

COSIMO URGESI

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Scientific Institute (IRCCS) "E. Medea", Polo Friuli Venezia Giulia
Via della Bontà, 7 - 33078 San Vito al Tagliamento (PN) Italy

Personal Information:

Date of birth: May 07, 1978
Place of birth: Ceglie Messapica (Brindisi), Italy
Citizenship: Italian

Present Position

Assistant Professor/Lecturer (Tenure) in Cognitive Neuroscience, University of Udine.
Senior Researcher, Scientific Institute "E. Medea", Polo Friuli Venezia Giulia.

Research activities

Urgesi's major expertise is in the study of the development and neural bases of body and action representations. In recent years, he has translated the results of his basic neuroscience researches on the neuropsychological and neurophysiologic evaluation of brain lesion and mental disorders patients. Furthermore, he serves as Scientific Consultant at the Scientific Institute "E. Medea", a research child hospital specialized for neurodevelopmental disorders. He coordinates the Transcranial Magnetic Stimulation Laboratory at the Hospital Gervasutta of Udine, in collaboration with the University of Udine and with the Scientific Institute (IRCCS) "E. Medea", where clinical-rehabilitative and basic research studies are conducted. His research interests include the study of the:

- neural bases and development of corporeal knowledge;
- neural mechanisms involved in action prediction and anticipation,
- neural and cognitive correlates of elite sport performance and sport learning;
- neural bases of spiritual and religious experiences.

Since 2004, he has authored more than 70 articles in international, peer-reviewed journals (including multidisciplinary journals). He has also authored the Italian standardization of a neuropsychological test (NEPSY-II), 6 book chapters and 4 lay-people articles in Italian journals. H-index: 31 (Scholar), 26 (Scopus), 25 (WoS). Citations: >4370 (Scholar), >2888 (Scopus), > 2722 (WoS). He is first / last / correspondent author in ~70% of his publications.

Curriculum studiorum

- October 2006: PhD in Neuroscience at the University of Verona (supervisor: Prof. Giovanni Berlucchi).
- July 2002 - Degree (cum laude) in Psychology – Experimental Psychology at the University of Rome "La Sapienza".

Non-academic Achievements

- 1997-2002: Fellowship at the Collegio Universitario "Lamaro - Pozzani" (www.rulp.it) of the Federazione Nazionale dei Cavalieri del Lavoro, Rome.
- 2000: Grade B in the Examination for the First Certificate in English – University of Cambridge.
- 2000: Summer School of English in Sciences, University of Warwick (UK).
- December 2006: attending as "young scientist" the PENS/Hartie Winter School "Brain Basis of Social Interaction: From Concepts to Imaging", Kitzbuhel, Austria.

Previous positions

- 2014-2016: Marie Curie Senior Research Fellow, School of Psychology, Bangor University, Wales, UK
- 2007-2008: Post-Doc fellowship, Faculty of Educational Sciences, University of Udine. Project: *Plasticity of the neural representation of body image*. Supervisor: Prof. Franco Fabbro.

- 2005-2008: Research Fellowship at the Research Institute “E. Medea”, Polo Friuli Venezia Giulia. Project: *Italian Standardization of the NEPSY-II for the neuropsychological evaluation of children*. Supervisor: Prof. Franco Fabbro.
- 2002-2003: Research Fellowship at the “Associazione per le Neuroscienze G. Moruzzi”, of the Dpt. of Neurological and Vision Sciences, Section of Human Physiology, University of Verona. Project: *Hemispheric Metacognition and perception of chimeric stimuli in healthy individuals and split-brain patients*. Supervisor: Prof. Salvatore M. Aglioti.

Grants

As PI (national or international coordinator):

- 2018-2021: Young Researcher Grant 2016, Italian Ministry of Health. Neurocognitive underpinnings of social perception abilities in congenital and acquired cerebellar damage. € 407,449.
- 2015-2017: European Commission, H2020-MSCA-IF-2014 NBUCA — “Neural and behavioral underpinnings of contextual modulations in Autism” Proposal ID 656881. Role: Coordinator at University of Udine. Fellow: Lucia Amoroso. €180,277.20
- 2014-2016: European Commission, FP7, Marie Curie Intra-European Fellowships for Career Development (IEF). Spiritual Brains and Embodied Minds: Neural bases of Self-transcendence and Empathy. Role: Fellow at School of Psychology, Bangor University, Wales, UK. Coordinator Paul Downing. €309,235.20.
- 2015-2018: Scientific Institute Eugenio Medea, Current Research Program 2015. Social perception abilities in neurodevelopmental disorders. €110,000.
- 2012-2014: Scientific Institute Eugenio Medea, Current Research Program 2012. Configural and Local Processing of social stimuli: Neural bases, development and early mother-child relationships. €80,000.
- 2011-2012: Consortium of Italian and Argentinian Universities (CUIA). Connectivity between executive and semantic neurocognitive systems in executive dysfunctions. € 32,000.
- 2011-2013: Young Researcher Grant 2008, Italian Ministry of Health. Neurofunctional Alterations of Body representation in Anorexia Nervosa: Neuropsychological Measures and Neurophysiologic Treatments. € 585,000.
- 2011: Scientific Institute Eugenio Medea, Current Research Program 2011. Semantic knowledge for familiar people. Behavioural, neuropsychological and TMS studies. € 25,000
- 2009: Scientific Institute Eugenio Medea, Current Research Program 2009. Motor and somatic components of motor imagery as a rehabilitation tool. Behavioral and TMS studies. € 25,000.

