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**Functional neuroanatomy of emotion: a meta-analysis of emotion activation studies in PET and fMRI**

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1899	The facilitative effect of positive stimuli on 3-year-olds' flexible rule use. <b>2007</b> , 22, 456-473		48
1898	Modification of N170 by different emotional expression of schematic faces. <b>2007</b> , 76, 156-62		97
1897	Heart rate response after emotional picture presentation is modulated by interoceptive awareness. <b>2007</b> , 63, 117-24		142
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1888	Overt and imagined singing of an Italian aria. <i>NeuroImage</i> , <b>2007</b> , 36, 889-900	7.9	122
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1885	I'm not as slim as that girl: neural bases of body shape self-comparison to media images. <i>NeuroImage</i> , <b>2007</b> , 37, 674-81	7.9	63
1884	Waiting for spiders: brain activation during anticipatory anxiety in spider phobics. <i>NeuroImage</i> , <b>2007</b> , 37, 1427-36	7.9	229
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1276	Altered amygdala resting-state functional connectivity in post-traumatic stress disorder. <b>2011</b> , 2, 62	166
1275	Emotionen und Altern. <b>2011</b> , 20, 159-169	
1274	Film excerpts shown to specifically elicit various affects lead to overlapping activation foci in a large set of symmetrical brain regions in males. <b>2011</b> , 6, e22343	31

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1272	Proposed model of the neurobiological mechanisms underlying psychosocial alcohol interventions: the example of motivational interviewing. <b>2011</b> , 72, 903-16	43
1271	Neural basis of pleasant and unpleasant emotions induced by social reputation. <b>2011</b> , 22, 679-83	7
1270	Neurotransmitter Imaging: Basic Concepts and Future Perspectives. <b>2011</b> , 7, 98-103	12
1269	Reason, emotion, and the problem of world poverty: moral sentiment theory and international ethics. <b>2011</b> , 3, 143-178	27
1268	The Neurocircuitry of Fear, Stress, and Anxiety Disorders. <b>2011</b> , 9, 311-334	7
1267	Emotion processing, major depression, and functional genetic variation of neuropeptide Y. <b>2011</b> , 68, 158-66	85
1266	Extraversion and its positive emotional core--further evidence from neuroscience. <b>2011</b> , 11, 367-78	24
1265	Computer theory and digital image processing applied to brain activation recognition. <b>2011</b> , 18, 157-166	3
1264	Brain Substratum Of Pathogenic Neurotic Belief In Panic Disorder: A Single Case Study. <b>2011</b> , 53, 159-165	
1263	On the relationship between interoceptive awareness and alexithymia: is interoceptive awareness related to emotional awareness?. <b>2011</b> , 79, 1149-75	253
1262	Development of neural systems for processing social exclusion from childhood to adolescence. <b>2011</b> , 14, 1431-44	71
1261	DEVELOPING THE CAPACITY TO CONNECT. <b>2011</b> , 46, 168-182	9
1260	Recognition of human emotions from cerebral blood flow changes in the frontal region: a study with event-related near-infrared spectroscopy. <b>2011</b> , 21, e94-101	80
1259	Advances in bipolar disorder: selected sessions from the 2011 International Conference on Bipolar Disorder. <b>2011</b> , 1242, 1-25	14
1258	The Greatest Gift? Happiness, Governance and Psychology. <b>2011</b> , 5, 840-852	15
1257	Neural activation toward erotic stimuli in homosexual and heterosexual males. <b>2011</b> , 8, 3132-43	30
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1254	Impaired recognition of fear in voices and reduced anxiety after unilateral temporal lobe resection. <b>2011</b> , 49, 618-29	31
1253	Grounding emotion in situated conceptualization. <b>2011</b> , 49, 1105-1127	280
1252	Reprint of: fMRI studies of successful emotional memory encoding: a quantitative meta-analysis. <b>2011</b> , 49, 695-705	36
1251	Understanding facial emotion perception in Parkinson's disease: the role of configural processing. <b>2011</b> , 49, 3295-302	37
1250	Effects of gustatory stimulation on brain activity during hunger and satiety in females with restricting-type anorexia nervosa: an fMRI study. <b>2011</b> , 45, 395-403	58
1249	Social appraisal in chronic psychosis: role of medial frontal and occipital networks. <b>2011</b> , 45, 526-38	29
1248	Functional neuroimaging of emotionally intense autobiographical memories in post-traumatic stress disorder. <b>2011</b> , 45, 630-7	82
1247	Repetitive transcranial magnetic stimulation influences mood in healthy male volunteers. <b>2011</b> , 45, 1178-83	17
1246	The influence of emotional distraction on verbal working memory: an fMRI investigation comparing individuals with schizophrenia and healthy adults. <b>2011</b> , 45, 1184-93	29
1245	Brain activation predicts treatment improvement in patients with major depressive disorder. <b>2011</b> , 45, 1214-22	41
1244	Blunted autonomic reactivity and increased pain tolerance in somatoform patients. <b>2011</b> , 152, 2157-2164	25
1243	Failure to segregate emotional processing from cognitive and sensorimotor processing in major depression. <b>2011</b> , 193, 144-50	15
1242	The attenuation of dysfunctional emotional processing with stimulant medication: an fMRI study of adolescents with ADHD. <b>2011</b> , 193, 151-60	69
1241	Neural correlates of emotional recognition memory in schizophrenia: effects of valence and arousal. <b>2011</b> , 194, 245-256	25
1240	Using Gaussian-process regression for meta-analytic neuroimaging inference based on sparse observations. <b>2011</b> , 30, 1401-16	18
1239	Cross-emotion facial expression aftereffects. <b>2011</b> , 51, 1889-96	17
1238	The basic neuroscience of emotional experiences in mammals: The case of subcortical FEAR circuitry and implications for clinical anxiety. <b>2011</b> , 129, 1-17	37

