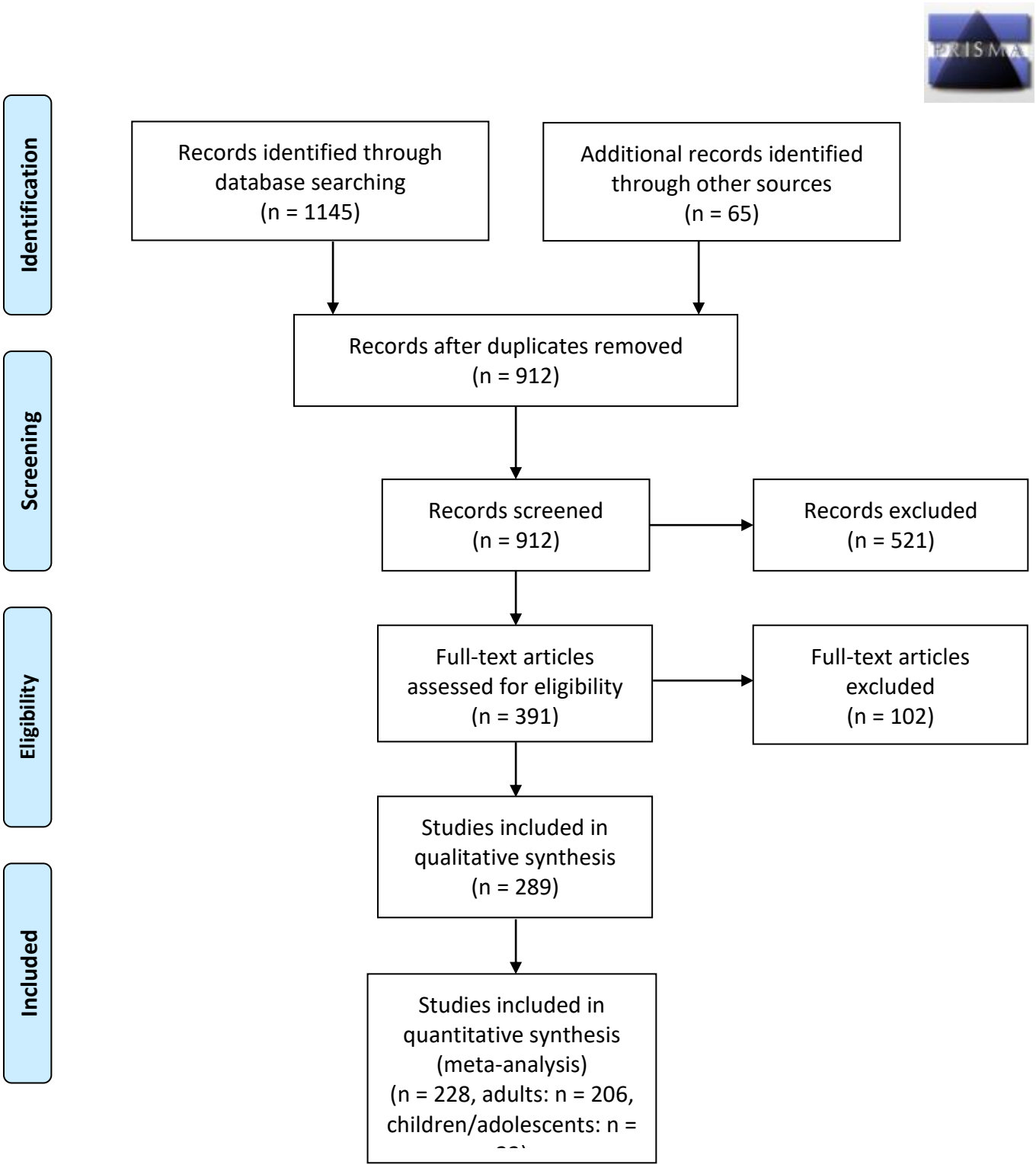
SUPPLEMENTARY INFORMATION

Early and late neural correlates of mentalizing: ALE meta-analyses in adults, children and adolescents

Lynn V. Fehlbaum[1,2], Réka Borbás[1,2], Katharina Paul[2], Simon B. Eickhoff[3,4], Nora M. Raschle[1,2,5]

[1] *Jacobs Center for Productive Youth Development at the University of Zurich, Zurich, Switzerland*
[2] *Department of Child and Adolescent Psychiatry, University of Basel, Psychiatric University Hospital, Basel, Switzerland*
[3] *Institute of Systems Neuroscience, Medical Faculty, Heinrich Heine University Düsseldorf, Düsseldorf, Germany*
[4] *Institute of Neuroscience and Medicine, Brain & Behaviour (INM-7), Research Centre Jülich, Jülich, Germany*
[5] *Neuroscience Center Zurich, University of Zurich and ETH Zurich, Zurich, Switzerland*



Supplementary Information 1. PRISMA 2009 flow diagram.

Supplementary Information 2. List of publications including number of subjects (N), mean age of participants, task type, contrast, MNI coordinate reports and *p* value/correction of the studies that entered the meta-analysis in adults.

Author	N	Age [mean age±SD/range in years]	Task type	Contrast	MNI coordinates	p value, correction†
Gallagher*, 2000	6	[30/23–36]	**ToM cartoon, ToM reading**	ToM>Non-ToM stories and cartoons	-9.8 53.72 3.71 / 47.02 14.9 44.68 / -51.41 14.35 -47.71 / -56.72 -66.66 27.63 / 66.35 -44.95 23.38 / 4.02 -47.14 49.32	$p<0.001$ uc or corr. at $p<0.05$
Russell*, 2000	7	[40±11/26–58]	**Reading the Mind in the Eyes**	Mental state>Control	-55.15 19.76 -1.12 / -45.08 11.44 24.18 / -58.13 -48.32 5.67 / -58.13 -30.79 9.54	$p<0.0004$ uc
Vogeley*, 2001	8	[NA/25–36]	**ToM reading**	ToM stories + self and other ascription stories>Physical stories	7.32 61.25 -8.53 / -61.8 10.83 -15.81 / -65.6 8.18 24.86 / 7.65 63.74 18.11 / 5.66 34.37 25.53 / 25.26 55.24 41.06 / -59.35 30.56 11.33	Voxel-level corr. at $p<0.05$, k≥17
Ferstl*, 2002	9	[NA/22–27]	**ToM reading**	ToM>Control	-19.27 56.62 23.76 / -9.24 -58.09 24.85 / 7.91 -55.77 14.24 / -52.37 -65.27 30.78 / -62.35 -59.62 11.34 / -57.36 -13.41 -11.25 / 50.52 -2.16 -23.16 / -32.44 -34.69 -10.69 / 31.22 -26.27 -15.97 / -18.94 37.21 45.84 / -50.89 19.36 -5.63 / 32.93 -95.99 18.92 / 45.82 -79.03 15.9	$p<0.001$ uc, minimum volume 225 mm3
Martin*, 2003	12	[27.5/23–34]	**Frith-Happé**	Social> Mechanical	-46.58 -61.72 -23.46 / -42.3 -41.19 -22.2 / 45.34 -55.25 -16.7 / 44.1 -35.67 -25.34 / 62.04 -58.04 21.39 / -51.43 -57.59 21.04 / 58.32 -20.03 -8.08 / -59.38 -21.09 -1.49 / 21.43 -1.64 -16 / 3.91 55.63 -22.48 / 1.76 45.84 -23.72	$p<0.05$ uc
Saxe*, 2003	25	[NA]	**False belief**	False belief task>Mechanical inference stories	-54 -60 21 / -57 -27 -12 / -9 -51 33 / 51 -54 27 / 66 -18 -15	Corr. for multiple spatial hypotheses at $p<0.05$
Decety*, 2004	12	[NA/21–28]	**Computer/huma**	Competition> Independent	-16 -66 64 / 22 -74 58 50 -36 56 / -28 4 56 /	$p<0.001$ uc, k≥20

			n interaction		26 4 52 / -8 36 40 / 10 30 36 / 40 52 24 / -32 18 4 / 42 24 -12	
Gallagher*, 2004	13	[36.0/28–60]	**Expressive gestures**	Expressive> Instrumental	2.78 50.86 -27.59 / 24.53 -.54 -27.36 / 17.95 -5.64 -35.71 / -14.37 -7.26 -28.28 / 53.02 -45.57 -5.46 / 27.56 -101.23 20.65 / -24.4 -104.37 12.88	Gaussian random fields theory corr. at $p<0.05$
German*, 2004	16	[NA/18–29]	**Pretended/real actions**	Pretend play>Real action	6 31 32 / -9 57 25 / -3 52 -3 / 33 20 -11 / 56 18 10 / -39 14 -13 / -48 10 16 / -30 53 6 / -45 40 -12 / -50 -52 3 / 59 -58 14 / 48 -70 -2 / 42 -53 -12 / -18 -4 -12 / 21 -10 -22 / 21 -11 12 / -3 9 9 / 12 -60 -40	$p<0.005$ uc, k≥30
Gobbini*, 2004	10	[26.8/22–39]	**Face familiarity**	Personally familiar> Famous familiar faces	-3.24 59.79 10.84 / 3.22 58.54 8.62 / -22.17 18.71 43.25 / 42.51 9.08 28.53 / 32.04 2.81 53.98 / -37.18 -62.57 35.86 / 54.47 -54.88 21.21 / -48.59 -39.76 -6.55 / 48.26 -1.83 -31 / -4.78 -67.98 33.6 / 5.99 -58.37 32.46 / -46.47 -69.61 -15.96 / 33.38 -29.56 -16.8 / 57.23 -54.04 -15.9 / -23.75 -83.56 -17.2 / 24.69 -11.4 -17.33 / -66.7 -20.42 17.62 / -48.35 -20.45 16.19 / -24.85 -82.61 -18.4 / 20.31 -41.38 -27.73 / 40.97 -64.4 -22.44 / -5.21 -6.68 11.85 / 7.8 -10.68 14.27 / 12.94 0.54 -3.74	$p<0.025$ uc, minimum volume 250 microliter
Grèzes*, 2004	6	[NA/25–39]	**False belief**	False expectation>Correct expectation	55.11 26.09 3.1 / -59.6 37.41 -7.27 / 44.07 33.1 -13.09 / -33.77 25.82 -17.77 / -.51 34.5 50.28 / 18.42 13.19 5 / -50.44 -46.2 16.53 / 66.07 -44.9 0.97 / -57.1 -49.8 1.31 / -23 -83.82 -42.96	$p<0.001$ uc
Leibenluft*,	7	[NA/20–40]	**Own/oth**	Own	9.73 62.06 11.52 / -	$p<0.025$ uc,

2004			**ers' children face processing**	child>Familiar child	4.17 52.1 20.59 / -7.1 15.05 37.75 / -34.25 2.97 24.84 / 15.82 24.55 57.71 / -20.89 22.4 59.67 / 49.89 29.65 18.52 / -41.48 10.86 52.2 / -29.65 23.66 50.73 / 49.89 29.65 18.52 / -37.33 28.23 42.56 / -43.29 31.7 -.26 / -4.8 59.44 -27.19 / -56.69 -67.51 29.95 / 66.01 -2.7 4.64 / 57.07 -12.56 -20 / -61.51 -27.48 -.82 / 62.65 -46.26 -13.4 / 2.65 -50.39 26.13 / 10.24 -68.76 24.45 / -50.15 -46.25 38.94 / 31.85 -68.68 24.08 / 50.62 -23.32 -19.95 / -45.32 -80.03 -12.7 / 28.93 -7.55 -22.26 / -43.5 30.15 -16.91 / 19.56 13.61 9.42 / 30.44 -29.52 6.78 / -17.17 -17.13 4.12 / -13.86 -4.59 11.79 / -7.46 -10.61 4.43 / 24.82 -4.94 -5.64 / -15.26 -.39 -12.13 / 15.15 6.38 1.25 / 37.6 -62.05 -31.58 / -37 -62.73 -34.73	minimum volume 250mL
Platek*, 2004	5	[NA]	**Reading the Mind in the Eyes**	RMET>Revised condition	46.98 29.9 44.32 / 43.76 30.09 46.6 / 46.76 12.93 23.59 / 7.09 43.56 54.86 / -48.51 33.04 14.26 / -48.99 20.68 -25.97	Bonferroni corr. at $p<0.05$
Rilling*, 2004	19	[21.8±7.8/NA]	**Prisoner's dilemma**	Human>Control	61.4 -10.31 -19.18 / 53.5 -54.05 30.11 / 0.29 -83.63 3.68 / 9.67 -10.63 -8.18 / 23.16 34.92 41.99 / 4.38 50.34 12.77 / 0.67 -56.7 39.11 / 1.19 -9.41 5.29 / -16.17 -26.46 -3.93 / -22.83 17.02 -9.24	$p<0.001$ uc
Seger*, 2004	12	[23.6/20–32]	**Food preferences of others**	Other>Letter (control)	-1.09 59.69 9.7 / -28.61 27.71 48.07 / -4.82 -67.23 30.16 / 6.01 -60.39 33.78 / 51.08 -19.9 16.68 / 65.1 -21.12 14.32 / -	$p<0.005$ uc, k≥20

					6.98 -12.5 41.59 / -9.01 -9.34 52.52	
Walter*, 2004	13	[25.1±2.0/20–28]	**ToM cartoon**	Private intention by one agent>Physical causality	3 -60 36 / -6 -57 48 / -45 -78 6 / 57 -51 12 / 54 -63 9 / -48 -60 24 / 63 -3 -15 / 6 33 21 / -6 36 27	Cluster-level corr. at $p<0.05$ or SVC at $p<0.05$
				Private intentions by two agents>Physical causality	9 -54 42 / -3 -57 54 / -6 -87 -12 / 21 -96 18 / -42 -84 3 / 57 -51 12 / 57 -9 -15 / 45 21 24 / 21 -27 -3 / 39 -51 -27 / 21 -39 -18 / -42 -69 24	
				Communicative intention>Physical causality	9 -57 42 / -6 -54 45 / 51 -42 12 / -36 -51 21 / 54 -60 12 / 48 -27 0 / 54 0 -21 / -63 -15 -15 / 54 33 -9 / -51 30 -12 / 57 27 3 / 24 42 45 / -12 39 39 / 6 60 24 / -9 51 36 / 0 54 12 / -36 -27 -12 / -3 -57 -9	
Walter*, 2004	12	[24.75±2.63/19–27]	**ToM cartoon**	Private intention by one agent>Physical causality	3 -54 42 / -6 -45 60 / 42 -60 -18 / -24 -27 57 / -51 -6 48 / 51 -42 21 / 45 -60 9 / -6 18 45 / -42 33 -15 / 6 51 -12 / -3 54 -15	Cluster-level corr. at $p<0.05$ or SVC at $p<0.05$
				Prospective social intention>Physical causality	3 -60 30 / -6 -51 39 / 57 -54 15 / 45 -51 9 / -42 -57 18 / 57 -12 -15 / -36 30 -21 / 30 30 42 / 0 51 -15 / -3 48 -12 / -18 54 12 / 3 54 12 / -3 54 15 / -27 -36 -21	
				Communicative intention>Physical causality	3 -54 51 / -6 -51 30 / 54 -48 18 / -57 -48 18 / 45 12 -39 / 45 -51 12 / -51 -27 -3 / 51 -3 27 / -54 0 -24 / 51 -18 -15 / -54 -15 -18 / 54 24 -9 / -48 30 -12 / 3 54 -15 / 0 60 18	
Bhatt*, 2005	16	[NA]	**Self-referential thinking (reading)**	2nd order false belief>False belief	-42 3 0 / 45 33 0 / -42 3 0 / 45 33 0	$p<0.001$ uc
den	11	[NA/21–37]	**ToM**	Intentional	3 -42 24 / -57 -57 21 /	$p<0.001$ uc or

Ouden*, 2005			**reading**	causality>Physical causality	57 -66 27 / -9 69 15 / -36 12 -30 / 30 18 -27 / -45 -69 36 / 48 -72 39	Gaussian random fields theory corr. at $p<0.05$
Harris*, 2005	12	[20/NA]	**ToM reading**	Person attribution>Other conditions	66.29 -43.24 18.73 / -.92 53.28 21.53 / 6.24 54.66 -10.1 / 28.11 56.7 10.62 / 63.99 -51.94 6.19 / 55.26 -7.74 8.69 / 54.55 -66.27 25.69 / 51.12 -73.15 9.63 / 50.37 -8.38 48.05 / 49.59 12.06 -8.86 / 6.96 -63.55 22.87 / -1.73 11.57 34.64	FDR corr. at $p<0.025$
Kim*, 2005	14	[23.3±2.0/19–27]	**Matching faces with situation**	Facial affect appropriateness>Gender matching	-46.88 15.92 -31.14 / -54.2 23.18 -10.44 / -3.17 -4.32 2.62	$p<0.001$ uc, k≥10
Ochsner*, 2005	16	[22.95/NA]	**Self-referential thinking (reading)**	Friend about you>You about self	20 16 -12 / 38 -22 12 / -30 -4 -22 / -8 -52 66 / -20 -88 -6 / -38 -46 -22 / 36 -50 -20	$p<0.001$ uc, k≥5
				Other about you>You about self	-54 0 -26 / -54 -10 -20 / 46 0 -34 / 46 -16 -18 / 6 -32 -32	
Aichhorn*, 2006	18	[NA/21–55]	**Visual perspective taking**	Effect of viewer: Other>Self	33 -84 18 / -24 -18 60 / 48 6 27	Cluster-level corr. at $p<0.05$
Elliott*, 2006	12	[23.7±1.4/NA]	**Reward processing**	Cooperation> Play alone	-5.26 58.58 21.08 / 4.42 58.31 17.58 / -50.14 -59.32 36.88 / 52.6 18.06 -25.2 / -59.41 -33.41 -6.99 / -1.55 -56.06 34.6 / 8.29 -63.91 41.94 / -21.13 45.71 45.04 / 5.11 27.36 65.46	$p<0.001$ uc
Fukui*, 2006	16	[21.9±2.6/NA]	**Reward processing**	Human>Computer	-7.29 50.8 29.73 / -59.94 -50.09 32.77	$p<0.05$, k≥25
Kobayashi*, 2006	32	[28.4±5.6/18–39]	**False belief**	ToM>Non-ToM	24.92 46.16 12.83 / 20.7 33.8 18.61 / 37.99 33.86 18.31 / -42.13 -13.69 -3.63 / -11.07 -57.83 50.63 / 66.32 -43.03 20.95 / -55.77 -39.11 23.77	$p<0.005$ uc
Marjoram*, 2006	13	[29.6±1.6/NA]	**Humor, false belief**	ToM joke cartoon>Physical joke cartoon	-4.62 -44.94 50.37 / 56.72 -38.84 31.91 / -62.36 -57.5 11.13	Cluster-level corr. at $p<0.05$

