Supplemental Materials

In these supplemental materials we report the results of three sets of mediation models that we ran as sensitivity analyses to the main models. First, we ran the main mediation models with a control variable for general moral concern. This allowed us to test whether the positive effects of perspective taking observed in the main analyses were specific to animals and artificial entities, or whether they could be explained by an increase in general moral concern, incidentally affecting our groups of interest. Second, we included personal distress as a third mediator in the models, alongside empathic concern and self-other overlap. Since our perspective taking manipulation was other-focused, encouraging participants to imagine the experience of another entity rather than imagining themselves in another entity's position, we did not expect to find an effect via personal distress (Batson et al., 1997). Third, since our hypothesized relationships between the mediators and dependent variables rely on correlational data, we estimated "reverse mediation" models, with self-other overlap and empathic concern as dependent variables and our measures of moral attitudes as mediators. This allowed us to test whether this alternative model fit our data better, though note there are limitations to what such modelling can show (Lemmer & Gollwitzer, 2017).

As stated in the main article, the sensitivity analyses did not affect our main conclusions. The inclusion of general moral concern as a control variable reduced the magnitude of the indirect effects via empathic concern in Study 1 by approximately one-third, suggesting that part of the observed effects via this path could be explained by a general increase in moral concern, though this does not explain all of the effect. The inclusion of general moral concern as a control variable in Study 2 did not affect the magnitude or significance of the effects, suggesting that the observed findings were specific to artificial entities. As expected, our experimental manipulation had no effect on personal distress, and there were no indirect effects of perspective taking on any of our outcome variables via this mediator. Finally, we found no evidence of indirect effects in any of the reverse mediation models, providing evidence against these alternative models.

Table S1. Study 1 Mediation model results – moral concern for farmed pigs with control variable for general moral concern.

	β	SE	t	p
DV: Empathic concern				
Intercept	0.000	0.056	0.000	1.000
Stay-objective	-0.203	0.064	-3.156	0.002
No-instructions	-0.096	0.064	-1.492	0.137
DV: Self-other overlap				
Intercept	0.000	0.057	0.000	1.000
Stay-objective	-0.232	0.066	-3.520	0.001
No-instructions	-0.119	0.066	-1.812	0.071
DV: Moral concern for farmed pigs (direct effects)				
Intercept	0.000	0.043	0.000	1.000
Stay-objective	0.099	0.051	1.932	0.054
No-instructions	-0.028	0.050	-0.566	0.572
Empathic concern	0.256	0.058	4.381	0.000
Self-other overlap	0.216	0.057	3.799	0.000
DV: Moral concern for farmed pigs (total effects)				
Intercept	0.000	0.049	0.000	1.000
Stay-objective	-0.003	0.056	-0.051	0.960
No-instructions	-0.079	0.056	-1.397	0.164

Note: Reference group in each case is perspective taking condition. Standardized effects reported. DV = dependent variable.

Table S2. Study 1 Indirect effects –moral concern for farmed pigs with control variable for general moral concern.

	β	SE	CI lower	CI upper
Total indirect effects				
Stay-objective	-0.126	0.036	-0.199	-0.059
No-instructions	-0.063	0.033	-0.128	0.000
M: Empathic concern				
Stay-objective	-0.064	0.024	-0.114	-0.022
No-instructions	-0.031	0.020	-0.073	0.007
M: Self-other overlap				
Stay-objective	-0.062	0.024	-0.114	-0.022
No-instructions	-0.033	0.020	-0.077	0.003

Note: Reference group in each case is perspective taking condition. Standardized effects reported. M = mediator.

Table S3. Study 1 Mediation model results – moral concern for all farmed animals with control variable for general moral concern.

	β	SE	t	p
DV: Empathic concern				
Intercept	0.000	0.056	0.000	1.000
Stay-objective	-0.203	0.064	-3.156	0.002
No-instructions	-0.096	0.064	-1.492	0.137
DV: Self-other overlap				
Intercept	0.000	0.057	0.000	1.000
Stay-objective	-0.232	0.066	-3.520	0.001
No-instructions	-0.119	0.066	-1.812	0.071
DV: Moral concern for all farmed animals (direct effects)				
Intercept	0.000	0.042	0.000	1.000
Stay-objective	0.127	0.050	2.511	0.013
No-instructions	0.023	0.049	0.459	0.646
Empathic concern	0.224	0.057	3.904	0.000
Self-other overlap	0.304	0.056	5.432	0.000
DV: Moral concern for all farmed animals (total effects)				
Intercept	0.000	0.050	0.000	1.000
Stay-objective	0.011	0.057	0.187	0.852
No-instructions	-0.035	0.057	-0.611	0.542

Note: Reference group in each case is perspective taking condition. Standardized effects reported. DV = dependent variable.