1237	Effects of spatial frequency and location of fearful faces on human amygdala activity. <b>2011</b> , 1371, 87-99	20
1236	The functional correlates of face perception and recognition of emotional facial expressions as evidenced by fMRI. <b>2011</b> , 1393, 73-83	40
1235	Neural correlates of emotion-cognition interactions: A review of evidence from brain imaging investigations. <b>2011</b> , 23, 669-694	260
1234	Converging evidence for the advantage of dynamic facial expressions. <b>2011</b> , 24, 149-63	101
1233	Changes in SWB following injury to different brain lobes. <b>2011</b> , 20, 629-41	1
1232	ALE meta-analysis on facial judgments of trustworthiness and attractiveness. <b>2011</b> , 215, 209-23	117
1231	Women's sexuality, well-being, and the menstrual cycle: methodological issues and their interrelationships. <b>2011</b> , 40, 755-65	22
1230	Incorporating emotions specific to the sexual response into theories of emotion using the Indiana Sexual and Affective Word Set. <b>2011</b> , 40, 59-78	11
1229	BrainKnowledge: a human brain function mapping knowledge-base system. <b>2011</b> , 9, 21-38	1
1228	Behavioral variant frontotemporal dementia with corticobasal degeneration pathology: phenotypic comparison to bvFTD with Pick's disease. <b>2011</b> , 45, 594-608	35
1227	Facial emotion processing in major depression: a systematic review of neuroimaging findings. <b>2011</b> , 1, 10	269
1226	Neural basis of affect and emotion. <b>2011</b> , 2, 656-665	9
1225	Brain activity associated with graphic emoticons. The effect of abstract faces in communication over a computer network. <b>2011</b> , 177, 36-45	8
1224	Deontological and altruistic guilt: evidence for distinct neurobiological substrates. <b>2011</b> , 32, 229-39	85
1223	Anxiety positive subjects show altered processing in the anterior insula during anticipation of negative stimuli. <b>2011</b> , 32, 1836-46	80
1222	Imaging the anxious brain--promise or hubris?. <b>2011</b> , 28, 183-5	
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1220	Brain imaging of the self--conceptual, anatomical and methodological issues. <b>2011</b> , 20, 52-63	96

