Appendix 2: Tables

Table 1. Descriptive	statistics and zero-order	correlations of relevant	variables (1	N = 1007)

										/							
		М	SD	Min./ Max. Scale	1	2	3	4	5	6	7	8	9	10	11	12	13
1.	Age	47.00	18.66	18-83													
2.	Sex	.51			04												
3.	Education	.51			.04	.01											
4.	Perceived trustworthiness overall	5.18	1.29	1-7	.09**	02	.14***										
5.	Perceived trustworthiness – expertise	5.37	1.36	1-7	.09**	03	.15***	.94***									
6.	Perceived trustworthiness – integrity	5.06	1.36	1-7	.09**	03	.12***	.95***	.83***								
7.	Perceived trustworthiness – benevolence	5.11	1.36	1-7	.09**	01	.11***	.95***	.82***	.87***							
8.	Perceived authenticity overall	4.57	.88	1-7	.17***	01	.09**	.65***	.59***	.64***	.61***						
9.	Perceived authenticity – connection	4.89	1.07	1-7	.11***	.02	.08*	.68***	.63***	.66***	.64***	.80***					
10.	Perceived authenticity – integrity	4.18	1.20	1-7	.15***	04	.07*	.31***	.27***	.33**	.30***	.76***	.21***				
11.	Science-related media consumption	2.44	1.26	1-8	31***	15***	.11***	.03	.00	.05	.05	07*	.05	17***			
12.	Science-related media consumption – old-world	2.58	1.28	1-8	16***	15***	.13***	.05	.02	.07*	.07*	02	.08*	12***	.93***		
13.	Science-related media consumption – new-world	2.30	1.40	1-8	41***	13***	.08*	.01	02	.02	.02	11***	.01	19***	.94***	.76***	

Note. *** p < .001. ** p < .01. * p < .05. N = 1007. Sex (1=female, 0=male). Education (1=German degree for higher education, 0=no German degree for higher education).

Table 2. Means (M), standard deviation (SD), and one-way analyses of variance regarding perceived trustworthiness and its subscales (expertise, integrity, benevolence) and perceived authenticity and its subscales (connection, integrity) across five experimental conditions (virology, climate science, astrophysics, science of history, science in general), controlling for age, gender, and education.

		Controver	rsial fields			Less contro	versial fields					
Measure	Viro	logy	Climate	Science	Astrop	hysics	Science	of History	Science i	n General	F-Test	n²
-	М	SD	М	SD	М	SD	М	SD	М	SD		
Perceived trustworthiness overall	5.18	1.46	5.10	1.38	5.16	1.36	5.13	1.11	5.33	1.08	<i>F</i> (4, 1002) =.98	.00
Perceived trustworthiness – expertise	5.37	1.52	5.23	1.44	5.35	1.49	5.20	1.09	5.67	1.16	F(4, 1002) =.4.01 **	.02
Perceived trustworthiness – integrity	5.00	1.53	4.89	1.47	5.12	1.39	5.10	1.23	5.19	1.15	<i>F</i> (4, 1002) =.1.30	.01
Perceived trustworthiness – benevolence	5.17	1.53	5.18	1.42	4.99	1.44	5.09	1.21	5.12	1.18	<i>F</i> (4, 1002) =75	.00
Perceived authenticity overall	4.54	1.07	4.46	.95	4.67	.82	4.57	.75	4.60	.88	F(4, 1002) =.1.38	.01
Perceived authenticity – connection	4.91	1.19	4.75	1.14	4.88	1.13	4.91	.97	5.01	.89	F(4, 1002) =.1.40	.01
Perceived authenticity – integrity	4.10	1.40	4.12	1.22	4.43	1.14	4.16	1.07	4.10	1.09	F(4, 1002) =.2.83 *	.01

Note. *N* = 1007. *** p < .001. ** p < .01. * p < .05

Table 3. Means (M), standard deviation (SD), and one-way analyses of variance regarding perceived trustworthiness and its subscales (expertise, integrity, benevolence) and perceived authenticity and its subscales (connection, integrity) across collapsed experimental conditions (controversial fields, less controversial fields, science in general), controlling for age, gender, and education.

