

**The more, the merrier... The effect of social network heterogeneity on attitudes toward
political opponents
Online Supplement**

Table S1

Comparison between excluded participants and the final sample

Variable	Not included in the final sample		Included in the final sample		Statistical test
	<i>M</i>	<i>SD</i>	<i>M</i>	<i>SD</i>	
Age	46.95	16.43	47.80	15.58	$t(1294) = -0.87, p = .386, d = -0.05$
Education (in years)	12.68	2.85	13.29	3.33	$t(617.39) = -3.03, p = .003, d = -0.20$
Settlement size	2.54	1.74	2.65	1.81	$t(1289) = -0.99, p = .323, d = -0.06$
Gender (0 = F, 1 = M)	0.48	0.50	0.42	0.49	$t(709.69) = 2.23, p = .026, d = .14$

Table S2

The list of alter-related questions

Variable	Question
Alter's gender	<p>N3. What gender is...</p> <p>N3A. person A? / N3B. person B? / N3C. person C? / N3D. person D? / N3E. person E?</p> <p><i>1 = female</i> <i>2 = male</i> <i>888 = Don't know / Hard to say</i> <i>999 = Refuse to respond</i></p>
Alter's age	<p>N4. How old is...</p> <p>N4A. person A? / N4B. person B? / N4C. person C? / N4D. person D? / N4E. person E?</p> <p><i>888 = Don't know / Hard to say</i> <i>999 = Refuse to respond</i></p>
Alter's role	<p>N5A-E. Who is person A / B / C / D / E to you?</p> <p><i>1 = husband / wife / partner</i> <i>2 = close relative (e.g., son/daughter, father/mother, grandfather/grandmother, grandson/granddaughter)</i> <i>3 = distant relative (e.g., uncle/aunt, cousin)</i> <i>4 = friend</i> <i>5 = acquaintance (e.g., from work / school)</i> <i>6 = other</i> <i>888 = Don't know / Hard to say</i> <i>999 = Refuse to respond</i></p>
Alter-alter relationships	<p>N6. Now we will ask you about contacts between the persons you indicated.</p> <p>N6AB. Do persons A and B know each other? N6AC. Do persons A and C know each other? N6AD. Do persons A and D know each other? N6AE. Do persons A and E know each other? N6BC. Do persons B and C know each other? N6BD. Do persons B and D know each other? N6BE. Do persons B and E know each other? N6CD. Do persons C and D know each other? N6CE. Do persons C and E know each other? N6DE. Do persons D and E know each other?</p>

	<p>0 = NO</p> <p>1 = YES</p> <p>888 = Don't know / Hard to say</p> <p>999 = Refuse to respond</p>
Talking politics	<p>N7A-E. In the past six months, how often did you talk about politics with person A / person B / person C / person D / person E?</p> <p>1 = Never</p> <p>2 = 2-5 times</p> <p>3 = Once a month</p> <p>4 = Once a week</p> <p>5 = A couple of times a week</p> <p>6 = Daily</p> <p>888 = Don't know / Hard to say</p> <p>999 = Refuse to respond</p>
Alter-alter talking politics	<p>N8AB-DE. In the past six months, how often did person __ and person __ talked to each other about politics?</p> <p>1 = Never</p> <p>2 = 2-5 times</p> <p>3 = Once a month</p> <p>4 = Once a week</p> <p>5 = A couple of times a week</p> <p>6 = Daily</p> <p>888 = Don't know / Hard to say</p> <p>999 = Refuse to respond</p>
Alter's opinion on climate change	<p>One of the topics discussed in the public debate is climate change (warming). To counteract this phenomenon, local, national and international authorities can take a number of actions, such as reducing the role of coal as an energy source, introducing the need to segregate waste or closing city centers to car traffic.</p> <p>N9. How do you think, what do persons A-E think about the amount of actions taken by the authorities in Poland and around the world to counteract climate change? Please answer using a scale from -3 to 3, where -3 means "They think that there are not enough of these activities", 0 - "They think that there are as many activities as needed", and 3 - "They think that there are too many activities "</p> <p>N9A-E. What does person A / person B / person C / person D / person E think about actions taken to counteract global warming?</p> <p>888 = Don't know / Hard to say</p> <p>999 = Refuse to respond</p>

