



UNIVERSITÀ
DI PARMA

Curriculum dell'attività scientifica e didattica del Prof. Vittorio Gallese



-Il Prof. Vittorio Gallese è nato a Parma il 17/5/59.

- Ha conseguito la Maturità Classica nel 1978 e si è iscritto alla Facoltà di Medicina e Chirurgia dell'Università di Parma nell'anno accademico 1978-79.

-Dal secondo anno del corso di laurea ha iniziato a frequentare in qualità di allievo interno, l'Istituto di Fisiologia Umana della stessa Università. In tale periodo ha partecipato, sotto la guida del Prof. Rizzolatti e del Prof. Matelli a ricerche di neurologia sperimentale, di neurofisiologia e di neuroanatomia, apprendendo la metodica del condizionamento operante e l'uso delle tecniche elettrofisiologiche della microstimolazione intracorticale e della registrazione extracellulare dell'attività di singoli neuroni. In particolare, ha collaborato a ricerche riguardanti lo studio dei disturbi dell'attenzione conseguenti ad ablazioni nel lobo frontale e parietale di scimmia.

-Nell'anno 1983 è risultato vincitore di una borsa di studio dell'IFMSA, grazie alla quale ha frequentato la Clinica Neurologica dell'Università di Helsinki, Finlandia.

-Nell'anno accademico 1983/1984 si è **laureato in Medicina e Chirurgia** discutendo una tesi sperimentale dal titolo: "Disturbi dell'attenzione dopo lesioni del lobo frontale e parietale di scimmia.

-Ha conseguito l'abilitazione all'esercizio della professione nella prima sessione dell'anno 1985.

-Dopo la laurea il Prof. Gallese ha continuato l'attività sperimentale già intrapresa da studente, in qualità di laureato frequentatore presso l'Istituto di Fisiologia Umana dell'Università di Parma. In particolare si è dedicato allo studio dell'organizzazione somatotopica e delle proprietà funzionali delle aree premotorie nella scimmia (area 6 mesiale ed area 6 inferiore) mediante le tecniche della microstimolazione intracorticale e della registrazione extracellulare dell'attività di singoli neuroni. Ha collaborato inoltre a ricerche elettrofisiologiche sull'organizzazione delle aree motorie nel galago.

-Nel 1988 il Prof. Gallese è risultato vincitore di una borsa di studio del Lions Club, grazie alla quale ha frequentato l'**Istituto di Anatomia dell'Università di Losanna, Svizzera**, diretto dal Prof. H. Van der Loos. In tale periodo ha collaborato con il Prof. G. Innocenti in ricerche di tipo neuroanatomico sullo sviluppo delle connessioni della corteccia visiva del gatto, apprendendo la tecnica per l'iniezione intraneuronale di un tracciante fluorescente (Lucifer Yellow).

-Nell'anno accademico 1988-1989 il Prof. Gallese si è **specializzato in Neurologia** presso la Clinica Neurologica dell'Università di Parma, discutendo una tesi sperimentale dal titolo: "La corteccia fronto-parietale del galago: uno studio di microstimolazione intracorticale".

-Negli anni seguenti il Prof. Gallese ha esteso i propri interessi nel campo della neuropsicologia, apprendendo, sotto la guida del Prof. Gentilucci, l'uso di tecniche per lo studio computerizzato della cinematica dei movimenti di raggiungimento-prensione nell'uomo.

-Nel 1992 il Prof. Gallese è stato invitato dal Prof. Hideo Sakata a trascorrere un periodo di un anno presso il Dipartimento di Fisiologia della Facoltà di Medicina della **Nihon University, Tokyo, Giappone**, da lui diretto, per collaborare in qualità di visiting researcher a ricerche neurofisiologiche riguardanti il ruolo della corteccia parietale nell'integrazione visuo-motoria che presiede all'organizzazione dei movimenti di prensione della mano nella scimmia. Tale collaborazione scientifica è avvenuta nell'ambito e con il supporto dello Human Frontier Scientific Project.

-Nel 1993 il Prof. Gallese è risultato vincitore di una **borsa di studio della Japan Society for the Promotion of Science (JSPS)**, grazie alla quale ha potuto prolungare di un anno la propria permanenza presso il Dipartimento di Fisiologia diretto dal Prof. Sakata a Tokyo, Giappone. Durante tale periodo ha approfondito lo studio delle proprietà funzionali di una particolare regione del lobo parietale inferiore di scimmia coinvolta nell'organizzazione dei movimenti di prensione della mano (area AIP).