Measure	Controve	rsial fields	Less contro	versial fields	Science i	n General	E Toot	n ²
-	М	SD	М	SD	М	SD	F-Test	η
Perceived trustworthiness overall	5.14	1.42	5.14	1.24	5.33	1.08	<i>F</i> (2, 1004) = 1.77	.00
Perceived trustworthiness – expertise	5.30	1.48	5.28	1.31	5.67	1.16	F(2, 1004) = 6.79	.01
Perceived trustworthiness – integrity	4.95	1.40	5.11	1.31	5.19	1.15	<i>F</i> (2, 1004) = 2.31	.01
Perceived trustworthiness – benevolence	5.18	1.47	5.04	1.33	5.12	1.18	<i>F</i> (2, 1004) = 1.28	.00
Perceived authenticity overall	4.50	1.01	4.62	.79	4.60	.88	<i>F</i> (2, 1004) = 1.53	.00
Perceived authenticity – connection	4.83	1.17	4.89	1.05	5.01	.89	<i>F</i> (2, 1004) = 1.80	.00
Perceived authenticity – integrity	4.11	1.31	4.30	1.11	4.10	1.09	<i>F</i> (2, 1004) = 2.71	.01

Note. *N* = 1007. *** p < .001. ** p < .01. * p < .05

Table 4. OLS regressions predicting perceived trustworthiness and its subscales (expertise, integrity, benevolence) and perceived authenticity and its subscales (connection, integrity) by science-related media consumption as well as science-related media consumption related to old-world and new-world media, controlling for age, gender, and education.

										Deper	ndent var	riables									
	F trustwo	Perceived trustworthiness overa b SE ß		l trust	Perceive tworthine expertise	d ess – e	l trust	Perceived worthine integrity	d ss –	F trust be	Perceived worthine enevolen	d ess – ce	Perceiv	ved auth overall	enticity	Perceive	ed authe onnectio	nticity – n	Perceiv	ed authe integrity	enticity –
	b	SE	ß	b	SE	ß	b	SE	ß	b	SE	ß	b	SE	ß	b	SE	ß	b	SE	ß
Constant	4.63	.17		4.97	.18		4.47	.18		4.45	.18		4.22	.12		4.26	.14		4.17	.16	
Age	.01	.00	.09	.01	.00	.07	.01	.00	.09	.01	.00	.10 **	.01	.00	.15	.01	.00	.13 ***	.01	.00	.11
Sex (1=female)	03	.08	01	07	.09	02	05	.09	02	.02	.09	.01	02	.06	01	.08	.07	.04	13	.08	05
Education (1=higher)	.33	.08	.13	.39	.09	.14 ***	.31	.09	.12 ***	.27	.09	.10 **	.16	.06	.09 **	.13	.07	.06	.20	.07	.08
Science-related media	.05	.03	.04	.00	.04	.00	.06	.04	.06	.07	.04	.07 *	02	.02	04	.07	.03	.09 **	14	.03	15 ***
Adjusted R^2	.02			.02			.02			.02			.03			.02			.05		
Constant	4.63	.16		4.95	.17		4.46	.17		4.47	.17		4.14	.11		4.26	.13		4.00	.15	
Age	.01	.00	.08	.01	.00	.07	.01	.00	.08	.01	.00	.09	.01	.00	.16	.01	.00	.12	.01	.00	.14
Sex (1=female)	03	.08	01	06	.09	02	04	.08	02	.02	.09	.01	01	.06	00	.08	.07	.04	11	.08	05
Education (1=higher)	.32	.08	.13	.39	.09	.14	.31	.08	.11	.27	.09	.10	.16	.06	.09	.13	.07	.06	19	.08	.08
Science-related media	.05	.03	.05	.00	.03	.00	.07	.03	.07	.08	.03	.07 *	00	.02	00	.08	.03	.10 **	10	.03	11 ***
Adjusted R^2	.02			.02			.02			.02			.03			.02			.04		
Constant	4.67	.18		4.98	.18		4.54	.19		4.49	.19		4.29	.12		4.33	.15		4.23	.16	
Age	.01	.00	.09	.01	.00	.07	.01	.00	.09	.01	.00	.10	.01	.00	.14	.01	.00	.13	.01	.00	.08

