

S1 Table. Characterization of the articles (n=20) included for systematic review. (A) population, acquisition and analysis parameters; (B) experimental design, paradigm and stimuli.

A										
#	Article	Population	Sample size	Gender (M, F)	Age range (mean±SD)	System (Tesla)	Sequence	Analysis (software)	Template	Smoothing
1	Baron et al., 2011	Healthy controls	24	15M, 9F	19-29 (23)	3T Siemens Allegra	EPI (TR=2000 ms, TE=30 ms, flip angle=80°, matrix size=64x64); near whole brain coverage: 33 interleaved 3-mm axial slices	Analysis of Functional Neuro-images software (AFNI; Cox, 1996)	(Talairach, MNI)	6 mm
2	Bos et al., 2012	Healthy controls (placebo-controlled testosterone administration study)	16	16F	- (20.8±2.0)	3T Philips Achieva MRI scanner	3D PRESTO (T2*-weighted sagittal whole-brain images; TE=23 ms, TR=16 ms; FOV=224×224×136 mm; flip angle =9°); 2 runs of 450 scans with a volume acquisition time of 0.813 s, each volume: 39 sagittal slices; voxel size 3.5 mm isotropic.	SPM5	Talairach space (Talairach and Tournoux, 1998)	8 mm
3	Doallo et al., 2012	Healthy controls	12	4M, 8F	20-31 (-)	3T Tim Trio Siemens scanner	EPI (T2*-weighted; E=30 ms, TR=3 s, flip angle=87°, matrix=64x64; FOV=192 mm; voxel size=3x3x3 mm ³). 45 contiguous transversal slices covered the whole brain	SPM5	MNI	7 mm
4	Engell et al., 2007	Healthy controls	15	9M, 5F	- (22.4)	3T Siemens Allegra	EPI, (TR = 2000 msec, TE = 30 msec, flip angle = 90°, matrix size = 64 x 64). Near whole-brain coverage: 33 interleaved 3-mm axial slices	AFNI	MNI	6 mm

5	Freeman et al., 2014	Healthy controls	15 (exp. 2)	4M, 12F (1 was later excluded) (exp. 2)	18-35 (21.80) (exp. 2)	3T Philips Intera Achieva Scanner	EPI (TR=2000 ms, TE=35 ms); 35 interleaved oblique-axial slices (3x3x4mm ³ voxels; no slice gap) parallel to the AC-PC line	BrainVoyagerQX (Brain Innovation)	Talairach space (Talairach and Tournoux, 1998)	6 mm
6	Gordon et al., 2009	Healthy controls	6	4M, 2F	21-29 (23.7)	3T Siemens Magnetron Trio Scanner	TR=2750ms; TE=30ms; Flip Angle=90; FoV=192; Slice Thickness=2mm & 0.8mm gap; images were collected at a 30° angle to the AC-PC line to minimize distortion of ventral PFC and amygdala	FSL package of programs (Smith et al, 2004).	Talairach	-
7	Killgore et al., 2013	Healthy controls	39	22M, 17F	18-45 (29.9±8.6)	3T Tim Trio Siemens scanner	T2*-weighted (TR=3.0 s, TE=30 ms, flip angle=90° FoV=22.4; matrix: 64 × 64 acquisition); 43 transverse slices (3.5 mm thickness, 0 skip) using an interleaved sequence, 80 images collected per slice	SPM8	MNI	6 mm (resliced to 2×2×2 mm voxels)
8	Kim et al., 2012	Healthy controls	12	12M	- (23.4±2.13) (3 were later excluded)	3T Forte MRI scanner (ISOL Technology)	EPI (T2*-weighted EPIs with BOLD contrast; 64 × 64 voxels, TR=2000 msec, TE=30 msec, flip angle = 80°, 3×3 mm in-plane resolution, slice thickness = 4 mm, 24 oblique axial slices with no gap)	SPM2	MNI	6 mm
9	Kragel et al., 2014	Healthy controls (sample of adolescent females)	43	43F	10-20 (14.7)	3T General Electric MR 750 system	Sensitivity-encoded (SENSE) spiral-in pulse sequence along the axial plane (TR=2000 ms; TE=30 ms; matrix=64x128; alfa=70°; voxel size=3.8x3.8x3.8mm ³ ; 34 contiguous slices).	SPM8	MNI	4 mm