1219	Enhanced right amygdala activity in adolescents during encoding of positively valenced pictures. <b>2011</b> , 1, 88-99	26
1218	There is more than the amygdala: potential threat assessment in the cingulate cortex. <b>2011</b> , 35, 1007-18	61
1217	Is there a core neural network in empathy? An fMRI based quantitative meta-analysis. <b>2011</b> , 35, 903-11	588
1216	Common and distinct networks underlying reward valence and processing stages: a meta-analysis of functional neuroimaging studies. <b>2011</b> , 35, 1219-36	644
1215	Change in regional cerebral function in l'aquila earthquake survivors with post-traumatic stress disorder: preliminary findings. <b>2011</b> , 24, 71-6	1
1214	Structural neuroanatomy of face processing in frontotemporal lobar degeneration. <b>2011</b> , 82, 1341-3	54
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1212	Mine and me: exploring the neural basis of object ownership. <b>2011</b> , 23, 3657-68	61
1211	Watching my mind unfold versus yours: an fMRI study using a novel camera technology to examine neural differences in self-projection of self versus other perspectives. <b>2011</b> , 23, 1275-84	78
1210	Stop looking angry and smile, please: start and stop of the very same facial expression differentially activate threat- and reward-related brain networks. <b>2011</b> , 6, 321-9	39
1209	Alexithymia in neurodegenerative disease. <b>2011</b> , 17, 242-50	51
1208	Affective cognition and its disruption in mood disorders. <b>2011</b> , 36, 153-82	217
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1206	Three Time Scales of Neural Self-Organization Underlying Basic and Nonbasic Emotions. <b>2011</b> , 3, 416-423	30
1205	Neuroimaging social emotional processing in women: fMRI study of script-driven imagery. <b>2011</b> , 6, 375-92	35
1204	Effective connectivity during processing of facial affect: evidence for multiple parallel pathways. <b>2011</b> , 31, 14378-85	79
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1202	Ventrolateral prefrontal cortex and the effects of task demand context on facial affect appraisal in schizophrenia. <b>2011</b> , 6, 66-73	19



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1200	Forming a negative impression of another person correlates with activation in medial prefrontal cortex and amygdala. <b>2011</b> , 6, 516-25	2
1199	Add a picture for suspense: neural correlates of the interaction between language and visual information in the perception of fear. <b>2011</b> , 6, 404-16	19
1198	Neural substrates of affective face recognition in alexithymia: a functional magnetic resonance imaging study. <b>2011</b> , 63, 119-24	17
1197	Altered timing of amygdala activation during sad mood elaboration as a function of 5-HTTLPR. <b>2011</b> , 6, 270-6	31
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1191	Allostasis and the developing human brain: explicit consideration of implicit models. <b>2011</b> , 23, 955-74	58
1190	Attenuated responses to emotional expressions in women with generalized anxiety disorder. <b>2011</b> , 41, 1009-18	66
1189	Allostasis model facilitates understanding race differences in the diurnal cortisol rhythm. <b>2011</b> , 23, 1167-86	76
1188	Understanding of Emotions and Reasoning During Consumer Tradeoff Between Function and Aesthetics in Product Design. <b>2011</b> ,	5
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1186	Decreased regional cerebral blood flow in medial prefrontal cortex during trauma-unrelated stressful imagery in Vietnam veterans with post-traumatic stress disorder. <b>2011</b> , 41, 2563-72	46
1185	Detection of cerebral reorganization induced by real-time fMRI feedback training of insula activation: a multivariate investigation. <b>2011</b> , 25, 259-67	50
1184	Are you really angry? The effect of intensity on facial emotion recognition in frontotemporal dementia. <b>2011</b> , 6, 502-14	86

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1181	Envy and Schadenfreude: The Neural Correlates of Competitive Emotions. <b>2011</b> , 139-155	3
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1176	Imaging drugs with and without clinical analgesic efficacy. <b>2011</b> , 36, 2659-73	54
1175	A role for REM sleep in recalibrating the sensitivity of the human brain to specific emotions. <b>2011</b> , 21, 115-23	174
1174	Brain functional connectivity during induced sadness in patients with obsessive-compulsive disorder. <b>2012</b> , 37, 231-40	14
1173	Neuronal correlates of extinction learning are modulated by sex hormones. <b>2012</b> , 7, 819-30	98
1172	Valuing one's self: medial prefrontal involvement in epistemic and emotive investments in self-views. <b>2012</b> , 22, 659-67	84
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1170	Regional cortical thinning associated with detectable levels of HIV DNA. <b>2012</b> , 22, 2065-75	65
1169	Neural correlates of automatic mood regulation in girls at high risk for depression. <b>2012</b> , 121, 61-72	74
1168	Existential neuroscience: a functional magnetic resonance imaging investigation of neural responses to reminders of one's mortality. <b>2012</b> , 7, 193-8	74
1167	Altered resting-state amygdala functional connectivity in men with posttraumatic stress disorder. <b>2012</b> , 37, 241-9	236
1166	Mood dysregulation and stabilization: perspectives from emotional cognitive neuroscience. <b>2012</b> , 15, 681-94	9

