)	1.90	0.057
	Parent Relationship	-0.11 (0.09)	-1.20	0.231
	Childhood Neighborhood	-0.16 (0.08)	-1.92	0.055
	Mating Experience	0.45 (0.06)	7.23	≤ 0.001
Covariates – mo	del 2			
	Positive Mood	-0.19 (0.07)	-2.63	0.009
	Childhood SES	0.16 (0.07)	2.19	0.029
	Childhood Unpredictability	-0.11 (0.08)	-1.37	0.171
STM Motives	Adult Unpredictability	0.09 (0.06)	1.51	0.131
	Childhood Neighborhood	-0.15 (0.08)	-1.87	0.061
	Mating Experience	0.44 (0.06)	7.16	≤ 0.001
Covariates – mo	del 3			
	Positive Mood	-0.20 (0.07)	-2.94	0.003
STM Motives	Childhood SES	0.17 (0.07)	2.44	0.015
STM Mouves	Childhood Neighborhood	-0.12 (0.08)	-1.54	0.124
	Mating Experience	0.43 (0.06)	7.01	≤ 0.001
Covariates – mo	odel 4			
	Positive Mood	-0.21 (0.07)	-3.20	0.001
STM Motives	Childhood SES	0.11 (0.07)	1.68	0.092
	Mating Experience	0.44 (0.06)	7.25	≤ 0.001
STM Motives –	model 1			
	Positive Mood	-0.23 (0.06)	-3.95	≤ 0.001
	Childhood SES	0.13 (0.06)	2.23	0.026
STM Motives	Mating Experience	0.48 (0.05)	8.93	≤ 0.001
S I WI WIOUVES	Participant Sex	-0.47 (0.09)	-5.24	≤ 0.001
	Condition	0.07 (0.08)	0.88	0.377
	Sex * Condition	-0.01 (0.11)	-0.07	0.946
STM Motives –	model 2			
	Positive Mood	-0.23 (0.06)	-4.00	≤ 0.001
STM Motives	Childhood SES	0.13 (0.06)	2.26	0.024
	Mating Experience	0.48 (0.05)	9.10	≤ 0.001

Study 2b Standardized Local Fit Statistics and Main Effects for Iterative Models

Participant Sex	-0.48 (0.05)	-10.10	≤ 0.001
Condition	0.07 (0.05)	1.22	0.221

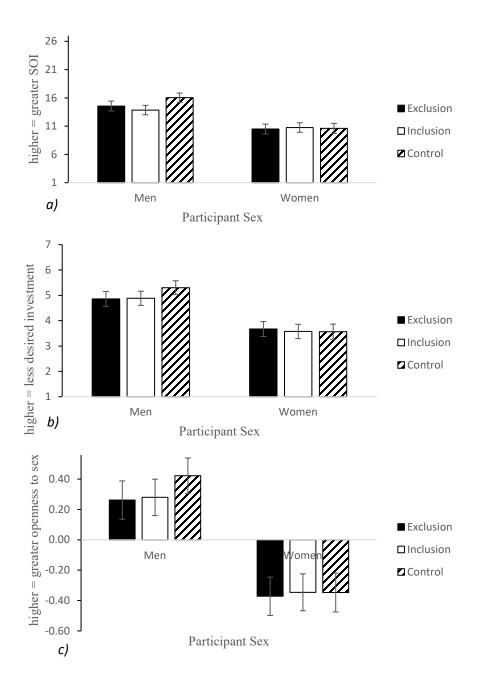


Figure S3a-c. Study 2b participant (a) Sexual Unrestrictedness, (b) Desired Mate Investment, and (c) Openness to Sexual Intercourse as a function of the interaction between participant sex and condition.

Note. SOI = sexual unrestrictedness

Study 3 Results

See Table S4a for model fit statistics for all iterative models, Table S4b for standardized local fit statistics and main effects for all iterative models.

Main Effect of Exclusion on Study Outcome Measures

To examine whether a forecast of future exclusion influenced unpartnered women's sexual unrestrictedness, desired mate investment, openness to sexual intercourse, perceived vulnerability to physical threats, and affiliation motives, I conducted a one-way multivariate analysis of variance (MANOVA) on each outcome measure with exclusion condition as the independent variable. The results revealed no significant main effect of exclusion condition on sexual unrestrictedness, F(1, 132) = 1.17, p = .281, $\eta_{\text{partial}}^2 = .01$, desired mate investment, F(1, 131) = .24, p = .624, $\eta_{\text{partial}}^2 = .002$, openness to sexual intercourse, F(1, 132) = 1.09, p = .298, $\eta_{\text{partial}}^2 = .01$. perceived vulnerability, F(1, 133) = .07, p = .789, $\eta_{\text{partial}}^2 = .001$, or affiliation motives, F(1, 133) = 1.60, p = .208, $\eta_{\text{partial}}^2 = .01$ (see Figures 4a-e). Overall, these results indicated that unpartnered women in Study 3 that received a future forecast of social exclusion or a forecast of social inclusion did not differ in any of their scores for reported sexual unrestrictedness, desired investment from a potential mate, openness to sexual intercourse, perceived vulnerability to physical threats, or affiliation motives.