Moriguchi*, 2006	30	[20.4±0.9/19–22]	**Frith-Happé**	ToM (main effect)	55.18 -31.32 -2.43 / 46.54 -64.19 -9.11 / 58.68 -48.04 13.74 / 54.69 8.73 -33.27 / 43.76 2.33 -43.66 / 26.75 -5.53 -23.54 / -24.54 -95.63 3.05 / -14.18 -85.73 -29.48 / -60.11 -52.4 19.55 / -68.75 -48.08 20.39 / 18.23 -87.85 -30.94 / -56.12 28.24 9.26 / 9.78 -9.8 0.7 / 8.33 -49.36 48.34 / -4.67 -47.49 46.14 / -43.94 14.09 29.51 / -45.9 10.11 44.5 / 13.98 70.27 7.27 / 12 70.55 21.85 / 7.93 58.17 38.83 / -60.67 -6.28 -15.26 / -50.95 -22.28 65.72 / 7.59 -23.19 -4.66 / 12.65 21.76 62.52 / -44.58 -23.53 -28.39 / 76.08 -16.43 29.36 / -3.71 31.06 -32.25 / -36.08 -9.23 -36.68 / -9.65 -14.12 1.46	FDR corr. at $p<0.05$
Saxe*, 2006	12	[NA/19–26]	**False belief**	False belief>False photograph	12 -66 21 / 60 -57 15 / -9 51 3 / 0 45 48 / 60 -18 -21 / 30 6 -15 / -51 -57 27 / -27 0 -21 / 51 12 -33	$p<0.001$ uc
Saxe*, 2006	12	[NA/18–26]	**False belief**	False belief stories>Physical	0 -60 30 / 57 -57 18 / 0 57 12 / 54 -18 -21 / -54 -12 12 / -45 -72 39 / 24 3 -12 / -24 -6 -24	Cluster-level corr. at $p<0.05$
Spiers*, 2006	20	[49.8±8.5/27–59]	**ToM cartoon**	ToM agents + ToM customers/experimenters>Automatic driving	60 -36 0 / 3 57 6 / 6 -84 -12 / 60 24 27 / 30 -39 60 / -6 30 36 / -45 36 30 / 18 15 63 /-51 -72 15 / -39 -81 -18 / -33 -60 -27 / -60 -3 -27 / -42 27 -15 / -18 -66 63 / 6 -93 0 / 6 6 42 / 3 12 27 / -27 45 36 / 30 -57 60 / 51 -72 9 / 48 -63 -15 / 12 39 18 / -3 -87 27 / -12 -69 6	$p<0.001$ uc, $k\geq5$
Uchiyama*, 2006	20	[21.9±2.7/19–29]	**Sarcasm**	Sarcasm	-6 16 58 / -6 44 42 / -8 60 28 / -60 22 12 / -56 24 -6 / -46 18 -10 / -52 8 -30 / -56 -10 -	Voxel-level corr. at $p<0.05$

					12 / -56 -28 -2 / 28 -82 -34	
Völlm*, 2006	13	[24.9/19–36]	**ToM cartoon**	Cognitive ToM>Physical, Affective ToM>Physical	-51.17 29.29 -25.66 / -62.16 -57.11 26.78 / -62.71 -21.83 -9.2 / -53.33 -8.98 -33.04 / 1.59 -50.19 28.37 / -37.92 -48.41 -19.32 / -14.75 -107.08 6.26 / -15.16 -95.96 -23.97 / 20.17 52.81 -19.12 / 50.22 -79.46 22.59 / 67.93 7.56 -12.09 / 67.85 -16.02 -23.21 / 43.02 -78.29 -33.43 / -8.13 46.07 48.14 / -52.51 -57.59 21.06 / -48.05 8.7 -39.37 / -11.67 -53.58 4.28 / -31.41 -86.44 -24.63 / 52.42 2.47 -42.7 / 62.32 2.68 -29.45 / 30.49 -101.37 -4.04 / 20.46 -89.45 -25.22	p<0.001 uc, k≥10
Cheng*, 2007	14	[35±8/NA]	**Pain/harm in others**	Needle prick>Q-tip	-4 -34 -15 / 40 20 -9 / -36 16 -1 / 4 18 45 / 6 2 54 / -6 -12 73 / 48 8 42 / -38 -4 59	p<0.001 uc, k≥10
Gilbert*, 2007	16	[21/18–27]	**Evaluation of helpfulness (reading)**	Mentalizing> Non-mentalizing	-8 54 30 / 48 8 -34	Corr. at p<0.05
Gobbini*, 2007	12	[22±2]	**Frith-Happé, false belief**	False belief>Physical stories	-2.24 59.17 4.17 / 7.8 59.36 28.63 / 11.66 63.6 -6.6 / -21.36 55 29.56 / -44.17 36.45 16.09 / -44 6.02 23.58 / 39.65 22.48 -23.17 / 11.44 30.6 53.82 / -55.65 -59 29.09 / 38.36 13.26 -41.29 / -53.39 11.33 -33.93 / 57.34 -48.85 -6.33 / -50.76 -50.81 -9.9 / -35.81 -29.05 -19.03 / 6.97 -13.18 33.58 / -10.2 -48.44 36.24 / -26.23 -71.27 45.49 / -51.09 -38.62 51.65 / -11.64 -93.87 -1.82	p<0.001 uc, minimum volume 100 microliter
				Social animations>Random	9.76 57.91 13.05 / -50.7 28.46 11.39 / 55.07 32.36 1.36 /	

				movement animations	5.03 22.38 58.11 / -1.71 44.51 42.59 / 50.08 12.5 30.3 / -48.73 -14.54 -12.4 / -60.1 -57.82 18.97 / 52.21 -44.67 15.75 / 53.725.2 -25.07 -51.11 / 11.1 -24.98 / 46.59 -55.06 -3.29 / -42.11 -56.21 -10.63 / 38.85 -56.44 -17.59 / 10.4 -47.85 41.43 / -62.15 -30.75 33.13 / 50.12 -22.26 25.9 / -2.71 -21.62 35.7 / -24.92 25.18 -2.17 / 19.59 6.17 10.16 / 7.6 -22.02 -3.66 / -29.36 -81.84 -32.97 / 15.86 -31.38 -35.37	
Mitchell, 2007	20	[23.0/19–29]	**False belief**	False belief stories>Photograph stories	54 -51 27 / 3 -57 24 / 24 27 57 / 6 60 30	Monte Carlo simulation corr. at $p<0.05$, k≥25
Schulte-Rüther*, 2007	26	[24.8±3.4]	**Emotional state evaluation (images)**	Self>Other	-56 -60 20/ -56 -48 30 / 62 -54 20 / -54 24 10 / 2 58 20 / -8 62 30 / -18 46 40 / -10 36 56 / -6 56 -18 / 2 40 -8 / 0 28 18 / -10 20 64 / 2 20 64 / -4 30 60 / -38 22 50 / -6 -48 32 / -6 -62 38 / 8 -52 30 / 30 -86 -34	FWE corr. at $p<0.05$ or SVC at $p<0.05$
Sommer*, 2007	16	[26.0/23–37]	**False belief**	Conjunction false/true belief	-22 8 66 / -42 32 28 / -52 14 0 / -52 -50 48 / 56 -50 42 / -6 -72 56 / -2 -90 14	FDR corr. at $p<0.05$
Takahashi*, 2007	16	[21.4±1.8]	**Joy/pride in others**	Pride>Neutral	42 -66 20 / -50 20 -24	$p<0.0005$ uc or whole-brain corr. at $p<0.05$
				Joy>Neutral	4 4 -6 / -6 38 12 / -32 -16 -18 / 40 -28 18	
Todorov*, 2007	9	[21/18–32]	**Matching faces with behavior**	Faces associated with behaviors>Novel faces	-4.05 58.46 31.16 / -13.78 37.59 26.67 / -27.28. 28.08 -16.98 / -54.12 -18.92 -13 / -39.55 -52.12 21.42 / -50.8 -43.47 -11.75 / -57.51 -7.96 -21.87 / -32.45 -31.5 -11 / -37.71 -47.92 -2.56	$p<0.005$ uc, minimum volume 100 mm3, voxel with maximum activation per cluster reported
Wakusawa*, 2007	31	[22.3/18–38]	**Irony/metaphor**	Situational> Literal	-9.67 65.6 15.98	Cluster size corr.
Young*, 2007	10	[NA/18–22]	**False belief**	False belief>Photo	56 -52 30 / 4 -62 38 / -42 -62 26 / 2 52 28 /	$p<0.001$ uc, k≥10

				Exp.1	2 58 12 / 0 46 -2	
	17	[NA/18–22]		False belief>Photo Exp.2	56 -54 28 / 0 -54 32 / -52 -58 26 / 2 60 28 / -4 56 8 / 0 54 -8	
Abraham*, 2008	17	[25.7/22–30]	**ToM reading**	Intentional relations>Nonintentional relations	-10.58 54.83 27.15 / 2.15 59.7 9.64 / -43.72 0 -40.82 / -43.67 9.13 -35 / -56.51 -1.99 -26.96 / 56.97 21.68 -21.15 / 43.9 4.44 -32.67 / 63.94 -27.17 7.1 / -59.4 -15.77 -2.01 / 38.34 -80.57 22.9 / 28.62 -90.48 20.69 / 47.84 -75.71 5.45 / 28.21 -73.83 -7.85 / 24.91 -57.89 -9.37 / 37.83 -58.16 -12.92 / -39.78 -70.26 -.32 / 60.86 -12.86 22.54 / -55.93 -7.51 17.28 / -46.09 -3.35 26.79 / -.31 -9.96 56.92 / 2.79 -50.42 37.33/ -14.21 45.32 -5.47	$p<0.001$ uc, k≥9
Brüne*, 2008	13	[26.5±5.3/22–38]	**ToM cartoon**	ToM cartoon stories>non ToM cartoon stories	-2 6 20 / J5538 -22 24 / -58 -40 16 / -56 -68 18 / -50 -32 0 / 62 -6 -16 / 60 -64 6 / 46 -70 10 / -6 -54 36 / 34 10 34 / 40 20 -20 / -10 18 16 / 24 -26 26 / 4 -28 0	$p<0.002$ uc, k≥10
Hooker*, 2008	20	[21/19–26]	**False belief**	False belief>True belief	-44 18 22 / -38 32 22 / -4 40 16 / -10 8 56 / -50 -68 14 / -60 -46 -2 / -48 24 -20 / -22 -68 -4 / -12 -10 0 / -22 -28 -2 / -20 6 -10 / 62 -42 -4 / 14 -2 10 / 10 -30 2 / 22 -64 6 / 46 24 22 / 46 -16 42	$p<0.001$ uc, k≥5 or $p<0.005$ uc
Kédia*, 2008	29	[21±1.98]	**Pain/harm**	Other-agent>Self-agent (of a harmful action)	-3.21 57.76 12.16 / 1.77 -54.36 41.1 / -50.17 -60.59 34.76	$p<0.001$ uc
Kliemann*, 2008	26	[19–33]	**False belief**	False belief>False photgraph	58 -56 32 / -50 -60 32 / 6 -56 30 / 2 52 -4 / 2 52 22 / 4 56 36	$p<0.0001$ uc
Kobayashi*, 2008	16	[29.67±4.6/18–38]	**False belief**	Conjunction first/second language	57.68 -43.06 21.1	$p<0.025$ uc

Krach*, 2008	20	[24.5±2.97/NA]	**Prisoner's dilemma**	ToM>Baseline Human partner>Control	40.77 -55.63 48.41 / 59.05 -49.6 43.02 / 58.95 -38.31 37.42 / 42.17 56.86 11.48 / 37.68 63.25 -.28 / 26.99 66.27 9.69 / 3.45 44.89 23.41 / 5.8 38.7 37.43 / 10.03 64.24 34.83 / -38.24 48.79 -24.45 / 8.52 -68.74 59.22 / 12.7 -66.46 48.84 / -35.89 63.33 -6.88 / -35.83 53.96 -3.71 / 6.03 39.3 55.3 / -35.93 22.52 -18.53 / 58.04 20.52 -22.17 / 23.36 30.96 56.95 / 31.96 26.32 52.78 / -48.58 47.82 11.68	FWE corr. at $p<0.05$, k≥10
Malhi*, 2008	20	[35.8±10.4/22–56]	**Frith-Happé**	ToM>Random motion	57.25 52.24 7.2 / -57.26 50.77 9.29 / 52.96 28.41 5.15 / -54.92 -18.97 9.43 / 39.96 23.7 1.35 / -34.54 19.39 5.29 / 66.57 -49.88 39.56 / -60.83 -47.58 48.22 / 53.63 -63.96 38.93 / -47.92 -64.32 40.69 / 63.63 -9.79 -13.67 / -57.37 -10.21 -11.56 / 33.44 -29.14 -12.36 / 14.27 -16.19 12.46 / -7.36 -13.18 11.41 / 18.43 4.48 3.62	Bonferroni corr. at $p<0.05$, k≥20
Mason*, 2008	18	[27.4/NA]	**ToM reading**	Intentional inference>Fixation	-10 56 36 / 56 -66 24 / -48 -60 18 / -56 18 16 / -16 24 48 / 18 -96 -6 / -10 -98 -10 / -42 -52 -18 / -28 -32 -4 / 28 -28 -2 / -18 -50 4 / 0 -58 36	$p<0.005$ uc, k≥6
				Emotional inference>Fixation	-50 -36 -6 7 -54 -2 46 / -18 28 44 / -8 10 58 / 14 -96 -8 / -18 -98 -6 / -42 -78 -14 / -24 -80 -12 / -30 -58 50 / -26 -30 -8 / 28 -26 -4 / -14 -14 10 / 10 -58 -2 / 20 -24 18 / -22 0 4	
Rilling*, 2008	20	[20.8±1.6/NA]	**Prisoner's dilemma**	Prisoner's dilemma>Gamble	3.59 -17.52 21.74 / 1.51 34.54 39.04 / 27.09 61.58 16.87 / -31.49 61.73 -1.19 / -	$p<0.005$ uc, k≥5

					30.54 3.22 61.73 / 48.08 16.93 43.35 / -69.14 -25.79 -5.34 / 51.43 -53.33 37.91 / -47.89 -61.88 43.81 / -.28 -57.9 49.33 / 5.64 -79.57 0.95 / -32.62 19.76 -13.83 / 33.29 21.16 -13.97	
Samson*, 2008	17	[26.1±3.3/NA]	**Humor**	ToM jokes>Visual resemblance jokes	5.84 43.37 41.45 / 34.77 28.53 18.89 / -36.35 36.22 36.15 / -16.71 18.08 47.7 / 9.4 -49.46 47.21 / -39.18 -82.16 44.55 / 35.3 -75.83 39.29 / 37.88 -61.03 -9.28 / 18.53 -63.67 -1.96 / 40.62 14 -33.56 / -53.13 -14.12 -19.09	$p<0.001$ uc, $k\geq10$
Sommer*, 2008	18		**Emotion attribution**	Emotion>Color	-26 -98 0 / 32 -96 -6 / -46 -50 -14 / 46 -52 -16 / 40 -66 -14 / 54 32 22 / -24 -4 -16	FWE corr. at $p<0.05$
Vanderwal*, 2008	17	[21.5±1.8/NA]	**Frith-Happé**	Social shapes>Geometric shapes	49.97 -43.07 10.03 / 62.5 -6.91 -17.29 / -50.38 -52.37 19.38 / 59.2 -4.04 -20.88 / 56.28 -31.21 -1.34 / -40.68 -68.91 14.13 / -53.75 -53.32 9.45 / 36.62 -39.43 -19.24 / 49.66 26.82 -.24 / 13.09 60.78 20.55 / -47.74 35.11 -9.49 / -34.57 -38.85 -9.12 / 8.19 -56.99 35.65 / 26.74 -1.28 -23.96 / -11.58 48.86 32.24	FDR corr. at $p<0.05$
Young*, 2008	14	[NA/18–22]	**False belief**	False belief task>Photo	56 -54 28 / -2 -60 40 / -52 -58 26 / 2 60 28 / -4 56 8 / 0 54 -8	$p<0.001$ uc
Aichhorn*, 2009	21	[NA/21–41]	**False belief**	False belief>Photos (TP1: story)	57 -54 15 / 51 -18 -15 / -57 -54 24 / -54 -30 -6 / -51 -3 -27 / -45 30 -150 / -9 30 60	$p<0.001$ uc
				False belief>Photos (TP2: question)	54 -51 18 / 57 -15 -15 / -51 -57 21 / -57 -33 -3 / -51 6 -15 / -45 36 -12 / 6 -63 45 / -15 36 54	
Assaf*, 2009	19	[32.3±10.4/21–56]	**Computer/huma**	Show>No-show	-43.83 -73.72 20.26 / 50.21 -76.27 22.28 / -	FDR corr. at $p<0.005$

			n interaction		44.5 -7.6 -18.76 / 52.65 -.23 -25.63 / 33.57 -55.52 -7.51 / 53.15 24.34 18.99 / 7.75 55.75 24.5 / -5.39 -26.63 -6.34 / 7.61 -26.28 -3.24 / 1.53 -90.03 15.5 / 71.69 -12.61 24.58	
Bahnemann*, 2009	25	[26±4.43/NA]	**Cartoon ToM**	ToM>Appearance judgement	-46 28 -10 / 54 32 0 / -4 56 28 / -6 12 60 / -52 4 -26 / 54 0 -24 / -58 -44 4 / -56 -58 22 / 52 -36 2	Monte Carlo simulation corr. at $p<0.05$, k≥28
Jenkins*, 2009	15	[19.8/18–22]	**False belief**	Mentalizing> Nonsocial	0 54 32 / -8 50 -2 / 56 -10 -20 / -68 -34 -4 / 54 -56 22 / -48 -62 36 / -8 -60 18 / 12 -102 8 / -24 -100 6	Monte Carlo simulation corr., k≥25
Kircher*, 2009	12	[28±5.5/NA]	**Prisoner's dilemma**	Human>Computer	5.67 60.73 31.89 / 5.24 38.91 -6.28 / 5.3 61.22 2.71 / 14.13 -27.11 -1.02 / 5.47 -22.89 -1.29 / -7.61 -20.47 -9.15 / 5.15 3.21 -20.68 / -24.85 -93.55 -20.68 / -37.85 -85.09 -21.3	$p<0.001$ uc, k≥10
Krach*, 2009	12	[28.0±5.5/19–40]	**Prisoner's dilemma**	Male: Human>Computer	5.67 60.73 31.89 / 5.24 38.91 -6.28 / 5.3 61.22 2.71 / 14.13 -27.11 -1.02 / 5.47 -22.89 -1.29 / -7.61 -20.47 -9.15 / 5.15 3.21 -20.68 / -29.18 -80.49 -18.54 / -24.85 -93.55 -20.68 / -37.85 -85.09 -21.3 / -7.82 -57.1 -33.54 / 64.62 -17 -21.93 / 48.63 -75.65 -16.98 / 5.93 38.57 47.52 / 1.2 37.67 15.2	Monte Carlo simulation corr., k≥6
	12	[26.1±6.0/19–40]		Female: Human>Computer	14.08 66.64 14.35 / 18.57 64.61 26.8 / -3.21 57.76 12.16 / 65.29 -52.51 23.03 / 56.73 -60.63 28.46 / -33.63 -85.8 -29.14 / -6.93 -42.8 38.99 / 1.74 -46.92 40.37 / -6.83 -40.9 47.76	
Mano*,	18	[25.2±2.5/21–	**ToM**	Emotion	-38 8 58 / -44 10 36 /	FDR cluster-level