-Nell'Aprile dell'anno 1994 il Prof. Gallese ha fatto ritorno in Italia riprendendo a lavorare presso l'Istituto di Fisiologia Umana dell'Università di Parma presso il quale ha introdotto la tecnica dell'inattivazione corticale reversibile mediante l'uso di un GABA-agonista (Muscimolo) precedentemente appresa in Giappone. Tale metodica sperimentale è stata applicata allo studio dell'integrazione visuo-motoria che presiede all'organizzazione dei movimenti di raggiungimento-prensione nella scimmia. Contemporaneamente ha esteso i propri interessi scientifici partecipando ad esperimenti di stimolazione magnetica corticale nell'uomo.

-Dal Dicembre 1994 al Dicembre 1997 il Prof. Gallese ha ricoperto il ruolo di **ricercatore** presso l'Istituto di Fisiologia Umana dell'Università di Parma, essendo risultato vincitore nel concorso per un posto di ricercatore per il gruppo disciplinare E06-A.

-Dal Dicembre 1997 al Marzo del 2000 il Prof. Gallese ha ricoperto il ruolo di **ricercatore confermato** presso l'Istituto di Fisiologia Umana dell'Università di Parma.

-Dal 1 Marzo 2000 il Prof. Gallese ha ricoperto il ruolo di **Professore Associato (BIO 09)** presso la Sezione di Fisiologia del Dipartimento di Neuroscienze dell'Università di Parma.

-Dal 1 Marzo 2004 il Prof. Gallese ha ricoperto il ruolo di **Professore Associato Confermato (BIO 09)** presso la Sezione di Fisiologia del Dipartimento di Neuroscienze dell'Università di Parma.

-Dal 1 Novembre 2006 il Prof. Gallese ha ricoperto il ruolo di **Professore Straordinario (BIO 09)** presso la Sezione di Fisiologia del Dipartimento di Neuroscienze dell'Università di Parma.

-Dal 1 Novembre 2009 il Prof. Gallese ricopre il ruolo di **Professore Ordinario Confermato (BIO 09)** presso l'Unità di Neuroscienze del Dipartimento di Medicina e Chirurgia dell'Università di Parma.

-Dal 28 Aprile 2010 il Prof. Gallese ricopre il ruolo di **Adjunct Senior Research Scholar**, presso il Dept. of Art History and Archeology, Columbia University, New York, USA.

- Dal 1 Gennaio 2016 il Prof. Gallese ricopre il ruolo di **Professor in Experimental Aesthetics** all'Institute of Philosophy della University of London, U.K.

Dal 2007 il Prof. Gallese è **Coordinatore del Dottorato in Neuroscienze** dell'Università di Parma.

Dal 2011 è **Direttore della Scuola Dottorale in Medicina e Chirurgia e Medicina Veterinaria** dell'Università di Parma.

Attività didattica

-L'attività didattica del Prof. Gallese è iniziata nell'anno accademico 1989-1990. Dal suddetto fino all'anno accademico 1991-1992, ha ricoperto i seguenti incarichi di insegnamento:

Scuola di specializzazione in Biochimica e Chimica clinica: "Elementi di Fisiopatologia" per gli anni accademici 1989-1990, 1990-1991.

-Negli anni accademici 1991-1992, 1994-1995, 1995-1996, 1996-1997, 1997-1998 ha svolto la seguente attività didattica integrativa:

Corso di laurea in Medicina e Chirurgia: Fisiologia Umana.

Corso di laurea in Odontoiatria e Protesi Dentaria: Fisiologia Umana.

Scuola di specializzazione in Biochimica e Chimica clinica: Istituzione di Fisiopatologia.

-Nell'anno accademico 1995-96 ha svolto inoltre attività didattica integrativa presso la Scuola di Specializzazione in Ortopedia e Traumatologia: "Fisiologia applicata".

-Negli anni accademici 1999-97 e 1997-1998 ha svolto attività didattica integrativa presso il Corso di laurea in Psicologia dell'Università di Parma: Fondamenti anatomo-fisiologici dell'attività psichica.

-Dall'anno accademico 1998-99 all'anno accademico 1999-2000 ha ricoperto un contratto di supplenza presso il Corso di Laurea in Psicologia dell'Università di Parma: "Fondamenti anatomo-fisiologici dell'attività psichica".

-Dall'anno accademico 2000-2001 all'anno accademico 2002-2003 ha ricoperto un contratto di supplenza presso il Corso di Laurea in Psicologia dell'Università di Parma: "Neurofisiologia".

Dall'Anno Accademico 2000-2001 fino a tutt'oggi, il Prof. Gallese ha tenuto il corso di Fisiologia Cardio-Vascolare presso il Corso di Laurea in Medicina e Chirurgia, il Corso di Fisiologia presso i Corsi di Laurea Breve in Scienze Infermieristiche, Ostetriche e Tecniche Radiologiche.

Dall'Anno Accademico 2003-2004 all'Anno Accademico 2008-2009 il Prof. Gallese ha tenuto il corso di Fisiologia presso il Corso di Laurea in Odontoiatria e Protesi Dentaria.