<p>Alter's opinion on abortion law</p>	<p>N10. Another topic in public debate is women's right to abortion. While some believe that it should be limited, others believe that it should remain the same, and others that it should be extended.</p> <p>How do you think, what do persons A-E think about the changes in the right to abortion? Please answer using a scale from -3 to 3, where -3 means "They think the right to abortion should be restricted", 0 - "They think the right to abortion should remain the same", and 3 - "They think the right to abortion should be extended "</p> <p>N10A-E. What does person A / person B / person C / person D / person E think about changes in the abortion law? 888 = <i>Don't know / Hard to say</i> 999 = <i>Refuse to respond</i></p>
<p>Alter's opinion on pedophilia in the Catholic Church</p>	<p>In recent months, there has been much debate about cases of pedophilia among priests. While some people believe that, as an institution, the Catholic Church is not at all responsible for pedophilia among priests, others believe that it is partly or wholly responsible for this phenomenon.</p> <p>N11. How do you think, what persons A-B think about the responsibility of the Catholic Church as an institution for cases of pedophilia among priests? Please answer using a scale from -3 to 3, where -3 means "they believe that, as an institution, the Catholic Church has no responsibility for cases of pedophilia among priests", 0 - "they believe that, as an institution, the Catholic Church is partially responsible for cases of pedophilia among priests ", and 3 -"they believe that, as an institution, the Catholic Church bears full responsibility for cases of pedophilia among priests "</p> <p>N11A-E. What does person A / person B / person C / person D / person E think about the responsibility of the Catholic Church for cases of pedophilia among priests? 888 = <i>Don't know / Hard to say</i> 999 = <i>Refuse to respond</i></p>
<p>Alter's opinion on immigration</p>	<p>Another topic appearing in the public debate is the immigration of foreigners to Poland. While part of the society believes that the number of immigrants should be significantly reduced, others believe that it should remain at the current level, and still others that it should be increased.</p> <p>N12. How do you think what do persons A-E think about the number of immigrants coming to Poland? Please answer using a scale from -3 to 3, where -3 means "they think that the number of immigrants should be significantly reduced", 0 - "they think that the number of immigrants should remain at the current level" and 3 - "they think that the number of immigrants should definitely be increased "</p>

	<p>N12A-E. What does person A / person B / person C / person D / person E think about the number of immigrants coming to Poland?</p> <p>888 = <i>Don't know / Hard to say</i></p> <p>999 = <i>Refuse to respond</i></p>
Alter's political engagement	<p>N13. Were the persons indicated by you ever engaged in civil society (e.g. by taking part in a demonstration or signing a petition)? To answer, please use a scale from 1 to 7, where 1 means "They were not involved at all in the civic way" and 7 means "They were involved very intensely".</p> <p>N13A-E. To what extent has person A / person B / person C / person D / person E been involved in civic engagement so far?</p> <p>888 = <i>Don't know / Hard to say</i></p> <p>999 = <i>Refuse to respond</i></p>
Alter's engagement against the restrictions in the abortion law	<p>N14. Starting in 2016, a wave of protests against the restriction of the right to abortion swept through Poland (Black Protest).</p> <p>N14A-E. To what extent was person A / person B / person C / person D / person E involved in the protests against the restriction of the abortion law?</p> <p>888 = <i>Don't know / Hard to say</i></p> <p>999 = <i>Refuse to respond</i></p>
Alter's engagement against immigration to Poland	<p>N15. Beginning in 2015, a wave of protests against immigration swept through Poland. Opposition to immigration is expressed, among others, by the Independence March in Warsaw every year.</p> <p>N15A-E. To what extent was person A / person B / person C / person D / person E involved in the protests against immigration to Poland?</p> <p>888 = <i>Don't know / Hard to say</i></p> <p>999 = <i>Refuse to respond</i></p>
Alter's political views	<p>N16. When talking about politics, people describe themselves as either 'left-wing' or 'right-wing'. Imagine a 7-point scale where 1 means 'strongly left-wing' and 7 means 'strongly right-wing'. Which place on the scale would best describe the views and beliefs of...</p> <p>N16A-E. person A / person B / person C / person D / person E?</p> <p>888 = <i>Don't know / Hard to say</i></p> <p>999 = <i>Refuse to respond</i></p>