2009		30]	**reading**	comprehension (Spatially decoupled/coupled>Unconnected)	-42 24 20 / -50 20 42 / -54 28 2 / -50 20 24 / -40 24 -14 / -46 40 0 / -44 48 -12 / -4 20 54 / -6 54 40 / -36 28 -22 / -52 -12 -22 / -66 -34 -8 / -56 -58 16 / -30 -78 40 / -28 12 -30 / -6 52 -20 / 10 36 -24 / -22 -22 -14 / 22 -22 -14 / -2 -58 8 / -4 -62 38 / 0 -60 32 / 0 -52 36 / 10 -58 36 / -28 -94 -10 / 28 -94 -6 / -4 -14 6 / 12 6 2 / -18 -38 -48 / 12 -84 -36 / 48 12 52 / 54 26 28 / 50 28 22 / 54 14 -26 / 54 -4 -22 / 44 40 -16 / 68 -30 -14 / 56 -64 26 / 46 -72 28 / 56 -62 28 / 52 -64 44 / 44 -76 40	corr. at $p<0.05$
Otsuka*, 2009	24	[24/19–31]	**ToM reading**	ToM>Control	-53.12 30.84 -8.97 / -52.88 -32.97 -2.66 / -59.57 -8.3 -13.96 / 63.61 -12.12 -15.68 / -48.1 -62.37 27.06 / 59.83 -56.23 17.89	$p<0.001$ uc
Sripada*, 2009	26	[28±8.2/NA]	**Computer/human interaction**	Human>Computer	0 -80 0 / -46 -80 -6 / 46 -80 -4 / 50 26 28 / 48 -70 8 / -14 10 -8 / -64 -2 20 / -24 -86 12 / 8 52 24	$p<0.005$ uc, minimum volume 120 mm3
Walter*, 2009	12	[24.8±2.6/20–28]	**ToM cartoon**	Private Intention>Physical Causation	1.9 -54.49 51.2 / 5 -62.11 38.45 / 53.26 -71.12 8.27 / 53.3 -57.74 13.67 / 52.98 58.06 12.3	$p<0.001$ uc or FWE corr. at $p<0.05$ or FDR corr. at $p<0.05$
				Prospective social Intention>Physical Causation	1.71 -62.43 35.18 / 1.86 -54.8 47.87 / 11.05 -52.13 7.11 / -50.43 -77.87 10.7 / 50.04 -54.56 13.41 / -43.81 -57.14 25.35 / 55.92 -9.79 -24.74 / -57.57 -7.31 -26.41 / 27.28 43.27 27.65 / 7.37 62.73 -4.19 / -5.47 63.62 6.02 / 3.92 51.27 -23.17 / -2.59 24.79 -30.53 / 49.59 -48.1 -20.84	
				Communicative	1.9 -54.49 51.2 / 53.29 -77.5 8.9 / -	

				Intention>Physical Causation	53.67 -77.88 10.76 / 53.28 -54.55 13.35 / -60.29 -46.1 6.61 / 53.42 -56.8 23.66 / -47.05 -57.16 25.4 / 53 -36.96 -5.19 / -60.27 -46 7.72 / 59.1 -3.71 -28.76 / -57.62 -4.43 -30.06 / 62.47 30.08 -11.99 / -51.11 31.94 -20.32 / 30.52 43.28 27.59 / -24.53 40.2 32.19 / 14.34 59.8 32.96 / -14.83 59.69 33.46 / 4.42 64.9 19.17 / 0.56 47.14 -32.79 / 46.37 -54.49 -20.15	
Young*, 2009	14	[NA/18–22]	**False belief**	False belief>Photos (group 1)	54 -52 16 / -4 62 32 / -52 -70 26 / 0 46 44 / 2 62 16 / 4 50 -4	p<0.001 uc
	14	[NA/18–22]		False belief>Photos (group 2)	50 -70 18 / 6 -62 24 / -58 -66 22 / 0 54 30 / 0 60 18 / 4 52 -8	
Abraham*, 2010	22	[26.1/21–35]	**False belief**	False belief/desire> Control	-3.89 12.62 34.57 / 8.63 38.89 4.87 / -23.64 46.41 18.12 / 24.98 46.58 17.27 / 9.32 -28.19 45.11 / 64.15 -36.56 21.47 / 61.08 -25.44 37.23 / 47.5 32.34 1.49 / 47.63 0.43 4.65 / -49.59 -3.1 6.65 / -36.57 3.95 12.45 / -52.52 -30.27 26.2 / -17.41 11.72 -8.81 / 15.02 18.52 -6.67	Cluster-level corr. at p<0.05
Adams*, 2010	28	[NA/18–27]	**Reading the Mind in the Eyes**	RMET>Gender discrimination	10 -78 -30 / -8 -76 -6 / 18 -74 -30 / -56 -52 6 / -48 -48 16 / 52 -48 14 / -44 -48 -14 / 46 -42 6 / -50 -42 8 / -44 -28 -18 / -42 0 54 / -42 4 46 / -54 10 -22 / -4 16 56 / 44 16 -30 / -12 18 48 / -58 26 12 / 58 30 6 / -54 32 -4 / -46 36 -10 / -10 58 38	FWE corr. at p<0.05, k≥6
Castelli*, 2010	12	[25.2±3.5/21–30]	**Reading the Mind in the Eyes**	RMET>Baseline (young adults)	48 2 54 / -42 -4 54 / 52 24 26 / -4 32 56 / -26 -50 45 / -34 -50 43 /-42 22 -20 / 40 10 -38 / 50 -36 -6 / 30 -88 28 / 12 -80 -6 / -4 -84	FDR corr. at p<0.01, k≥10

					-12 / -4 26 24 / -14 4 0 /-26 -6 -22 / 6 -20 -2 / 2 -38 -8 / -18 -46 -26	
	12	[65.2±5.7/60–78]		RMET>Baseline (older adults)	38 -8 50 / -40 -4 54 / 8 10 50 / 58 24 6 / -16 50 30 / -50 34 0 / -24 -58 52 / -32 -50 43 / -62 -32 14 / 58 4 -14 / -50 -46 -20 / 32 -74 22 / -26 -98 -4 / 10 -6 4 / 26 -24 20 / -24 -20 16 / -10 -10 12 / 20 -72 -34 / -2 -52 -42	
Focquaert*, 2010	12	[27/18–38]	**Reading the Mind in the Eyes**	Mindreading>Gender (empathizing group)	-59 -52 6 / -55 18 16 / -53 26 6 / -51 29 -3 / -4 35 33 / 0 17 60 / -8 60 25 / -8 18 40	Cluster-level corr. at $p<0.05$
	12			Mindreading>Gender (systemizing group)	-61 -46 8 / -53 -39 -1 / -57 -52 10 / -53 18 19 / -46 27 -10	
Hooker*, 2010	15	[21/18–25]	**ToM cartoon**	Social change>No change	-42 34 -12 / 42 22 -12 / 16 -28 62 / 2 58 30 / -46 -58 22 / 46 -66 32 / 64 -32 -12 / 58 -32 2 / 66 -12 -18 / -64 -38 -6 / -50 20 -28 / 34 -22 -6 / -34 -24 -8 / 2 -38 78 / -16 -48 -2 / -14 -8 16 / 10 -2 10 / -18 6 14 / -24 -78 -46 / 26 -74 -36	$p<0.001$ uc, k≥10 or FWE corr. at $p<0.05$ or SCV corr. (FWE or FDR at $p<0.05$)
Jimura*, 2010	34	[NA/20–28]	**False belief**	False belief>Control	-2 54 26 / -54 -60 22 / 0 -66 40 / 34 14 -16	FDR corr. at $p<0.05$, k≥19
Kim*, 2010	24	[NA/18–35]	**Matching faces with situation**	Attitude attribution>Control	-52 26 2 / -52 26 8 / -54 18 4 / -50 30 2 / -60 -42 4 / -52 -48 48	$p<0.005$ uc, k≥10
Lombardo*, 2010	33	[28.0±6.1/18–42]	**ToM reading**	Self-mentalizing>Self-physical	-6 54 -8 / -4 -56 12 / 6 -54 10 / 16 -50 -2 / 54 -58 14 / -44 -66 18 / -56 -10 -18 / -54 4 -28 / -54 -6 -26 / -34 -34 54 / -32 -22 58 / 26 -38 -24	FDR corr. at $p<0.05$
				Other-mentalizing>Other physical	-4 50 -8 / -16 -52 -2 / -6 -58 16 / 16 -52 -4 / 52 -60 14 / -46 -64 18 / -56 -4 -26 / -54 4 -28 / -58 -12 -18 / -32 -32 58 / 28 -40 -20	
Marsh*, 2010	24	[26.4±5.9/NA]	**Action identification**	Unlikable>Likable	-48.58 33.58 8.61 / 16.46 35.47 25.24 / -6.13 18.58 29.54 / -	Monte Carlo simulation corr. at $p<0.05$

			(reading)		35.72 19.72 -2.57 / 45.26 3.22 -11.28 / 48.95 -18.53 19.95 / -5.95 8.98 41.69 / 36.38 2.93 55.02 / -56.05 -12.8 6.6 / 76.03 -58.41 16.71 / -24.96 -16.24 71.4 / 52.36 -27.15 30.83 / 52.72 -39.76 56.72 / 62.69 -62.32 -12.93 / 48.8 -78.77 -4.35 / 45.51 -92.27 -10.8	
Mier*, 2010	16	[37.0±8.2/NA]	**ToM reading/ faces**	Affective ToM>Neutral	33 -99 -6 / -48 6 54 / 33 63 6 / 0 -3 66 / -48 9 -39 / 57 21 24 / -48 21 -9 / 48 24 -3 / -27 -66 60 / 36 -3 48 / 27 15 -24 / 30 -9 75 / 27 -33 -15 / 54 33 12	FDR corr.
Mier*, 2010	40	[25.3±3.5/19–32]	**ToM reading/ faces**	Affective ToM/Emotion recognition conjunction	-42 -24 60 / -39 -12 66 / -39 18 -9 / 36 -51 -30 / 21 -57 -21 / 6 -84 -12 / 33 24 -12 / 45 12 33 / 54 21 -3 / 21 -6 -18 / 0 15 60 / 6 21 42 / -3 -6 57 / -12 0 0 / -9 -21 -18 / -18 -33 -6 / 15 0 3 / 12 -15 12 / -54 -54 3 / -51 42 -3 / 51 -39 0 / 36 -57 45	FWE corr.
Modinos*, 2010	36	[20.4±2.4/18–27]	**ToM cartoon**	Cognitive + affective>Physical	54 28 26 / -36 10 26 / -48 6 30 / 30 -64 -30 / -8 -78 -32 / -56 -60 14 / -28 -58 38 / -4 26 46	Cluster-level corr. at $p<0.05$
Murphy*, 2010	10	[29.6±8.4/18–42]	**Evaluation of others' attributes**	Other evaluation>Self evaluation	52 -16 -22 / -60 -16 -20	$p<0.005$ uc, $k\geq50$
Pincus*, 2010	9	[36.4±11.4/25–59]	**Reading the Mind in the Eyes**	RMET>Gender	-9.09 34.89 54.87 / -9.73 14.81 0.84 / -5.11 63.02 34.09 / -11.74 57.5 21.3 / -9.7 65.39 13.76 / 61.65 -41.29 -6.03 / -48.9 27.9 -17.72 / -57.28 25.48 2.83 / -54.92 -49.58 3.5 / -44.88 8.19 -44.97	Cluster-level corr. at $p<0.05$
Rabin*, 2010	18	[57.2±8.0/37–69]	**Images of**	ToM>AM (autobiographi	48.02 27.46 41.18 / -52 37.74 -4.07 / -	Corr. at $p<0.005$, minimum volume

			others'/own events	cal memory)	52.31 -4.69 47.2 / -38.31 -49.81 34.61	120 mm3
Rapp*, 2010	15	[28.1±8.0/21–53]	**Irony**	Irony>Literal sentences	-15 30 39 / -57 -36 36 / -3 -81 24 / -42 -9 30 / 45 -6 45 / 6 -12 39	p<0.0005 uc, k≥10
Ross*, 2010	15	[27.5±5.1/NA]	**Frith-Happé**	Animated shapes>Bumper cars (control)	59.2 2.54 -19.29 / 59.68 -50.79 7.27 / 59.49 27.68 8.47 / 1.92 55.81 -9.02 / 39.91 -45.59 -16.44 / -53.14 -4.34 -17.82 / -55.85 -46.32 15.52 / -54 26.87 6 / -.24 55.8 -8.98 / -42.19 -46.95 -14.91	FDR corr. at p<0.05
	12	[27.5±5.1/NA]		ToM>Non-ToM	-41.37 21.13 -21.66 / 52.42 6.83 -42.01	
Shibata*, 2010	13	[23.8/20–29]	**Irony**	Ironic sentences>Literal sentences	2 70 8 / -20 -74 28 / 48 -8 36 / -52 -30 -2	p<0.0001 uc, k≥30
Sommer*, 2010	12	[32.7±10.2/NA]	**False belief**	False belief>True belief	4 34 40 / 36 56 14 / 40 30 -2 / 36 -54 40 / -22 -6 16	Cluster-level corr. at p<0.05 or SVC at p<0.01
Sommer*, 2010	14	[29.2±5.8/NA]	**ToM cartoon**	Emotion attribution in the context of intentions>Reality condition	-56.42 -49.07 55.02 / 50.53 -46.56 52.95 / -3.73 18.23 48.58	Gaussian random fields theory corr. at p<0.05
Wolf*, 2010	18	[31.9±8.3/20–45]	**ToM cartoon/ movie**	ToM movie>Physical inference movie	-10 -98 0 / 12 -88 4 / 24 -96 18 / -48 4 46 / 0 -68 30	Corr. at p<0.05, k≥28
				ToM silent answer>Physical inference silent answer	-2 -64 30 / -44 -54 22 / -6 56 34 / -8 34 56 / -16 58 24	
				ToM multiple choice>Physical inference multiple choice	-56 -44 4 / -48 4 48 / -4 8 64 / -12 -98 0 / 20 -98 6 / -8 -50 38 / 52 -18 -14 / 54 12 -24 / 48 18 28 / 54 26 8	
Yoshida*, 2010	12	[24.8±3.0/NA]	**Predict peer strategy during game**	Sophistication level (main effect)	9.65 10 -5.74 / -9.8 9.93 -5.4 / -52.65 34.37 28.77 / -19.95 12.54 46.06 / 34.23 17.27 59.24 / -15.12 -50.35 73.49 / 44.6 45.76 30.47	p<0.001 uc, k≥100
Young*, 2010	17	[NA/18–31]	**False belief**	False belief>False photos	58 -52 28 / -56 -52 26 / -2 -54 38 / 0 56 32 / 4 64 16 / 2 44 -20	p<0.001 uc, k≥10
Zaitchik*,	15	[22.4/20–24]	**False**	False	26 -76 2 / -6 32 4 / -	p<0.005 uc, k≥10

2010			**belief**	belief>Control	10 -56 22 / -52 -74 26 / -20 0 30 / 48 -58 18 / -8 56 -4 / 54 -34 24	
Centelles*, 2011	14	[29.4±7.4/NA]	**ToM motion movie**	Social Interaction>Non-social interaction	-3 54 27 / 24 15 -18 / -39 24 -15 / -51 30 12 / -45 3 18 / 54 27 9 / 3 12 54 / -9 21 57 / -30 0 57 / -45 -3 54 / 45 12 42 / 24 -60 63 / 24 -51 57 / -42 -48 54 / 42 -72 18 / -51 -51 21 / -48 -63 12 / 51 -3 -21 / 57 -36 -18 / 45 -42 -21 / 54 -54 0 / 9 18 0 / -9 9 6 / -3 -9 0	FDR corr. at $p<0.05$, k≥10
Dodell-Feder*, 2011	62	[22±4/18–35]	**False belief**	False belief>False photo (subject-wise)	-2 -54 38 / 52 -52 22 / 58 -20 -14 / -50 -58 20 / -60 -24 -8 / 50 6 -34 / 2 60 18 / 10 34 62 / 0 56 26 / -52 4 -28 / -20 60 30 / 46 8 48 / 2 -92 0 / 2 -22 42 / 52 30 -6 / 2 48 -18	FDR corr. at $p<0.01$, k≥10
Koelkebeck*, 2011	15	[30.9±8.1/NA]	**Frith-Happé**	ToM>Random movement	14.21 59.92 22.86 / -61.74 -12.77 -15.72 / -7.39 57.72 23.45 / 68.55 -53.45 24.19 / -22.88 -32.61 -23.38 / 14.24 -29.57 7.06 / 22.9 -27.21 8.92	$p<0.001$ uc
Lee*, 2011	13	[42.5±7.7/NA]	**False belief**	False belief>False photos	44 -66 38 / -50 -70 40 / -48 -70 44 / 4 -64 38 / 22 28 36 / -44 -68 26 / 62 -8 -14 / 18 -42 32 / 12 -52 34 / 14 38 40 / 54 -62 28 / 42 -52 22 / -38 -54 26 / 46 12 -30 / 56 -54 24 / -60 -58 26	Gaussian random fields theory corr. at $p<0.05$
Liew*, 2011	18	[23±2.3/18–30]	**Interpretation of others' gestures**	All gestures>Still photo	-52 -32 34 / -48 10 38 / -48 -70 0 / 50 -58 -18 / 32 -56 60 / -26 -56 64 / -46 2 50 / 6 -38 12 / -48 10 38 / 68 -34 14	FDR corr. at $p<0.05$, k≥8
Ma*, 2011a	15	[NA/18–50]	**ToM reading**	Intentional: Diagnostic>Irrelevant	12 -88 6 / -12 -96 2 / -38 -26 68 / -4 -18 -16 / 52 -18 -32 / -48 16 -18 / 54 34 0 / -20 26 62	FDR corr. at $p<0.05$
Ma*, 2011b	30	[NA/18–43]	**ToM reading**	Conjunction intentional/spontaneous:	4 42 32 / 10 26 56 / 42 24 2	$p<0.005$ uc or FWE corr. at $p<0.05$