Nell'Anno Accademico 2010-2011 il Prof. Gallese ha tenuto il **Corso Integrato Psicoanalisi e Neuroscienze** presso la **Facoltà di Psicologia dell'Università Vita-Salute San Raffaele di Milano**.

Negli Anni Accademici 2010-2011, 2011-2012, 2012-2013 il Prof. Gallese ha tenuto il **Corso Integrato Neurofenomenologia** presso la **Facoltà di Psicologia dell'Università Vita-Salute San Raffaele di Milano**. Nell'Anno Accademico 2014-15 il Prof. Gallese ha tenuto il **Corso Social Cognitive Neuroscience** presso il **CLINICAL PSYCHOLOGY FOR INDIVIDUALS, FAMILIES AND ORGANIZATIONS** (D.M. 270/04) [64-270-ENG] presso l'**Università degli Studi di Bergamo**.

Attività Scientifica

L'attività di ricerca del Prof. Gallese ha da sempre incentrato i propri interessi sulla relazione tra sistema sensori-motorio e cognizione nei primati non-umani e nell'uomo. Tale ricerca ha inizialmente riguardato lo studio della codifica dello spazio e lo studio dell'integrazione visuo-motoria che presiede ai movimenti di raggiungimento-prensione e al riconoscimento dei gesti nell'area 6 inferiore di scimmia mediante registrazione di singoli neuroni e lo studio dei circuiti corticali coinvolti nell'organizzazione dei movimenti di raggiungimento-prensione nell'uomo mediante l'impiego della tecnica della Risonanza Magnetica funzionale (fMRI). Tra i contributi principali del Prof. Gallese vi è la scoperta assieme ai colleghi del gruppo di Parma dei neuroni specchio, e l'elaborazione di un modello neuroscientifico dell'intersoggettività, la teoria della Simulazione Incarnata (Embodied Simulation). Il Prof. Gallese ha esteso i suoi interessi nel campo delle scienze cognitive, dedicandosi allo studio delle basi neurobiologiche di funzioni cognitive quali l'intersoggettività, l'empatia, l'estetica e il linguaggio, con metodiche comportamentali e di brain imaging. Promuove e collabora allo sviluppo di approcci multidisciplinari a queste tematiche con filosofi della mente (Alvin Goldman, Thomas Metzinger, Corrado Sinigaglia), psichiatri (Filippo Maria Ferro, Carlo Maggini, Thomas Fuchs, Peter Henningsen, Josef Parnas), psicoanalisti (Morris Eagle, Paolo Migone, Massimo Ammaniti) linguisti cognitivi (George Lakoff, Art Glenberg), storici dell'arte (David Freedberg), teorici del cinema (Michele Guerra), archeologi (Maurizio Forte) e narratologi (Hannah Wojciehowski). Gli attuali temi di ricerca concernono lo studio dei meccanismi nervosi alla base della comprensione intenzionale, dell'empatia, dell'esperienza estetica e le alterazioni nervose alla base di autismo e schizofrenia. A tale scopo, vengono utilizzate tecniche comportamentali, EMG, di registrazione di singoli neuroni, TMS, EEG ad alta densità e fMRI.

-Il Prof. Gallese è membro della Società Italiana di Fisiologia, della European Brain and Behavior Society, della Società Italiana di Neuropsicologia, del Comitato Scientifico della Fondation Fyssen, Paris, France, e dell'International Neuropsychological Symposium.

-La produzione scientifica del Prof. Gallese è attestata da un totale di **269 pubblicazioni**, **217** delle quali *in extenso* e pubblicate su Riviste e Libri internazionali e nazionali, e dalla pubblicazione di due libri in qualità di autore e di tre libri in qualità di curatore.

ISI h-index= 61 (195 articles).

Average citation per article = 138.17

Sum of Times Cited without self-citations: 25794

Average citations per year: 997.81

Scopus h-index: 66.

Google Scholar h-index=81; i10-index =206.

Average I.F. / paper = 5.45

-I risultati delle ricerche compiute dal Prof. Gallese hanno destato vasta eco sulla stampa internazionale e nazionale (Die Zeit, Der Spiegel, New York Times, The NewScientist, Le Scienze, Quark, Focus, La Repubblica, Il Sole 24 Ore, La Stampa, Corriere della Sera, la Gazzetta di Parma).

Premi e riconoscimenti:

George Miller Visiting Professor Fellowship – University of California at Berkeley, USA, 2002.

Grawemeyer Award for Psychology – University of Louisville, KY, USA, 2007.

Paul Harris Fellow – Rotary Club Milano Scala, 2009.

Doctor Honoris Causa – Università Cattolica di Lovanio, Belgio, 2010.

Arnold Pfeffer Prize for Neuropsychoanalysis – International Neuropsychoanalysis Society, New York, U.S.A., 2010.

KOSMOS Professor Fellowship - Humboldt University, Berlin, Germany, 2013-14.