Table S4. Study 1 Indirect effects – moral concern for all animals with control variable for general moral concern.

	β	SE	CI lower	CI upper
Total indirect effects				
Stay-objective	-0.142	0.038	-0.218	-0.067
No-instructions	-0.071	0.036	-0.143	-0.001
M: Empathic concern				
Stay-objective	-0.056	0.021	-0.102	-0.018
No-instructions	-0.027	0.018	-0.066	0.005
M: Self-other overlap				
Stay-objective	-0.087	0.029	-0.147	-0.035
No-instructions	-0.045	0.026	-0.098	0.004

Note: Reference group in each case is perspective taking condition. Standardized effects reported. M = mediator.

Table S5. Study 1 Mediation model results – speciesism with control variable for general moral concern.

	β	SE	t	p
DV: Empathic concern				
Intercept	0.000	0.056	0.000	1.000
Stay-objective	-0.203	0.064	-3.156	0.002
No-instructions	-0.096	0.064	-1.492	0.137
DV: Self-other overlap				
Intercept	0.000	0.057	0.000	1.000
Stay-objective	-0.232	0.066	-3.520	0.001
No-instructions	-0.119	0.066	-1.812	0.071
DV: Speciesism (direct effects)				
Intercept	0.000	0.054	0.000	1.000
Stay-objective	-0.151	0.064	-2.355	0.019
No-instructions	0.040	0.063	0.633	0.527
Empathic concern	-0.093	0.073	-1.273	0.204
Self-other overlap	-0.232	0.071	-3.266	0.001
DV: Speciesism (total effects)				
Intercept	0.000	0.056	0.000	1.000
Stay-objective	-0.078	0.065	-1.206	0.229
No-instructions	0.076	0.065	1.177	0.240

Note: Reference group in each case is perspective taking condition. Standardized effects reported. DV = dependent variable.

Table S6. Study 1 Indirect effects – speciesism with control variable for general moral concern.

	β	SE	CI lower	CI upper
Total indirect effects				
Stay-objective	0.078	0.024	0.036	0.129
No-instructions	0.040	0.022	0.001	0.086
M: Empathic concern				
Stay-objective	0.020	0.016	-0.008	0.056
No-instructions	0.010	0.010	-0.005	0.034
M: Self-other overlap				
Stay-objective	0.058	0.023	0.018	0.110
No-instructions	0.030	0.019	-0.001	0.074

Note: Reference group in each case is perspective taking condition. Standardized effects reported. M = mediator.

Table S7. Study 1 Mediation model results – moral concern for farmed pigs with personal distress as third mediator.

	β	SE	t	p
DV: Empathic concern				
Intercept	0.000	0.060	0.000	1.000
Stay-objective	-0.237	0.069	-3.423	0.001
No-instructions	-0.123	0.069	-1.778	0.077
DV: Self-other overlap				
Intercept	0.000	0.060	0.000	1.000
Stay-objective	-0.259	0.069	-3.758	0.000
No-instructions	-0.141	0.069	-2.045	0.042
DV: Personal distress				
Intercept	0.000	0.061	0.000	1.000
Stay-objective	-0.103	0.070	-1.465	0.144
No-instructions	-0.079	0.070	-1.128	0.260
DV: Moral concern for farmed pigs (direct effects)				
Intercept	0.000	0.048	0.000	1.000
Stay-objective	0.074	0.057	1.290	0.198
No-instructions	-0.045	0.055	-0.807	0.420
Empathic concern	0.219	0.069	3.162	0.002
Self-other overlap	0.173	0.063	2.739	0.007
Personal distress	0.335	0.068	4.896	0.000
DV: Moral concern for farmed pigs (total effects)				
Intercept	0.000	0.061	0.000	1.000
Stay-objective	-0.057	0.070	-0.819	0.414
No-instructions	-0.123	0.070	-1.746	0.082

Note: Reference group in each case is perspective taking condition. Standardized effects reported. DV = dependent variable.

Table S8. Study 1 Indirect effects – moral concern for farmed pigs with personal distress as third mediator.