Sex (1=female)	04	.08	01	07	.09	03	06	.09	02	.01	.09	.01	02	.06	01	.07	.07	.03	13	.08	05
Education (1=higher)	.33	.08	.13 ***	.39	.09	.15	.32	.09	.12 ***	.28	.09	.10 ***	.16	.06	.09 **	.14	.07	.07 *	.19	.07	.08 *
Science-related media consumption – new-world	.03	.03	.03	01	.03	01	.04	.03	.04	.05	.03	.06	04	.02	06	.05	.03	.06	15	.03	17 ***
Adjusted R ²	.02			.02			.02			.02			.03			.02			.05		

Note. N = 1007. Unstandardized and standardized coefficients. *** p < .001. ** p < .01. * p < .05. Sex (1=female, 0=male). Education (1=German degree for higher education).

Table 5. OLS regressions predicting perceived trustworthiness and its subscales (expertise, integrity, benevolence) and perceived authenticity and its subscales (connection, integrity) by science-related media consumption as well as science-related media consumption related to old-world and new-world media within the experimental condition on science in general, controlling for age, gender, and education.

										Deper	ndent va	riables									
	l trustwo	Perceived trustworthiness overall b SE ß		F trust	Perceive tworthine expertise	d ess – e	F trust	Perceive worthine integrity	d ess –	F trust be	Perceive worthine nevolen	d ess – ce	Perceiv	ved auth overall	enticity	Perceive	ed authe onnectio	nticity – n	Perceiv	ed authe integrity	enticity –
	b	SE	ß	b	SE	ß	b	SE	ß	b	SE	ß	b	SE	ß	b	SE	ß	b	SE	ß
Constant	4.62	.34		5.40	.37		4.50	.37		3.96	.37		4.14	.23		4.14	.28		4.15	.34	
Age	.01	.00	.11	.00	.01	.04	.01	.01	.11	.01	.01	.16	.01	.00	.21	.01	.00	.18	.01	.00	.14
Sex (1=female)	06	.15	03	09	.17	04	11	.16	05	.02	.16	.01	.09	.10	.06	.17	.13	.09	01	.15	00
Education (1=higher)	.20	.15	.09	.35	.16	.15	.12	.16	.05	.14	.16	.06	.16	.10	.11	.19	.12	.11	.13	.15	.06
Science-related media consumption	.13	.07	.15	.00	.07	.00	.14	.07	.15 *	.24	.07	.25 ***	04	.05	07	.11	.05	.15 *	22	.07	25 ***
Adjusted <i>R</i> ²	.02			.01			.02			.05			.05			.03			.09		
Constant	4.67	.32		5.37	.35		4.57	.34		4.06	.35		4.04	.22		4.14	.26		3.91	.32	
Age	.01	.00	.09	.00	.01	.04	.01	.01	.09	.01	.01	.13	.01	.00	.23 ***	.01	.00	.16 *	.01	.00	.19
Sex (1=female)	06	.15	03	08	.16	04	11	.16	05	.02	.16	.01	.10	.10	.07	.17	.12	.10	.02	.15	.01
Education (1=higher)	.20	.15	.09	.35	.16	.15 *	.12	.16	.05	.14	.16	.06	.16	.10	.11	.19	.12	.11	.12	.15	.05
Science-related media	.12	.06	.15 *	.01	.07	.02	.13	.07	.15 *	.23	.07	.25 ***	01	.04	02	.12	.05	.17 *	17	.06	20 **
Adjusted R^2	.02			.01			.02			.05			.05			.04			.07		
Constant	4.70	.35		5.44	.37		4.56	.37		4.09	.37		4.23	.23		4.25	.29		4.19	.34	
Age	.01	.01	.12	.00	.01	.04	.01	.01	.12	.01	.01	.17	.01	.00	.19	.01	.00	.17	.01	.01	.11