$\chi^2(df)$	CFI	RMSEA	SRMR
24.27 (24)	1.00	0.01	0.02
26.98 (26)	1.00	0.02	0.04
28.36 (27)	1.00	0.02	0.04
28.91 (29)	1.00	≤ 0.001	0.03
< 0.001 (0)*	1.00	< 0.001	< 0.001
			< 0.001
	26.98 (26) 28.36 (27)	$24.27 (24)$ 1.00 $26.98 (26)$ 1.00 $28.36 (27)$ 1.00 $28.91 (29)$ 1.00 $\leq 0.001 (0)^*$ 1.00	$24.27 (24)$ 1.00 0.01 $26.98 (26)$ 1.00 0.02 $28.36 (27)$ 1.00 0.02 $28.91 (29)$ $1.00 \leq 0.001$ $\leq 0.001 (0)^*$ $1.00 \leq 0.001$

Table S4aStudy 3 Summary of Model Fit Indices for Iterative Models

Note. STM = Short Term Mating Motive latent construct; Primary Outcomes = model including STM, perceived physical vulnerability, and affiliation motives as dependent variables; $\chi^2(df)$ = chi-square test of model fit (degrees of freedom); CFI = comparative fit index; RMSEA = root mean square error of approximation; SRMR = standardized root mean square residual. * $p \le .05$. Reported models are in bold face type.

Table S4b

	Model	B(SD)	t	р
Primary Outcome	e Covariates – model 1			
	Age	0.01 (0.09)	0.15	0.881
	Negative Mood	0.003 (0.09)	0.03	0.974
	Positive Mood	-0.24 (0.08)	-2.88	0.004
	Childhood SES	0.09 (0.11)	0.90	0.368
STM Motives	Adult SES	-0.13 (0.09)	-1.33	0.182
STM Mouves	Childhood Unpredictability	0.19 (0.11)	1.73	0.085
	Adult Unpredictability	-0.07 (0.08)	-0.78	0.435
	Parent Relationship	0.02 (0.09)	0.24	0.808
	Childhood Neighborhood	-0.03 (0.10)	-0.30	0.764
	Mating Experience	0.58 (0.07)	8.10	≤ 0.001
	Age	0.17 (0.08)	2.10	0.036
	Negative Mood	0.17 (0.09)	1.95	0.052
	Positive Mood	-0.13 (0.09)	-1.43	0.154
	Childhood SES	0.11 (0.10)	1.09	0.274
Perceived	Adult SES	-0.67 (0.08)	-3.19	0.001
Vulnerability	Childhood Unpredictability	0.04 (0.10)	0.35	0.725
	Adult Unpredictability	0.05 (0.09)	0.59	0.557
	Parent Relationship	-0.03 (0.10)	-0.32	0.753
	Childhood Neighborhood	-0.17 (0.11)	-1.56	0.118
	Mating Experience	-0.13 (0.08)	-1.62	0.105
	Age	-0.27 (0.09)	-3.19	0.001
	Negative Mood	-0.10 (0.09)	-1.04	0.298
	Positive Mood	-0.03 (0.10)	-0.31	0.753
	Childhood SES	0.10 (0.09)	1.06	0.287
Affiliation	Adult SES	-0.01 (0.10)	-0.13	0.896
Motives	Childhood Unpredictability	0.03 (0.12)	0.28	0.780
	Adult Unpredictability	0.06 (0.09)	0.70	0.483
	Parent Relationship	0.06 (0.11)	0.52	0.601
	Childhood Neighborhood	0.16 (0.11)	1.42	0.156
	Mating Experience	0.16 (0.08)	1.89	0.059
Primary Outcome	e Covariates – model 2			
	Positive Mood	-0.24 (0.07)	-3.28	0.001
STM Motives	Childhood Unpredictability	0.16 (0.08)	2.03	0.241
	Mating Experience	0.60 (0.06)	10.01	≤ 0.001
Deve eizz 1	Age	0.08 (0.07)	1.17	0.241
Perceived	Negative Mood	0.26 (0.08)	3.09	0.002
Vulnerability	Adult SES	-0.31 (0.09)	-3.60	≤ 0.001