	β	SE	CI lower	CI upper
Total indirect effects				
Stay-objective	-0.131	0.044	-0.218	-0.046
No-instructions	-0.078	0.043	-0.164	0.005
M: Empathic concern				
Stay-objective	-0.051	0.023	-0.103	-0.012
No-instructions	-0.027	0.018	-0.068	0.002
M: Self-other overlap				
Stay-objective	-0.045	0.022	-0.094	-0.007
No-instructions	-0.024	0.017	-0.062	0.001
M: Personal distress				
Stay-objective	-0.035	0.025	-0.089	0.010
No-instructions	-0.027	0.025	-0.080	0.018

Note: Reference group in each case is perspective taking condition. Standardized effects reported. M = mediator.

Table S9. Study 1 Mediation model results – moral concern for all farmed animals with personal distress as third mediator.

	β	SE	t	p
DV: Empathic concern				
Intercept	0.000	0.060	0.000	1.000
Stay-objective	-0.237	0.069	-3.423	0.001
No-instructions	-0.123	0.069	-1.778	0.077
DV: Self-other overlap				
Intercept	0.000	0.060	0.000	1.000
Stay-objective	-0.259	0.069	-3.758	0.000
No-instructions	-0.141	0.069	-2.045	0.042
DV: Personal distress				
Intercept	0.000	0.061	0.000	1.000
Stay-objective	-0.103	0.070	-1.465	0.144
No-instructions	-0.079	0.070	-1.128	0.260
DV: Moral concern for all farmed animals (direct effects)				
Intercept	0.000	0.047	0.000	1.000
Stay-objective	0.106	0.056	1.897	0.059
No-instructions	0.008	0.055	0.153	0.878
Empathic concern	0.210	0.068	3.079	0.002
Self-other overlap	0.275	0.062	4.425	0.000
Personal distress	0.274	0.067	4.074	0.000
DV: Moral concern for all farmed animals (total effects)				
Intercept	0.000	0.061	0.000	1.000
Stay-objective	-0.043	0.070	-0.605	0.545
No-instructions	-0.078	0.070	-1.107	0.269

Note: Reference group in each case is perspective taking condition. Standardized effects reported. DV = dependent variable.

Table S10. Study 1 Indirect effects – moral concern for all farmed animals with personal distress as third mediator.

	β	SE	CI lower	CI upper
Total indirect effects				
Stay-objective	-0.149	0.045	-0.238	-0.061
No-instructions	-0.086	0.045	-0.175	0.000
M: Empathic concern				
Stay-objective	-0.049	0.021	-0.097	-0.013
No-instructions	-0.026	0.017	-0.063	0.001
M: Self-other overlap				
Stay-objective	-0.071	0.025	-0.125	-0.028
No-instructions	-0.038	0.022	-0.084	-0.001
M: Personal distress				
Stay-objective	-0.029	0.021	-0.075	0.009
No-instructions	-0.022	0.021	-0.069	0.015

Note: Reference group in each case is perspective taking condition. Standardized effects reported. M = mediator.

Table S11. Study 1 Mediation model results – speciesism with personal distress as third mediator.

	β	SE	t	p
DV: Empathic concern				
Intercept	0.000	0.060	0.000	1.000
Stay-objective	-0.237	0.069	-3.423	0.001
No-instructions	-0.123	0.069	-1.778	0.077
DV: Self-other overlap				
Intercept	0.000	0.060	0.000	1.000
Stay-objective	-0.259	0.069	-3.758	0.000
No-instructions	-0.141	0.069	-2.045	0.042
DV: Personal distress				
Intercept	0.000	0.061	0.000	1.000
Stay-objective	-0.103	0.070	-1.465	0.144
No-instructions	-0.079	0.070	-1.128	0.260
DV: Speciesism (direct effects)				
Intercept	0.000	0.054	0.000	1.000
Stay-objective	-0.119	0.064	-1.846	0.066
No-instructions	0.054	0.062	0.870	0.385
Empathic concern	0.015	0.078	0.197	0.844
Self-other overlap	-0.156	0.071	-2.188	0.030
Personal distress	-0.379	0.077	-4.920	0.000
DV: Speciesism (total effects)				
Intercept	0.000	0.061	0.000	1.000
Stay-objective	-0.043	0.070	-0.613	0.541
No-instructions	0.104	0.070	1.492	0.137

Note: Reference group in each case is perspective taking condition. Standardized effects reported. DV = dependent variable.