Premio Musatti – Società Psicoanalitica Italiana, 2014.

Chandaria Lectures – University of London, 2015.

Kanizsa Lecture – Society for Gestalt Theory and its Applications, Parma 2015.

Einstein Visiting Fellow – Humboldt University, Berlin School of Mind and Brain, Germany, 2016-18.

Finanziamenti alla ricerca

-Dal 1998 al 2001 il Prof. Gallese è stato coordinatore e Principal Investigator di un progetto triennale di ricerca internazionale finanziato dallo Human Frontier Scientific Program Organization con 666.000 \$.

-Dal 2001 al 2004 il Prof. Gallese è stato Principal Investigator del Programma Europeo MIRRORBOT, IST-2001 3582.

-Dal 2002 al 2005 il Prof. Gallese è stato coordinatore del progetto triennale di ricerca OMLL finanziato dalla European Science Foundation con 60.000 Euro.

-Dal 2008 al 2011 il Prof. Gallese è stato Principal Investigator del Marie-Curie Training Network "Disorder and Coherence of the Self" (DISCOS-35975), finanziato con 367.511,57 Euro.

Dal 2011 il Prof. Gallese è Principal Investigator del Marie-Curie Training Network "Towards an embodied science of intersubjectivity" (TESIS-264828) finanziato con 675.577,00 Euro.

Dal 2014 il Prof. Gallese coordina il progetto scientifico triennale "Il meccanismo dei neuroni specchio nella cognizione sociale: Uno studio elettroencefalografico ad alta densità", finanziato dalla Fondazione Chiesi di Parma con 75.000 Euro

Attività editoriale

-Il Prof. Gallese è Associate Editor della rivista Psychopathology e membro del Comitato Editoriale delle riviste Philosophical Transactions of the Royal Society B, Biological Theory, Cognitive Neuroscience, Phenomenology and the Cognitive Sciences, Social Cognitive and Affective Neuroscience, Networks, e Sistemi Intelligenti.

-Il Prof. Gallese ha svolto e continua a svolgere opera di revisione anonima di contributi di altri autori per le riviste Science, Trends in Cognitive Sciences, Brain, Behavioral Brain Sciences, Cognitive Brain Research, Cerebral Cortex, Cognitive Science, Consciousness and Cognition, Current Biology, Experimental Brain Research, European Journal of Neuroscience, Human Brain Mapping, Journal of Cognitive Neuroscience, Journal of Experimental Psychology, NeuroImage, Neuropsychologia.

-Il Prof. Gallese ha partecipato, in qualità di **relatore invitato**, ai seguenti **Simposi, Congressi, e Seminari**:

2016

Me, the Self and I. Doctoral School in Philosophy and Human Sciences, Milano, 14 January 2016: *The paradigmatic body. Embodied simulation and intersubjectivity.*

Duke University workshop on Neuroarcheology, Duke University, Durham, 7 March 2016: *Embodying movies. Embodied simulation and film studies.*

Annual Interpersonal Neurobiology Conference UCLA, Los Angeles, 4 March 2016: *What mirror neuronresearch tells us about how brains influence each other.*

4th Annual meeting of young Italian Psychiatrists, Rome, 6 May 2016: *The paradigmatic body. Embodied simulation and intersubjectivity.*

Second Biennial International Childhood Trauma Conference, Melbourne, 6-10 June 2016: *The bodily self and its motor potentialities. Behavioral and neurophysiological evidence.*

Second Biennial International Childhood Trauma Conference, Melbourne, 6-10 June 2016: *Mirror neurons, embodied simulation and intersubjectivity.*

Second Biennial International Childhood Trauma Conference, Melbourne, 6-10 June 2016: *Emotions in action. Emotion regulation and recognition in traumatized and neglected young individuals.*

International Conference on Attachment and Trauma, Rome, 6-10 September 2016: *Emotions in action. Emotion regulation and recognition in traumatized and neglected young individuals.*

Second European Association Dance Movement Therapy Conference, Milano, 9 September 2016: *A new take on intersubjectivity: embodied simulation and a second-person relational approach to social cognition.*

The Symbolic Animal: Evolution and Neuroethology of Aesthetics, Erice, 16-17 October 2016: *Visions of the body. The problem of images and neuroscience.*

Tübinger Poetik-Dozentur, University of Tübingen, 17 November 2016: *A dialogue between Cognitive Neuroscience and the Humanities is possible: An experimental aesthetics manifesto.*

2015

"The body, the brain, symbolic expression and its experience. An experimental aesthetics perspective". 1st Chandaria Lecture, SAS, University of London, UK, January 2015.

"The body, the brain, symbolic expression and its experience. An experimental aesthetics perspective". 2nd Chandaria Lecture, SAS, University of London, UK, February 2015.

"The body, the brain, symbolic expression and its experience. An experimental aesthetics perspective". 3rd Chandaria Lecture, SAS, University of London, UK, February 2015.