Study 3 Standardized Local Fit Statistics and Main Effects for Iterative Models

Affiliation	Age	-0.24 (0.08)	-3.15	0.002
Motives	Mating Experience	0.19 (0.09)	2.20	0.002
	ne Covariates – model 3	0.17 (0.07)	2.20	0.05
	Positive Mood	-0.24 (0.07)	-3.29	0.001
STM Motives	Childhood Unpredictability	0.16 (0.08)	2.05	0.001
STIVI WOUVES	Mating Experience	0.60 (0.06)	2.03 9.96	≤ 0.001
Perceived	Negative Mood	0.25 (0.09)	2.92	0.001
Vulnerability	Adult SES	-0.32(0.09)	-3.65	≤ 0.001
Affiliation				
Motives	Age Moting Experience	-0.24 (0.08)	-3.18	$0.001 \\ 0.028$
	Mating Experience	0.19 (0.09)	2.20	0.028
Primary Outcon	ne Main Effects – model 1			
	Positive Mood	-0.26 (0.07)	-3.68	≤ 0.001
STM Motives	Childhood Unpredictability	0.16 (0.08)	2.06	0.040
51111111011105	Mating Experience	0.61 (0.06)	10.27	≤ 0.001
	Condition	0.15 (0.07)	2.17	0.030
Perceived	Negative Mood	0.25 (0.09)	2.84	0.005
Vulnerability	Adult SES	-0.33 (0.08)	-3.93	≤ 0.001
vunieraonney	Condition	-0.04 (0.08)	-0.55	0.585
Affiliation	Age	-0.24 (0.08)	-3.05	0.002
Motives	Mating Experience	0.19 (0.09)	2.28	0.023
WIOUVES	Condition	0.10 (0.08)	1.24	0.213
Muscle Preferer	nce Covariates – model 1			
	Age	0.01 (0.03)	0.20	0.841
	Negative Mood	0.03 (0.05)	0.67	0.506
	Positive Mood	0.01 (0.04)	0.33	0.741
	Childhood SES	0.06 (0.14)	0.43	0.668
Muscularity	Adult SES	0.14 (0.12)	1.19	0.236
Preference	Childhood Unpredictability	0.24 (0.19	1.244	0.213
	Adult Unpredictability	-0.04 (0.16)	-0.27	0.787
	Childhood Neighborhood	0.31 (0.23)	1.35	0.177
	Parent Relationship	0.03 (0.35)	0.07	0.943
	Mating Experience	-0.12 (0.09)	-1.37	0.172
Muscle Preferer	ce Main Effects – model 1			
Muscularity Preference	Condition	0.07 (0.09)	0.80	0.427

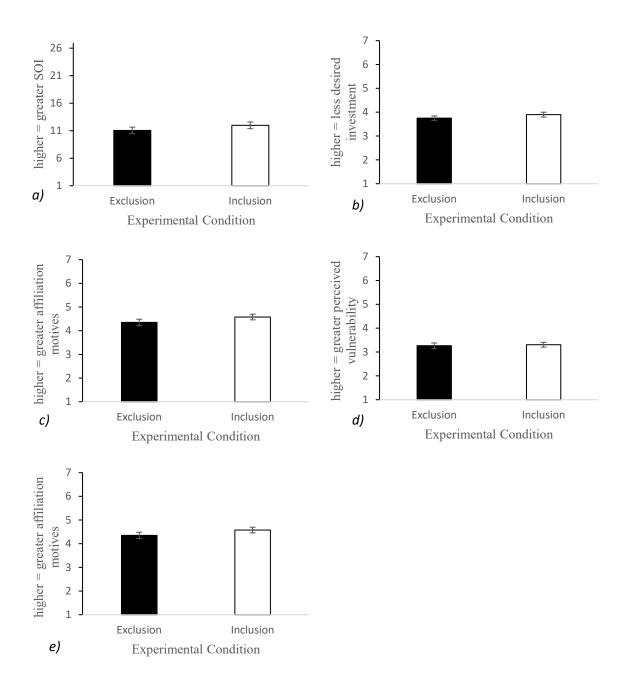


Figure S4a-e. Study 3 participant (a) Sexual Unrestrictedness, (b) Desired Mate Investment, (c) Openness to Sexual Intercourse, (d) Perceived Vulnerability, and (e) Affiliation Motives as a function of participant condition.

Note. SOI = sexual unrestrictedness