				Inconsistent> Consistent		
Mason*, 2011	10	[NA]	**ToM reading**	Intentional>Physical (sentence 2)	58 -62 28 / 32 10 40 / 24 18 52 / 26 40 50 / -56 -50 14 / -42 -36 0 / -32 6 46 / -36 22 36 / 38 -32 -14 / 14 -70 -6 / -16 -76 -6 / 14 -90 30 / -36 -82 -6 / 22 -70 18 / -16 -50 52 / 14 -62 -34 / 14 -52 -8	p<0.001 uc, k≥10
				Intentional>Physical (sentence 3)	44 -52 32 / 56 -66 32 / 58 -56 16 / 54 26 24 / 38 26 -8 / 48 16 46 / 22 16 56 / 42 8 56 / -58 -60 28 / -30 16 34 / -22 54 0 / -8 6 14 / 16 0 -6	
McAdams*, 2011	17	[24.7±6.6/18–39]	**Frith-Happé**	People>Bumper	60 -8 -16 / 48 -26 -8 / 52 -56 20 / 54 28 8 / 58 20 10 / 46 34 -10 / -52 22 -4 / -54 24 12 / -54 32 10 / -60 -44 12 / -36 -32 -20 / -38 -80 22 / -54 0 -20 / -50 -2 -30 / -58 -6 -10 / -10 -80 -46 / -14 -70 -32 / 44 -34 -20 / 28 -56 -6 / 46 -46 -22 / 8 -46 36 / 6 -54 34 / -12 -48 36 / 4 56 14 / 6 62 26 / 8 50 28 / -6 2 4 / -8 14 6 / -10 4 12 / 44 6 42 / 24 6 44 / 36 8 40 / -6 46 40 / 4 44 46 / 18 32 46	p<0.001 uc, k≥20
Otsuka*, 2011	22	[22.3/19–29]	**ToM reading**	First person persepective (main effect)	48.93 28.35 27.63 / 61.7 26.94 11.87 / -7.18 33.03 34.85 / 10.37 21.99 53.57 / -45.99 18.21 39.22 / -54.96 22.27 14.32 / -63.76 -33.64 -9.14 / -34.9 -64.92 45.01 / -56.8 -54.1 24.15/ -32.72 -53.86 48.36 / -24.72 -95.81 -10.37 / 29.44 -101.17 -1.8 / -11.8 -8.6 3.19 / -22.78 -1.17 -8.56 / -11.81 8.83 5.95	Cluster-level corr. at p<0.05
				Third person perspective (main effect)	59.69 25.84 23.22 / 59.22 26.77 -12.73 / -7.17 28.77 35.27 / -9.22 16.42 41.01 / 5.92 34.11 45.73 / -	

					43.82 16.09 39.39 / -31.57 23.91 -15.38 / -57.72 6.85 -35.66 / -67.91 -49.84 1.5 / -58.99 -54.32 21.96 / 29.4 -99.25 -4.23 / -9.67 -8.8 0.93	
Polosan*, 2011	14	[35.9±7.2/NA]	**Computer/human interaction**	Human(incongruent+congruent)>Computer(incongruent+congruent)	-5.6 56.09 -5.56 / -5.26 58.58 21.08 / 56.06 37.17 -4.74 / -5.54 56.51 -1.12 / -47.36 12.73 15.13 / 69.46 -25.15 16.89 / 36.46 -16.55 -27.1 / 33.7 -88.49 -4.25 / -31.23 -73.08 -8.03 / -28.06 -44.04 -7.59	$p<0.001$ uc, k≥5
Rothmayr*, 2011	12	[23.7/23–24]	**False belief**	False belief>True belief	-42 22 42 / 32 4 52 / 52 -50 38 / 6 66 22 / 66 -36 -2 / -52 -50 32 / -40 52 -4 / -64 -38 -10 / -18 4 14 / -2 -62 44 / 10 34 46 / 52 28 30 / 30 58 10	Whole-brain corr. at $p<0.05$, k≥20
Schnell*, 2011	21	[25.49±5.01/NA]	**ToM cartoon**	Affective judgements>Visuospatial judgements	-6 51 33 / 9 51 27 / 57 30 3 / 51 30 -3 / 0 45 -15 / -9 15 69 / -9 21 63 / 3 9 66 / -57 18 15 / -45 27 -6 / -39 24 -15-45 9 -36 / -60 -21 -18 / -54 -24 -3 / 48 9 -42 / 45 15 -36 / 45 -30 -3 / 45 -42 6 / 30 -84 -39 / -30 -81 -36	FDR corr. at $p<0.05$, k≥20
Shibata*, 2011	15	[25.2/NA]	**Indirect speech**	Indirect reply>Literal sentence	2 44 44 / 0 40 36 / 4 54 26 / -40 12 36 / -50 34 -12 / 42 20 -8 / 54 18 26 / -2 -72 22 / -2 -62 16/ 50 8 -30	$p<0.001$ uc, k≥10
Spunt*, 2011	15	[19.47±1.88/NA]	**Action identification (images)**	Why>How	0 62 34 / -6 38 -20 / -6 52 -4 / -2 -54 22 / -38 7 -23 / 36 14 -19 / -56 -38 0 / 50 -12 18 / -6 14 -7 / -40 -78 34	$p<0.001$ uc, k≥30
Van der Meer*, 2011	19	[21.6±2.6/NA]	**False belief**	High/Low inhibition>Fixation	-26 24 4 / -35 22 12 / -52 18 18 / -30 -2 54 / -42 2 44 / -8 18 36 / -44 -52 42 / -56 -42 -2 / 14 -68 46 / -8 -82 -10 / 24 -78 -10 / -56 -54 18 / 8 -68 -22 / 34 -58 42 / 38 -8 54 / 32 -54 -30 / -8 -20 -2 / -	FWE corr. at $p<0.05$, k≥20

					30 -58 42 / 36 -58 46 / -54 -48 -2 / -6 -4 54 / 10 -16 -4 / -32 20 2 / -52 4 14 / -34 -12 62 / 44 -24 44 / 44 -16 58 / -28 -52 -34 / 32 -52 -30 / -6 -70 -26 / 8 -66 -26	
Walter*, 2011	109	[32.3±5.0/NA]	**ToM cartoon**	ToM>Control	-6 54 39 / -9 27 57 / -6 12 69 / -42 9 51 / 51 30 -6 / 57 27 9 / 63 -51 18 / 48 -27 9 / 60 -54 27 / -3 -51 33 / -54 -57 30 / -51 21 9 / -51 -33 -6 / 12 -96 15 / -6 -96 27 / -15 9 12 / 27 -81 -33 / 45 -60 -36 / -24 -78 -36	FDR corr. at $p<0.05$
Young*, 2011	17	[NA/18–22]	**False belief**	False belief>Physical	56 -54 24 / -2 -56 46 / -50 -54 26 / -2 58 32 / -6 50 24 / -2 54 -14	$p<0.001$ uc
Becchio*, 2012	16	[23.3/19–36]	**Reach-to-grasp action movies**	Social>Individual intention	21 63 -32 / 40 -60 -46 / 40 -60 -53 / 46 42 18 / 9 -42 11 / 8 0 28	$p<0.001$ uc, k≥10
Canessa*, 2012	27	[25.6±4.6/NA]	**ToM images**	Affective social interaction (main effect) Cooperative social interaction (main effect)	-8 48 -6 / 4 46 -2 / -8 46 -2 / 10 40 2 / 0 46 16 / 2 50 16 -50 16 32 / -52 10 40 / -42 22 46 / 40 2 58 / 30 2 64 / 46 4 42 / 42 40 -14 / 52 36 18 / 50 38 20 / 54 34 14 / 56 20 28 / 40 48 -12 / 36 24 -24 / 50 -48 -26 / 34 -56 -18 / -54-56 -20 / 10 -74 54 / 40 -72 14 / 50-72 10 / -8 -76 52 / -22 -66 56 / 24 -70 54 / 12 -84 40 / 30 -76 44 / 38 -62 -8 / -42 -54 -24 / -38-62 -8 / -42 -64 -4	FWE corr. at $p<0.05$
Chaminade*, 2012	18	[21.5±4.9/NA]	**Computer/human interaction**	Intentional agent>Random agent	-24 10 62 / -8 -64 52 / -46 -44 50 / -34 4 44 / -46 16 42 / -30 -70 38 / 4 42 34 / 56 -54 28 / 6 -2 6	FWE corr. at $p<0.05$, k≥25
Cheung*, 2012	20	[23.5±1.1/22–26]	**False belief**	False belief>Filler (picture)	-4 8 64 / 36 42 34 / 56 -54 44 / -46 -52 42 / -18 -86 -18 / 2 -32 26 / 0 -8 16 / -18 4 -2 / -6 -30 12	FDR corr. at $p<0.05$

				False belief>Filler (sentence)	-8 14 62 / 48 16 40 / 54 -56 36 / -54 20 2 / 52 -28 -6	
				True belief>Filler (picture)	56 -40 44 / 48 4 16 / 10 30 54 / 46 46 -12 / -50 -36 56 / -10 -92 -12 / -40 2 12	
				True belief>Filler (sentence)	54 -40 52 / 48 8 18 / 54 -24 -4 / 22 -60 56	
Das*, 2012	22	[33.5±8.4/NA]	**Frith-Happé**	Intentional: ToM animations>random animations	50 18 20 / 40 12 32 / 42 8 44 / -44 12 24 / -38 2 46 / -40 -2 34 / 16 8 66 / 62 -42 18 / 44 -78 28 / 50 -62 -6 / 38 -64 -10 / 32 -90 -4 / 40 -82 18 / 32 -70 32 / 32 -58 48 / 56 -20 24 / 58 -18 50 / 14 -74 -38 / -30 -92 -8 / -36 -88 18 / -36 -84 34 / -58 -46 14 / -60 -58 -8 / -42 -58 -8 / -28 -44 -16 / -16 -72 -40 / 4 -26 -4	FDR corr. at $p<0.05$, k≥50
de Achával*, 2012	14	[30.4±4.8/NA]	**Reading the Mind in the Eyes**	ToM>Faces (siblings)	--26.19 -60.01 51.1 / -26.37 -78.9 32.8 / -52.59 19.48 30.24 / -39.6 4.43 29.27 / -39.28 11.18 55.49 / -50.99 24.05 -12.82 / 57.48 36.47 22.2 / 39.74 28.62 -14.82 / 6.05 21.97 53.65 / -1.92 -13.29 -70.47/ 40.65 15.71 53.68 / 5.33 -27.22 -13.19 / -5.47 -29.38 -12.79 / -54.94 -43.2 2.87 / -48.27 -48.31 16.7	p≤0.003 uc, k≥10
				ToM>Eyes (siblings)	-56.95 21.38 27.89 / -35.22 11.45 35.22 / -51.15 42.57 -21.37 / -46.63 -54.38 -25.3 / -35.49 -95.64 -7.97 / -35.26 -96.1 10.01 / 63.99 30.11 22.72 / 63.8 35.25 8.77 / 11.71 -89.25 -34.05 / -4.76 30.65 55.21	p≤0.001 uc, k≥10
	14	[28.4±8.3/NA]		ToM>Faces (controls)	-48.41 18.46 19.06 / -53.01 31.67 -0.09 / 63.84 31.2 11.41 / 48.84 21.14 19.38 / -59.31 -45.76 -1.29 / -54.74 -50.46 17.03 / -	p≤0.005 uc, k≥10

					37.6 -93.1 -3.7 / -33.51 -57.55 -14.01 / -44.38 -75.64 -23.24 / 38.05 -92.63 -2.79 / 36.13 -95.23 15.43 / 39.81 26.91 -10.17	
				ToM>Eyes (controls)	-56.95 21.38 27.89 / -35.22 11.45 35.22 / -51.15 42.57 -21.37 / -46.63 -54.38 -25.3 / -35.49 -95.64 -7.97 / -35.26 -96.1 10.01 / 63.99 30.11 22.72 / 63.8 35.25 8.77 / 11.71 -89.25 -34.05 / -4.76 30.65 55.21	p≤0.001 uc, k≥10
Döhnel*, 2012	18	[24.7±2.2/20–27]	**False belief**	Conjuction false belief>Control /True belief>Control	60.86 -46.76 15.81	Cluster-level corr. at $p<0.05$
Hartwright*, 2012	19	[25/18–39]	**False belief**	False belief>False photo	60 -58 18 / 2 -58 36 / -4 66 -12 / -58 -8 -20 / -42 -70 -38 / -30 -80 -40 / -4 -56 -46	Cluster-level corr. at $p<0.05$
Kestemont*, 2012	17	[21.8/18–27]	**ToM reading**	Person>Truth (intentional mentalizing group)	-48 28 4 / -50 -42 0 / -30 -24 56 / -42 -22 18 / -4 -16 30	FWE corr. at $p<0.05$ or $p<0.005$
	17	[20.8/18–27]		Person>Truth (spontaneous mentalizing group)	-28 -26 58 / -38 -18 16	
Mascaro*, 2012	21	[31.9±6.7/25–55]	**Reading the Mind in the Eyes**	Emotion>Gender	-4.86 21.1 44.96 / -8.38 58.44 31.23 / 14.42 19.92 31.3 / -47.64 32.55 -2.51 / -53.88 -31.29 3.91 / -31.59 -4.68 -22.64 / -11.51 -26.08 22.84 / 46.07 17.62 -29.53 / 17.37 17.76 7.93 / 24.14 -35.84 19.84 / 49.52 29.07 -10.55 / 56.01 -6.94 -17.18 / 17.12 -72.76 -30.18 / -2.32 -53.06 -25.07 / -5.53 -16.72 -15.16 / -1.94 -17.41 11.74 / -24.57 -89.24 2.42	$p<0.001$ uc
Mier*, 2012	13	[30.5±4.3]	**ToM reading/ faces**	Affective ToM>Neutral	33 -69 -39 / 33 -75 -45 / -54 15 6 / 57 9 6 / 54 15 12 / 9 -3 9 / -12 6 6 / 33 0 9 / 57 -39 48 / 51 -54 48 / -51 -60 0 / -60 -57 0 /	$p<0.001$ uc

					66 -21 6 / -39 -69 48 / 24 -21 0	
Moran*, 2012	28	[23.0/NA]	**Frith-Happé**	Social>Mechanical movies (young adults)	8 59 28 / 8 61 18 / 4 43 -18 / -48 19 18 / 42 23 22 / 48 23 16 / 46 31 -4 / 18 1 0 / 34 1 38 / 54 -1 -18 / 50 -3 -18 / 4 -57 48 / 12 -51 36 / -62 -59 22 / -56 -71 18 / -46 -59 16 / 60 -45 16 / 48 -51 22 / 52 -41 14	Monte Carlo simulation corr. at $p<0.05$, $k\geq56$
	16	[71.8/NA]	**Frith-Happé**	Social>Mechanical movies (older adults)	44 13 -34 / 52 3 50 / -60 -47 18 / -62 -35 12 / 46 -45 26 / 46 -47 12 / 40 -59 22 / -40 -63 12	
	27	[23.0/NA]	**Moral judgement**	Moral judgement (Neutral intention/negative outcome>Neutral intention/neutral outcome) (young adults)	20 63 16 / -16 31 54 / -6 59 28 / -24 25 -10 / 8 25 -10 / 0 27 -14 / -18 -1 -18 / -56 -23 -20 / -58 -19 -12 / -20 -25 -16 / 66 -27 -16 / -56 -65 24 / 46 -71 42 / 62 -53 32 / 56 -55 40	
			Moral judgement	Moral judgement (Negative intention/neutral outcome>Negative intention/negative outcome) (young adults)	42 51 -12	
	14	[71.8/NA]	**Moral judgement**	Moral judgement (Neutral intention/negative outcome>Neutral intention/neutral outcome) (older adults)	-4 21 54 / -44 5 50 / -44 -9 56 / -4 7 70 / -42 -33 10 / -48 -37 32 / 62 -55 32 / 54 -69 22 / 24 -1 -14 / 4 -15 12	
	29	[23.0/NA]	**False belief**	False belief>False photo (young adults)	14 65 22 / 4 59 26 / 10 59 16 / 4 5 2 / 0 -19 36 / -66 -25 -8 / -52 1 -36 / -60 -59 34 / -46 -65 50 / 60 -51 26 / 54 -45 18 / 62 -23 -14 / -2 -59 38 / 0 -57 46 / -26 -79 -34	
	14	[71.8/NA]	**False**	False	48 -57 30 / 46 -49 24	