As CO-PI or research unit (RU) coordinator:

- 2015-2016: Royal Society Research Grants 2015R2. Subject: Behavioral Neuroscience. Paired-pulse TMS investigations of the underlying neural mechanisms. Co-applicant. Applicant: Kenneth Valyear £ 15.000 (topped-up by the Bangor University School of Psychology up to the full cover of a new Magstim Bi-Stim device).
- 2013-: Italian Ministry of University and Scientific Research, Future in Research Program 2012. Neuropsychological bases of social and emotion perception. Head of RU. National PI: Marco Tamietto, Turin, Italy. Total: € 865,800; RU: € 159,000.
- 2011-2013: Italian Ministry of University and Scientific Research, PRIN (Progetti di Ricerca di Interesse Nazionale) Program 2009 # 20092009A8FR3Z. Plasticity of anticipatory coding in motor experts and novice players learning to detect bluffs in body actions: Behavioural and Transcranial Magnetic Stimulation studies. PI: Salvatore M Aglioti, Rome. Total: € 237,145; RU: € 70,670.
- 2010-2013: Project SEED, Italian Institute of Technology (IIT), Genova, Italy. Predictive Action-perception Resonance and Mental Simulation (PARMS). PI: Salvatore M Aglioti, Rome. Total: € 320,000; RU: € 60,000.
- 2012: 2012 Mind and Life Contemplative Studies Fellowships (MLCSF), Mind & Life Institute (New York, USA). Philosophical and historical accounts for the neuroscientific investigation of human spirituality. PI: Franco Fabbro, Udine. Total: \$ 60,000.
- 2011-2012: Fundacao BIAL (Portugal), Bursaries for Scientific Research 2010-2011. The Spiritual Brain: neuropsychological and neurophysiologic investigations of Self-transcendence and Spirituality. PI: Salvatore M Aglioti, Rome. Total: € 42,000.

Collaborations

- Social and Cognitive Neuroscience Laboratory, Dpt. of Psychology, University of Rome “La Sapienza” (Director, Prof. Salvatore M. Aglioti), for neurophysiologic and neuroimaging research on the neural bases of body and action representations.
- Department of Psychology and Cultural Anthropology, University of Verona (Dr. Valentina Moro), for research on body perception disorders in brain lesion patients.
- Spinal Injury Division, Rehabilitation Hospital Gervasutta of Udine (Dr. Emiliana Bizzarrini), for research on the neuroplastic changes of motor representations after functional electrical stimulation in spinal cord injury patients.

- Faculty of Psychology, University of Cordoba, Argentina (Dr. Julian Marino-Davolos), for research on the neural underpinnings of semantic and emotional control.
- Scientific Institute IRCCS Fondazione Stella Maris, Pisa (Dr. Filippo Muratori), for studies on neuropsychological evaluation of patients with eating disorders.
- Social Brain in Action Laboratory at the School of Psychology of Bangor University (Dr. Emily Cross, Louise Kirsch) and School of Psychological Sciences at the University of Manchester (Dr Luca Ticini) for a project on Embodied Aesthetics and the Emotional Motor System

Teaching

2010-2014: Lecturer of Developmental Psychology and Psychobiology, Single Cycle Degree Course in Education with Teaching Qualification, University of Udine.

2006-2010: Acting Lecturer of Developmental Psychology and Social Psychology, Single Cycle Degree Course in Education with Teaching Qualification, University of Udine.

2006-2014: Acting Lecturer of Psychobiology, Degree in Motor Sciences, University of Udine.

2008-2014: Acting Lecturer of Psychobiology, MSc in Sports Sciences, University of Udine.

2006-2014: Acting Lecturer of Neurophysiology, Degree in Physiotherapy, University of Udine.

2008-2012: Acting Lecturer of Psychobiology - Action and Perception Module- for the MSc in Rehabilitation Sciences, University of Trieste, Italy

Supervision

Since 2005, he has been supervisor of 30 students for the degree thesis in Education Science, 6 students for the degree thesis in Motor Science, and 2 students for the master degree thesis in Rehabilitation Sciences at the University of Udine. He has been supervisor for the dissertation project of a MSc student in Foundations of Clinical Psychology, a MSc student in Psychology Research, and an intercalating medical student in Neuropsychology at Bangor University School of Psychology (Wales, UK). He has supervised of 7 post-doc fellows and 1 PhD student.