10	Mattavelli et al., 2012	Healthy controls	20	10M, 10F	18-35	3T HD MRI system with an eight channels phased array head coil	EPI (T2*-weighted with BOLD contrast; TR=3 s, TE=32.7 ms, flip-angle=90°, acquisition matrix 128x128, FOV=288x288 mm); whole head volumes: 38 contiguous axial slices, in-plane resolution of 2.25x2.25 mm and a slice thickness of 3mm; slices positioned for each participant to ensure optimal imaging of temporal lobe regions (including amygdala)	FSL-FEAT (FMRI Expert Analysis Tool)	MNI	6 mm
11	Pinkham et al., 2008a	Schizophrenia schizoaffective disorder (paranoid, non-paranoid), Autism spectrum disorder, Healthy controls	12	12M	18-35 (27.08±3.99)	3T Siemens Allegra	EPI (T2*-weighted images with BOLD contrast (2D; TR=2 s, TE=30 ms, flip angle=80, 32 transverse slices, voxel size= 3.8x3.8x3.8 mm, matrix=64x64; FOV=243x243)	SPM2 and the WFU Pick Atlas (Maldjian et al., 2003)	MNI	8 mm
12	Pinkham et al., 2008b	Schizophrenia schizoaffective disorder (paranoid, non-paranoid), Healthy controls	12	12M	18-35 (27.08±3.99)	3T Siemens Allegra	EPI (T2*-weighted with BOLD contrast; 2D; 32 transverse slices, voxel size 3.8x 3.8x3.8 mm, matrix = 64 x 64; FOV=243x243, TR=2 s, TE=30 ms, flip angle = 80)	SPM2	MNI	8 mm
13	Platek et al., 2008	Healthy controls	11	4M, 7F	- (-)	3T scanner	Rapid event-related fMRI (2x300 42 slice (10% gap) full brain coverage volumes; TR = 2.5, TE = 30 (ms), FoV= 19.2 cm, flip angle = 85)	FSL-FEAT	MNI	6 mm

14	Rule et al., 2013	Healthy controls	14	14F	- (-)	3T Siemens Tim Trio Scanner	EPI (T2*-weighted with BOLD contrast; TR=2,000 ms); 31 axial slices per whole-brain volume, 3-mm in-plane resolution, 4-mm thickness, 0-mm skip	SPM8	Talairach	8 mm
15	Ruz et al., 2011	Healthy controls	18	8M, 10F	20-31 (-)	3T Trio scanner	EPI (T2*-weighted; TR=2.1 s; TE=22 ms, flip angle=90°); 35 interleaved sagittal slices with a thickness of 4 mm, tilted 30° to the AC-PC line to optimize sensitivity to orbitofrontal cortex and medial temporal lobes covered the entire brain (64x64 matrix with a field of view of 192x192 mm, voxel size of 3x3x4 mm)	SPM5	MNI	8 mm ³
16	Said et al., 2009	Healthy controls	32	17M, 15F	- (22.8±6.8)	3T Siemens Allegra	EPI (TR = 2000 msec, TE = 33 msec, flip angle = 90°, matrix size, 64x64); whole brain coverage was achieved with 34 interleaved 3.6-mm axial slices with an interslice gap of 0.36 mm	AFNI, Analysis of Functional NeuroImages (Cox, 1996)	MNI	4-mm
17	Todorov et al., 2008	Healthy controls	14	7M, 7F	18-27 (-)	3T Siemens Allegra	EPI (TR=2000 ms, TE=30 ms, flip angle=80°, matrix Size=64x64). By using 33 interleaved 3-mm axial slices; near whole brain coverage	AFNI, Analysis of Functional NeuroImages (Cox, 1996)	Talairach	6mm
18	Tsukiura et al., 2013	Healthy controls	23	23F	- (23.8±2.2)	3T Philips Achieva scanner	EPI (BOLD contrast; 64x64 matrix, TR=2000ms, TE=30 ms, flip angle=70°, FOV=24 cm, 34 slices, 3.75mm slice thickness)	SPM8	MNI	8-mm
19	van Rijn et al., 2012	Klinefelter syndrome (KS);	18	18M	- (32.2±9.4)	1.5T Philips ACSNT	2D-EPI (BOLD contrast; TE=40 ms; TR=2500 ms;	SPM2	MNI	6mm