"Psychopathology of the bodily self and the brain. The case of schizophrenia. Dept. of Psychiatry, United Arab Emirates University, Al Ain, United Arab Emirates, March 2015.

"The body, the brain, symbolic expression and its experience. An experimental aesthetics perspective". United Arab Emirates University, Al Ain, United Arab Emirates, March 2015.

"Motor Cognition. A new look at the cognitive functions of the cortical motor system. XXth International Conference of Rehabilitation in Multiple Sclerosis. Milano, Italy, April 2015.

"Architectural space from within. The body, space and the brain. International Conference on Empathy in architecture. Helsinki, Finland, April 2015.

"The multimodal nature of visual perception. The Kanizsa lecture. XIX International conference of the Gestalt Theory Association, Parma, Italy, May 2015.

Embodying movies. Embodied simulation and film theory. International Conference of the Society for the cognitive study of the moving image. London, UK, June 2015.

"Visions of the body. Cinema & Neuroscience. International workshop Film & Empathy. Crossing Perspectives. SAS, University of London, UK, June 2015.

2014

"The body, symbolic expression and its experience: An experimental aesthetics perspective". Conference Visualising Posture in Dante's Comedy: History, Theory, Practice. University of Cambridge, UK, September 2014.

"Mirror neurons, embodied simulation and a second-person relational approach to social cognition. International Conference on Attachment & Trauma, Rome, Italy, September 2014.

"Neotenic bodily selves in relation. A neuroscientific perspective on embodiment. International Conference Enacting Culture, University of Heidelberg, Germany, October 2014.

2011

From mirror neurons to embodied simulation: A new look at intersubjectivity. Freudian Unconscious: Between psychoanalysis and neuroscience, University of Lausanne, Switzerland, October 2011.

From mirror neurons to embodied simulation: A new look at intersubjectivity. Neurobiologische Korrelate der zwischenmenschlichen Beziehung, Universitäts Freiburg, Germany, October 2011.

The body in aesthetic experience: A neuroscientific perspective. New Perspectives, New Technologies, Cà Foscari, Venice, Italy, October 2011.

Motor cognition: A new perspective on the motor system. ISMRM-Mapping Functional Networks for Brain Surgery. Milan, Italy, September 2011.

Bodily selves in relation: Embodied simulation and intersubjectivity. The 12th International Neuropsychanalysis Congress, Berlin, Germany, June 2011.

Seeing art beyond vision: Liberated embodied simulation. Workshop: Seeing with the eyes closed. Peggy Guggenheim Collection, Venice, Italy, June 2011.

Mirror neurons and embodied simulation: The interactive biology. Princeton University, May 2011.

From mirror neurons to embodied simulation: A new look at intersubjectivity. Rutgers University, USA, May 2011.

Body and mimesis in intersubjectivity. A neuroscientific perspective. Tilburg University, holland, march 2011.

From mirror neurons to embodied simulation: A new look at intersubjectivity. The International School of Philosophy, Leusden, Holland, March 2011.

Body and empathy in aesthetic experience: A neuroscientific experience. The University of Texas at Austin, USA, February 2011.

From mirror neurons to embodied simulation: A new look at intersubjectivity. The University of Texas at Austin, USA, February 2011.

The body in aesthetic experience: A neuroscientific perspective. CFFS and FHI, Duke University, USA, February 2011.

From mirror neurons to embodied simulation: A new look at intersubjectivity. Center for Cognitive Neuroscience, Duke University, USA, February 2011.

Mirror neurons, embodied simulation and their putative role in social cognition. 29th European Workshop on Cognitive Neuropsychology, Bressanone, Italy, January 2011.

2010

The body in aesthetic experience: A neuroscientific perspective. The Italian Academy at Columbia University, NYC, USA, October 2010.

Motor cognition and its role in intersubjectivity. Centre Interfacultaire de Neurosciences. Université de Genève, Switzerland, October 2010.

From mirror neurons to embodied simulation. A new perspective on intersubjectivity. Neuropsychanalysis Lecture Serie at the New York Psychoanalytic Institute, NYC, U.S.A., October 2010.

Motor cognition and its role in intersubjectivity. Institute of Movement Neuroscience Seminars. UCL, London, UK, July 2010.

Why embodied cognition is (mainly) motor cognition: A new look at the motor system. Barnard College Interdisciplinary Workshop on embodiment. Columbia University, NYC, USA, July 2010.

Emotion in action. International Neuropsychological Symposium, Ischia, Italy, June 2010.

Bodily selves for bodily minds. Neuroscience Open Forum, ESOF, Turin, Italy, May 2010.

Mirroring mechanisms and embodied simulation: Clinical Implications. Munich Integration Workshop, University of Munich, Germany, May 2010.

