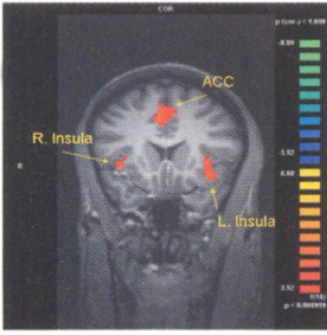
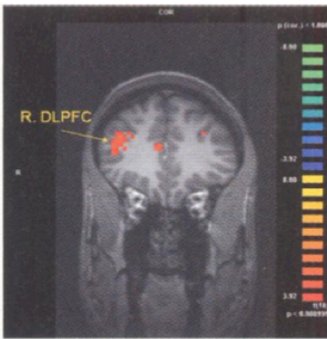
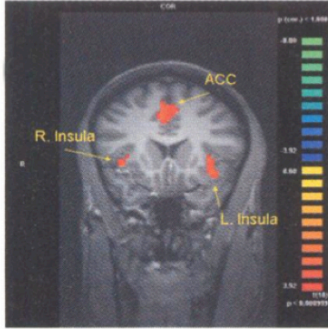
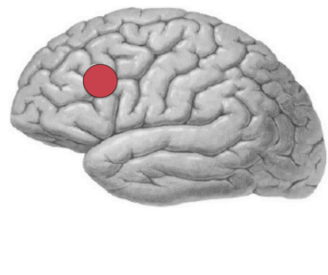
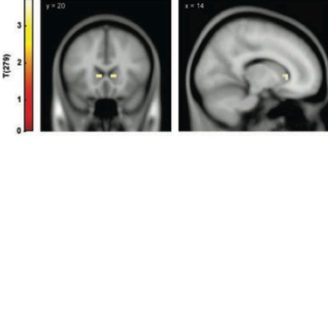
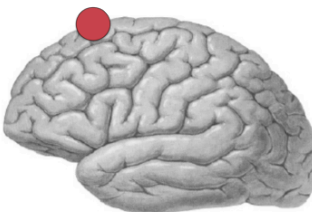
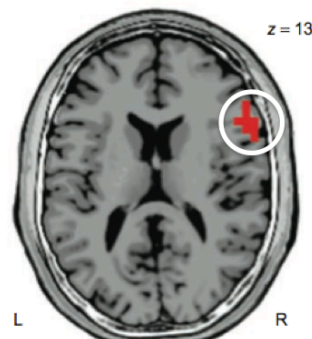
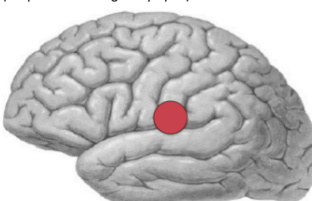
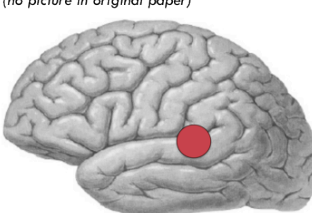
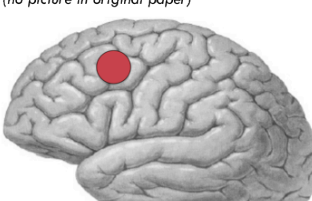


**Appendix Figure 1. Brain Areas associated with Perceived Unfairness in Economic Games from Sanfey et al., 2003, (left-most columns) and a sample of other functions associated with the same brain areas.**