Alter's party preferences	<p>N17A-E. If the parliamentary elections were held this Sunday, for which party candidate do you think person A / person B / person C / person D / person E would vote?"</p> <p>1 = <i>Confederation Liberty and Independence</i> 2 = <i>Kukiz'15</i> 3 = <i>Modern</i> 4 = <i>Together Party</i> 5 = <i>Civic Coalition</i> 6 = <i>Polish People's Party</i> 7 = <i>Law and Justice</i> 8 = <i>Democratic Left Alliance</i> 9 = <i>Spring</i>, 10 = <i>Other party</i> 11 = <i>I don't know</i> 12 = <i>They will not participate</i></p>
Alter's rage toward political opponents	<p>N18A_1-E_1. To what extent, in your opinion, person A / person B / person C / person D / person E experiences the following emotions towards the voters of the opposition / ruling party? (Rage)</p> <p>1 = Not at all 7 = To a great extent 888 = <i>Don't know / Hard to say</i> 999 = <i>Refuse to respond</i></p>
Alter's anger toward political opponents	<p>N18A_2-E_2. To what extent, in your opinion, person A / person B / person C / person D / person E experiences the following emotions towards the voters of the opposition / ruling party? (Anger)</p> <p>1 = Not at all 7 = To a great extent 888 = <i>Don't know / Hard to say</i> 999 = <i>Refuse to respond</i></p>
Alter's contempt toward political opponents	<p>N18A_3-E_3. To what extent, in your opinion, person A / person B / person C / person D / person E experiences the following emotions towards the voters of the opposition / ruling party? (Contempt)</p> <p>1 = Not at all 7 = To a great extent 888 = <i>Don't know / Hard to say</i></p>

	<p>999 = <i>Refuse to respond</i></p>
Alter's antipathy toward political opponents	<p>N18A_4-E_4. To what extent, in your opinion, person A / person B / person C / person D / person E experiences the following emotions towards the voters of the opposition / ruling party? (Antipathy)</p> <p>1 = Not at all 7 = To a great extent 888 = <i>Don't know / Hard to say</i> 999 = <i>Refuse to respond</i></p>
Alter's repulsion toward political opponents	<p>N18A_5-E_5. To what extent, in your opinion, person A / person B / person C / person D / person E experiences the following emotions towards the voters of the opposition / ruling party? (Repulsion)</p> <p>1 = Not at all 7 = To a great extent 888 = <i>Don't know / Hard to say</i> 999 = <i>Refuse to respond</i></p>
Alter's disgust toward political opponents	<p>N18A_5-E_5. To what extent, in your opinion, person A / person B / person C / person D / person E experiences the following emotions towards the voters of the opposition / ruling party? (Disgust)</p> <p>1 = Not at all 7 = To a great extent 888 = <i>Don't know / Hard to say</i> 999 = <i>Refuse to respond</i></p>
Alter Catholic	<p>N19A-E. Is person A / person B / person C / person D / person E Catholic?</p> <p>0 = <i>NO</i> 1 = <i>YES</i> 888 = <i>Don't know / Hard to say</i> 999 = <i>Refuse to respond</i></p>
Alter's religious practices	<p>N20. How do you think, do the persons mentioned by you take part in religious practices, such as: masses, services or religious meetings (not including weddings and funerals)?</p> <p>N20A-E. Does person A / person B / person C / person D / person E participate in religious practices such as masses, services, or religious gatherings (not including weddings and funerals)?</p> <p>1 = <i>Never</i> 2 = <i>A couple of times a year</i> 3 = <i>A couple of times a month</i> 4 = <i>A couple of times a week</i></p>

	<i>5 = Daily</i> <i>888 = Don't know / Hard to say</i> <i>999 = Refuse to answer</i>
--	--

