

## Appendix

Table 3. MNI coordinates of deactivated regions under the influence of Faradarmani Consciousness Field and their associated functions.

Sex	Priority	region	Related function (with respect to Brodmann's area if defined)	Deactivating Factor based on resources	
Female	1	Fusiform Gyrus	<p><b>37 (left)</b>                      Visual face recognition (1)                      Visual motion processing (2)                      Visual fixation (3)                      Structural judgments of familiar objects (4)                      Continuous attention to color and shape (5)                      other                      Face-name association (left) (6)                      Attributing intentions to others (7)                      Analogical reasoning (left side) (8)                      Design (9)                      Motion aftereffect (10)</p>	<p>Language                      Semantic categorization(left) (11)                      Word retrieval (Left) (12)                      Attention to semantic relationship (left) (13)                      Word generation (left) (14)                      Sign language (15)                      Single letter processing (left) (16)                      Understanding metaphors (left) (17)                      Orthographic-Phonological Binding (left) (18)                      Memory                      Recognition Memory (19)</p>	In response to happy faces (20) repetitive priming in second encounter with same visual stimulus (21)
	2	Superior Temporal Gyrus	<p><b>41 (Right)</b>                      Hearing                      Basic processing of auditory stimuli (verbal and nonverbal) (22)                      Perception of harmonic tones (23)                      Processing of sound intensity (24)                      Rapid sound recognition (two way) (25)                      Sound distinction (26)                      Auditory priming (27)                      Memory                      Effect of repetitive priming (28)                      Active auditory memory (29)                      other                      Visual speech perception(mirror neurons) (30)</p>	<p><b>22 (left)</b>                      Receptive language                      Processing auditory language (29)                      Semantic processing (30)                      Sentence generation (31)                      Frequency deviation detection (32)                      Generation of specified internal word (33)                      Related to language                      Selective attention to speech (34)                      Second language learning based on intonation (35)                      Repetitive words (36)                      Hearing (37, 38)                      Processing of complex sounds (39)                      other                      Attributing intentions to others (40)                      Analogical reasoning (41)</p>	Focused area for the neurofeedback test Passive listening to speech-like sounds (sound therapy) in autistic patients (42)(43).
	3	Lentiform Nucleus	Complex functions related to movement, cognition and emotions (44)		Fatigue caused by neurological disorders Patients exposed to chronic immune system stimulation Patients with chronic fatigue syndrome (45) aging (46)
	4	Precuneus	Self-sense (48) and agency• biography memory (47) special performance and orientation (48, 49, 50) recall• integration of environmental perception related information (Gestalt) • mental imagery• episodic memory retrieval•emotional response to pain	A region of the inner cortical wall A key region for the “Default Mode Network” known in the brain’s resting state (47)	During meditation (51)
Male	1	Posterior Cingulate	Visual-spatial information processing (57) Feature-based attention (58) Selective attention of orientation (59) memory visual priming (60) other emotional/ attention response in visual processing (61)	<p><b>18 (right)</b>                      Visual                      diagnosis of light intensity (52)                      pattern recognition (53)                      Visual motion pattern tracking (optokinetic stimulation) (54)                      discrimination of finger movements (55)                      sustained attention to color and shape (56)</p>	General anesthesia with propofol (45) During meditation (62)(63)

Table 4. MNI coordinates of activated regions under the influence of Faradarmani Consciousness Fields and their associated functions.

Sex	Priority	region	Related function (with respect to Brodmann's area if defined)	Deactivating Factor based on resources	
Male	1	Precentral Gyrus	Left (4) motor swallowing / throat movement (64) Contralateral lower limb movement (knee, ankle, foot, toe) (65) Motor imagery (66) Movement sequence learning (67) Autonomic control of breathing (68) Control of rhythmic functions (such as bicycle) (69) Blink suppression/ voluntary blinking (70) sensory - somatic Perception of body movement (71) Frequency discrimination of vibration (72) Deep sense of fingers (73) Response to touch (74) other topography memory (motor memory) for visual clues (75) 7 (left) Mental rotation (76) Personal space perception (77) Processing of scrambled patterns (78) Using spatial images in analogical reasoning (79)	Processing tool-based movements (80) Motor execution (81) Mirror neurons (82) Saccadic eye movement (83) Memory Working memory (motor, visual, auditory, somatosensory, verbal) (84) Visual-spatial memory (right) (85) Conscious recall of previous experienced events (86) sense pain perception (87) attention visuomotor attention (88) language language processing (89) literal sentence processing (90) word perception (imaging) (91) other processing emotions and self-reflecting during decision-making (92) targeted processing (93)	Exhausting exercise (94) Heart rate increase (95)(96)
			Right (6) motor programming/motor sequencing (97) autonomic control of breathing (98) horizontal saccadic eye movement (99) coordination between limbs (100) language language change (101) speech comprehension (102) word recall (103) memory working memory (103) remembrance practice (104) long-term episodic memory (105) topographical memory (106)	attention spatial attention (107) Visuomotor attention (108) Attention to human voice (109) other observation of action (mirror neurons) (110) programming/solving novel problems (111) executive behavioral control (112) response to tactile stimulation (113) generation of musical phrases (114) calculation (115) Recognition of contextual texture (116) Detection of frequency deviation (117)	Cumulative dose of antipsychotic (118) In regulation condition (119)
Female	1	Caudate	Voluntary skeleton movement control learning, memory, reward, motivation, emotions and romantic interactions (120)(121) Studies of disfunction in this area have found it involved in several disorders including: Huntington's and Parkinson's diseases, various forms of dementia, ADHD <sup>1</sup> , bipolar disorder, obsessive-compulsive disorder, and schizophrenia (122).	Coordinated activities such as dancing, singing, etc. (123) Positive correlation with cognitive mental fatigue (124,125)	

1. Attention deficit hyperactivity disorder

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