Brain Area		Functions associated with the Brain Area
<p>Bilateral anterior insula (Sanfey et al., 2003)</p>		<p>Neuroticism (Feinstein, Stein and Paulus, 2006)                      Hunger (Calder, Lawrence and Young, 2001)                      Pain perception (Wiech, Lin, Brodersen, Bingel, Ploner and Tracey, 2010)                      Taste response (Veldhuizen, Albrecht, Zelano, Boesveldt, Breslin and Lundström, 2011)                      Empathy (Fan, Duncan, de Greck and Northoff, 2011)                      Unreciprocated cooperation (Rilling, Goldsmith, Glenn, Joram, Efenbein, Dagenais, Murdock and Pagnoni, 2008)</p>
<p>Dorsolateral prefrontal cortex (Sanfey et al., 2009, McCabe et al, 2001, Hsu et al., 2005)</p>		<p>Planning (Kaller, Rahm, Spreer, Weller and Unterrainer, 2011)                      Working memory (Provost, Petrides and Monchi, 2010)                      Visual working memory (Sligte, Wokke, Tessalear, Steven Scholte and Lamme, 2011)                      Deception (Ito, Abe, Fujii, Ueno, Koseki, Hashimoto, Mugikura, Takahashi and Mori, 2011)                      Lying (Mameli, Mrakic-Sposta, Vergari, Fumagalli, Macis, Ferrucci, Nordio, Consonni, Sartori and Priori, 2010)                      Arithmetic (Krueger, Landgraf, van der Meer, Deshpande, and Hu, 2010)                      Numerical reasoning (Jia, Liang, Lu, Yang, Zhong and Li, 2011)                      Verbal working memory (Metzak, Feredoes, Takane, Wang, Weinstein, Cairo, Ngan and Woodward, 2010)                      Goal-directed mental simulations (Gerlach, Spreng, Gilmore and Schacter, 2011)                      Subjective assessment of social affective cues (Zaretsky, Mendelsohn, Mintz and Hendler, 2010)                      Cognitive control and decision making (Venkatraman, Rosati, Taren and Huettel, 2009)                      Attending different mental states (Walter, Matthia, Wiebking, Rotte, Tempelmann, Bogerts, Heinze and Northoff, 2009)</p>

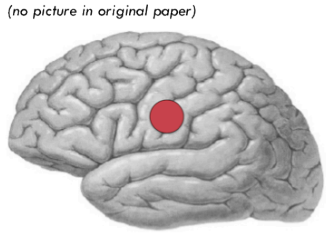
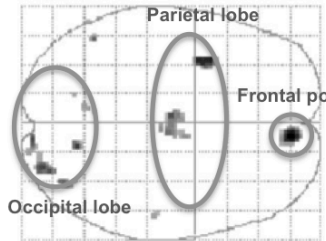
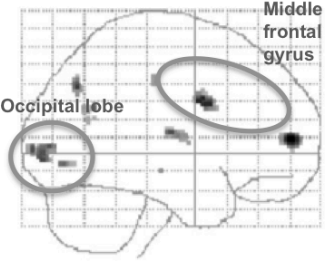
**Appendix Figure 2. Brain Areas associated with Trust and Altruism from King-Casas et al., 2005, (left-most columns) and a sample of other functions associated with the same brain areas.**

Brain Area		Functions associated with the Brain Area
<p>Anterior cingulate cortex (King-Casas et al., 2005, Sanfey et al., 2003, Tomlin et al., 2006)</p>		<p>Error detection (Bush, Luu and Posner, 2000)                      Emotional self-control (Allman, Hakeem, Erwin, Nimchinsky, Hof and Hixon 2001)                      Verbal working memory (Metzak et al., 2010)                      Memory (Bunce and Barbas, 2011)                      Local inhibition in bilingual word production (Guo, Liu, Misra and Kroll, 2011)                      Processing emotional words (Straube, Sauer, and Miltner, 2011)                      Semantic coding in verbal working memory (Kaneda and Osaka, 2008)                      Attention-related pain perception (Osaka, Osaka, Morishita, Kondo and Fukuyama, 2004)</p>
<p>Inferior frontal sulcus (King-Casas et al., 2005)</p>	<p>(no picture in original paper)</p> 	<p>Fluency in language (Rogalski, Cobia, Harrison, Wieneke, Thompson, Weintraub and Mesulam, 2011)                      Learning new task rules (Dumontheil, Thompson and Duncan, 2011)                      Selective attention (Kayser, Erickson, Buchsbaum and D'Esposito, 2010)                      Response selection (Adam and Noppeney, 2010)                      Identification of words and pictures (Van Doren, Dupont, De Grauwe, Peeters and Vandenberghe, 2010)                      Phonetics (Myers, Blumstein, Walsh and Eliassen, 2009)                      Working memory in processing language (Makuuchi, Bahlmann, Anwander and Friederici, 2009)</p>
<p>Thalamus (King-Casas et al., 2005, McCabe et al., 2001)</p>		<p>Processing and relaying sensory information (Scholpp and Lumsden, 2010)                      Sleep-wake regulation (Sforza, Montagna, Tinuper, Cortelli, Avoni, Ferrillo, Petersen, Gambetti and Lugaresi, 1995)                      Odor sensation (Asai, Udaka, Hirano and Ueno, 2008)                      Modulation between sensory information and memory (Rotshtein, Soto, Grecucci, Geng and Humphreys, 2011)                      Spatial attention (Hulme, Whiteley and Shipp, 2010)                      Distributing sensory information (Scholpp and Lumsden, 2010)                      Working memory performance (Piras, Caltagirone and Spalletta, 2010)                      Control of visual attention and awareness (Saalman and Kastner, 2009)</p>