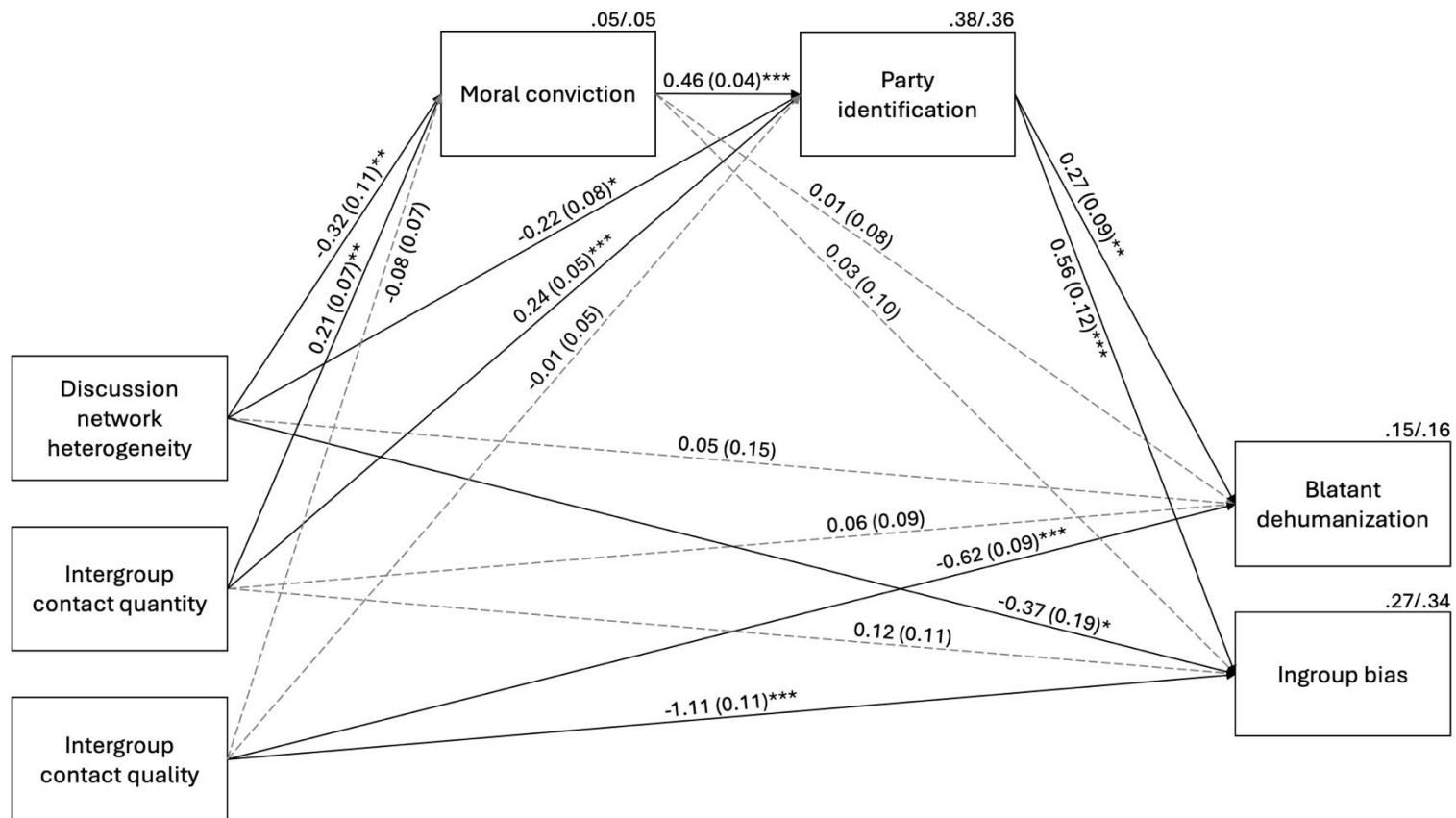


Figure S1

Results for the model involving discussion network heterogeneity based on the 12-category party preference question

Note. Entries are unstandardized estimates. Solid and dashed lines represent significant and nonsignificant effects, respectively. R^2 coefficients for the ruling party supporters presented first.