Prizes and acknowledgements:

Gold Medal "Mente e Cervello" 2007 and Medal from the President of Italy for his research in neuroscience.

Publishers Award for your researchers 2008, Italian Association of Psychology, Section of Experimental Psychology.

Editorial Activity:

He is Academic Editor at PlosOne, Review Editor at Frontiers in Psychology and Frontiers in Human Neuroscience and member of the editorial board of ISRN Neuroscience. He served as *ad-hoc* referee for Advances in Eating Disorder, Attention, Perception, & Psychophysics, Behavioral Brain Research, Biology Letters, Brain and Cognition, British Journal of Psychology, Cerebral Cortex, Cognitive, Affective, and Behavioral Neuroscience, Cognition and Emotion, Cognitive Science, Cognition, Cortex, European Eating Disorders Review, European Journal of Neuroscience, Experimental Brain Research, Experimental Psychology, Frontiers in Psychology, The International Journal for the Psychology of Religion, Journal of Cognitive Neuroscience, Journal of Cognitive Studies, Journal of Experimental Psychology: Human perception and performance, Journal of Neurophysiology, Journal of Neuroscience, Journal of Sports Sciences, Journal of Research in Personality, PLOS One, Neuroscience, Neuroimage, Neuropsychologia, Psychological Research, Religion Brain & Behavior, Scientific Reports, Social Cognitive and Affective Neuroscience. He served as coordinator of the special issue of European Psychologist on Body Image. He served as grant referee for the French National Research Agency (ANR), the Swiss National Research Foundation and the Research Foundation of Flanders, and the Italian Ministry of University and Research.

Publications in peer reviewed journals

1. Finisguerra A, Borgatti R, Urgesi C. 2019. Non-invasive Brain Stimulation for the Rehabilitation of Children and Adolescents With Neurodevelopmental Disorders: A Systematic Review. *Front Psychol.* 2019 Feb 6;10:135. doi: 10.3389/fpsyg.2019.00135.
2. Amoruso L, Finisguerra A, Urgesi C 2018. Autistic traits predict poor integration between top-down contextual expectations and movement kinematics during action observation. *Sci Rep.* 8(1):16208.
3. Corti C, Poggi G, Massimino M, Bardoni A, Borgatti R, Urgesi C 2018. Visual perception and spatial transformation of the body in children and adolescents with brain tumor. *Neuropsychologia* 120:124-136.
4. Butti N, Montirosso R, Borgatti R, Urgesi C. 2018. Maternal sensitivity is associated with configural processing of infant's cues in preterm and full-term mothers. *Early Hum Dev.* 2018 Sep 7;125:35-45. doi: 10.1016/j.earlhumdev.2018.08.018.