			belief	belief>False photo (older adults)	/ 50 -55 18 / 12 -53 30	
Rabin*, 2012	18	[19.33±1.24/NA]	**Images of others'/own events**	Personal ToM>Autobiography memory during (TP TR1/TR2)	-40 -4 -4 / -32 -16 20 / 48 24 20	p<0.005 uc
				Personal ToM>Autobiography memory (TP TR4/TR5)	20 64 8 / 8 44 32 / 8 36 40 / -40 0 52 / -8 4 52 / 36 20 28 / -52 12 36 / -40 8 28 / -56 16 16 / 44 20 16 / 36 16 -28 / 12 -52 32 / 40 8 36 / -36 -12 12 / 56 0 -24 / 64 -32 -4 / -56 4 -28 / -40 -60 12 / 40 -60 12 / 56 -56 8 / -36 12 -24 / 16 -12 -4 / -12 -28 -4 / -24 -72 16 / 36 -72 -4 / 24 -88 20 / -36 -88 0	
Roser*, 2012	14	[27.3±3.5/NA]	**False belief**	ToM cartoon>Non ToM cartoon	-4 58 42 / 10 48 34 / 16 56 24 / -36 30 -2 / -44 8 50 / 10 46 20 / -14 52 12 / -44 -12 58 / 54 -12 34 / -30 -54 50 / -18 8 38 / 24 8 36 / 8 8 28 / 0 -64 24 / -2 -52 26 / -18 -44 32 / 16 -66 14 / -16 -64 12 / 10 -60 16 / 32 12 24 / 42 -10 22 / 36 -36 22 / -18 -46 2 / -6 -68 36 / 6 -88 42 / 64 -10 24 / 22 -40 68 / 50 -60 14 / 56 -46 14 / -44 -60 22 / -40 -52 12 / -60 -38 2 / 4 -100 22 / -8 -82 34 / -28 8 14 / -24 0 18 / 12 20 8 / 18 6 24 / 20 -10 20 / 20 -20 14	p<0.005 uc, k≥10
Spotorno*, 2012	20	[22/NA]	**Irony**	Ironic condition>Literal condition	7.69 64.05 21.44 / -5.05 47.07 35.67 / 4.25 54.83 3.36 / -44.48 27.58 -9.92 / -56.38 -59.7 56.07 / -58.75 -56.91 40.15 / -38.1 16.99 -20.19 / 46.97 20.01 41.94 / 68 -22.54 -12.48 / 68.65 -53.79 32.06 / 65.09 -20.05 14.22	Cluster-level FDR corr. at p<0.05
Spunt*, 2012a	21	[21.7/19–32]	**Action identific**	Why>How (video) &	-6 59 22 / -9 44 46 / -6 23 64 / -48 11 -35 /	FWE corr. at p<0.05

			ation (images)	Why>How (text)	-57 -22 -8 / -48 29 -11 / -6 -55 34 / -6 50 -17 / -45 -64 34 / 51 8 -29	
Spunt*, 2012b	22	[21.6/19–32]	**Action identification (images)**	Why>How	-42 27 -12 / 45 27 -12 / 57 27 9 / -12 51 33 / 3 63 24 / 6 45 51 / 12 51 9 / 3 57 -18 / 6 21 60 / -27 24 45 / 6 18 -18 / -48 -54 24 / -45 -69 39 / 54 -66 24 / -3 -60 27 / 12 -54 39 / -18 -54 9 / 51 -18 -21 / -57 -12 -9 / -57 -39 3 / -63 -39 3 / -54 12 -21 / 30 -48 -6 / -21 -39 -9 / 12 -96 21 / -9 -93 21 / -21 -75 -9 / 15 -75 -6 / 0 -57 -45 / -30 -78 -33 / 30 -78 -33 / -9 9 -9 / 3 -6 9 / -27 -12 -18	FDR corr. at $p<0.05$, k≥20
Uchiyama*, 2012	20	[25.6/21–30]	**Sarcasm /metaphors**	Conjunction sarcasm/metaphor	-14 56 28/ -10 48 12 / -6 40 -4	Cluster-level corr. at $p<0.05$
Veroude*, 2012	25	[19.1/18–20]	**False belief**	Mentalizing> Baseline	-7 -56 21 / -63 -18 -18 / -4 60 35 / -4 42 -18 / -49 -70 35	FWE corr. at $p<0.05$, k≥3
Bodden*, 2013	30	[25.3±2.5/20–30]	**False belief**	Cognitive ToM>Physical	36 4 52 / 40 2 -26 / 24 -64 50 / -48 -50 8	Monte Carlo simulation corr. at $p<0.05$, k≥46
				Affective ToM>Physical	46 -54 -16 / -38 -4 34 / 42 4 -24 / 36 4 52 / 14 16 -8 / 38 -40 50 / 8 -72 46 / -4 -28 32 / 58 -32 38 / 30 30 -16 / -10 -70 -24	
Contreras*, 2013	22	[22/19–27]	**ToM reading**	Member mental>Member physical	56 -57 14 / -42 -63 28 / -4 47 -8 / -6 45 50 / -54 -11 -16 / 42 19 -32 / 0 -49 28	Monte Carlo simulation corr. at $p<0.05$, k≥32
	14	[19.9/18–23]	**ToM reading**	Individual mental>Individual physical	-8 45 52 / -8 55 2 / -2 -51 22 / -48 -17 -24 / 62 -7 -18 / -54 -67 32 / 66 -49 26 / 30 -83 -36 / -26 -79 -36 / 44 -45 6 / -34 -31 -18 / -48 29 -14	
			False belief	False belief>Photo	8 61 26 / 10 -51 34 / 54 -3 -22 / -60 -59 20 / 58 -53 30 / -24 -77 -38	$p<0.005$ uc, k≥59
Corradi-Dell'Acqua*	46	[NA/18–31]	**False belief**	False belief>Photos	8 56 12 / -4 44 -14 / 6 -54 30 / 58 -46 22 /	Cluster-level corr.

, 2013					66 -24 -4 / 26 -22 -16 / -48 -58 24 / -64 -20 -12 / -20 -28 -12	
Dufour*, 2013	27	[30.6±9.3/18–50]	**False belief**	False belief>Photos	60 -6 -12 / 58 -54 16 / 64 -24 -10 / 2 -56 36 / 0 -60 30 / -6 -52 46 / -58 -48 18 / -56 -58 24 / -40-58 28 / -62 -16 -4 / -52 -12 -16 / -56 -2 -10 / -6 54 22 / 6 46 46	p<0.001 uc, k≥30, top three peaks per cluster reported
Hervé*, 2013	42	[30.9±8.6/18–53]	**ToM reading**	ToM>Plautom (control task)	-6 68 38 / 8 -60 30 / -36 -52 42 / 18 -64 54 / 52 -54 24 / -44 -60 24 / -8 8 2 / 8 6 0 / -44 58 2 / 44 22 32 / -44 28 32 / -32 6 58 / 32 6 56 / 62 -4 -24 / 4 64 22 / -4 52 38 / 4 2 56 / 40 -26 36 / 22 -46 -26 / -42 -18 56	FWE corr. at p<0.05, k≥10
Kullmann*, 2013	18	[26.4±3.1]	**Reading the Mind in the Eyes**	ToM Eyes>Gender	10 24 34 / -24 -92 -18 / 34 24 2 / -54 -24 54 / -20 -102 -12 / 10 26 34 / 6 16 48 / 4 26 50 / -6 16 48 / -6 28 44 / -10 24 44 / 30 22 -12 / 58 32 12 / -54 30 0 / 34 -6 56 / 30 0 48 / 44 -4 60 / -44 20 32 / 50 -36 -2 / -54 -46 4 / 44 16 -24 / 50 -30 0 / -56 -44 4 / -60 -42 20 / -54 -54 10 / -60 -36 20 / 30 -92 -10 / -26 -62 50	p<0.001 uc or SVC (FWE) at p<0.05
McAdams*, 2013	18	[24.5/18–39]	**Frith-Happé**	People>Bumper	60 -8 -16 / 54 28 8 / -52 22 -4 / -60 -44 12 / -54 0 -20 / -10 -80 -46 / 44 -34 -20 / 8 -46 36 / 4 56 14 / -6 2 4 / 44 6 42 / -6 46 40	p<0.05 uc
Saft*, 2013	26	[28.8±4.1/22–38]	**ToM cartoon**	Mentalizing> Non-mentalizing	-14 54 34 / 0 48 -20 / 6 50 30 / 6 42 -16 / -2 -56 36 / 18 -66 14 / 22 -62 6 / -60 -6 -12 / 58 -12 -16 / 52 -64 2 / -54 -54 6 / -44 -52 16	FDR corr. at p<0.05, k≥10
Schiffer*, 2013	22	[35.6±10.0/21–52]	**Reading the Mind in the Eyes**	Emotion>Gender	-50 28 -8 / -58 -42 6 / 52 -36 -2 / -2 20 54 / -16 -98 -8 / 32 -90 -12	p<0.001 uc or FWE corr. at p<0.05
van der	19	[21.6±2.6/NA]	**False**	High-	-30 18 2 / -32 24 -10 /	FDR or FWE

Meer*, 2013			**belief**	inhibition>Fixation	-42 10 28 / -24 -62 42 / -34 -54 40 / -24 -72 46 / 4 -66 2 / -4 -86 -6 / 14 -72 0 / -36 54 18 / -4 22 54 / -2 30 36 / -4 20 44 / 34 26 -6 / -58 -42 -8 / -50 -30 50 / -56 -26 46 / -46 -30 -10 / -12 -10 -2 / 18 -8 -4 / 6 -18 -10 / 52 -34 -8 / 56 -42 -6 / 46 -24 50 / 48 -64 42 / 48 -50 42 / 50 -46 34 / -6 -68 48	corr. at $p<0.05$, k≥20
				Low-inhibition>Fixation	46 -24 50 / 44 -18 60 / -30 26 -4 / 4 -84 -2 / -4 -70 4 / 4 -72 4 / -58 -42 -6 / 12 -10 4 / 16 -16 12 / -30 -52 40 / -22 -64 44 / -42 -48 42 / 22 -96 -2 / 20 -86 0 / -16 -10 -4 / -10 -16 6 / -8 -18 -2 / -50 -30 50 / -48 -22 50 / -10 14 34 / -12 24 28 / 44 24 -10 / 54 -32 -8 / -30 2 6 / 30 -6 8 / -48 6 28 / -44 2 36 / 0 32 40	
Varga*, 2013	24	[34.0±8.5/23–55]	**Irony**	Irony>Context	-22 56 20 / -48 0 36 / -56 2 -16 / -48 22 -8 / -56 2 -20 / -58 -54 18 / -56 -50 2 / 52 -26 -8 / 54 32 -8 / 50 -32 0 / 2 22 34 / -6 -50 28 / 40 -56 58	Corr. at $p<0.05$
				Irony with linguistic help>Context	-4 56 24 / 56 -8 -12 / -54 2 -20 / -8 -48 34 / 0 -20 8	
Ampe*, 2014	17	[21.7/18–27]	**Action identification (images)**	Unusual intention>Normal	-2 8 30 / 0 0 36	Monte Carlo simulation corr., k≥49 or FDR corr. at $p<0.05$
				Unusual means>Normal	-44 -40 66 / -34 -38 72 / -46 -30 48 / 34 -44 52 / 34 -42 72 / 34 -40 64 / -28 -62 66 / -32 -60 58 / 34 -92 16 / 52 -72 -8 / 44 -56 -10 / -46 -68 -2 / -46 -60 6	
Dodell-Feder*, 2014	18	[26.2±4.0/15–32]	**ToM reading**	Thought>Appearance	-52 0 -26 / -54 -30 -6 / 52 -2 -20 / 58 -48 28 / -50 -54 24 / -6 -52 44 / 24 -30 -18 / -6 16	$p<0.001$ uc, k≥10 or cluster-level corr. at $p<0.05$

					64 / -38 2 54 / -18 -38 -12 / 38 20 32 / 8 -50 -48 / 20 -74 -28 / 48 28 -10 / 10 16 64 / -20 -76 -30 / -6 -50 -44 / -58 20 8 / 58 24 10 / 24 26 46 / 6 38 34 / -4 46 24 / 22 60 16 / -8 -10 2	
Dodell-Feder*, 2014	18	[32.4±12.1/18–65]	**False belief**	False belief>False photo	6 -55 34 / 51 -1 -26 / 51 -25 -8 / 54 -58 19 / 0 53 31 / 9 65 16 / 3 56 -14 / -48 -64 22 / -24 -76 -38 / -6 -58 -44 / 45 8 49 / 21 -76 -29 / 6 -76 -11 / -36 20 43 / -21 26 43 / -30 17 -17 / -9 -13 10 / 3 26 -11	p<0.001 uc, k≥10 or cluster-level corr. at p<0.05
Feng*, 2014	17	[22.0±2.2/NA]	**Humor**	Point-to-other jokes>Point-to-self jokes	0 42 36 / 45 18 51 / 48 18 15 / -57 -24 -6 / 54 -15 -9 / -54 -54 18 / 51 -48 24 / -3 -54 42	Corr. at p<0.05, k≥50
Hartwright*, 2014	20	[21/NA]	**False belief**	False belief (main effect)	54 -56 26 / 2 -66 48 / -32 26 -2 / -52 -52 32 / 46 16 -6 / 50 20 38 / -4 20 48 / 38 52 18 / -48 16 0 / -6 -66 54 / 2 42 28 / -46 14 36 / -40 16 -6 / 2 40 42 / 52 18 4 / -54 -40 38 / 44 -60 52 / 48 -46 42 / 0 -54 72 / -2 14 68 / -8 40 16	Corr. at p<0.001
Lee*, 2014	19	[24.2±3.68/NA]	**False belief**	False belief>Photo	62 -54 24 / 4 -66 28 / -2 56 18 / -4 62 -6 / -62 -12 -14 / -48 -60 28 / -30 -78 -32 / -6 -60 -46 / 22 -72 -36 / 60 28 10 / 38 8 40 / 0 -20 42 / -52 22 6 / -28 22 36	Gaussian random fields theory corr. at p<0.05
Mier*, 2014	18	[44.0±10.35/NA]	**ToM reading/ faces**	ToM>Emo>Neutral	-63 -48 3 / -54 -48 3 / -48 -54 12 / 54 -51 12 / 54 36 -3 / 51 -3 -24 / -48 -6 -21 / -51 9 -33 / -48 33 -3 / -45 -42 -18 / -15 -81 -39	p<0.001 uc
Reniers*, 2014	15	[27±5/21–40]	**ToM faces**	Sad context>Neutral context	49.26 16.15 -33.92 / 57.65 -39.98 19.68 / 12.57 -47.74 42.5 / -12.56 -95.92 10.72 / 22.9 -81.94 -2.47 / 17.57 -90.16 1.79	Monte Carlo simulation corr., k≥23 or FDR Monte Carlo simulation corr. at p<0.05, k≥23

Riekki*, 2014	23	[36.1/NA]	**Frith-Happé**	Intentionality ratings>Random ratings	-50 -16 0 / 56 -6 -6 / 24 -44 70 / 10 50 18 / 20 -44 8	FWE corr. at $p<0.05$
Schneider*, 2014	16	[22.7±4.4/NA]	**False belief**	False belief>False photo	50.24 -57.46 28.26 / -53.46 -51.13 32.76 / 8.18 -53.8 35.34 / 62.63 -19.05 -9.37 / -63.73 -32.26 -5.91 / -57.41 -.64 -12.51 / -34.02 7.93 43.39	$p<0.005$ uc, minimum volume 108 mm3
Schuwerk*, 2014	21	[23.3±3.7/NA]	**False belief**	Incongruent belief>Congruent belief	-46 -74 4 / 50 -64 8 / 18 -80 50 / 18 26 2 / 22 36 0 / -6 24 4 / -36 -8 54 / -46 -10 52 / -54 0 46 / -4 24 34 / -4 10 58 / 14 24 38 / -62 8 10 / -60 14 4 / -44 8 2 / 24 4 30 / 28 -6 58 / 36 -10 62 / 44 -52 4	Cluster-level FWE corr.
Spunt*, 2014	29	[27.1/19–38]	**Action identification (images)**	Why>How (photo)	-6 58 18 / -6 56 40 / -6 24 64 / 8 52 40 / -2 44 -18 / -48 -66 28 / -2 -48 30 / 46 14 -34 / -54 -8 -18 / 60 -8 -22 / 54 -2 -22 / -58 -36 0 / 34 -80 -34 / -30 -82 -32	FWE corr. at $p<0.05$, k≥10
Van Hoeck*, 2014	19	[22/19–29]	**ToM reading**	False belief>Basic	-20 34 40 / -50 -68 42 / 14 -92 0 / -20 -98 8	$p<0.001$ uc, Monte Carlo simulation corr., k≥30
Alderson-Day*, 2015	19	[24.6±7.0/NA]	**False belief**	ToM reasoning>Physical reasoning	-42 16 -20 / 48 -41 20 / -45 -52 23 / -3 -52 31 / -9 -34 -8 / 42 -40 -15 / 6 50 15 / -30 -8 -16 / -9 -28 0 / -33 -11 -16	$p<0.001$ uc, Monte Carlo simulation corr. at $p<0.05$, k≥6
Frank*, 2015	17	[28±0.4/18–39]	**False belief**	False belief>Coherent story (women)	-58 -62 26 / -44 6 58 / 58 -60 30 / 4 62 -2 7 -8 -56 36	Monte Carlo simulation corr. at $p<0.05$, k≥31
	17	[29±0.5/18–39]	False belief>Coherent story (men)	-8 -60 42		
Hartwright*, 2015	21	[22/19–28]	**False belief**	False belief>Physical	62 -56 16 / 0 -56 34 / -54 -56 22 / 56 6 -34 / -54 0 -36 / 54 -8 -20 / -14 52 32 / 0 62 10 / -28 -80 -40 / 28 26 34 / -64 -22 -10 / 66 -26 -10 / -38 16 -42	Corr.