Table S12. Study 1 Indirect effects – speciesism with personal distress as third mediator.

	β	SE	CI lower	CI upper
Total indirect effects				
Stay-objective	0.075	0.036	0.004	0.147
No-instructions	0.051	0.034	-0.015	0.120
M: Empathic concern				
Stay-objective	-0.004	0.020	-0.047	0.035
No-instructions	-0.002	0.011	-0.027	0.022
M: Self-other overlap				
Stay-objective	0.040	0.022	0.003	0.090
No-instructions	0.022	0.016	-0.002	0.060
M: Personal distress				
Stay-objective	0.039	0.028	-0.012	0.097
No-instructions	0.030	0.028	-0.020	0.089

Note: Reference group in each case is perspective taking condition. Standardized effects reported. M = mediator.

Table S13. Study 1 Mediation model results – empathic concern via moral concern for pigs.

	β	SE	t	p
DV: Moral concern for pigs				
Intercept	0.000	0.061	0.000	1.000
Stay-objective	-0.057	0.070	-0.819	0.414
No-instructions	-0.123	0.070	-1.746	0.082
DV: Empathic concern (direct effects)				
Intercept	0.000	0.050	0.000	1.000
Stay-objective	-0.206	0.058	-3.531	0.000
No-instructions	-0.058	0.059	-0.984	0.326
Speciesism	0.532	0.051	10.487	0.000
DV: Empathic concern (total effects)				
Intercept	0.000	0.060	0.000	1.000
Stay-objective	-0.237	0.069	-3.423	0.001
No-instructions	-0.123	0.069	-1.778	0.077

Note: Reference group in each case is perspective taking condition. Standardized effects reported. DV = dependent variable.

Table S14. Study 1 Indirect effects – empathic concern via moral concern for pigs.

	β	SE	CI lower	CI upper
M: Moral concern for pigs				
Stay-objective	-0.030	0.036	-0.102	0.040
No-instructions	-0.065	0.038	-0.139	0.009

Note: Reference group in each case is perspective taking condition. Standardized effects reported. M = mediator.

Table S15. Study 1 Mediation model results – self-other overlap via moral concern for pigs.

	β	SE	t	p
DV: Moral concern for pigs				
Intercept	0.000	0.061	0.000	1.000
Stay-objective	-0.057	0.070	-0.819	0.414
No-instructions	-0.123	0.070	-1.746	0.082
DV: Self-other overlap (direct effects)				
Intercept	0.000	0.052	0.000	1.000
Stay-objective	-0.231	0.060	-3.839	0.000
No-instructions	-0.082	0.060	-1.355	0.177
Speciesism	0.480	0.052	9.185	0.000
DV: Self-other overlap (total effects)				
Intercept	0.000	0.060	0.000	1.000
Stay-objective	-0.259	0.069	-3.758	0.000
No-instructions	-0.141	0.069	-2.045	0.042

Note: Reference group in each case is perspective taking condition. Standardized effects reported. DV = dependent variable.

Table S16. Study 1 Indirect effects – self-other overlap via moral concern for pigs.

	β	SE	CI lower	CI upper
M: Moral concern for pigs				
Stay-objective	-0.027	0.032	-0.091	0.036
No-instructions	-0.059	0.034	-0.127	0.006

Note: Reference group in each case is perspective taking condition. Standardized effects reported. M = mediator.

Table S17. Study 1 Mediation model results – empathic concern via moral concern for animals.

	β	SE	t	p
DV: Moral concern for animals				
Intercept	0.000	0.061	0.000	1.000
Stay-objective	-0.043	0.070	-0.605	0.545
No-instructions	-0.078	0.070	-1.107	0.269
DV: Empathic concern (direct effects)				
Intercept	0.000	0.050	0.000	1.000
Stay-objective	-0.214	0.058	-3.683	0.000
No-instructions	-0.081	0.058	-1.395	0.164
Speciesism	0.536	0.050	10.668	0.000
DV: Empathic concern (total effects)				
Intercept	0.000	0.060	0.000	1.000
Stay-objective	-0.237	0.069	-3.423	0.001
No-instructions	-0.123	0.069	-1.778	0.077

Note: Reference group in each case is perspective taking condition. Standardized effects reported. DV = dependent variable.

Table S18. Study 1 Indirect effects – empathic concern via moral concern for animals.