Sex (1=female)	08	.15	04	09	.16	04	13	.16	06	01	.16	00	.08	.10	.05	.15	.13	.08	00	.15	00
Education (1=higher)	.21	.15	.10	.35	.16	.15 *	.13	.16	.06	.15	.16	.06	.17	.10	.11	.20	.12	.11	.13	.15	.06
Science-related media consumption – new-world	.10	.06	.12	01	.07	01	.12	.07	.14	.19	.07	.21 **	06	.04	11	.07	.05	.11	22	.06	27 ***
Adjusted R ²	.01			.01			.01			.03			.06			.02			.09		

Note. n = 209. Unstandardized and standardized coefficients. *** p < .001. ** p < .01. * p < .05. Sex (1=female, 0=male). Education (1=German degree for higher education, 0=no German degree for higher education).

Table 6. OLS regressions predicting perceived trustworthiness and its subscales (expertise, integrity, benevolence) and perceived authenticity and its subscales (connection, integrity) by science-related media consumption as well as science-related media consumption related to old-world and new-world media within the experimental conditions on controversial scientific fields, controlling for age, gender, and education.

										Deper	ndent va	riables									
	l trustwo	Perceived trustworthiness overall b SE ß		F trust	Perceive tworthine expertise	d ess – e	F trust	Perceive worthine integrity	d ss –	F trust be	Perceive tworthine enevolen	d ess – ce	Percei	ved auth overall	enticity	Perceiv c	ed authe onnectio	nticity –	Perceiv	ed authe integrity	enticity –
	b	SE	ß	b	SE	ß	b	SE	ß	b	SE	ß	b	SE	ß	b	SE	ß	b	SE	ß
Constant	4.52	.29		4.67	.30		4.33	.31		4.56	.30		4.15	.21		4.27	.24		3.99	.27	
Age	.01	.00	.10	.01	.00	.11	.01	.00	.09	.01	.00	.08	.01	.00	.10	.01	.00	.08	.01	.00	.08
Sex (1=female)	.01	.14	.00	00	.15	00	.01	.15	.00	.02	.15	.01	03	.10	02	.07	.12	.03	16	.13	06
Education (1=higher)	.44	.14	.15	.45	.15	.15	.40	.15	.14	.45	.15	.15	.11	.10	.06	.09	.12	.04	.15	.13	.06
Science-related media consumption	.03	.06	.03	.02	.06	.02	.04	.06	.03	.04	.06	.04	.03	.04	.04	.10	.05	.11 *	05	.06	05
Adjusted R^2	.02			.03			.02			.02			.00			.01			.01		
Constant	4.46	.27		4.61	.28		4.25	.29		4.50	.28		4.08	.19		4.26	.22		3.87	.25	
Age	.01	.00	.09	.01	.00	.11	.01	.00	.09	.01	.00	.08	.01	.00	.10	.00	.00	.07	.01	.00	.09
Sex (1=female)	.02	.14	.01	.00	.15	.00	.02	.15	.01	.03	.15	.01	02	.10	01	.08	.12	.03	15	.13	06
Education (1=higher)	.43	.14	.15 **	.44	.15	.15 **	.39	.15	.13	.44	.15	.15 **	.10	.10	.05	.08	.12	.03	.14	.13	.05
Science-related media consumption – old-world	.06	.06	.05	.04	.06	.03	.07	.06	.06	.06	.06	.05	.06	.04	.07	.12	.05	.13 *	02	.05	02
Adjusted R^2	.03			.03			.02			.02			.01			.01			.01		
Constant	4.62	.29		4.74	.31		4.46	.31		4.66	.31		4.25	.21		4.37	.24		4.10	.27	
Age	.01	.00	.09	.01	.00	.10	.01	.00	.08	.01	.00	.07	.01	.00	.09	.01	.00	.08	.00	.00	.06

Sex (1=female)	00	.14	00	01	.15	00	01	.15	00	.01	.15	.00	04	.10	02	.06	.12	.02	16	.13	.06
Education (1=higher)	.45	.14	.16 ***	.46	.15	.16 **	.42	.15	.14 **	.46	.15	.16 **	.12	.10	.06	.10	.12	.04	.15	.13	.06
Science-related media consumption – new-world	.00	.06	.00	01	.06	00	.00	.06	.00	.01	.06	.01	.00	.04	.00	.06	.05	.08	07	.05	08
Adjusted R ²	.02			.05			.02			.02			.00			.00			.01		

Note. n = 411. Unstandardized and standardized coefficients. *** p < .001. ** p < .01. * p < .05. Sex (1=female, 0=male). Education (1=German degree for higher education, 0=no German degree for higher education).