Aesthetic experience in action: A neuroscientific perspective. Kolleg-Forschergruppe Bildakt und Verkörperung, Humboldt University, Berlin, Germany, March 2010.

The bodily Self as power for action. Institute Jean Nicod, CNRS, EHEES, ENS, Paris, France, February 2010.

2009

Embodied simulation and aesthetic experience. International meeting on Neuroaesthetics, Library of Peggy Guggenheim Collection, Venice, 4 June 2009.

Mirror neurons and the social self. International Summer School in Neuroscience and Philosophy of Mind, Alghero, Italy, 27 September 2009.

Mirror neurons and embodied simulation: The basis of shared experience. Presidential Symposium of the 134th Meeting of the American Neurological Association, Baltimore U.S.A., 12 October 2009.

2008

Mirror neurons, embodied simulation and aesthetic experience. Wien Modern Festival, Wien, Austria, 5 November 2008.

Embodied simulation and its role in intersubjectivity. International Conference on Disorders and Coherence of the Self. Heidelberg, Germany, 14 November 2008.

Empathy and the brain. International Symposium on Neuroscience and Psychopathology. Tenerife, Spain, 21 November 2008.

Mirror neurons, embodied simulation and their role in social cognition. International Meeting on Mimesis and Science, Collège des Bernardins, Paris, France, 8 December 2008.

2007

2007, November: From mirror neurons to intersubjectivity: A neuroscientific perspective on social cognition. Einstein Forum, Potsdam, Germany.

2007, July: Embodied simulation and the social nature of language: The neural exploitation hypothesis. International Symposium on Narrative Alternatives to Theory of Mind, University of Hertfordshire, U.K.

2007, June: Embodied simulation: From mirror neurons to intersubjectivity. Symposium Internacional Sobre Neurociencias y Psicopatología Santa Cruz De Tenerife, Spain.

2007, May: From mirror neurons to intersubjectivity: A neuroscientific perspective on social cognition. The 37th Annual Meeting of the Jean Piaget Society, Amsterdam, The Netherlands.

2007, April: Embodied simulation: From mirror neurons to social cognition. International symposium on Imitation, Mimetic Theory & Religious and Cultural Evolution, Stanford University, USA.

2007, April: Mirror neurons, embodied simulation and aesthetic experience. The Italian Academy Columbia University, NYC, USA.

2007, February: Embodied simulation: From mirror neurons to intersubjectivity. International conference on Reciprocity: Theories and facts, Verbania, Italy.

2007, January: Embodied simulation and the autistic spectrum disorder. I European Workshop on Developmental Neuropsychology Bressanone, Italy.

2006

2006, October: Embodied simulation: From mirror neurons to social cognition. Department of Psychology, Goldsmiths' College University of London, U.K.

2006, September: Intentional attunement: Neural correlates of intersubjectivity. International conference on Subjectivity, Objectivity, Intersubjectivity, Copenhagen, Denmark.

2006, July: Intentional attunement: From mirror neurons to intersubjectivity. 10th World Congress of the World Association of Infant Mental Health, Paris, France.

2006, June: Before and below Theory of mind. 9th International conference on Philosophy, Psychiatry and Psychology, Leiden, The Netherlands.

2006, June: Embodied simulation in language processing. International workshop on The Architecture of Language, University of Pisa, Pisa, Italy.

2006, May: Before and below theory of mind: From mirror neurons to social cognition. Royal Society Discussion Meeting on Social Intelligence: From Brain to Culture. London, U.K.

2006, April: The linguistic body: Embodied simulation and its role in linguistic processing. 6th International conference on the Evolution of language, Rome, Italy.

2006, April: Before and below theory of mind: Mirror neuron systems and their role in intersubjectivity. LOGOS: International workshop on Intentions in reference and communication. Barcelona, Spain.

2006, March: Seeing as...: Embodied simulation in aesthetic experience. International conference on Art and the New Biology of the Mind
Columbia University, NYC, USA.

2006, March: The ventro-dorsal stream: A neurophysiological perspective on parieto-premotor circuits. Center for Neurobiology and Behavior Columbia University, NYC, USA.

2006, February: Deconstructing the social mind: Embodied simulation and the neural correlates of intersubjectivity. LAPSCO, Université Blaise Pascal, Clermont-Ferrand, France.

2006, February: Deconstructing the social mind: Embodied simulation and the neural correlates of intersubjectivity. International symposium on "Embodied simulation", Kloster Irsee, Germany.

2005

2005, December: Before and below theory of mind: From mirror neuron systems to social cognition. International conference on : "Contribution of Mirroring Processes to Human Mindreading", Château de Maffliers, France.

2005, October: Embodied simulation: From mirror neuron systems to interpersonal relations. Novartis Foundation Symposium 278 "Empathy and Fairness" London, U.K.

2005, August: The sixth sense: From mirror neurons to intentional attunement. Synapsis, Bertinoro, Italy.