Kandylaki*, 2015	20	[24.3±2.1/NA]	**False belief**	Implicit ToM>Implicit nonToM	-58 -64 30 / -24 -82 -34 / 56 -60 30 / -8 -48 44 / -22 52 24 / -4 48 38 / -40 12 46 / 50 8 -28 / 24 24 44 / -60 -24 -10 / 12 -50 40 / 26 58 18 / 46 22 38 / -32 52 0 / -56 26 6 / -50 28 -6	Monte Carlo simulation corr., k≥48
				Explicit ToM >Explicit nonToM	-56 -58 32	
Kanske*, 2015	25	[32.6±9.9/NA]	**ToM reading/ faces**	EmpaToM>Factual reasoning	-3 66 27 / -9 57 24 / -30 21 -18 / 48 9 -36 / 48 15 -27 / -54 3 -30 / -24 -12 12 / 51 -12 -9 / 48 -30 -6 / -51 -18 -9 / 6 -18 45 / -3 -18 45 / -57 -21 21 / -39 -27 66 / 66 -27 27 / 54 -42 21 / 45 -45 21 / 63 -45 21 / -6 -51 36 / -6 -51 27 / 6 -51 33 / -45 -57 24 / -51 -48 24 / -21 -75 -39 / 30 -81 -36	p<0.001 uc, k≥10
Littlefield*, 2015	23	[NA/20–35]	**ToM reading/ faces**	Social>Simple truth telling	0 58 4 / -48 20 -8 / 48 24 -8 / -6 18 64 / 2 -66 32	p<0.001 uc, k≥100
Mohnke*, 2015	297	[33.6±9.9/18–60]	**ToM cartoon**	ToM>Control	-6 53 36 / 54 29 -6 / -51 23 9 / -6 14 66 / 42 5 48 / 60 -52 18 / -54 -58 -24 / 51 5 -27 / -39 -28 48 / 12 -97 15 / 45 -82 -9 / 27 -76 -33 / -24 -76 -36 / 6 -55 -45 / -6 -58 -48 / 3 -49 -18 / -3 -52 36 / 0 -16 42	Whole brain FWE corr. at p<0.01
Otti*, 2015	20	[45.6±14.0/24–64]	**Frith-Happé**	ToM>Random movement	28 -94 4 / 54 -48 16 / -34 -94 -8 / -60 -64 4 / 46 12 18	Cluster-level FWE corr. at p<0.05
Schlaffke*, 2015	39	[25.9±5.8/NA]	**ToM cartoon**	Affective ToM>Control	-4 12 55 / -4 16 49 / -8 56 34 / -44 18 49 / -52 22 10 / -58 -60 19 / -52 -36 -5 / 60 -8 -20 / 52 -76 1 / 30 -98 4 / 14 -106 10 / 42 -76 -8 / -4 -54 37	Voxel-level FWE corr. at p<0.05
				Cognitive ToM>Control	-4 14 58 / -46 12 52 / -52 -64 19 / 52 -48 16 / -60 -38 -2 / 50 -64 13 / 52 -14 20 / -56 -6 -23 / -48 -80 1 / -2 -	

					58 40	
Schurz*, 2015	22	[23.1±2.6/NA]	**Visual perspective taking**	Avatar>Arrow (self)	48 -76 0 / 46 -64 20 / 38 -36 -18 / -10 -50 16 / -2 -66 20 / -12 -40 36 / -16 52 2 / 6 64 -8	Cluster-level FWE corr. at $p<0.05$
				Avatar>Arrow (other)	50 -70 8 / 48 -78 -4	
Spunt*, 2015	462	[24.9/18–69]	**False belief**	False belief task>Photo (MIT reference group)	0 -56 38 / -54 -58 26 / 58 -56 20 / -62 -16 -10 / 56 -20 -10 / 2 54 -14 / 0 54 24 / 10 35 55 / -40 26 48 / 44 10 52 / 0 -18 40	FWE corr. at $p<0.05$
	18	[28.4/21–46]		False belief>Photo (Caltech reference group)	0 -58 26 / -46 -66 26 / 56 -52 30 / -58 -8 -18 / 62 -6 -10 / -10 54 40 / -2 58 -14 / -22 30 44 / 26 22 46	FWE corr. at $p<0.05$
Wang*, 2015	56	[19.3±0.9/17–21]	**ToM cartoon**	ToM>Physical causality	18 -102 12 / -3 -54 42 / -9 -102 9 / -39 -78 42 / 54 0 -27 / -18 33 42 / 48 -45 15	$p<0.001$ uc, k≥50
Willert*, 2015	81	[35.6±9.3/NA]	**ToM cartoon**	ToM>Control	-6 56 33 / -48 23 -12 / 57 29 0 / -9 20 63 / 45 5 54 / -54 -58 21 / 57 -55 15 / 54 -52 24 / -48 2 -36 / -45 14 -36 / 45 17 -36 / -3 -100 3 / 12 -97 9 / -3 -88 42 / 27 -79 -33 / -21 -76 -36 / -6 -58 -45 / 6 -55 -45 / -6 -55 36 / -6 -28 0 / -12 -13 -15 / 12 5 12	FWE corr. at $p<0.01$
Bardi*, 2016	22	[22/19–25]	**False belief**	False belief>True belief	42 -67 43 / 33 -52 1	Cluster-level FWE corr. at $p<0.05$
Dungan*, 2016	24	[25.7±4.2/NA]	**False belief**	Agent-mental>Agent-behavior (Social>Non-social condition)	-57 -4 -32 / -12 -103 13 / -54 -58 43	FWE corr. at $p<0.05$
Eddy*, 2016	50	[30.7±10.8/17–59]	**False belief**	False belief>False photo	8 -52 34 / 52 -54 18 / -48 -60 18 / -50 4 -32 / 58 -6 -20 / -2 62 -12 / -38 22 40 / -20 40 30 / 0 -18 34 / -36 56 -14	FWE Monte Carlo simulation corr. at $p<0.05$, k≥65
Hennion*, 2016	25	[42.5±12.3/NA]	**Frith-Happé**	ToM>Random interactions and goal	58 -50 12 / 28 -40 -16 / 36 -84 4 / -44 -70 20 / -40 -48 -14 / 30 -92	FDR corr. at $p<0.05$, k≥10

				directed interactions	-4 / -46 -60 -10 / -32 -76 22 / 42 -78 14	
Jacoby*, 2016	20	[25.3/18–39]	**False belief**	False belief>Photo	0 -52 34 / -6 54 22 / 4 46 -16 / 50 -54 22 / 50 -18 -12 / 52 4 -34 / -50 -60 24 / -52 -2 -22 / 52 6 -32 / 26 30 42 / -20 30 36	Monte Carlo simulation corr. at $p<0.05$
Kirkovski*, 2016	23	[30.5±10.2/19–56]	**Frith-Happé**	ToM>Random movement	54 -12 -12 / -56 -52 -2 / 54 26 10 / 8 -12 6 / -50 16 24	Cluster-level FWE corr. at $p<0.05$
Lavoie*, 2016	19	[28.8±7.9/20–53]	**ToM reading**	Social adjustment>Physical confirmation	-42 10 32 / -52 -64 16 / -60 -4 -14 / 54 -58 18 / 36 18 -34 / -16 54 26 / -14 10 14 / -44 12 52 / 32 16 -28 / 60 -16 -14 / 8 -56 32 / -50 -60 24 / 52 -60 24 / -22 -78 -36 / 32 -78 -36	Monte Carlo simulation corr. at $p<0.05$, $k\geq60$
Schmitgen*, 2016	21	[23.7±3.1/NA]	**ToM cartoon**	3rd person perspective>1st person perspective	-3 18 60 / 6 57 24 / -12 54 36 / -48 27 -6 / -51 21 24 / -27 21 0 / -48 -51 24 / -54 -36 0 / -54 -48 12 / 51 -36 0 / 51 -18 -15 / 48 30 -9 / 51 36 -15 / 51 15 -24 / 48 6 -27 / 57 0 -30 / 48 21 24 / 30 -78 -36 / 30 -78 -24 / 9 -81 -27 / -18 -75 -33 / -24 -81 -36 / -18 -84 -30 / 57 -51 24 / -36 -90 -3 / 24 -96 3 / 39 -90 3 / -3 -48 45 / -54 3 -27 / -48 9 -39 / -45 3 54 / -39 3 63	FWE corr. at $p<0.05$, $k\geq10$
van Ackeren*, 2016	25	[NA/18–35]	**Indirect speech processing**	Indirect speech>Direct speech	-57 14 19 / -9 41 37 / -6 5 64 / -9 8 4 / 12 8 7	Corr. at $p<0.05$ ($k>15$), $k>100$ for reported clusters
Bravo*, 2017	14	[30.5±3.1/NA]	**Auditory ToM**	Strong dissonance>Consonance	36 -58 43 / 51 -40 52	FWE corr. at $p<0.05$
Desmet*, 2017	17	[23±3/NA]	**Frith-Happé**	ToM>Random	-60 -55 7 / 57 -55 1 / 51 32 1 / 45 20 19	FWE corr. at $p<0.05$
Döhnel*, 2017	22	[25.3±4.6/21–40]	**False belief**	False belief>True belief	-31.37 60.44 7.9 / 43.05 55.41 -4.08 / 23.88 60.71 19.26 / 36.75 57.8 10.36 / 54.18 45.82 19.09 / -46.14 19.3 27.91 / -5.84 24.06 53.64 / -39.36 17.14 50.42 / 38.48 17.83 53.51 /	

					35.46 22.33 -13 / 45.37 7.35 -1.6 / -32.53 29.2 -4.68 / -32.49 22.92 -2.94 / -63.63 -44.71 -1.32 / -60.23 -46.75 11.15 / -57.79 -49.02 32.62 / -59.93 -54.35 33.19 / -60.01 -54.97 26.53 / -56.79 -45.28 26.64 / -8.97 -67.06 43.66 / 12.59 -61.87 40.54	
Eddy*, 2017	25	[31.8±12.7/18–59]	**False belief**	RMET>Baseline	26 -68 -12 / 56 18 26 / 22 -28 0 / -20 -30 -2 / -40 10 26 / -4 14 48 / -16 8 8 / -50 -36 2 / 14 4 12 / -12 -14 10 / 12 -12 8 / -14 8 26 / 0 -16 -22 / 18 -10 20 / -16 -8 -10 / 0 14 72 / -8 -32 -24	Monte Carlo simulation corr. at $p<0.05$, k≥3
Feng*, 2017	23	[22.4±2.0/NA]	**Indirect replies**	Indirect replies>Direct replies	-42 -70 25 / 0 -55 25 / -63 -34 -8 / 54 -58 16 / 48 29 -14 / -45 32 -14 / 63 -37 -14	FWE corr. at $p<0.05$, k≥17
Lewis*, 2017	17	[22±2.9/NA]	**ToM reading**	Mentalizing>Factual memory	28 -84 -42 / -52 -58 26 / -8 50 34 / 46 8 -30 / -46 8 -44 / 18 -42 76 / -36 0 -10 / -22 -74 -42 / 44 -4 -10 / -16 -52 28 / 2 -18 34 / -36 20 -26 / -12 16 -2 / 0 22 26 / -48 -32 -8 / 20 8 8	Monte Carlo simulation corr. at $p<0.05$, k≥38
Massau*, 2017	50	[33.9±8.4]	**Moral judgement of others' behavior**	Moral judgement>Non-moral judgement	16 -90 -4 / -4 -50 28 / -58 -6 -12 / -4 42 -20 / -12 -88 -6 / 22 -78 -34 / 58 0 -16 / -8 54 34 / -40 32 -14 / -48 -2 54 / -24 -80 -34 / 48 -32 2 / 48 18 -26 / -44 -74 40 / 22 -40 16	Voxel-level FWE corr. at $p<0.05$
Mier*, 2017	44	[37.8±10.0/NA]	**ToM reading/ faces**	ToM>Emo>Neutral	56 32 6 / -48 30 -4 / -52 26 6 / -58 -54 6 / -40 -60 18 / -46 -34 -6 / 52 -16 -12 / 50 -42 2 / 52 -2 -22 / -48 14 -30 / -54 -4 -20 / -52 -12 -16 / 44 -50 -18 / 46 -40 -18 / 20 -8 -16	$p<0.005$ uc, k≥20
Özdem*, 2017	21	[21.14/18–28]	**Eye gaze evaluation**	Eyes controlled by human>Preprogrammed eyes	56 -22 10 / -44 -32 10 / 8 -80 26 / 26 -50 64 / 58 -12 50	$p<0.001$ uc, k≥10 or FWE corr. at $p<0.05$

Powell*, 2017	12	[36.4±13.9/20–58]	**Predict peer strategy during game**	ToM>Physical	65.72 -3.71 -17.66 / -63.83 -16.62 -10.82 / 7.16 53.52 -22.33 / 56.7 -51.06 27.51 / -4.91 -54.78 25.57 / -73.07 -52.45 19.78 / -31.4 -42.65 -15.52 / 17.18 -88.71 -28.6 / 24.05 -102.15 -.49 / 46.73 -75.92 3.25 / -24.38 -104.26 13.99 / -60.46 27.05 8.33	FDR corr. at $p<0.05$, k≥10
White*, 2017	23	[25.1±2.9/21–35]	**Pain/harm in others**	Moral/conventional transgression conjunction	12.56 53.71 19.58 / -26.58 28.74 -4.18 / -35.98 21.32 20.25 / -13.14 38.91 34.93 / 25.44 53.13 12.7 / -45.71 -41.21 6.43 / 38.2 -4.18 -15.47 / 51.83 -45.07 28.69 / -42.11 -58.16 31.58 / -42.82 -7.66 -13.74 / -19.4 -64.46 31.82 / 2.89 27.83 18.94 / -36.4 -34.41 -24.65 / 32.29 -75.41 15.21 / 2.54 -24.08 -19.62	Corr. at $p<0.05$, k≥37
Ammons*, 2018	14	[24.9±5.4/19–36]	**Frith-Happé**	Social>Fixation	14 -88 16 / 60 -40 12 / -38 14 52 / 26 -30 -2 / -36 -58 8 / 56 26 22 / -56 -42 12 / -2 38 46 / -26 -34 -2	FWE corr. at $p<0.05$
Bartholomeusz*, 2018	22	[20.4±2.6/15–25]	**ToM cartoon**	Communicative intention>Physical causality	28 32 44 / 2 -62 38 / -46 -70 10 / 50 -70 2 / 50 -4 -22 / 8 -66 30 / 44 -58 12 / 54 2 -18	Cluster-level corr. at $p<0.05$
Bitsch*, 2018	20	[28.8±4.9/23–38]	**Prisoner's dilemma**	ToM>Control	32 -54 46 / 30 -60 46 / 50 -46 42 / -34 -68 -30 / -32 -56 50 / 44 36 28 / 42 6 32 / 32 22 -2 / 32 58 16 / 38 50 -8 / 44 24 32 / 6 24 50 / 6 32 42 / -46 2 34 / -44 30 28 / -28 0 50 / -32 52 0 / -36 54 10 / -26 48 -12 / -6 -28 39	Monte Carlo simulation corr. at $p<0.05$, k≥47
Bliksted*, 2018	17	[23.6/21.5–25.7]	**Frith-Happé**	Intentional>Random	30 -90 -6 / -40 -90 -2 / 58 30 6 / 52 4 -18 / -52 -2 -18 / -42 8 22	$p<0.05$ uc
Grant*, 2018	50	[32.7±9.6/18–60]	**ToM reading**	ToM (main effect)	52 -36 48 / -36 -54 18 / 56 -40 4 / 48 -72 -4 / 26 26 -4 / 2 -54 18 / 64 6 10 / -38 38 10 / -22 -38 24 / 40 6 -14 /	$p<0.05$ uc or $p<0.01$ uc or $p<0.001$ uc or FWE corr. at $p<0.05$

					2 -64 46 / 42 22 18 / -34 -80 40 / -50 -36 -6 / 50 14 46 / -6 -78 0 / 56 -46 18 / -12 -86 14 / -22 54 16 / -36 10 -20 / -12 -16 50 / 34 32 14 / -34 16 -14 / -38 -72 -12 / 16 26 0 / -8 -16 44 / 26 -86 6 / -8 6 18 / 12 30 28 / -32 26 38 / -22 42 30 / -8 -66 48 / 30 46 24 / -40 -86 18 / 30 -52 44 / 42 -82 18 / 12 -40 40 / 34 28 -12	
Herold*, 2018	12	[37.0±9.1/26–55]	**Irony**	Irony>Control	-2 -60 40 / -58 -52 24 / 44 -48 18	Cluster-level corr. at $p<0.05$
Lee*, 2018	16	[23.2±2.3/NA]	**Pain/harm in others**	Cooperation/Competition Pain>Individual Pain	50.49 -64.31 46.86 / 36.89 -17.69 6.62 / 19.34 19.6 -6.86 / 14.62 -7 41.8 / -51.55 -31.1 17.3 / 55.42 -22.97 18.03 / 12.25 -51.29 15.97 / -8.08 -37.8 35.15 / -18.7 46.29 -17.81 / 14.79 47.47 -18.5 / 40.36 39.78 35.61 / 45.5 46.65 16.92 / 28.95 -24.54 60.1	$p<0.001$ uc, k≥10
Lin*, 2018	39	[22.2±2.7/NA]	**ToM reading**	Social>Non-social	57 3 -21 / -51 12 -30 / -42 -60 18 / -9 54 33 / -6 -54 39 / 57 24 3 / 24 24 45 / 39 6 42 / 6 51 -12 / -33 3 48 / 42 21 21	FWE corr. at $p<0.05$, k≥10
Niemi*, 2018	16	[22.4±2.7/18–27]	**Moral judgements of others**	Reciprocity/Charity>Unspecified	0 53 34	$p<0.001$ uc, k≥10
Nijhof*, 2018	21	[31.1±8.6/19–51]	**False belief**	False belief>True belief	57 -52 34 / 12 -70 1 / 45 32 37	FWE corr. at $p<0.05$
Ohtsubo*, 2018	37	[20.3±1.52/NA]	**Others apologizing**	Costly apology>Non-costly apology	48 -52 24 / -56 -6 -14 / 58 0 -20 / 10 -50 36 / 0 46 -18 / 36 8 36 /-4 -54 -44	FWE cluster-level corr. at $p<0.05$
Sommer*, 2018	15	[29.9±12.2/NA]	**False belief**	Story: Incongruent> Congruent belief Question: Incongruent (self+other)>Congruent	8 8 66 / -40 0 42 / -64 -32 2 / 50 -40 14 / 48 -58 -8 / -8 -28 -2 42 20 -6 / 42 -44 2	FWE corr. at $p<0.05$, $p<0.001$ or $p<0.005$