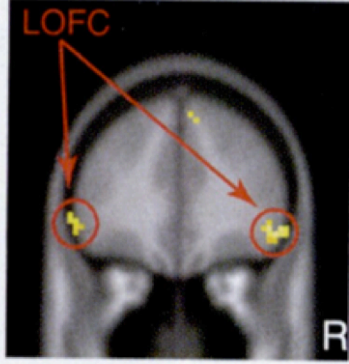
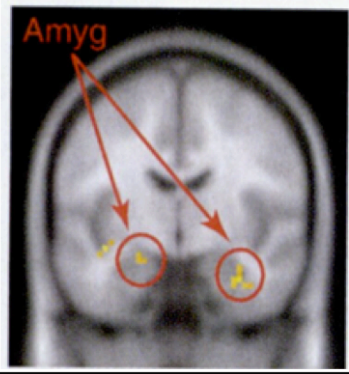
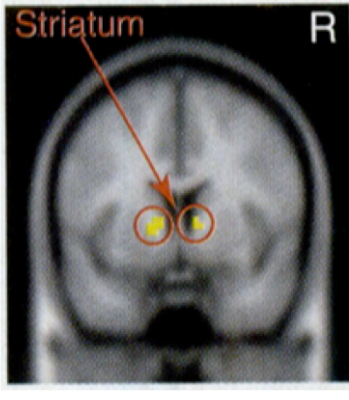
<p><b>Superior frontal sulcus</b> (King-Casas et al., 2005)</p>	<p>(no picture in original paper)</p> 	<p>Post-error reduction of interference (King, Korb, Von Cramon and Ullsperger, 2010)          Updating attentional focus (Bledowski, Rahm and Rowe, 2009)          Attention shifts (Morton, Bosma and Ansari, 2009)          Reacting to skin discomfort (Querleux, Dauchot, Jourdain, Bastien, Bittoun, Anton, Burnod and De Lacharrière, 2008)          Self-motion perception (Kovács, Raabe and Greenlee, 2008)          Spatial auditory tasks (Rämä, 2008)          Locating sounds (Alain, He and Grady, 2008)          Visual categorisation (DeGutis and D'Esposito, 2007)</p>
<p><b>Right prefrontal cortex</b> (Knoch et al., 2010)</p>	<p>(no picture in original paper)</p> 	<p>Risk-taking (Gianotti, Knoch, Faber, Lehmann, Pascual-Marqui, Diezi, Schoch, Eisenegger and Fehr, 2009)          Self-face recognition (Morita, Itakura, Saito, Nakashita, Harada, Kochiyama and Sadato, 2008)          Self-control (Gianotti et al., 2009)          Infant facial emotion discrimination by mother (Nishitani, Doi, Koyama and Shinohara, 2011)          Joke-selective activity (Marinkovic, Baldwin, Courtney, Witzel, Dale and Halgren, 2011)          Difficult semantic retrieval (Rodríguez-Ferreiro, Gennari, Davies and Cuetos, 2011)          Detecting the intention to communicate (Grossmann, Parise and Friederici, 2010)          Overcoming sleepiness (Honma, Soshi, Kim and Kuriyama, 2010)          Retrieval of information (Li, Lu, Wu and Zhong, 2010)</p>
<p><b>Inferior/superior colliculi</b> (King-Casas et al., 2005)</p>	<p>(no picture in original paper)</p> 	<p>Attentional shifts and eye movements (Kustov and Robinson, 1996)          3-D Eye-head coordination (Klier, Wang and Crawford, 2003)</p>
<p><b>Head of the caudate nucleus</b> (King-Casas et al., 2005)</p>	<p>(no picture in original paper)</p> 	<p>Learning and memory (Graybiel, 2005)          Language comprehension (Abdullaev, Bechtereva and Melnichuk, 1998)          Rule-based category learning (Helie, Roeder and Ashby, 2010)          Viewing sexual stimuli (by males) (Sundaram, Jeong, Kim, Kim, Baek and Kang, 2010)          Behavioral execution of sequences in children (Meintjes, Jacobson, Molteno, Gatenby, Warton, Cannistraci, Gore and Jacobson, 2010)          Higher-order sequence processing (Bahlmann, Schubotz, Mueller, Koester and Friederici, 2009)          Processing performance feedback (Tricomi and Fiez, 2008)          Cognitive processing fluency (syntactic correctness) (Forkstam, Hagoort, Fernandez, Ingvar and Petersson, 2006)</p>
<p><b>Middle cingulate cortex</b> (King-Casas et al., 2005)</p>	<p>(no picture in original paper)</p> 	<p>Decision-making under uncertainty (Goñi, Aznárez-Sanado, Arrondo, Fernández-Seara, Loayza, Heukamp and Pastor, 2011)          Conflict monitoring and resolution (Müller, Habel, Derrtl, Schneider, Zilles, Turetsky and Eickhoff, 2011)          Silent mantra meditation (Engström, Pihlgård, Lundberg and Söderfeldt, 2010)          Male sexual arousal (Georgiadis, Farrell, Boessen, A. Denton, Gavrilescu, Kortekaas, Renken, Hoogduin and Egan, 2010)</p>