2005, June: The body in the mind: Cognitive functions of the sensory-motor system. 3rd European Neuro-IT and Neuroengineering School -Neuroengineering of Cognitive Functions, Venice, Italy.

2005, March: Embodied simulation: From neurons to phenomenal experience. Atelier: "Systèmes résonnants, empathie, intersubjectivité" Ecole Normale Supérieure, Paris, France.

2005, February: Il sistema multiplo di condivisione: Dai neuroni all'empatia. XXXII Seminario: Neurobiologia della Coscienza Accademia Nazionale dei Lincei Roma, Italy.

2005, January: The body in the mind: Cognitive functions of the sensory-motor system. XXIII European Workshop on Cognitive Neuropsychology Bressanone, Italy.

2005, January: Intentional attunement: From mirror neurons to empathy. The 4th International Conference on Neuroesthetics, UC Berkeley Art Museum, Berkeley, USA.

2004

2004, Maggio: Il senso dell'azione: un meccanismo neurofisiologico". Il Convegno Nazionale di Riabilitazione, Napoli, Italia.

2004, Maggio: "The mirror neuron system". International Workshop on the Fusion of Neuroscience and Robotics. College de France, Paris, Francia.

2004, Aprile: "The shared manifold hypothesis: Embodied simulation and its neural underpinnings". 2004 Meeting of the American Philosophical Association, Chicago, USA.

2004, Aprile: "Us and them: a neuroscientific perspective on intersubjectivity. First OMLL Conference of the European Science Foundation, Max Planck Institute, Leipzig, Germania.

2004, Marzo: "Le basi neurofisiologiche dell'imitazione". La Ricerca in Neuroscienze -Settimana di Incontri Scientifici, Università La Sapienza, Roma, Italia.

2004, Febbraio: "The Shared manifold hypothesis: looking for the neural correlates of social cognition". Cognition and Brain Sciences Unit, Medical Research Council, Cambridge, Gran Bretagna.

2004, Febbraio: "The inner sense of action: a perspective on action control and representation". Max Planck Institute for Brain Research, Frankfurt, Germania.

2004, Gennaio: "Il senso dell'azione: una prospettiva neurofisiologica". Scuola Normale, Pisa, Italia.

2003

2003, Novembre: "The shared manifold hypothesis: from mirror neurons to intersubjectivity". International Workshop on the Philosophy of Mind, Università di Mainz, Mainz, Germania.

2003, Novembre: "Le basi neurofisiologiche dell'intersoggettività". Workshop della Società Italiana di Psicoterapia Comportamentale e Cognitiva, Roma, Italia.

2003, Ottobre: "From action control to action representation: mirror neurons and the cognitive functions of the premotor cortex". International Workshop on the Frontal Lobe, Università di Nancy, Nancy, Francia.

2003, Ottobre: "The shared manifold hypothesis: from mirror neurons to social cognition". Vietri International Conference on Mental Processes, Società Italiana di Filosofia Analitica, Vietri, Italia.

2003, Settembre: "Théorie de l'esprit et théorie de la simulation". Colloque des Confrontations Psychiatriques, Università di Lione, Lione, Francia.

2003, Giugno: "Dai neuroni mirror all'intersoggettività". Società psicoanalitica Italiana, Roma, Italia.

2003, Giugno: "Us and them: from mirror neurons to the shared manifold of intersubjectivity". International Congress on Constructivism and Psychotherapy, Bari, Italia.

2003, Maggio: "Lo spazio dell'azione: una prospettiva neurofisiologica". Lettura Magistrale del Convegno Nazionale della Società Italiana di Neuropsicologia, Bologna, Italia.

2003, Aprile: "From action control to action representation". EURESCO International Conference on Three-Dimensional Sensory and Motor Space, Maratea, Italia.

2003, Marzo: "From mirror neurons to empathy: embodied simulation as a key to intersubjectivity". International Workshop on Body Image and Body Schema, Università di Ghent, Ghent, Belgio.

2003, Febbraio: "The manifold nature of interpersonal relations: the quest for a common mechanism". Séminaire d'épistémologie des Sciences Cognitives, Ecole Normale Supérieure, Lione, Francia.

2003, Gennaio: "The many sides of imitation". XXI European Workshop on Cognitive Neuropsychology, Bressanone, Italia.

2003, Gennaio: "Us and them: A neurophysiological perspective on intersubjective relations". Kulturwissenschaftliches Institut, Essen, Germania.

2002

2002, Novembre: "Us and them: from mirror neurons to intersubjectivity". Cognitive Science Students Association Evening Lecture. University of California, Berkeley, USA.

2002, Ottobre: "Being like me: a neuroscientific perspectives on selves and others". Institute of Cognitive and Brain Sciences Colloquium Series, University of California, Berkeley, USA.