1165	Amygdala recruitment in schizophrenia in response to aversive emotional material: a meta-analysis of neuroimaging studies. <b>2012</b> , 38, 608-21	123
1164	Disrupted regulation of social exclusion in alcohol-dependence: an fMRI study. <b>2012</b> , 37, 2067-75	105
1163	Short-term SSRI treatment normalises amygdala hyperactivity in depressed patients. <b>2012</b> , 42, 2609-17	160
1162	Common and distinct brain networks underlying explicit emotional evaluation: a meta-analytic study. <b>2012</b> , 7, 521-34	91
1161	Using real-time fMRI to learn voluntary regulation of the anterior insula in the presence of threat-related stimuli. <b>2012</b> , 7, 623-34	94
1160	Treatment effects on insular and anterior cingulate cortex activation during classic and emotional Stroop interference in child abuse-related complex post-traumatic stress disorder. <b>2012</b> , 42, 2337-49	58
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1158	The effects of different attentional demands in the identification of emotional facial expressions in Alzheimer's disease. <b>2012</b> , 27, 530-6	17
1157	Functional specialization does not require a one-to-one mapping between brain regions and emotions. <b>2012</b> , 35, 161-2	16
1156	Personality modulates the effects of emotional arousal and valence on brain activation. <b>2012</b> , 7, 858-70	72
1155	Image and emotion: from outcomes to brain behavior. <b>2012</b> , 5, 40-59	12
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1153	Two dimensional affective state distribution of the brain under emotion stimuli. <b>2012</b> , 2012, 6052-5	2
1152	The influence of polygenic risk for bipolar disorder on neural activation assessed using fMRI. <b>2012</b> , 2, e130	73
1151	Neural substrate of the late positive potential in emotional processing. <b>2012</b> , 32, 14563-72	241
1150	Neural systems for social cognition in Klinefelter syndrome (47,XXY): evidence from fMRI. <b>2012</b> , 7, 689-97	28
1149	Emotion effects on attention, amygdala activation, and functional connectivity in schizophrenia. <b>2012</b> , 38, 967-80	82
1148	Alerting effects of daytime light exposure & proposed link between light exposure and brain mechanisms. <b>2012</b> , 44, 238-252	29