5. Corti C, Poggi G, Romaniello R, Strazzer S, Urgesi C, Borgatti R, Bardoni A. 2018. Feasibility of a home-based computerized cognitive training for pediatric patients with congenital or acquired brain damage: An explorative study. *PLoS One*. 2018 Jun 20;13(6):e0199001. doi: 10.1371/journal.pone.0199001. eCollection 2018.
6. Amoruso L, Finisguerra A, Urgesi C. 2018. Contextualizing action observation in the predictive brain: Causal contributions of prefrontal and middle temporal areas. *Neuroimage*. 2018 Aug 15;177:68-78. doi: 10.1016/j.neuroimage.2018.05.020.
7. Finisguerra A, Amoruso L, Makris S, Urgesi C. (2018). Dissociated Representations of Deceptive Intentions and Kinematic Adaptations in the Observer's Motor System. *Cereb. Cortex* 2018 Jan 1;28(1):33-47. doi: 10.1093/cercor/bhw346.
8. Ticini LF, Urgesi C, Kotz SA. 2017. Modulating Mimetic Preference with Theta Burst Stimulation of the Inferior Parietal Cortex. *Front Psychol*. 2017 Dec 1;8:2101. doi: 10.3389/fpsyg.2017.02101.
9. Vicario CM, Kuran KA, Urgesi C. (2017) Does hunger sharpen senses? A psychophysics investigation on the effects of appetite in the timing of reinforcement-oriented actions. *Psychol Res*. 2017 Oct 30. doi: 10.1007/s00426-017-0934-y
10. Cazzato V, Makris S, Urgesi C. (2017). Cathodal transcranial direct current stimulation of the extrastriate visual cortex modulates implicit anti-fat bias in male, but not female, participants. *Neuroscience*. 359:92-104.
11. Rosenqvist J, Lahti-Nuuttala P, Urgesi C, Holdnack J, Kemp SL, Laasonen M. (2017). Neurocognitive Functions in 3- to 15-Year-Old Children: An International Comparison. *J Int Neuropsychol Soc*. 23(4):367-380.
12. Di Lieto MC, Brovedani P, Pecini C, Chilosi AM, Belmonti V, Fabbro F, Urgesi C, Fiori S, Guzzetta A, Perazza S, Sicola E, Cioni G. (2017). Spastic diplegia in preterm-born children: Executive function impairment and neuroanatomical correlates. *Res Dev Disabil*. 61:116-126.
13. Amoruso L, Finisguerra A, Urgesi C. (2016). Tracking the Time Course of Top-Down Contextual Effects on Motor Responses during Action Comprehension. *J Neurosci* 36(46):11590-11600.
14. Mele S, Cazzato V, Di Taranto F, Maestro S, Fabbro F, Muratori F, Urgesi C. (2016). Altered exposure-related reshaping of body appreciation in adolescent patients with anorexia nervosa. *Body Image*. 19:113-121.
15. Vicario CM, Makris S, Urgesi C. (2016). Do experts see it in slow motion? Altered timing of action simulation uncovers domain-specific perceptual processing in expert athletes. *Psychol Res*. 2016 Sep 7.
16. Cazzato V, Mele S, Urgesi C. (2016). Different contributions of visual and motor brain areas during liking judgments of same- and different-gender bodies. *Brain Res*. 1646:98-108.
17. Urgesi C, Mattiassi AD, Buiatti T, Marini A., Tell it to a child! A brain stimulation study of the role of left inferior frontal gyrus in emotion regulation during storytelling. *Neuroimage*. 136:26-36
18. Amoruso L, Urgesi C. 2016. Contextual modulation of motor resonance during the observation of everyday actions. *Neuroimage*. 134:74-84.
19. Amoruso L, Urgesi C. 2016. Familiarity modulates motor activation while observing other species' actions: A magnetic stimulation study. *Eur J Neurosci*. 43(6):765-72.
20. Kirsch LP, Urgesi C, Cross ES. 2016. The shaping and reshaping of the aesthetic brain: Emerging perspectives on the neurobiology of embodied aesthetics. *Neurosci Biobehav Rev*. 62:56-68.
21. Cazzato V, Mian E, Mele S, Tognana G, Todisco P, Urgesi C. 2016. The effects of body exposure on self-body image and esthetic appreciation in anorexia nervosa. *Exp Brain Res*. 234(3):695-709.
22. Montirosso, R., Casini, E., Borgatti, R., Urgesi, C., 2016. Relationship Between Maternal Sensitivity During Early Interaction and Maternal Ability in Perceiving Infants' Body and Face. *Infancy* 21, 582-602.
23. Pezzetta R, Crescentini C, Urgesi C, Fabbro F. (2015). Contributi delle Neuroscienze allo studio della meditazione e della spiritualità†. *Giornale Italiano di Psicologia*, a. XLII, n. 4, 679-710.
24. Zilli T, Zanini S, Conte S, Borgatti R, Urgesi C. 2015. Neuropsychological assessment of children with epilepsy and average intelligence using NEPSY II. *J Clin Exp Neuropsychol*. 37(10):1036-51.
25. Urgesi C. 2015. Multiple Perspectives on Body Image Research. *Body Image*, 20 (1) 1-5.
26. Crescentini C, Di Bucchianico M, Fabbro F, Urgesi C. 2015. Excitatory stimulation of the right inferior parietal cortex lessens implicit religiousness/spirituality. *Neuropsychologia*. 70:71-9.
27. Makris S, Urgesi C. 2015. Neural underpinnings of superior action prediction abilities in soccer players. *Soc Cogn Affect Neurosci*. 10(3):342-51.
28. Cazzato V, Mian E, Serino A, Mele S, Urgesi C. 2015. Distinct contributions of extrastriate body area and temporoparietal junction in perceiving one's own and others' body. *Cogn Affect Behav Neurosci*.15(1):211-28.
29. Crescentini C, Urgesi C, Campanella F, Eleopra R, Fabbro F. 2014. Effects of an 8-week meditation program on the implicit and explicit attitudes toward religious/spiritual self-representations. *Conscious Cogn*. 30:266-80.
30. Crescentini C, Urgesi C, Fabbro F, Eleopra R. 2014. Cognitive and brain reserve for mind-body therapeutic approaches

in multiple sclerosis: A review. *Restor Neurol Neurosci.* 32(5):575-95.