**Appendix Figure 3. Brain Areas associated with Trust and Altruism from McCabe et al., 2001 and Tomlin et al., 2006 (left-most columns) and a sample of other functions associated with the same brain areas.**

Brain Area	Functions associated with the Brain Area
Middle frontal gyrus (McCabe et al., 2001)	<p>Learning and memory (Carter, O'Doherty, Seymour, Koch and Dolan, 2006)</p> <p>Abstract goal representation (Chiu, Esterman, Han, Rosen and Yantis, 2011)</p> <p>Word learning (Ye, Mestres-Missé, Rodriguez-Fornells and Münte, 2010)</p> <p>Movement observation (Halder, Agorastos, Veit, Hammer, Lee, Varkuti, Bogdan, Rosenstiel, Birbaume and Kübler, 2011)</p>
Frontal pole (McCabe et al., 2001)	<p>Thinking of the future (Okuda, Fujii, Ohtake, Tsukiura, Tanji, Suzuki, Kawashima, Fukuda, Itoh and Yamadori, 2003)</p> <p>Listening to rhythmic Persian classical music (Farzaneh, Oghabian, Javad and Ali, 2010)</p> <p>Watching happy facial expressions (Rahko, Paakki, Starck, Nikkinen, Remes, Hurlig, Kuusikko-Gauffin, Mattila, Jussila, Jansson-Verkasalo et al., 2010)</p> <p>Analogical reasoning (Cho, Moody, Ferdinando, Mumford, Poldrack, Cannon, Knowlton and Holyoak, 2010)</p> <p>Analogical mapping (Green, Kraemer, Fugelsang, Gray and Dunbar, 2010)</p>
Occipital lobe (McCabe et al., 2001)	<p>Visual processing (Grill-Spector and Malach, 2004)</p> <p>Face selection (Sadeh, Podlipsky, Zhdanov and Yovel, 2010)</p> <p>Perceptions of different feelings (Lee, Lee and Seo, 2009)</p> <p>Shape perception (Liang, Zhang, Lu and Shao, 2005)</p> <p>Reading (Wheatley, Weisberg, Beauchamp and Martin, 2005)</p> <p>Word recognition (Heun, Jessen, Klose, Erb, Granath and Grodd, 2004)</p> <p>Conscious vision (Pins and Ffytche, 2003)</p>
Parietal lobe (McCabe et al., 2001)	<p>Sensorimotor functions (Fogassi and Luppino, 2005)</p> <p>Working memory (Sörqvist and Sætrevik, 2010)</p> <p>Orienting attention (Marek, Fafrowicz, Golonka, Majsa-Kaja, Oginska, Tuchojska, Urbanik, Beldzik and Domagalik, 2010)</p> <p>Mental rotation (Gogos, Gavrilescu, Davison, Searle, Adams, Rossell, Bell, Davis and Egan, 2010)</p> <p>Numerical processing (Serra-Grabulosa, Adan, Pérez-Pàmies, Lachica and Membrives, 2010)</p> <p>Picture naming (Chouinard and Goodale, 2010)</p>
Posterior cingulate cortex (Tomlin et al., 2006)	<p>Memory (Vogt, Finch and Olson, 1992)</p> <p>Motor-control (Vogt, Gabriel, Vogt, Poremba, Jensen, Kubota and Kang, 1991)</p> <p>Sensory-motor integration (Sugiura, Shah, Zilles and Fink, 2005)</p> <p>Visual motion processing (Sugiura et al., 2005)</p> <p>Spatial representations (Dean and Platt, 2003)</p> <p>Inter-temporal decision-making (Sripada, Gonzalez, Luan Phan and Liberzo, 2010)</p> <p>Integrating words into sentential context (Ye, Mestres-Missé, Rodriguez-Fornells and Münte, 2010)</p> <p>Imagery and retrieval of auditory and visual information (Huijbers, Pennartz, Rubin and Daselaar, 2011)</p> <p>Social exclusion in social situations (Bolling, Pitskel, Deen, Crowley, McPartland, Mayes and Pelphrey, 2011)</p> <p>Mentalizing actions of others (Spunt, Satpute and Lieberman, 2011)</p> <p>Memory (Vogt et al., 1992)</p>