Specht*, 2018	18	[25.7±2.5/21–29]	**ToM cartoon**	(self+other) ToM>Control	-48 -62 14 / -46 24 10 / 46 6 46 / 48 -66 16 / 46 20 26 / -10 44 52 / 30 -40 -18 / -6 18 50 / 34 28 -18 / 36 -92 12 / -46 36 -6 / -14 24 64 / -16 -78 -32 / 16 -84 -36 / -12 2 0	FWE corr. at $p<0.05$, k≥10
Thye*, 2018	18	[20.2±1.4/18–24]	**Reading the Mind in the Eyes**	ToM>Control	-20 -80 30 / -4 -14 4 / -10 16 44 / -48 10 16 / -52 -52 12 / 24 -56 50 / 30 -4 48 / 30 18 12 / -2 -78 4 / -18 -30 -8 / -50 18 24 / -6 20 44 / -6 -14 4 / 14 -22 4 / -52 -70 14 / 46 -74 10 / 52 -10 -18 / -12 -58 12 / -36 14 30 / 56 24 18 / -40 -42 -16 / -38 2 60 / 38 -46 -18 / 40 10 58 / -26 22 -2	FWE Monte Carlo simulation corr. at $p<0.05$, k≥76
Tsoi*, 2018	25	[28.6±10.1/18–50]	**Pain/harm in others**	Psychological >Physical harm	-3 -55 31 / 3 56 22 / -3 47 -11 / -9 62 31 / -57 -10 -23 / 45 -64 31	FDR cluster-level corr. at $p<0.05$
Wurm*, 2018	18	[25/22–28]	**Action identification (images)**	3rd person perspective>1st person perspective	2.43 -90.32 0.95	Monte Carlo simulation corr. at $p<0.05$
Zhang*, 2018	58	[20.4±1.6/NA]	**Ambiguous ToM reading**	Ambiguous preference reasoning>Unambiguous preference reasoning	-45 24 30 / -45 6 54 / 0 18 54	$p<0.001$ uc, k≥40
Greven*, 2019	25	[21.1±4.8/NA]	**Body judgement of others**	Obese>Slim	42 2 -38 / -45 2 -38 / -9 53 10 / -6 44 28	$p<0.001$ uc, k≥5
Lassalle*, 2019	20	[24.2±7.6/NA]	**Pain/harm in others**	Painful>Neutral	-6 -90 -4 / 16 -64 -4 / -8 -86 -6 / -26 -70 -6 / -22 -88 24 / -4 -32 -4 / 8 -84 14 / 12 -84 32 / -18 -28 0 / -2 -56 6 / -30 -54 -8 / 16 -40 2 / -2 -42 30 / 18 -28 -8 / -12 -40 -6 / -8 2 10 / 4 48 32 / 0 50 34 / 8 66 14 / -4 62 16 / 2 54 16 / 0 52 12 / -6 34 22 / 4 46 -16 / 4 20 -22 / -4 20 -24 / -54 24 10 / -46 22 -12 / -42 8 32 / -50 38 6 / -28 26 -2 / -52 18 -16 / -40 -52 16 / -56 -48 32 / -44 -54 26 / -44 -	FWE corr. at $p<0.05$

						54 6	
Zhu*, 2019	30	[21.6±2.4]	**Guilt/shame in others**	Guilt>Happiness/Shame>Happiness	-9 51 21 / -30 18 -12		FWE corr. at $p<0.05$

*=only first authors are listed, N=number of participants, SD=standard deviation, MNI=Montreal Neurological Institute, ToM=Theory of Mind, †=correction is not accounted for in the resulting meta-analysis, Frith-Happé=Frith-Happé animations or adaptations, ToM cartoon=comics or cartoons eliciting mentalizing, ToM reading=sentences or statements eliciting mentalizing, ToM faces=images of faces showing an intention or affective state, ToM movie=movie clips eliciting mentalizing, uc=uncorrected, SVC=small volume correction, FWE=family-wise error rate, FDR=false discovery rate, k=number of voxels in cluster.

Supplementary Information 3. List of publications including number of subjects (N), mean age of participants, task type, contrast, MNI coordinate reports and *p* value/correction of the studies that entered the meta-analysis in children/adolescents.

First author, year	N	Age [mean age ±SD/range in years]	Task type	Contrast	MNI coordinates	*p* value, correction†
Ohnishi*[1], 2004	11	[10.0/7–13]	**Frith–Happé**	ToM animation>Control	5.48 63.63 17.04 / 40.21 22.27 20.54 / 65.06 -37.8 8.13 / 53.33 -41.06 19.86 / 63.08 -47.4 20.32 / 56.1 -22.68 -13.38 / 49.36 3.81 -28.21 / 52.88 -54.26 -18.05 / -64.46 -50.5 17.2 / -48.59 -58.36 -10.31 / 36 -95.1 5.33 / 35.98 -95.2 4.22 / -22.79 -85.56 -27.11	*p*<0.05 uc
Wang*[1], 2006	12	[11.9±1.8/9–14]	**Irony**	Irony>Control	-61.48 -21.75 3.1 / 63.98 -33.44 8.84 / -46.78 14.52 -23.16 / -1.44 47.21 -20.44	SVC at p<0.05, k≥37
Blakemore*[2], 2007	19	[14.8/12–18]	**ToM reading**	ToM statements>Physical causality	-6 -51 33 / -45 -60 24 / -45 -72 36 / 48 -63 21 / 0 54 21 / -57 -12 -24 / -45 9 -42 / 48 18 -36 / 0 57 -9	Random fields theory corr. or SVC at p<0.05
Kobayashi*[1], 2007	24	[9.1±1.2/8–11]	**False belief**	False belief>Physical causality	-50 -20 -19 / -2 -80 39 / 28 54 -11 / -20 54 -8	*p*<0.005 uc
Moriguchi*[2], 2007	16	[13.4±2.2/9–16]	**Frith–Happé**	ToM animation>Control condition	56.34 -48.23 .35 / -53.7 -48.54 14.58 / 35.26 4.41 -32.52 / 16.09 69.87 2.79 / 5.56 57.66 22.11 / -58.55 -15.3 -20 / -24.95 -87.69 -26.86 / 54.99 35.03 -4.51 55.6 16.65 39.88 / -44.06 11.03 19.73 / 7.96 43.07 38.08 / -35.41 -95.02 -1.3 / 12.58 -48.8 42.61/ 16.25 15.31 4.83 / -44.35 -54.61 -16.36 / 8.56 -54.28 -17.97 / 18.22 12.8 -10.65	*p*<0.001 uc, k≥50
Pfeifer*[1], 2007	12	[10.2/9–10]	**Self-referential thinking (auditory)**	Self>Social knowledge	5.32 64.61 4.62 / 9.54 61.67 -4.13 / -24.95 62.17 3.13 / -14.14 53.49 1.57 / -1.21 40.15 -4.06	*p*<0.005 uc, k≥10
Burnett*[2],	19	[14.8/11–18]	**Guilt/emb**	Social (guilt/	-10 52 18 / -6 62 22 / -4	SVC at

2008			**arrassement in others or self**	embarrasement) >Basic emotion (disgust/fear)	50 28 / -18 42 16 / -4 52 -8 / -16 48 34 / -4 -56 28 / 14 -56 34 / -4 -62 40 / -38 -66 42 / -48 -62 36 / -38 -62 32 / 44 -48 28	p<0.05
Decety*[1], 2008	17	[9.0/7–12]	**Pain in others**	Pain>No pain (body parts)	8 58 2 / -2 34 -24 / 31 29 -1 / 48 -52 -10	*p*<0.005 uc, k≥8
Kobayashi*[1], 2008	12	[10.1±1.0/8–11]	**False belief**	False belief>Physical causality	3.09 56.43 -2.38 / 11.84 72.6 9.32	*p*<0.005 uc
Pfeifer*[2], 2009	12	[12.7/11–13]	**Self-referential thinking (auditory)**	Self>Social knowledge	-68.03 -17.93 -1.65 / 61.61 -8.76 -2.53 / -59.29 -34.71 2.1 / 63.62 -20.84 -17.05 / 40.21 -33.53 9.25 / -44.6 18.99 -21.39 / -57.4 26.78 -6.26 / 46.2 26.31 -16.94 / -61.55 28.01 7.14 / 57.16 23.14 -5.61 / -50.64 13.57 12.86 / -14.12 69.01 6.76 / -7.43 59.64 21.02 / -7.24 54.51 34.97 / -4.85 32.15 48.34 / 7.9 37.13 31.95 / -6.84 -49.72 45.27 / -63.2 -62.22 29.54 / -50.03 -19.06 54.18 / -33.69 19.86 -12.7 / -20.51 14.98 3.25 / -3.14 0.35 6.64 / -45.88 10.32 46.72 / 33.35 -69.2 -27.44	Corr. at p<0.05
Saxe*[1], 2009	13	[8.7/6–10]	**Auditory ToM**	Mental state stories>Physical facts	53 -56 24 / -40 -57 29 / 0 -57 36 / 1 60 19	*p*<0.001 uc, k≥5
Sommer*[1], 2010	10	[11.3±0.7/10–12]	**False belief**	False>True belief	-2 16 36 / 8 14 54 / 42 12 16 / 2 -34 12	Cluster-level corr. or SVC at p<0.01
Gweon*[1], 2012	20	[8.5/5–11]	**ToM reading**	ToM statements>Physical causality	56 -54 34 / -48 -60 30 / -8 -52 36 / 12 30 62 / 0 54 22 / 52 12 -26	Monte-Carlo simulation corr. at p<0.05, k≥200
Schulte-Rüther*[2], 2012	21	[15.8±1.9/12–18]	**Frith–Happé**	ToM animation>Control	52 -16 -12 / -58 -52 -8 / 56 4 -24 / -48 -50 22 / 56 -34 -4 / -48 -60 16 / -54 -4 -18 / 64 -42 12 / 50 -56 20 / -58 -52 8 / 54 -46 24 / -48 -60 16 / 50 -56 20 / -40 -54 18 / 42 18 -32 / -42 12 -34 / -36 18 -36 / -42 -18 -34 / -46 -46 -20 / 48 -44 -22 / 42 -14 -36 / 4 -54 34 / 6 54 18 / 8 52 38 /	Voxel-level FWE corr., k≥30

					0 50 -26 / 10 38 52 / 8 18 62 / 26 24 40 / 46 6 46 / 26 24 40 / 52 32 -2 / 56 30 12 / -50 18 20 / -46 32 -6 / 16 -78 -44 / 24 -78 -36 / -20 -74 -34 / -24 -80 -38 / -24 -4 -28 / -18 -6 -22 / 20 -6 -18 / -6 -10 0 / 8 -10 4	
Sebastian*[2], 2012	47	[14.1±1.7/10–16]	**False belief**	Affective Theory of Mind>Physical causality Cognitive Theory of Mind>Physical causality	46 12 -32 / 2 54 -8 / -38 16 -32 / -46 -56 22 -28 -42 -4 / 50 0 28 / 52 -62 22 / -56 0 -24 / -40 -58 20 / 4 56 -8 / 2 -48 26 / 24 30 40 / 18 -38 -10 / -14 38 32	Cluster-level FWE corr. at p<0.05
Yokota*[1], 2013	28	[8.9/8–9]	**ToM cartoon**	Social>Less social	8 -64 48 / 2 -56 48 / 24 -58 30	Cluster-level FWE corr. at p<0.05
O'Nions*[2], 2014	48	[13.9±1.7/10–16]	**False belief**	Cognitive ToM>Control	50 -58 18 / -36 -54 15 / -44 -60 18 / -30 -42 -8 / 58 4 -20 / 54 0 -26 / 48 -8 -26 / -60 -2 -20 / -14 -58 16 / 0 -50 22	Peak-level FWE corr. at p<0.05
Overgaauw*[2], 2015	32	[15.5/12–19]	**Reading the Mind in the Eyes**	Mental state>Control	-48 24 -3 / -54 18 18 -54 24 6 / -9 54 36 / 9 57 33 / 48 -39 3 / 57 24 6 / -57 -6 -12 / 51 12 -24	FDR corr. at p<0.05, k≥10
White*[2], 2014	33	[13.7/11–17]	**False belief**	Cognitive ToM>Control	12 56 31 / 3 -55 31 / -45 -37 4 / 57 -25 -2	FWE corr. at p<0.05
Kana*[2], 2015	13	[12.7/10–15]	**Frith–Happé**	ToM animation>Control	-7 49 19 / -52 -57 28 / -40 4 37 / 42 22 -9 / 30 -81 -27 / 3 -63 43 / 42 25 34 / -13 7 19 / 42 -57 37	Monte-Carlo simulation corr. at p<0.05, k≥100
Alkire*[1], 2018	28	[10.4±1.5/8–12]	**Predict peer strategy during game**	Mental state prediction>Control	52 18 -20 / 54 -40 2 / -50 10 -18 / -39 18 -18 / -58 -23 -2 / 5 56 21 / -56 -48 29	Cluster-level corr. at p<0.05, k≥86
Mukerji*[1], 2019	32	[11.1±1.4/9–12]	**False belief**	False belief>False photograph	60 -52 25 / 54 -1 -20 / -3 -55 37 / -54 -61 22 / -54 -2 -23 / 21 38 52 / 3 -1 -11 / 3 56 16 / 3 50 -17	p<0.001 uc, k≥10 or FWE corr. at p<0.05

*=only first authors are listed, N=number of participants, SD=standard deviation, ToM=Theory of Mind, †=correction is not accounted for in the resulting meta-analysis, Frith-Happé=Frith-Happé animations or adaptations, ToM cartoon=comics or cartoons eliciting mentalizing, ToM reading=sentences or statements

eliciting mentalizing, uc=uncorrected, corr.=corrected, SVC=small volume correction, FWE=family-wise error rate, k=number of voxels in cluster. [1]studies entering the subgroup analyses in children, [2]studies entering the subgroup analyses in adolescents.

Supplementary Information 4. Individual steps for meta-analytic connectivity modelling.

Connectivity modelling in adults included the described steps. **1.** 5mm-spheres around the weighted centers of significant clusters identified through our meta-analysis in adults were built using the MarsBaR toolbox (Brett, Anton, Valabregue, & Poline, 2002) for bilateral superior/middle temporal gyri (-54 -39 6, 54 -32 2), middle medial (-1 54 20), medial superior (-5 19 56), middle (-43 5 51, 44 9 45) and inferior frontal gyri (-48 24 3, 50 26 7) and precuneus (1 -55 35). All ROIs met the requirement of a maximum ROI volume of 5000mm^3. **2.** ROIs were exported as images with a voxel size of 1x1x1mm and individually inputted into Sleuth 3.0.3 (http://brainmap.org/sleuth). **3.** Coordinate searches were conducted for each ROIusing the BrainMap database (Fox & Lancaster, 2002), including only fMRI studies with non-clinical participants. **4.** The resulting coordinates for each of the ROIs were pooled into one common dataset. **5.** Finally, all coordinates were combined through two independent coordinate-based meta-analyses: A first analysis for which all duplicates between the meta-analysis in adults and the BrainMap search findings were omitted (i.e., studies investigating mentalizing in adults that were already included in our own meta-analyses). For the second analysis, all paradigms of the BrainMap database entered the analysis (including Theory of Mind/mentalizing tasks). **6.** Connectivity analyses for each of the 9 ROIs individually based on all paradigms in the BrainMap database were repeated to report which specific region was co-activated with any other area in the brain.

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Supplementary Information 5. Meta-analytic results for studies in adults, developmental samples (children/adolescents), and the conjunction (⋂) of study findings in adults and children/adolescents with more restrictive criteria, i.e., including Theory of Mind tasks only. Adults: 3796 subjects, 145 experiments, 2074 foci; children/adolescents: 340 subjects, 15 experiments, 150 foci.

Cluster	Region	Hemi	Volume	Weighted centre			Local maxima			BA	ALE extrema
Adults				x	y	z	x	y	z		
1	Superior/middle temporal gyrus, angular gyrus	L	24112	-54	-42	7	-52	-58	24	39	0.15398
							-56	-52	6	22	0.07524
							-56	-48	14	22	0.07219
							-54	-4	-20	21	0.06883
							-52	-34	-4	21	0.06488
							-52	2	-28	21	0.05822
							-62	-18	-12	21	0.05545
							-48	8	-38	21	0.04040
							-48	-68	38	39	0.03181
2	Superior/middle temporal gyrus	R	21624	55	-33	3	56	-54	26	39	0.12481
							56	-54	18	39	0.12227
							60	-8	-18	21	0.09391
							54	-2	-22	21	0.09318
							52	-36	-2	–	0.05604
							46	14	-34	38	0.05479
							50	8	-30	21	0.05241
							50	-70	10	37	0.03664
3	Medial superior frontal gyrus	L/R	11072	-1	56	27	-6	56	34	8	0.09740
							4	60	18	9	0.06627
4	Precuneus	L	9168	0	-56	36	-2	-54	36	31	0.12229
5	Inferior frontal gyrus	L	8432	-49	24	6	-54	24	8	45	0.07429
							-48	28	-8	47	0.07391
							-50	18	22	9	0.05287
							-42	10	26	9	0.04428
							-32	22	-16	47	0.02940
6	Middle/inferior frontal gyrus	R	6728	51	27	8	56	28	8	45	0.09049
							52	30	-4	45	0.06508
							48	22	24	46	0.05242
							54	24	26	9	0.04999
							36	26	-12	47	0.03901
7	Superior frontal gyrus	L	4872	-5	18	55	-4	18	48	6	0.06836
							-6	30	56	6	0.04049
8	Medial frontal gyrus	L/R	2584	1	51	-14	0	46	-18	10	0.05410
							2	54	-12	10	0.05009
9	Pyramis (brainstem)	L	1936	-24	-78	-36	-24	-78	-36	–	0.07930
10	Middle frontal gyrus	L	1920	-43	7	52	-44	8	52	6	0.05545
Children/adolescents											

1	Middle temporal gyrus	L	2144	-44	-57	21	-42	-58	20	22	0.01936
							-48	-58	28	39	0.01439
2	Medial superior frontal gyrus	R	2136	5	57	23	4	56	20	9	0.02803
							10	56	32	8	0.01774
3	Superior/middle temporal gyrus	R	1968	52	9	-25	52	12	-24	38	0.01931
							54	2	-26	21	0.01761
4	Cingulate gyrus, posterior cingulate gyrus	L	1136	2	-53	30	2	-54	32	31	0.01900
							2	-50	24	30	0.01555
5	Superior temporal gyrus	R	928	51	-58	21	50	-58	20	22	0.02305
6	Middle temporal gyrus	L	728	-57	-3	-19	-58	-2	-20	21	0.01704
Conjunction: Adults ∩ children/adolescents											
1	Middle temporal gyrus	L	1896	-45	-57	22	-42	-58	20	22	0.01936
							-48	-58	28	39	0.01439
2	Medial frontal gyrus	R	1728	4	57	22	4	56	20	9	0.02803
							10	58	32	9	0.01610
3	Superior/middle temporal gyrus	R	1448	51	8	-27	52	12	-24	38	0.01931
							54	2	-26	21	0.01761
4	Cingulate gyrus, posterior cingulate gyrus	L	952	2	-54	32	2	-54	32	31	0.01900
							2	-50	24	30	0.01555
5	Superior temporal gyrus	R	888	51	-58	21	50	-58	20	22	0.02305
6	Middle temporal gyrus	L	656	-57	-3	-19	-58	-2	-20	21	0.01704

H=Hemisphere, R=right; L=left, Vol=Volume in mm^3, x, y, z coordinates are in Montreal Neurological Institute (MNI) space, BA=Brodmann Area (if applicable).