	β	SE	CI lower	CI upper
M: Moral concern for animals				
Stay-objective	-0.023	0.037	-0.097	0.047
No-instructions	-0.042	0.038	-0.116	0.034

Note: Reference group in each case is perspective taking condition. Standardized effects reported. M = mediator.

Table S19. Study 1 Mediation model results – self-other overlap via moral concern for animals.

	β	SE	t	p
DV: Moral concern for animals				
Intercept	0.000	0.061	0.000	1.000
Stay-objective	-0.043	0.070	-0.605	0.545
No-instructions	-0.078	0.070	-1.107	0.269
DV: Self-other overlap (direct effects)				
Intercept	0.000	0.050	0.000	1.000
Stay-objective	-0.236	0.058	-4.086	0.000
No-instructions	-0.099	0.058	-1.713	0.088
Speciesism	0.535	0.050	10.705	0.000
DV: Self-other overlap (total effects)				
Intercept	0.000	0.060	0.000	1.000
Stay-objective	-0.259	0.069	-3.758	0.000
No-instructions	-0.141	0.069	-2.045	0.042

Note: Reference group in each case is perspective taking condition. Standardized effects reported. DV = dependent variable.

Table S20. Study 1 Indirect effects – self-other overlap via moral concern for animals.

	β	SE	CI lower	CI upper
M: Moral concern for animals				
Stay-objective	-0.023	0.037	-0.094	0.049
No-instructions	-0.042	0.038	-0.117	0.032

Note: Reference group in each case is perspective taking condition. Standardized effects reported. M = mediator.

Table S21. Study 1 Mediation model results – empathic concern via speciesism.

	β	SE	t	p
DV: Speciesism				
Intercept	0.000	0.061	0.000	1.000
Stay-objective	-0.043	0.070	-0.613	0.541
No-instructions	0.104	0.070	1.492	0.137
DV: Empathic concern (direct effects)				
Intercept	0.000	0.057	0.000	1.000
Stay-objective	-0.251	0.065	-3.831	0.000
No-instructions	-0.089	0.066	-1.353	0.177
Speciesism	-0.326	0.057	-5.722	0.000
DV: Empathic concern (total effects)				
Intercept	0.000	0.060	0.000	1.000
Stay-objective	-0.237	0.069	-3.423	0.001
No-instructions	-0.123	0.069	-1.778	0.077

Note: Reference group in each case is perspective taking condition. Standardized effects reported. DV = dependent variable.

Table S22. Study 1 Indirect effects – empathic concern via speciesism.

	β	SE	CI lower	CI upper
M: Speciesism				
Stay-objective	0.013	0.022	-0.030	0.057
No-instructions	-0.035	0.026	-0.088	0.012

Note: Reference group in each case is perspective taking condition. Standardized effects reported. M = mediator.

Table S23. Study 1 Mediation model results – self-other overlap via speciesism.

	β	SE	t	p
DV: Speciesism				
Intercept	0.000	0.061	0.000	1.000
Stay-objective	-0.043	0.070	-0.613	0.541
No-instructions	0.104	0.070	1.492	0.137
DV: Self-other overlap (direct effects)				
Intercept	0.000	0.055	0.000	1.000
Stay-objective	-0.274	0.064	-4.269	0.000
No-instructions	-0.103	0.064	-1.601	0.111
Speciesism	-0.360	0.056	-6.433	0.000
DV: Self-other overlap (total effects)				
Intercept	0.000	0.060	0.000	1.000
Stay-objective	-0.259	0.069	-3.758	0.000
No-instructions	-0.141	0.069	-2.045	0.042

Note: Reference group in each case is perspective taking condition. Standardized effects reported. DV = dependent variable.

Table S24. Study 1 Indirect effects – self-other overlap via speciesism.

	β	SE	CI lower	CI upper
M: Speciesism				
Stay-objective	0.014	0.024	-0.033	0.061
No-instructions	-0.039	0.028	-0.096	0.014

Note: Reference group in each case is perspective taking condition. Standardized effects reported. M = mediator.

Table S25. Study 2 Mediation model results – moral concern for emulations with control variable for general moral concern.