Table 7. OLS regressions predicting perceived trustworthiness and its subscales (expertise, integrity, benevolence) and perceived authenticity and its subscales (connection, integrity) by science-related media consumption as well as science-related media consumption related to old-world and new-world media within the experimental conditions on less controversial fields.

										Deper	ident var	laples									
	l trustwo	Perceived trustworthiness overal			Perceive tworthine expertise	d ess – e	F trust	Perceive tworthine integrity	d ess –	F trust be	Perceived worthine enevolen	d ss – ce	Percei	ved auth overall	enticity	Perceiv c	ed authe onnectio	enticity – n	Perceiv	ed authe integrity	enticity –
	b	SE	ß	b	SE	ß	b	SE	ß	b	SE	ß	b	SE	ß	b	SE	ß	b	SE	ß
Constant	4.75	.27		5.08	.29		4.64	.29		4.53	.29		4.36	.17		4.31	.23		4.42	.23	
Age	.01	.00	.07	.00	.00	.03	.01	.00	.07	.01	.00	.10	.01	.00	.19 ***	.01	.00	.15 **	.01	.00	.12
Sex (1=female)	05	.13	02	12	.13	05	04	.13	02	.03	.14	.01	05	.08	03	.05	.11	.03	16	.11	07
Education (1=higher)	.29	.13	.12	.37	.13	.14	.32	.14	.12	.18	.14	.07	.20	.08	.13	.15	.11	.07	.27	.11	.12
Science-related media consumption	.02	.05	.02	02	.06	02	.04	.06	.04	.03	.06	.03	08	.03	12 *	.03	.05	.04	20	.05	24 ***
Adjusted <i>R</i> ²	,01			.01			.01			.00			.07			.02			.09		
Constant	4.80	.25		5.12	.26		4.68	.26		4.61	.27		4.28	.15		4.33	.21		4.22	.22	
Age	.00	.00	.06	.00	.00	.03	.00	.00	.06	.01	.00	.09	.01	.00	.21	.01	.00	.15	.01	.00	.16
Sex (1=female)	05	.13	02	13	.13	05	05	.13	02	.02	.14	.01	04	.08	02	.05	.11	.02	14	.11	06
Education (1=higher)	.30	.13	.12	.38	.14	.15 **	.32	.14	.12	.18	.14	.07	.20	.08	.13 *	.15	.11	.07	.27	.11	.12
Science-related media consumption – old-world	.00	.05	.01	03	.05	03	.03	.05	.03	.02	.05	.02	06	.03	10	.03	.04	.04	17	.04	19 ***
Adjusted R^2	.01			.02			.01			.00			.07			.02			.08		
Constant	4.71	.27		5.00	.29		4.64	.29		4.48	.29		4.38	.17		4.32	.23		4.44	.23	
Age	.01	.00	.08	.00	.00	.04	.01	.00	.07	.01	.00	.11	.01	.00	.17	.01	.00	.15	.01	.00	.09

10

Sex (1=female)	04	.13	02	11	.13	04	04	.13	02	.03	.14	.01	05	.08	03	.05	.11	.02	16	.11	07
Education (1=higher)	.29	.13	.12 *	.36	.13	.14 **	.32	.13	.12 *	.18	.14	.07	.20	.08	.13 *	.16	.11	.07	.25	.11	.11 *
Science-related media consumption – new-world	.03	.05	.03	.00	.05	.00	.04	.05	.04	.04	.05	.05	07	.03	13 *	.03	.04	.04	19	.04	25 ***
Adjusted R ²	.01			.01			.01			.01			.07			.02			.09		

Note. n = 387. Unstandardized and standardized coefficients. *** p < .001. ** p < .01. * p < .05. Sex (1=female, 0=male). Education (1=German degree for higher education).