31. Urgesi C, Candidi M, Avenanti A. 2014. Neuroanatomical substrates of action perception and understanding: an anatomic likelihood estimation meta-analysis of lesion-symptom mapping studies in brain injured patients. *Front Hum Neurosci.* 8:344.
32. Mele S, Mattiassi AD, Urgesi C. 2014. Unconscious Processing of Body Actions Primes Subsequent Action Perception but Not Motor Execution. *J Exp Psychol Hum Percept Perform.* 40(5):1940-62.
33. Campanella F, Crescentini C, Urgesi C, Fabbro F. 2014. Mindfulness-oriented meditation improves self-related character scales in healthy individuals. *Compr Psychiatry.* 55(5):1269-78.
34. Mattiassi AD, Mele S, Ticini LF, Urgesi C. 2014. Conscious and Unconscious Representations of Observed Actions in the Human Motor System. *J Cogn Neurosci.* 26(9):2028-41.
35. Crescentini C, Aglioti SM, Fabbro F, Urgesi C. 2014. Virtual lesions of the inferior parietal cortex induce fast changes of implicit religiousness/spirituality. *Cortex.* 54:1-15.
36. Cazzato V, Mele S, Urgesi C. 2014. Gender differences in the neural underpinning of perceiving and appreciating the beauty of the body. *Behav Brain Res.* 264C:188-196.
37. Mele S, Cazzato V, Urgesi C. 2013. The importance of perceptual experience in the esthetic appreciation of the body. *PLoS One.* 8(12):e81378.
38. Urgesi C, Fornasari L, Canalaz F, Perini L, Cremaschi S, Faleschini L, Thyriion EZ, Zuliani M, Balestrieri M, Fabbro F, Brambilla P. 2014. Impaired configural body processing in anorexia nervosa: Evidence from the body inversion effect. *Br J Psychol.* 105(4):486-508.
39. Crescentini C, Fabbro F, Urgesi C. 2014. Mental Spatial Transformations of Objects and Bodies: Different Developmental Trajectories in Children From 7 to 11 Years of Age. *Dev Psychol.* 50(2):370-83.
40. Campanella F, Fabbro F, Urgesi C. 2013. Cognitive and anatomical underpinnings of the conceptual knowledge for common objects and familiar people: a repetitive transcranial magnetic stimulation study. *PLoS One.* 8(5):e64596.
41. Avenanti A, Candidi M, Urgesi C. 2013. Vicarious motor activation during action perception: beyond correlational evidence. *Front Hum Neurosci.* 7:185.
42. Avenanti A, Annella L, Candidi M, Urgesi C, Aglioti SM. 2013. Compensatory Plasticity in the Action Observation Network: Virtual Lesions of STS Enhance Anticipatory Simulation of Seen Actions. *Cereb Cortex.* 23:570-80.
43. Calderoni S, Muratori F, Leggero C, Narzisi A, Apicella F, Balottin U, Carigi T, Maestro S, Fabbro F, Urgesi C. 2013. Neuropsychological functioning in children and adolescents with restrictive-type anorexia nervosa: An in-depth investigation with NEPSY-II. *J Clin Exp Neuropsychol.* 35:167-79.
44. Tomeo E, Cesari P, Aglioti SM, Urgesi C. 2013. Fooling the Kickers but not the Goalkeepers: Behavioral and Neurophysiological Correlates of Fake Action Detection in Soccer. *Cereb Cortex.* 23(11):2765-78.
45. Narzisi A, Muratori F, Calderoni S, Fabbro F, Urgesi C. 2012. Neuropsychological Profile in High Functioning Autism Spectrum Disorders. *J Autism Dev Disord.* 43(8):1895-909
46. Marini A, Urgesi C. 2012. Please get to the point! A cortical correlate of linguistic informativeness. *J Cogn Neurosci.* 24:2211-22.
47. Abreu AM, Macaluso E, Azevedo RT, Cesari P, Urgesi C, Aglioti SM. 2012. Action anticipation beyond the action observation network: a functional magnetic resonance imaging study in expert basketball players. *Eur J Neurosci.* 35:1646-54.
48. Cazzato V, Siega S, Urgesi C. 2012. "What women like": influence of motion and form on esthetic body perception. *Front Psychol.* 3:235.
49. Moro V, Pernigo S, Avesani R, Bulgarelli C, Urgesi C, Candidi M, Aglioti SM. 2012. Visual body recognition in a prosopagnosic patient. *Neuropsychologia.* 50:104-17.
50. Olivieri I, Bova SM, Urgesi C, Ariaudo G, Perotto E, Fazzi E, Stronati M, Fabbro F, Balottin U, Orcesi S. 2012. Outcome of extremely low birth weight infants: what's new in the third millennium? Neuropsychological profiles at four years. *Early Hum Dev.* 88:241-50.
51. Pernigo S, Moro V, Avesani R, Miatello C, Urgesi C, Aglioti SM. 2012. Massive somatic deafferentation and motor deafferentation of the lower part of the body impair its visual recognition: a psychophysical study of patients with spinal cord injury. *Eur J Neurosci* 36:3509-18.
52. Urgesi C, RomanVS M, Fornasari L, Brambilla P, Fabbro F. 2012. Investigating the development of temperament and character in school-aged children using a self-report measure. *Compr Psychiatry.* 53:875-83.
53. Urgesi C, Fornasari L Perini L, Canalaz F, Cremaschi S, Faleschini L, Balestrieri M, Fabbro F, Aglioti SM, Brambilla P. 2012. Visual body perception in anorexia nervosa. *Int J Eat Disord.* 45:501-11.
54. Urgesi C, Savonitto M, Fabbro F, Aglioti S. 2012. Long-and short-term plastic modeling of action prediction abilities in

volleyball. *Psychol Res.* 76:540-62.