	β	SE	t	p
DV: Empathic concern				
Intercept	0.000	0.060	0.000	1.000
Stay-objective	-0.165	0.069	-2.393	0.017
No-instructions	-0.083	0.069	-1.195	0.233
DV: Self-other overlap				
Intercept	0.000	0.060	0.000	1.000
Stay-objective	-0.140	0.069	-2.034	0.043
No-instructions	-0.036	0.069	-0.527	0.599
DV: Moral concern for emulations (direct effects)				
Intercept	0.000	0.045	0.000	1.000
Stay-objective	0.141	0.052	2.702	0.007
No-instructions	0.049	0.052	0.943	0.346
Empathic concern	0.416	0.059	7.042	0.000
Self-other overlap	0.291	0.059	4.920	0.000
DV: Moral concern for emulations (total effects)				
Intercept	0.000	0.059	0.000	1.000
Stay-objective	0.032	0.068	0.467	0.641
No-instructions	0.004	0.068	0.059	0.953

Note: Reference group in each case is perspective taking condition. Standardized effects reported. DV = dependent variable.

Table S26. Study 2 Indirect effects – moral concern for emulations with control variable for general moral concern.

	β	SE	CI lower	CI upper
Total indirect effects				
Stay-objective	-0.113	0.047	-0.207	-0.023
No-instructions	-0.047	0.047	-0.138	0.046
M: Empathic concern				
Stay-objective	-0.071	0.032	-0.136	-0.012
No-instructions	-0.035	0.031	-0.098	0.025
M: Self-other overlap				
Stay-objective	-0.043	0.023	-0.092	-0.002
No-instructions	-0.012	0.022	-0.058	0.030

Note: Reference group in each case is perspective taking condition. Standardized effects reported. M = mediator.

Table S27. Study 2 Mediation model results – substratism with control variable for general moral concern.

	β	SE	t	p
DV: Empathic concern				
Intercept	0.000	0.060	0.000	1.000
Stay-objective	-0.165	0.069	-2.393	0.017
No-instructions	-0.083	0.069	-1.195	0.233
DV: Self-other overlap				
Intercept	0.000	0.060	0.000	1.000
Stay-objective	-0.140	0.069	-2.034	0.043
No-instructions	-0.036	0.069	-0.527	0.599
DV: Substratism (direct effects)				
Intercept	0.000	0.051	0.000	1.000
Stay-objective	-0.022	0.060	-0.368	0.713
No-instructions	0.049	0.060	0.818	0.414
Empathic concern	-0.243	0.068	-3.576	0.000
Self-other overlap	-0.313	0.068	-4.599	0.000
DV: Substratism (total effects)				
Intercept	0.000	0.059	0.000	1.000
Stay-objective	0.062	0.068	0.903	0.368
No-instructions	0.080	0.069	1.168	0.244

Note: Reference group in each case is perspective taking condition. Standardized effects reported. DV = dependent variable.

Table S28. Study 2 Indirect effects – substratism with control variable for general moral concern.

	β	SE	CI lower	CI upper
Total indirect effects				
Stay-objective	0.086	0.037	0.016	0.160
No-instructions	0.032	0.037	-0.039	0.105
M: Empathic concern				
Stay-objective	0.042	0.022	0.006	0.090
No-instructions	0.021	0.019	-0.013	0.063
M: Self-other overlap				
Stay-objective	0.044	0.023	0.002	0.094
No-instructions	0.011	0.023	-0.034	0.057

Note: Reference group in each case is perspective taking condition. Standardized effects reported. M = mediator.

Table S29. Study 2 Mediation model results – moral concern for emulations with personal distress as third mediator.

	β	SE	t	p
DV: Empathic concern				
Intercept	0.000	0.060	0.000	1.000
Stay-objective	-0.169	0.070	-2.424	0.016
No-instructions	-0.069	0.070	-0.996	0.320
DV: Self-other overlap				
Intercept	0.000	0.060	0.000	1.000
Stay-objective	-0.144	0.070	-2.068	0.040
No-instructions	-0.022	0.070	-0.318	0.751
DV: Personal distress				
Intercept	0.000	0.061	0.000	1.000
Stay-objective	-0.087	0.070	-1.251	0.212
No-instructions	0.018	0.070	0.263	0.793
DV: Moral concern for emulations (direct effects)				
Intercept	0.000	0.045	0.000	1.000
Stay-objective	0.136	0.052	2.604	0.010
No-instructions	0.050	0.052	0.973	0.331
Empathic concern	0.292	0.069	4.228	0.000
Self-other overlap	0.287	0.059	4.900	0.000
Personal distress	0.226	0.061	3.718	0.000
DV: Moral concern for emulations (total effects)				
Intercept	0.000	0.061	0.000	1.000
Stay-objective	0.025	0.070	0.361	0.718
No-instructions	0.028	0.070	0.397	0.691

Note: Reference group in each case is perspective taking condition. Standardized effects reported. DV = dependent variable.