**Appendix Figure 4. Brain Areas associated with Ambiguity and Risk from Hsu et al., 2005 (left-most columns) and a sample of other functions associated with the same brain areas.**

Brain area		Other functions or activities associated with brain area
Orbifrontal cortex (Hsu et al., 2005)		<p>Sensory integration (Kringelbach, 2005)</p> <p>Reward and punishment (Bechara, Damasio, Damasio and Anderson, 1994)</p> <p>Learning (Tsuchida, Doll and Fellows, 2010)</p> <p>Social inhibition (Kret, Denollet, Grèzes and De Gelder, 2011)</p> <p>Attentional selection (Diekhof, Falkai and Gruber, 2011)</p> <p>Positive emotion of choice (Li, Qin, Rao, Zhang, Ying, Guo, Guo, Ding, Li and Luo, 2011)</p> <p>Viewing art (Lacey, Hagtvædt, Patrick, Anderson, Stilla, Deshpande, Hu, Sato, Reddy and Sathian 2011)</p> <p>Viewing food pictures (van der Laan, de Ridder, Viergever and Smeets, 2011)</p>
Amygdala (Hsu et al., 2005)		<p>Emotional processing (Sergegie, Chochol and Armony, 2008)</p> <p>Social processing (Adolphs and Spezio, 2006)</p> <p>Anger, fear, happiness, eroticism (Wiethoff, Wildgruber, Grodd and Ethofer, 2009)</p> <p>Processing emotional visual stimuli (Reinders, den Boer and Buchel, 2005)</p> <p>Signalling threat or danger (Surguladze, Brammer, Young, Andrew, Travis, Williams and Phillips, 2003)</p> <p>Self-referential processing of emotional stimuli (Yoshimura, Ueda, Suzuki, Onoda, Okamoto and Yamawaki, 2009)</p> <p>Viewing images evoking fear (Ogino, Nemoto, Inui, Saito, Kakigi and Goto, 2007)</p> <p>Looking at angry faces (Boll, Gamer, Kalisch and Büchel, 2011)</p> <p>Looking at novel faces (Balderston, Schultz and Helmstetter, 2011)</p> <p>Processing emotional words (Straube, et al., 2011)</p>
Dorsal Striatum (Hsu et al., 2005)		<p>When being shocked (electrical) (Linnman, Rougemont-Bücking, Beucke, Zeffiro and Milad, 2011)</p> <p>Error detection (Chevrier and Schachar, 2010)</p> <p>Viewing pictures of faces and scenes (Oh and Leung, 2010)</p> <p>Voluntary risk-taking (Rao, Kordzykowski, Pluta, Hoang and Detre, 2008)</p>

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