55. Urgesi C, Avenanti A (2011). Functional and epiphenomenal modulation of neural activity in body-selective visual areas. *Cogn Neurosci.* 2(3-4): 212-4.
56. Avenanti A, Urgesi C. 2011. Understanding "what" others do: mirror mechanisms play a crucial role in action perception. *Soc Cogn Affect Neurosci.* 6:257-9.
57. Costantini M, Urgesi C, Galati G, Romani GL, Aglioti SM. 2011. Haptic perception and body representation in lateral and medial occipito-temporal cortices. *Neuropsychologia.* 49:821-9.
58. Urgesi C, Fornasari L, De Faccio S, Perini L, Mattiussi E, Ciano R, Balestrieri M, Fabbro F, Brambilla P. 2011. Body schema and self-representation in patients with bulimia nervosa. *Int J Eat Disord.* 44:238-48.
59. Urgesi C, Aglioti SM, Skrap M, Fabbro F. 2010. The spiritual brain: selective cortical lesions modulate human self-transcendence. *Neuron.* 65:309-19.
60. Calvo-Merino B, Urgesi C, Orgs G, Aglioti SM, Haggard P. 2010. Extrastriate body area underlies aesthetic evaluation of body stimuli. *Exp Brain Res.* 204:447-56.
61. Optale G, Urgesi C, Busato V, Marin S, Piron L, Priftis K, Gamberini L, Capodieci S, Bordin A. 2010. Controlling memory impairment in elderly adults using virtual reality memory training: a randomized controlled pilot study. *Neurorehabil Neural Repair.* 24:348-57.
62. Urgesi C, Maieron M, Avenanti A, Tidoni E, Fabbro F, Aglioti SM. 2010. Simulating the future of actions in the human corticospinal system. *Cereb Cortex.* 20:2511-21.
63. Aglioti SM, Cesari P, Romani M, Urgesi C. 2008. Action anticipation and motor resonance in elite basketball players. *Nat Neurosci.* 11:1109-16.
64. Candidi M, Urgesi C, Ionta S, Aglioti SM. 2008. Virtual lesion of ventral premotor cortex impairs visual perception of biomechanically possible but not impossible actions. *Soc Neurosci.* 3:388-400.
65. Moro V, Pernigo S, Urgesi C, Zapparoli P, Aglioti SM. 2008. Finger recognition and gesture imitation in Gerstmann's syndrome. *Neurocase.* 15:13-23.
66. Moro V, Urgesi C, Pernigo S, Lanteri P, Pazzaglia M, Aglioti SM. 2008. The neural basis of body form and body action agnosia. *Neuron.* 60:235-46.
67. Urgesi C, Calvo-Merino B, Haggard P, Aglioti SM. 2007. Transcranial magnetic stimulation reveals two cortical pathways for visual body processing. *J Neurosci.* 27:8023-30.
68. Urgesi C, Candidi M, Ionta S, Aglioti SM. 2007. Representation of body identity and body actions in extrastriate body area and ventral premotor cortex. *Nat Neurosci.* 10:30-31.
69. Fourkas AD, Avenanti A, Urgesi C, Aglioti SM. 2006. Corticospinal facilitation during first and third person imagery. *Exp Brain Res.* 168:143-51.
70. Urgesi C, Candidi M, Fabbro F, Romani M, Aglioti SM. 2006. Motor facilitation during action observation: topographic mapping of the target muscle and influence of the onlooker's posture. *Eur J Neurosci.* 23:2522-30. Cit.: 50
71. Urgesi C, Moro V, Candidi M, Aglioti SM. 2006. Mapping implied body actions in the human motor system. *J Neurosci.* 26:7942-9.
72. Romani M, Cesari P, Urgesi C, Facchini S, Aglioti SM. 2005. Motor facilitation of the human cortico-spinal system during observation of bio-mechanically impossible movements. *Neuroimage.* 26:755-63.
73. Urgesi C, Bricolo E, Aglioti SM. 2005. Hemispheric metacontrol and cerebral dominance in healthy individuals investigated by means of chimeric faces. *Cogn Brain Res.* 24:513-25.
74. Urgesi C, Berlucchi G, Aglioti SM. 2004. Magnetic stimulation of extrastriate body area impairs visual processing of nonfacial body parts. *Curr Biol.* 14:2130-34.