*** $p < .001$. ** $p < .01$. * $p < .05$.

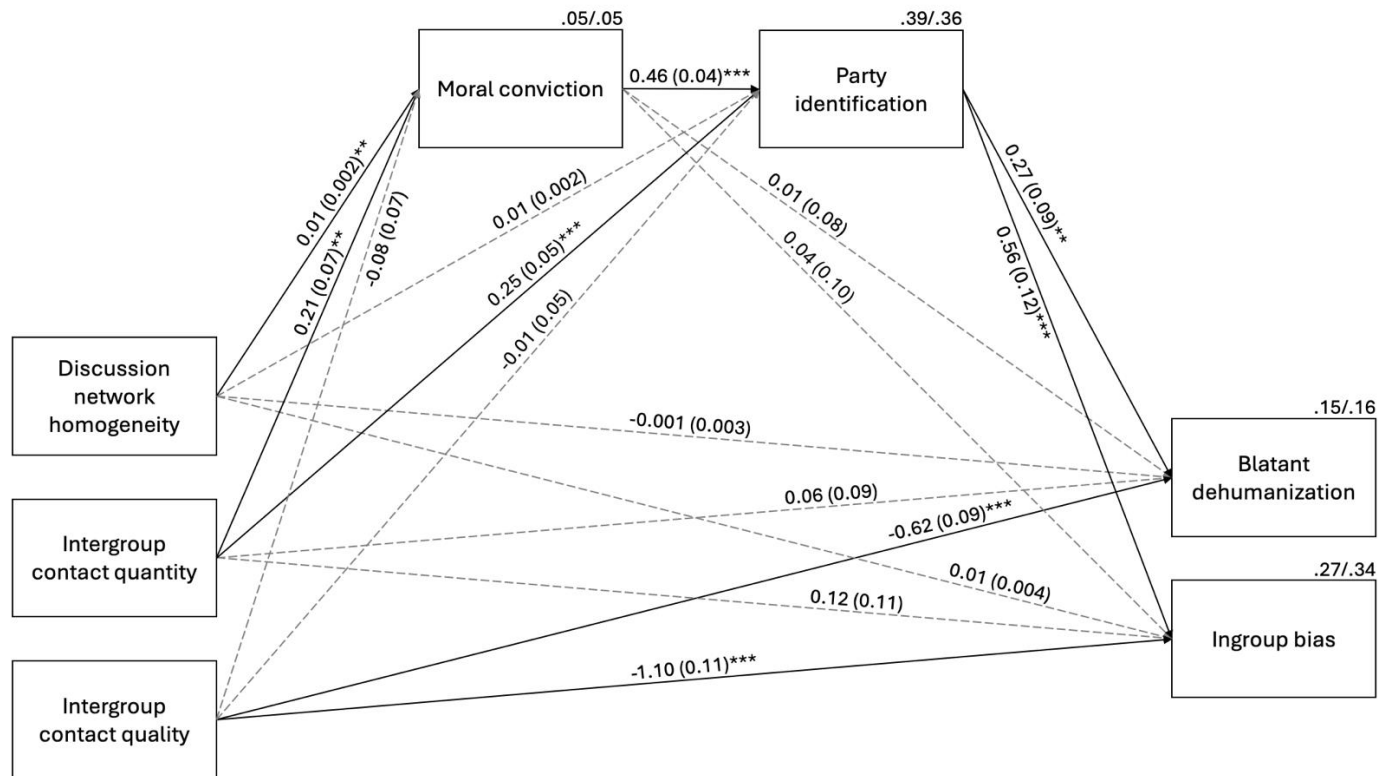


Figure S2

Results for the model involving discussion network homogeneity operationalized as the proportion of alters showing the same party preference (the ruling party or the pro-democratic opposition supporter)

Note. Entries are unstandardized estimates. Solid and dashed lines represent significant and nonsignificant effects, respectively. R^2 coefficients for the ruling party supporters presented first.