1147	Morphing between expressions dissociates continuous from categorical representations of facial expression in the human brain. <b>2012</b> , 109, 21164-9	72
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1145	Feeling without seeing? Engagement of ventral, but not dorsal, amygdala during unaware exposure to emotional faces. <b>2012</b> , 24, 531-42	14
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1143	What can neuroimaging meta-analyses really tell us about the nature of emotion?. <b>2012</b> , 35, 150-2	6
1142	Need for more evolutionary and developmental perspective on basic emotional mechanisms. <b>2012</b> , 35, 171-2	1
1141	Regionally specific alterations in functional connectivity of the anterior cingulate cortex in major depressive disorder. <b>2012</b> , 42, 2071-81	117
1140	Neuronal deactivation is equally important for understanding emotional processing. <b>2012</b> , 35, 169-70	
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1136	Time spent with friends in adolescence relates to less neural sensitivity to later peer rejection. <b>2012</b> , 7, 106-14	119
1135	Understanding emotion: lessons from anxiety. <b>2012</b> , 35, 145	2
1134	A constructionist account of emotional disorders. <b>2012</b> , 35, 146-7	5
1133	Further routes to psychological constructionism. <b>2012</b> , 35, 153-4	1
1132	The role of the amygdala in the appraising brain. <b>2012</b> , 35, 161	15
1131	Invariants of human emotion. <b>2012</b> , 35, 164	9
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1129	Neuroscience findings are consistent with appraisal theories of emotion; but does the brain "respect" constructionism?. <b>2012</b> , 35, 163-4	8
1128	Authors' response: what are emotions and how are they created in the brain?. <b>2012</b> , 35, 172-202	23
1127	Feeling the strain: predicting the third dimension of core affect. <b>2012</b> , 35, 166-7	
1126	Emotions as mind organs. <b>2012</b> , 35, 147-8	1
1125	Overcoming the emotion experience/expression dichotomy. <b>2012</b> , 35, 145-6	10
1124	Mental attributes and temporal brain dynamics during bargaining: EEG source localization and neuroinformatic mapping. <b>2012</b> , 7, 159-77	4
1123	Emotions of "higher" cognition. <b>2012</b> , 35, 157-8	12
1122	What's in a baby-cry? Locationist and constructionist frameworks in parental brain responses. <b>2012</b> , 35, 167-8	4
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1120	Narrative constructions and the life history issue in brain-emotions relations. <b>2012</b> , 35, 168-9	1
1119	A rigorous approach for testing the constructionist hypotheses of brain function. <b>2012</b> , 35, 148-9	11
1118	Altered brain mechanisms of emotion processing in pre-manifest Huntington's disease. <b>2012</b> , 135, 1165-79	69
1117	Morally Bonded and Bounded: A Sociological Introduction to Neurology. <b>2012</b> , 165-199	9
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1115	Amygdala-orbitofrontal resting-state functional connectivity is associated with trait anger. <b>2012</b> , 23, 606-10	50
1114	Altered insula activation in anticipation of changing emotional states: neural mechanisms underlying cognitive flexibility in Special Operations Forces personnel. <b>2012</b> , 23, 234-9	18
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1107	The recognition of facial expressions: an investigation of the influence of age and cognition. <b>2012</b> , 19, 657-76	38
1106	Other Domains Varying in Salience. <b>2012</b> , 417-437	
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1104	Can we share the joy of others? Empathic neural responses to distress vs joy. <b>2012</b> , 7, 909-16	39
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1098	Effects of an antidepressant on neural correlates of emotional processing in patients with major depression. <b>2012</b> , 527, 55-9	34
1097	Sensitivity to posed and genuine displays of happiness and sadness: a fMRI study. <b>2012</b> , 531, 149-54	28
1096	Regional cortical thinning in patients with major depressive disorder: a surface-based morphometry study. <b>2012</b> , 202, 206-13	72
1095	Functional neuroimaging in specific phobia. <b>2012</b> , 202, 181-97	55
1094	Empathic behavioral and physiological responses to dynamic stimuli in depression. <b>2012</b> , 200, 294-305	55

1093	[Imaging non motor signs in Parkinson's disease]. <b>2012</b> , 168, 576-84	
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1091	Multisensory emotions: perception, combination and underlying neural processes. <b>2012</b> , 23, 381-92	73
1090	Funci3 corticol3mbica en la conducta agresiva impulsiva. <b>2012</b> , 19, 46-53	3
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1086	On the generalised embodiment of pain: how interoceptive sensitivity modulates cutaneous pain perception. <b>2012</b> , 153, 1680-1686	79
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1084	Voxel based morphometric and diffusion tensor imaging analysis in male bipolar patients with first-episode mania. <b>2012</b> , 36, 231-8	44
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1081	PET functional imaging of deep brain stimulation in Parkinson's disease. <b>2012</b> , 25, 133-138	2
1080	Examination of the neural substrates activated in memories of experiences with resonant and dissonant leaders. <b>2012</b> , 23, 259-272	65
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1068	How the pain of others enhances our pain: searching the cerebral correlates of 'compassional hyperalgesia'. <b>2012</b> , 16, 748-59	42
1067	Meta-analytic methods for neuroimaging data explained. <b>2012</b> , 2, 6	142
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1064	Neuroethics: the ethical, legal, and societal impact of neuroscience. <b>2012</b> , 63, 571-91	86
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1060	Mapping discrete and dimensional emotions onto the brain: controversies and consensus. <b>2012</b> , 16, 458-66	169
1059	Distinct pathways of neural coupling for different basic emotions. <i>NeuroImage</i> , <b>2012</b> , 59, 1804-17	7.9 63
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