Book chapters

- Cesari P., & Urgesi, C. (2018). The Neural Pathway of Sport Actions From Seeing and Hearing to Doing: Perception-Action Relationships. In R. Carlstedt (Ed), *Handbook of Sport Neuroscience and Psychophysiology*. Routledge, New York. ISBN: 9781317528739.
- Makris, S., & **Urgesi, C.** (2014). Sport performance: mental imagery and observational learning in sport. In Obhi, S.D. & Cross, E.S. (Eds.), *Shared representations: Sensorimotor foundations of social life*. Cambridge University Press.
- Ticini LF, **Urgesi C**, Calvo-Merino B (2015) Embodied aesthetics: insight from cognitive neuroscience of the performing arts. In A. Scarinzi (Ed): *Aesthetics and the embodied Mind: beyond art theory and the Cartesian mind-body dichotomy*. Contributions to Phenomenology, Vol. 73, Springer Science+Business Media, Dordrecht (ISBN 978-94-017-9378-0).
- Marini, A., **Urgesi, C.** and Fabbro, F. Clinical Neurolinguistics of Bilingualism. (2012). In Faust, M. (Ed.) *The Handbook of Neuropsychology of Language*. Blackwell Publishing Group

- **Urgesi C., Fabbro F. (2009).** The Neuropsychology of Second Language Acquisition. In (Ed. W.C. Ritchie and T.K. Bhatia) *New Handbook of Second Language Acquisition*. Bingley, UK, Emerald.
- **Urgesi C. (2012).** Il corpo nel cervello: tra percezione e rappresentazione. In (Ed. Luca Marini, Andrea Carlino). *Il corpo post-umano. Scienze, diritto, società*. Roma, Italy, Carocci.

Publications in non indexed journals

- Pezzetta R, Crescentini C, **Urgesi C**, Fabbro F. (2015). Contributi delle Neuroscienze allo studio della meditazione e della spiritualità. *Giornale Italiano di Psicologia*, a. XLII, n. 4, 679-710.
- **Urgesi C.** (2010). Neuropsicologia dell'Autotrascendenza. *Antropologia della salute*, 1: 183-196.
- **Urgesi C.**, Candidi M., Aglioti S.M. (2007). Gli strani miraggi del nostro corpo. *Darwin*, 18(3-4): 61-66.
- **Urgesi C.** (2006). I disturbi dello sviluppo della coordinazione motoria. *Saggi. Child Development & Disabilities*, Vol XXXII (Neuropsicologia evolutiva e disturbi dell'apprendimento, Parte I) 4: 53-63.
- **Urgesi C.** (2006). Sistemi neurali coinvolti nella percezione del corpo. *Studi neurofisiologici. DiPAV- Quaderni*, 15: 35-58, Franco Angeli.

Invited talks (selected)

- October 2016: Top-down modulations of motor resonance to social stimuli. Invited talk for the symposium "Emotions and social brain" at the XXIV Congresso nazionale SIPF (Società Italiana di Psicofisiologia), 26-29 October 2016, Milano.
- June 2016: Reshaping the body aesthetics brain: behavioural and transcranial magnetic stimulation studies of body exposure effects in healthy individuals and patients with Anorexia Nervosa. Invited talk for the Symposium "The Neuroaesthetics of People" (Chairs: Beatriz Calvo-Merino, Guido Orgs, Londra) Third ESCAN Conference (European Society of Cognitive and Affective Neuroscience), 23-26 June 2016, Porto, Portugal.
- June 2016: Self Transcendence and its effects on empathy. Invited seminar talk at the Department of Cognitive Neuroscience, University of Leiden, The Netherlands. 8 June 2016.
- June 2016: Spiritual Brain and embodied minds: Neural bases of self-transcendence and its relation with empathy. Invited seminar talk at the Department of Psychology of the Edge Hill University, Liverpool, UK. 01 June 2016.
- May 2016: Transcending the self to understand others: The effects of meditation and spirituality on emotion recognition. Oral presentation at the 10th International Conference of Psychology, ATINER Institute, Athens, (Greece). 23 May 2016.
- December 2015: Reshaping the body aesthetics brain: behavioral and transcranial magnetic stimulation studies of body exposure effects in healthy individuals and patients with Anorexia Nervosa. Psychology Department seminar at City University of London, UK, 2 December 2015.
- July 2015: Self-transcendence, Mindfulness and Yoga Invited talk at the Mindfulness and the Brain Workshop, Mindfulness in Society Conference, Chester, UK, 3 July 2015.
- February 2015: Perceiving and Appreciating the Beauty of the Body: The Influence of Personality and Perceptual Experience. Seminar talk at the School of Psychological Sciences of the University of Manchester, UK, 25 February 2015.
- November 2014: Does motor resonance require perceptual awareness? Workshop Motor Control & Cognition – A Matter of Constitution? Heinrich-Heine-Universität Düsseldorf, 8 November 2014.
- October 2014: Neural bases of explicit and implicit dimensions of spirituality. Seminar Talk at the Department of Psychology, University of Essex, Colchester, 14 October 2014.
- March 2014: "L'insostenibile leggerezza del corpo. La percezione dei cambiamenti corporei tra illusione e realtà." (Perceiving changes in the body: illusion and reality. Infinitamente Science festival, University of Verona, 14 March 2014.
- November 2013: Perceiving and Appreciating the Beauty of the Body: The Influence of Personality and Perceptual Experience. Of Pain and Pleasure- Seminar on neuroaesthetics at European center for Living Technologies, Venezia, 23 novembre 2013.
- September 2013 -Visual and motor components of superior action prediction abilities in sport. Intersubjectivity in Sport seminar- Bielefeld, Germania- 10 settembre 2013.
- May 2013: Perception and misperception of human body forms and body actions. Master WISDOM, Scuola Superiore Sant'Anna and Lama Tzong Kapha Institute, Pomaia, Pisa, Italy.
- January 2013: Perception and misperception of human body forms and body actions. Symposium at the Ruhr University of Bochum, (Of faces and bodies), Bochum, Germany, 14 January 2013.
- September 2012 - Embodied aesthetics: Visual and sensorimotor components of aesthetic experience. Symposium at the 5th International Conference on Spatial Cognition (Convenor and speaker). Rome, 4-8 September 2012.