		Healthy controls				scanner	flip angle=90°; FoV=192x192 mm); each volume comprised 33 axial scans with 2.2mm slice thickness (and a gap of 0.8 mm); voxel size was 3mm isotropic			
20	Winston et al., 2002	Healthy controls	12	8M, 8F	18-30 (23.3)	2T Siemens VISION system	EPI (T2*-weighted images with BOLD contrast; TR=2.5 s); each volume comprised 33 × 2.2 mm axial scans with 3-mm in-plane resolution	SPM99	Talairach	8-mm

B

#	Article	Dimensions studied	Type of task <i>implicit, explicit (subliminal, supraliminal)</i>	Type of stimulus <i>neutral-emotional (real, avatar)</i>	Stimulus presentation	Paradigm	Baseline condition	Response type
1	Baron et al., 2011	Trustworthiness	Implicit (memory task – cover story) (supraliminal)	Neutral faces (with direct eye-gaze) (real faces)	static	Event-related	Fixation cross	Indicate whether or not they had seen the ‘test-image’ (Button press)
2	Bos et al., 2012	Trustworthiness	Explicit (trustworthiness judgements) and implicit (age judgements) tasks (supraliminal)	Neutral faces (real faces)	static	Event-related	Fixation cross	Button press
3	Doallo et al., 2012	Inhibitory control and emotional devaluation (trustworthiness)	Explicit (trustworthiness judgements) and implicit (ethnicity judgements) tasks (supraliminal)	Neutral faces (with direct eye-gaze) (real faces)	static	Event-related	Fixation cross	Button press (index or middle finger of the left or right hand)

4	Engell et al., 2007	Trustworthiness (idiosyncratic perception or consensus ratings)	Implicit (memory task/identity judgements) (supraliminal)	Neutral faces (with direct eye-gaze) (real faces)	static	Block-design	Fixation cross	Report whether the identity of the test face was the same as any of the faces in that block (Button press)
5	Freeman et al., 2014	Trustworthiness	Passive viewing (subliminal and supraliminal)	Neutral faces (with direct eye-gaze) (real faces, exp. 2)	static	Experiment 1 (block- design); Experiment 2 (event-related)	Fixation cross	Passive viewing
6	Gordon et al., 2009	Trust behaviour, Psychopathy, Machiavellianism	Implicit (gender judgements) (supraliminal)	Neutral faces (with direct eye-gaze) (real faces)	static	Event-related	Fixation cross	Make sex discrimination of a face while being scanned (Button press)
7	Killgore et al., 2013	Trustworthiness; Emotional intelligence	Passive viewing (supraliminal)	Faces (neutral, trustworthy, untrustworthy) (avatar faces)	moving	Block design	Fixation cross	Button press (dominant hand)
8	Kim et al., 2012	Trustworthiness; First impressions	Implicit (Ultimatum game) (supraliminal)	Neutral faces (with direct eye-gaze) (real faces)	static	Event-related	Fixation cross	Accept or reject the offer (Button press)
9	Kragel et al., 2014	Trustworthiness; Age-related changes	Explicit (trustworthiness judgements) (subliminal and supraliminal)	Neutral faces (with direct eye-gaze) (real faces)	static	Event-related	Fixation cross	Four symbols ('--', '-', '+', '++') prompting for a response ranging from low to high trustworthiness (Button press)
10	Mattavelli et al., 2012	Trustworthiness	Explicit (trustworthiness judgements) and implicit (gender judgements) tasks (supraliminal)	Faces (varied in pose, age and expression) (real faces)	static	Block design	Fixation cross	Instructed to look at the stimuli and press with the right index finger a whenever they saw the red spot (Button press)