Supplementary Information 6. Full list of references entering the meta-analysis in adults and children/adolescents in alphabetical order.

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Supplementary Information 7. Full list of meta-analytic contrast analyses for studies in adults compared to developmental samples (adults > children/adolescents) and developmental samples (children/adolescents) compared to adults (children/adolescents > adults).

Cluster	Region	H	Vol	Coordinates		
Adults > children/adolescents				x	y	z
1	Medial frontal gyrus, pre-supplementary motor area	L	2132	-2	58	32
2	Inferior parietal lobule, angular gyrus, supramarginal gyrus, temporoparietal junction	L	1925	-58	-54	22
3	Inferior parietal lobule, angular gyrus, middle remporal gyrus	R	1162	56	-52	16
4	Inferior frontal gyrus	R	919	58	32	4
5	Inferior frontal gyrus, frontal orbital cortex	L	825	-48	26	-12
6	Middle frontal gyrus	L	658	-42	8	52
7	Anterior middle temporal gyrus	R	528	58	-8	-18
8	Middle frontal gyrus	L	366	-43	5	51
9	Precuneus	R	309	4	-62	30
10	Middle frontal gyrus	R	163	40	8	38
11	Superior parietal lobule, intraparietal sulcus	L	161	-34	-54	40
12	Insula	L	156	-30	24	-6
13	Inferior lateral occipital cortex	R	155	32	-96	-10
14	Cerebellum (crus)	L	152	-28	-76	-34
15	Superior/middle frontal gyurs	L	134	-20	30	34
16	Thalamus	R	129	8	-24	-6
17	Anterior middle temporal gyrus	R	117	50	6	-38
18	Thalamus	L	116	-10	-18	2
19	Cerebellum	R	99	30	-82	-36

20	Posterior cingulate	L/R	90	0	-22	34
21	Posterior cingulate, precuneus	R	60	10	-50	32
22	Amygdala	R	54	24	0	-18
23	Fusifrom gyrus	R	43	42	-40	-20
24	Middle/inferior frontal gyrus	L	36	-46	20	24
25	Precuneus	L	36	-8	-66	50
26	Inferior medial frontal cortex	R	35	2	42	-16
27	Posterior cingulate cortex	L	34	-10	-44	34
28	Inferior parietal lobule, angular gyrus, supramarginalgyrus	R	29	52	-48	42
29	Middle/superior temporal gyrus	R	20	50	-30	-2
30	Inferior medial frontal cortex	R/L	13	0	58	-18
31	Superior temporal gyrus	L	13	-56	-2	-10
32	Inferior parietal lobule, angular gyrus	L	10	-58	-58	38
33	Precuneus	L	8	-8	-60	46
34	Inferior parietal lobule	L	5	-52	-64	42
35	Middle temporal gyrus	R	4	48	-26	-10
36	Posterior cingulate	L	4	-4	-44	28
37	Middle temporal gyrus	R	3	44	4	-28
38	Cerebellum	R	1	18	-78	-28
39	Superior temporal gyurs	L	1	-52	-6	-10
40	Medial frontal cortex	R	1	4	46	-6
41	Posterior cingulate	L	1	-8	-50	26
42	Posterior cingulate	R	1	2	-46	34
Children/adolescents > adults						
1	Medial superior frontal gyrus	R	353	2	56	20

2	Inferior parietal lobule angual gyrus	L	318	-42	-60	28
3	Precuneus, posterior cingulate gyrus	L/R	307	0	-50	28
4	Temporal pole, middle temporal gyrus	R	242	54	10	-22
5	Medial frontal gyrus, frontal pole	R	168	6	58	-4
6	Inferior parietal lobule, Angular gyrus	R	130	48	-60	20
7	Middle/superior temporal gyrus	L	129	-56	-2	-20
Conjunction: Adults ∩ children/adolescents						
1	Medial superior frontal gyrus	R/L	372	0	56	26
2	Inferior parietal lobule, angular gyrus	L	312	-50	-58	24
3	Precuneus, posterior cingulate gyrus	L	305	-2	-54	36
4	Middle/superior temporal gyrus	R	222	52	0	-24
5	Middle temporal gyrus	L	125	-56	-4	-20
6	Inferior parietal lobule, angular gyrus	R	120	54	-56	18
7	Medial frontal cortex	R/L	113	0	52	-12

H=Hemisphere, R=right; L=left, Vol=Volume in voxels, x, y, z coordinates are in Montreal Neurological Institute (MNI) space

Supplementary Information 8. Peak activation report from meta-analytic connectivity modeling for studies in adults, including all paradigms entered in the BrainMap database (including Theory of Mind tasks).

Cluster	Region	H	Vol	Weighted center			Local maxima			BA	ALE extrema
				x	y	z	x	y	z		
1	Middle/inferior frontal gyrus	L	39104	-45	16	20	-44	4	50	6	0.26564
							-48	26	2	45	0.21767
							-46	18	24	9	0.15410
2	Inferior/middle frontal gyrus, insula	R	28096	47	19	16	50	26	6	45	0.20219
							44	10	46	6	0.16541
							38	22	-6	–	0.13392
							46	18	-4	13	0.10398
							52	22	28	9	0.08950
							48	12	26	9	0.08514
							48	34	24	9	0.06140
3	Superior frontal gyrus	L	19824	-1	18	49	-4	18	54	6	0.27085
4	Middle/superior temporal gyrus	L	15248	-55	-38	6	-54	-40	6	22	0.27754
							-58	-6	-8	22	0.07838
							-48	-58	22	39	0.07804
							-54	-42	22	13	0.05940
5	Inferior/superior parietal lobule, supramarginal gyrus	L	8976	-35	-52	46	-32	-52	48	40	0.11232
							-46	-38	42	40	0.07785
6	Superior temporal gyrus	R	7808	56	-33	3	54	-32	2	22	0.19025
							64	-44	18	13	0.05737
							62	-16	0	22	0.05029
							58	-6	-2	22	0.04851
							60	-10	-12	22	0.04826
7	Thalamus, caudate	L	5488	-13	-5	8	-10	-14	6	–	0.08745
							-14	2	12	–	0.08191
8	Medial frontal gyrus	L	5272	-1	55	21	-2	54	20	9	0.15981
9	Caudate, putamen, thalamus	R	4616	16	-1	7	14	2	2	–	0.07023
							16	6	6	–	0.06836
							20	2	8	–	0.06770
							12	-14	8	–	0.06332
10	Superior/inferior parietal lobule	R	4104	34	-55	49	32	-56	48	7	0.09775
							28	-64	56	7	0.07472

H=hemisphere, R=right; L=left, Vol=volume in mm^3, x, y, z coordinates are in Montreal Neurological Institute (MNI) space, BA=Brodmann Area (if applicable).

Co-activation with 5mm spheres around bilateral superior/middle temporal gyri (-54 -39 6, 54 -32 2), medial middle (-1 54 20), medial superior (-5 19 56), middle (-43 5 51, 44 9 45), and inferior frontal gyri (-48 24 3, 50 26 7) and precuneus (1 -55 35).

Supplementary Information 9. Peak activation report from meta-analytic connectivity modeling for studies in adults for each ROI separately.

The cluster including left temporoparietal junction was co-activated with the right temporoparietal junction, medial superior frontal and cingulate gyri, left inferior/middle frontal and precentral gyri. The right temporoparietal junction was co-activated with the left temporoparietal junction and insula, left inferior frontal gyrus and medial superior frontal cortex. The medial middle frontal gyri were co-activated with the left temporoparietal junction, inferior frontal gyri/insula and precuneus. The left inferior frontal gyrus was co-activated with the medial superior frontal gyri, right inferior frontal gyrus/insula, and left middle frontal/precentral gyrus, temporoparietal junction and putamen. The left precuneus was co-activated with the middle and ventral regions of the medial prefrontal cortex and bilateral temporoparietal junction and middle temporal gyri. The right inferior/middle frontal gyrus was co-activated with the left inferior/middle frontal gyrus and insula. The left medial superior frontal gyrus was co-activated with the left cingulate and inferior/middle frontal gyrus, right insula and bilateral inferior/superior parietal lobule. The left middle frontal gyrus was co-activated with the right middle frontal gyrus, bilateral inferior frontal gyri, medial superior frontal cortex and right insula. The right middle frontal gyrus was co-activated with the left middle frontal gyrus, right superior temporal gyrus, bilateral inferior frontal gyri/insula and superior parietal lobule and medial superior/middle frontal and cingulate gyri.

Cluster	Region	H	Vol	Weighted center			Local maxima			BA	ALE extrema
C1: L superior/middle temporal gyrus (-54 -39 6)				x	y	z	x	y	z		
1	Middle temporal gyrus	L	8160	-55	-39	6	-54	-40	6	22	0.23062
2	Inferior frontal gyrus, precentral gyrus	L	5472	47	8	31	-46	8	32	9	0.03907
							-48	12	16	44	0.03680
							-44	0	50	6	0.02731
							-54	-2	40	6	0.02245
							-54	22	16	45	0.01822
3	Cingulate gyrus, superior frontal gyrus	L/R	2824	-3	22	42	-6	22	40	32	0.03224
							-4	20	48	6	0.03021
							6	24	36	32	0.01985
							10	30	34	32	0.01913
4	Inferior frontal gyrus	L	2624	-42	28	6	-44	26	8	45	0.02565
							-48	34	6	46	0.02319
							-32	28	0	45	0.02112
5	Middle/superior temporal	R	2128	60	-38	6	58	-40	2	22	0.02748

	gyrus										
							64	-38	12	22	0.02416
							64	-46	-4	–	0.01747
C2: R superior/middle temporal gyrus (54 -32 2)											
1	Middle/superior temporal gyrus	L	7992	-57	-36	7	-62	-34	4	22	0.03738
							-62	-14	4	22	0.03203
							-54	-48	4	22	0.03173
							-50	-42	16	13	0.02894
							-60	-10	14	42	0.02070
2	Superior/middle temporal gyrus	R	6232	54	-32	2	54	-32	2	22	0.16674
							70	-34	4	22	0.01937
3	Inferior/middle frontal gyrus, precentral gyrus	L	5536	-47	14	26	-44	14	22	9	0.03512
							-52	-6	46	4	0.02589
							-48	32	10	46	0.02322
							-52	12	36	9	0.02238
							-44	2	38	6	0.02149
							-48	6	48	6	0.01844
4	Insula, inferior frontal gyrus	R	3832	44	20	-3	38	22	-4	–	0.03700
							48	18	-6	13	0.03149
							46	28	2	13	0.02492
5	Superior/medial frontal gyrus	L/R	3416	-1	13	53	-2	18	48	6	0.03390
							-2	2	62	6	0.03311
							6	2	64	6	0.02055
6	Insula	L	1624	-35	22	0	-34	22	2	13	0.03244
7	Inferior parietal lobule, precuneus	L	1560	-32	-57	44	-34	-50	44	40	0.03030
							-28	-66	42	7	0.02543
C3: L/R middle medial/superior frontal gyrus (-1 54 20)											
1	Medial frontal gyrus	L/R	9528	-1	55	21	-2	54	20	9	0.14926
							4	56	40	8	0.02754
2	Cingulate gyrus	L	2616	0	-53	29	0	-52	28	31	0.03039
							0	-56	34	31	0.02968
3	Superior temporal gyrus	L	2080	-50	-62	27	-48	-60	26	39	0.02919
4	Inferior frontal gyrus, insula	L	2048	-42	21	-12	-46	24	-8	47	0.02391
							-40	18	-18	47	0.01832
							-34	22	-4	–	0.01696
C4: L inferior frontal gyrus (-48 24 3)											
1	Inferior/middle frontal gyrus, precentral gyrus, insula	L	18032	-48	20	11	-48	24	2	45	0.17577
							-50	14	28	9	0.04044
							-44	26	20	46	0.02620
							-42	0	44	6	0.02167
							-44	24	-16	47	0.01953
							-40	16	18	13	0.01853
2	Inferior frontal gyrus, precentral gyrus	R	6288	43	23	-2	48	26	4	13	0.04006
							36	24	-10	47	0.03423
							56	12	6	44	0.02119
3	Medial/superior frontal gyrus	L/R	3824	0	8	56	-4	4	60	6	0.03295

							6	8	58	6	0.02726
							4	12	54	6	0.02629
							-4	10	52	6	0.02550
4	Middle temporal gyrus	L	1920	-57	-44	8	-56	-44	8	22	0.03682
5	Medial frontal gyrus, cingulate gyrus	L/R	1776	1	25	43	-2	24	46	6	0.02305
							6	28	36	32	0.01778
							-6	30	38	32	0.01735
6	Caudate, putamen	L	1312	-18	3	5	-10	2	12	–	0.02113
							-22	0	4	–	0.01978
							-18	10	-2	–	0.01876
C5: L precuneus (1 -55 35)											
1	Precuneus, posterior cingulate gyrus	L	6544	0	-55	35	0	-56	36	7	0.21352
							-4	-56	18	23	0.01880
2	Superior temporal gyrus	L	4744	-49	-60	24	-48	-58	24	39	0.04790
3	Medial/superior frontal gyrus	L	4552	-3	54	23	-2	52	20	9	0.03388
							-12	56	30	9	0.02591
4	Superior temporal gyrus	R	3208	56	-54	22	58	-56	26	39	0.03401
5	Middle temporal gyrus	R	2648	55	-3	-25	58	-6	-24	21	0.03663
							52	2	-28	21	0.02366
							58	-16	-14	21	0.02116
6	Middle temporal gyrus	L	2392	-59	-15	-14	-56	-8	-18	21	0.02688
							-60	-24	-10	21	0.02527
7	Medial frontal gyrus	L	1936	1	47	-15	0	48	-18	10	0.02695
C6: R inferior/middle frontal gyrus (50 26 7)											
1	Inferior frontal gyrus	R	5400	50	26	7	50	26	8	45	0.16707
2	Inferior frontal gyrus	L	2072	-43	21	6	-44	22	6	45	0.03290
C7: L/R medial superior frontal gyrus (-5 19 56)											
1	Middle frontal gyrus	L	11792	-43	11	37	-46	16	26	9	0.05202
							-42	6	40	6	0.05166
							-32	6	60	6	0.03187
							-40	16	48	6	0.02931
							-26	10	54	6	0.02375
2	Superior frontal gyrus, cingulate gyrus	L/R	9800	-3	19	54	-4	18	56	6	0.22054
							-10	20	38	32	0.03230
							-6	28	34	32	0.02613
							8	28	42	32	0.02174
3	Superior/inferior parietal lobule	R	3280	39	-53	49	32	-58	50	7	0.02821
	lobule						42	-44	50	40	0.02473
							44	-50	44	40	0.02310
4	Inferior/superior parietal lobule	L	2064	-33	-56	49	-36	-58	50	7	0.03351
							-24	-64	48	7	0.01910
5	Insula	R	1624	36	24	-5	36	26	-6	13	0.03640
6	Inferior frontal gyrus	L	1088	-51	29	11	-52	30	12	46	0.03254
C8: L middle frontal gyrus											

(-43 5 51)											
1	Middle/inferior frontal gyrus, insula	L	17176	-45	11	33	-44	4	50	6	0.21126
							-50	14	16	44	0.05611
							-48	16	-2	13	0.03156
							-46	30	0	13	0.03001
							-46	22	-4	47	0.02833
							-50	30	-8	45	0.02481
2	Superior/medial frontal gyrus, cingulate gyrus	L/R	11592	0	16	48	-2	14	54	6	0.07056
							8	26	30	32	0.03199
							-4	-2	64	6	0.02506
							-2	28	34	32	0.02271
3	Middle/inferior frontal gyrus	R	2640	53	19	30	54	22	30	9	0.03565
							50	10	22	9	0.02106
4	Middle frontal gyrus	R	2360	46	4	48	46	4	48	6	0.03552
5	Sub-lobar	R	2000	39	20	-7	38	22	-8	47	0.03928
C9: R middle frontal gyrus											
(44 9 45)											
1	Middle frontal gyrus	R	6232	44	9	45	44	10	44	6	0.15708
2	Superior frontal gyrus, cingulate gyrus	L	4808	2	22	44	0	22	48	8	0.05690
							2	18	34	32	0.03795
3	Middle frontal gyrus, precentral gyrus	L	3616	-41	2	49	-42	4	46	6	0.05184
							-36	-2	52	6	0.04541
4	Inferior/middle frontal gyrus	R	3080	44	26	3	44	24	6	45	0.04305
							48	30	-4	47	0.02342
							50	38	8	46	0.01755
5	Insula	L	2024	-38	21	12	-38	22	14	13	0.04677
							-34	20	4	13	0.02308
6	Middle/superior frontal gyrus	R	2008	36	40	29	34	38	30	9	0.04745
							44	42	24	9	0.01984
7	Superior temporal gyrus, precentral gyrus	R	1904	55	-16	6	56	-20	2	41	0.03950
							54	-12	10	13	0.03427
8	Superior parietal lobule	L	1824	-26	-58	50	-30	-50	50	7	0.03387
							-24	-62	50	7	0.02663
9	Medial frontal gyrus	L	1520	2	5	59	2	4	58	6	0.05022
10	Superior parietal lobule	R	1288	32	-54	47	32	-54	48	7	0.04485
11	Precentral gyrus	L	1072	-36	30	32	-36	30	32	9	0.03808

C=Cluster, H=Hemisphere, R=right; L=left, Vol=Volume in mm^3, x, y, z coordinates are in Montreal Neurological Institute (MNI) space, BA=Brodmann Area (if applicable)