*** $p < .001$. ** $p < .01$.

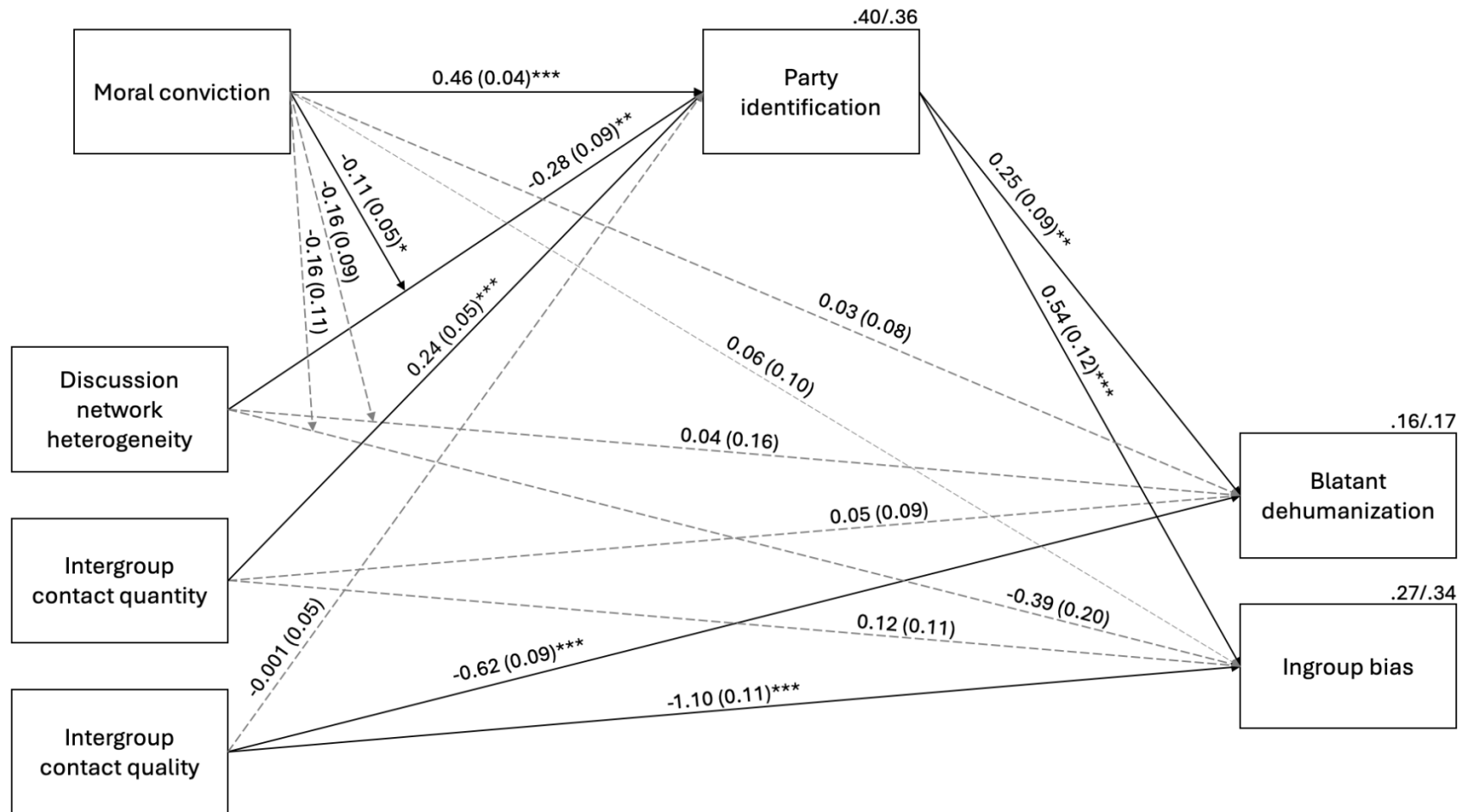


Figure S3

Alternative model of relationships between the analyzed variables

Note. Entries are unstandardized estimates. Solid and dashed lines represent significant and nonsignificant effects, respectively. R^2 coefficients

for the ruling party supporters presented first. Moderated mediation index for blatant dehumanization: $B = -0.03$, $SE = 0.02$, 95% $CI [-0.06$,

0.002]. Indirect effect of discussion network heterogeneity at the low level of moral conviction: $IE = -0.03$, $SE = 0.03$, 95% $CI [-0.10, 0.03]$.

Indirect effect of discussion network heterogeneity at the medium level of moral conviction: $IE = -0.07$, $SE = 0.04$, 95% $CI [-0.15, -0.01]$.

Indirect effect of discussion network heterogeneity at the high level of moral conviction: $IE = -0.11$, $SE = 0.06$, 95% $CI [-0.24, -0.02]$.

Moderated mediation index for ingroup bias: $B = -0.06$, $SE = 0.03$, 95% $CI [-0.12, 0.002]$. Indirect effect of discussion network heterogeneity at the low level of moral conviction: $IE = -0.06$, $SE = 0.07$, 95% $CI [-0.20, 0.07]$. Indirect effect of discussion network heterogeneity at the medium level of moral conviction: $IE = -0.15$, $SE = 0.06$, 95% $CI [-0.28, -0.04]$. Indirect effect of discussion network heterogeneity at the high level of moral conviction: $IE = -0.24$, $SE = 0.09$, 95% $CI [-0.44, -0.08]$.

*** $p < .001$. ** $p < .01$. * $p < .05$.