Table S30. Study 2 Indirect effects – moral concern for emulations with personal distress as third mediator.

	β	SE	CI lower	CI upper
Total indirect effects				
Stay-objective	-0.109	0.047	-0.201	-0.017
No-instructions	-0.022	0.050	-0.119	0.075
M: Empathic concern				
Stay-objective	-0.049	0.024	-0.101	-0.008
No-instructions	-0.020	0.021	-0.066	0.020
M: Self-other overlap				
Stay-objective	-0.041	0.022	-0.087	-0.002
No-instructions	-0.006	0.021	-0.050	0.033
M: Personal distress				
Stay-objective	-0.019	0.017	-0.055	0.011
No-instructions	0.004	0.017	-0.029	0.038

Note: Reference group in each case is perspective taking condition. Standardized effects reported. M = mediator.

Table S31. Study 2 Mediation model results – substratism with personal distress as third mediator.

	β	SE	t	p
DV: Empathic concern				
Intercept	0.000	0.060	0.000	1.000
Stay-objective	-0.169	0.070	-2.424	0.016
No-instructions	-0.069	0.070	-0.996	0.320
DV: Self-other overlap				
Intercept	0.000	0.060	0.000	1.000
Stay-objective	-0.144	0.070	-2.068	0.040
No-instructions	-0.022	0.070	-0.318	0.751
DV: Personal distress				
Intercept	0.000	0.061	0.000	1.000
Stay-objective	-0.087	0.070	-1.251	0.212
No-instructions	0.018	0.070	0.263	0.793
DV: Substratism (direct effects)				
Intercept	0.000	0.048	0.000	1.000
Stay-objective	-0.010	0.056	-0.181	0.857
No-instructions	0.062	0.056	1.116	0.265
Empathic concern	0.009	0.075	0.126	0.900
Self-other overlap	-0.285	0.063	-4.498	0.000
Personal distress	-0.433	0.066	-6.586	0.000
DV: Substratism (total effects)				
Intercept	0.000	0.061	0.000	1.000
Stay-objective	0.067	0.070	0.957	0.339
No-instructions	0.060	0.070	0.858	0.392

Note: Reference group in each case is perspective taking condition. Standardized effects reported. DV = dependent variable.

Table S32. Study 2 Indirect effects – substratism with personal distress as third mediator.

	β	SE	CI lower	CI upper
Total indirect effects				
Stay-objective	0.078	0.044	-0.007	0.165
No-instructions	-0.003	0.045	-0.092	0.087
M: Empathic concern				
Stay-objective	-0.001	0.014	-0.030	0.030
No-instructions	0.000	0.008	-0.018	0.017
M: Self-other overlap				
Stay-objective	0.041	0.021	0.003	0.086
No-instructions	0.006	0.021	-0.035	0.048
M: Personal distress				
Stay-objective	0.038	0.031	-0.021	0.099
No-instructions	-0.008	0.031	-0.070	0.054

Note: Reference group in each case is perspective taking condition. Standardized effects reported. M = mediator.

Table S33. Study 2 Mediation model results – empathic concern via moral concern for emulations.

	β	SE	t	p
DV: Moral concern for emulations				
Intercept	0.000	0.061	0.000	1.000
Stay-objective	0.025	0.070	0.361	0.718
No-instructions	0.028	0.070	0.397	0.691
DV: Empathic concern (direct effects)				
Intercept	0.000	0.047	0.000	1.000
Stay-objective	-0.184	0.055	-3.370	0.001
No-instructions	-0.086	0.055	-1.582	0.115
Moral concern for emulations	0.614	0.047	12.979	0.000
DV: Empathic concern (total effects)				
Intercept	0.000	0.060	0.000	1.000
Stay-objective	-0.169	0.070	-2.424	0.016
No-instructions	-0.069	0.070	-0.996	0.320

Note: Reference group in each case is perspective taking condition. Standardized effects reported. DV = dependent variable.

Table S34. Study 2 Indirect effects – empathic concern via moral concern for emulations

	β	SE	CI lower	CI upper
M: Moral concern for emulations				
Stay-objective	0.016	0.042	-0.067	0.099
No-instructions	0.017	0.044	-0.069	0.103

Note: Reference group in each case is perspective taking condition. Standardized effects reported. M = mediator.