11	Pinkham et al., 2008a	Trustworthiness	Explicit (trustworthiness judgements) and implicit (age judgements) tasks (supraliminal)	faces taken from the Trustworthiness/ Approachability Task (Adolphs et al., 1998). Neutral faces (with direct eye-gaze) (real faces)	static	Event-related	Fixation cross	Button press
12	Pinkham et al., 2008b	Trustworthiness	Explicit (trustworthiness / approachability task) (supraliminal)	Neutral faces (with direct eye-gaze) (faces taken from the Trustworthiness/ Approachability Task (Adolphs et al., 1998)) (real faces)	static	Event-related	Fixation baseline	Button press
13	Platek et al., 2008	Trustworthiness	Implicit (gender and ethnicity judgements) (supraliminal)	Neutral faces (with direct eye-gaze) (real faces)	static	Event-related	A jittered ISI with null events consisting of scrambled luminance matched faces	Response in the period 2000s following stimulus; participants were instructed not to respond to the null event (Button press)
14	Rule et al., 2013	Trustworthiness	(study 5 – fMRI) Implicit (face symmetry judgements) (supraliminal)	Neutral faces (with direct eye-gaze) (real faces)	static	Event-related	Fixation cross	Button press
15	Ruz et al., 2011	emotional conflict (given by trustworthiness profiles)	Explicit (Ultimatum game – the partner was signaled/cued as trustworthy or as untrustworthy)	Karolinska Directed Emotional Faces database (happy, angry)	static	Event-related	Fixation point	Accept or reject the offers (index and middle fingers of their right hand) (Button press)

		during interpersonal interactions	(supraliminal)	(real faces)				
16	Said et al., 2009	Trustworthiness	Explicit (trustworthiness judgements)	Neutral faces (with direct eye-gaze)	static	Event-related	Fixation cross	Button press
			(supraliminal)	(real faces)				
17	Todorov et al., 2008	Trustworthiness; Valence (avoidance - approach) evaluation	Implicit (memory task/identity judgements – cover story)	Faces (neutral, trustworthy, untrustworthy)	static	Event-related	Fixation cross (12-s)	Button press
			(supraliminal)	(avatar faces)				
18	Tsukiura et al., 2013	Trustworthiness	Explicit (rate personality goodness on the basis of trustworthiness)	Neutral male faces (with direct eye-gaze)	static	Event-related	Fixation interval	Button press (8-button response box)
			(supraliminal)	(real faces)				
19	van Rijn et al., 2012	Trustworthiness	Explicit (trustworthiness judgements) and implicit (age judgements) tasks	Neutral faces (with direct eye-gaze)	static	Block-design	Baseline blocks (45 s)	Button press
			(supraliminal)	(real faces)				
20	Winston et al., 2002	Trustworthiness	Explicit (trustworthiness judgements) and implicit (School-University[age] judgements) tasks	Neutral faces (although screened with happy, sad, angry, disgust, fear, surprise ratings)	static	Event-related	Fixation cross	Button press
			(supraliminal)	(real faces)				

Legend: -, missing information; M, males, F, females; BOLD, blood oxygenation level-dependent; FOV, field of view; EPI, echo-planar functional imaging; TE, echo time; TR, repetition time.