- o September 2012: Embodied aesthetics, Meeting of the Italian Association of Psychology (AIP), Section of Experimental Psychology, Chieti, September 2012.
- o May 2012 – The Italian adaptation of NEPSY-II. Theory, structure and clinical application. Conference talk: Modelli d'intelligenza e strumenti di ultima generazione. Meeting with Alan e Nadeen Kaufman su WISC-IV, KABC-II e NEPSY. Milano, 11 may 2012
- o April 2012 – Connectivity between executive and semantic systems. Visiting Professor Lecture at the University of La Rioja, Argentina, 24 April 2012.
- o April 2012 - Anticipatory Motor Simulation of Body Actions. Seminar at Institute of Cognitive Neurology (INECO). Buenos Aires, Argentina, 19 April 2012
- o March 2012 – Administration of NEPSY-II tests. *GIORNATE DI AGGIORNAMENTO SULL' USO DEI TEST IN PSICOLOGIA CLINICA DELLO SVILUPPO*. Bologna, 2 march 2012.
- o November 2011 – Anticipatory simulation of body actions in sport: Psychophysics and TMS studies. Satellite symposium, Annual meeting of the Italian Society of Psychophysiology, Brescia, 14 November 2011.
- o December 2010 – Perception and representation of the body in the brain: clinical and research issues. *Conference “La Salute del Bambino tra Genetica e Neuroscienze”*, IRCCS E. Medea, Bosisio Parini, 11 December 2011.
- o October 2010 – Neural representation of the human body and its actions. *Conference “I Corpi nel Cervello. Prospettive di ricerca nel rapporto tra mente e corpo”*. Ospedale del Sacro Cuore - Negrar, Verona, 07 October 2010.
- o October 2010 - Anticipatory Motor Simulation of Body Actions. The Trieste Symposium on Perception and Cognition. 28 October 2010.
- o September 2010 - Neuropsychological investigation of spirituality: Selective cortical lesions modulate human self transcendence. Symposium, Second Meeting of the Federation of European Societies of Neuropsychology (ESN), Amsterdam, 22 September 2010.
- o June 2010 - Anticipatory Motor Simulation of body actions. Action colloquium. Max Planck Institute for Human Cognitive and Brain Sciences. Leipzig, Germany, 29 June 2010.
- o May 2010 – Anticipatory Motor Simulation of body actions. Seminar at the Department of Psychology University of Rome La Sapienza .
- o April 2010 – Neuropsychology of SelfTranscendence. Conference “Evoluzione e filosofia della mente. Tra creatività e intelligenza artificiale”, International Institute for Humankind Studies, Firenze. “. “. Brescia 25 April 2010.
- o December 2009 – The Body in the Brain: Perception and representation. Conference “Dottore, vorrei un corpo bionico! “Cibernetica e biorobotica.” Roma, 02 December 2009.
- o June 2009 - Visual and Motor representation of body form and body action perception. *DISCOS Summer School*. Parma, 16th-19th June 2009.
- o May 2009 - Neural Representation of the human body and its forms. Neurophilosophy Seminars. Department of Philosophy, University of Milan, 22th May 2009.
- o October 2007 - Neuropsychology of Second Language Acquisition. *XVI Convegno Nazionale ILSA “PROCESSI DI APPRENDIMENTO LINGUISTICO E GESTIONE DELLA CLASSE AD ABILITA' DIFFERENZIATE”* Firenze, 27 October 2007.
- o April 2007 - Neural representation of static and moving bodies. *Workshop “IL CERVELLO MOTORIO: teoria, clinica, ipotesi riabilitative”*. Rome, 14 April 2007.
- o March 2007 - Neuropsychology of Self Transcendence. *Brain Awareness Week Meeting “Il Cervello Mistico – The Mystic Brain”*. Rome, 13 - 15 March 2007.