Table S35. Study 2 Mediation model results – self-other overlap via moral concern for emulations.

	β	SE	t	p
DV: Moral concern for emulations				
Intercept	0.000	0.061	0.000	1.000
Stay-objective	0.025	0.070	0.361	0.718
No-instructions	0.028	0.070	0.397	0.691
DV: Self-other overlap (direct effects)				
Intercept	0.000	0.049	0.000	1.000
Stay-objective	-0.159	0.057	-2.782	0.006
No-instructions	-0.038	0.057	-0.669	0.504
Moral concern for emulations	0.572	0.049	11.593	0.000
DV: Self-other overlap (total effects)				
Intercept	0.000	0.060	0.000	1.000
Stay-objective	-0.144	0.070	-2.068	0.040
No-instructions	-0.022	0.070	-0.318	0.751

Note: Reference group in each case is perspective taking condition. Standardized effects reported. DV = dependent variable.

Table S36. Study 2 Indirect effects – self-other overlap via moral concern for emulations.

	β	SE	CI lower	CI upper
M: Moral concern for emulations				
Stay-objective	0.015	0.039	-0.062	0.091
No-instructions	0.016	0.041	-0.065	0.097

Note: Reference group in each case is perspective taking condition. Standardized effects reported. M = mediator.

Table S37. Study 2 Mediation model results – empathic concern via substratism.

	β	SE	t	p
DV: Substratism				
Intercept	0.000	0.061	0.000	1.000
Stay-objective	0.067	0.070	0.957	0.339
No-instructions	0.060	0.070	0.858	0.392
DV: Empathic concern (direct effects)				
Intercept	0.000	0.054	0.000	1.000
Stay-objective	-0.138	0.062	-2.227	0.027
No-instructions	-0.042	0.062	-0.676	0.500
Substratism	-0.456	0.054	-8.492	0.000
DV: Empathic concern (total effects)				
Intercept	0.000	0.060	0.000	1.000
Stay-objective	-0.169	0.070	-2.424	0.016
No-instructions	-0.069	0.070	-0.996	0.320

Note: Reference group in each case is perspective taking condition. Standardized effects reported. DV = dependent variable.

Table S38. Study 2 Indirect effects – empathic concern via substratism

	β	SE	CI lower	CI upper
M: Substratism				
Stay-objective	-0.031	0.032	-0.097	0.031
No-instructions	-0.028	0.033	-0.096	0.034

Note: Reference group in each case is perspective taking condition. Standardized effects reported. M = mediator.

Table S39. Study 2 Mediation model results – self-other overlap via substratism.

	β	SE	t	p
DV: Substratism				
Intercept	0.000	0.061	0.000	1.000
Stay-objective	0.067	0.070	0.957	0.339
No-instructions	0.060	0.070	0.858	0.392
DV: Self-other overlap (direct effects)				
Intercept	0.000	0.053	0.000	1.000
Stay-objective	-0.112	0.061	-1.828	0.069
No-instructions	0.007	0.061	0.114	0.909
Substratism	-0.483	0.053	-9.140	0.000
DV: Self-other overlap (total effects)				
Intercept	0.000	0.060	0.000	1.000
Stay-objective	-0.144	0.070	-2.068	0.040
No-instructions	-0.022	0.070	-0.318	0.751

Note: Reference group in each case is perspective taking condition. Standardized effects reported. DV = dependent variable.

Table S40. Study 2 Indirect effects – self-other overlap via substratism

	β	SE	CI lower	CI upper
M: Substratism				
Stay-objective	-0.032	0.033	-0.099	0.032
No-instructions	-0.029	0.035	-0.099	0.035

Note: Reference group in each case is perspective taking condition. Standardized effects reported. M = mediator.

References

Batson, C. D., Early, S., & Salvarani, G. (1997). Perspective Taking: Imagining How Another Feels Versus Imaging How You Would Feel. *Personality and Social Psychology Bulletin*, *23*(7), 751–758. https://doi.org/10.1177/0146167297237008

Lemmer, G., & Gollwitzer, M. (2017). The "true" indirect effect won't (always) stand up: When and why reverse mediation testing fails. *Journal of Experimental Social Psychology*, *69*, 144–149. https://doi.org/10.1016/j.jesp.2016.05.002