2002, Settembre: "Alle radici dell'empatia: le basi neurofisiologiche dell'intersoggettività". XI Congresso Nazionale della Società Italiana di Terapia Cognitiva e Comportamentale. Bologna, Italia.

2002, Luglio: "The "shared manifold" hypothesis: from mirror neurons to empathy". Dept. of Psychology, Royal Holloway College, University of London, England.

2002, Maggio: "Naturalizing concepts: a Neurophysiological Perspective". International Workshop on "Concepts" organizzato dal Dipartimento di Scienze della Comunicazione, Università di Bologna, Italia.

2002, Maggio: "The "shared manifold" hypothesis: from mirror neurons to empathy". International Conference on Imitation, Royaumont, France.

2002, Aprile: "From self-modelling to self-representation: the role of goals in the construction of the inner individual and social phenomenal field of experience". Tucson 2002 International Conference, "Towards a Science of Consciousness", Tucson, USA.

2002, Febbraio: "Dai neuroni mirror al sistema multiplo di condivisione: le basi neurali dell'intersoggettività". VII Congresso Nazionale della Società Italiana di Psicopatologia, Roma, Italia.

2001

2001, Giugno: "Mirror neurons and the observation/execution matching system: anatomical basis and functional mechanisms. First HFSPO Awardees Meeting, Torino, Italia.

2001, Giugno: "Free willing: how to naturalize semantics". The Second Meeting of the McDonnell Project in Philosophy and the Neurosciences. Tofino, Canada.

2001, Maggio: "From Action to meaning: a neuroscientific perspective". The International Computer Science Institute, University of California, Berkeley, USA.

2001, Maggio: "Intersubjective relations: From mirror neurons to the shared manifold hypothesis". 31st Annual Meeting of the Jean Piaget Society, Berkeley, California, USA.

2001, Maggio: "A neurobiological grasp of concepts: From action control to action representation". ACI Cognitique, "L'Abstraction Dans La Cognition Animale", Paris, France.

2001, Aprile: "The shared manifold hypothesis: From mirror neurons to empathy". First International Conference on Social Cognitive Neuroscience, UCLA, Los Angeles, USA.

2001, Marzo: "The act of perceiving acts: Motor processing in the perception of action". 11th International Meeting on the Neural Control of Movement, Sevilla, Spain.

2000

2000, Dicembre: "Actions, goals, and their role in intersubjectivity". Munich Encounters in Cognition and Action. Max Planck Institute, Munich, Germany.

2000, Settembre: "The motor system and action representation". LI Meeting of the Italian Physiological Society. Catania, Italy.

2000, Luglio: "Action representation and the inferior parietal lobule". XIX International Meeting of the Attention and Performance Society: Common Mechanisms in Perception and Action". Kloster Irsee, Germany.

2000, Maggio: "Agency and motor representations: new perspectives on intersubjectivity". Workshop on "Autism and Theory of Mind". Institut des Sciences Cognitives, Lyon, France.

2000, Aprile: "Mirror neurons: implications for language and culture". Center for Research in Language, UCSD, San Diego, USA.

2000, Aprile: "The intentional brain: agency and motor representations" Tucson 2000 International Conference, Tucson USA.

2000, Aprile: "Mirror neurons: towards a neural correlate of intersubjectivity". Workshop held at the Tucson 2000 International Conference, Tucson USA.

2000, Marzo: "Actions, neurons and representations: a neurophysiological perspective". Institute of Movement Neuroscience, University College, London, U.K.

2000, Febbraio: "Il soggetto agente: la base neurale della social cognition". Workshop on "Innatismo e a priori". Dipartimento di Scienze della Comunicazione, Università di Bologna, Italy.

2000, Gennaio: "From neurons to intentionality". PRESTO International Workshop on Brain, Mind, and Intelligence. Shonan, Japan.

1999

1999, Dicembre: "Cognitive functions of the premotor cortex". Research Colloquium at the Institute of Psychology, University of Munich, Germany.

1999, Novembre: "I neuroni specchio e la teoria simulazionista della lettura della mente". Workshop su: "Theory-theory vs. Simulation Theory: from theoretical models to cognitive psychopathology". Roma, Italy.

1999, Settembre: "Motor and cognitive functions of the premotor cortex". Plenary Lecture at the XXXI Annual General Meeting of the European Brain and Behaviour Society, Roma, Italy.

1999, Agosto: "Towards a neural correlative of the attribution of intentionality". Symposium on "The Prefrontal Cortex in the Etiology of Schizophrenia". XI World Congress of Psychiatry. Hamburg, Germany.

1999, Luglio: "Space, objects and actions: a neurophysiological perspective". Tutorials in Behavioral and Brain Sciences. Summer School '99 on "Neurocognitive Foundations of Perception and Action". Ohlstadt, Germany.

1999, Giugno: "Actions, faces, objects and space: how to build a neurobiological account of the self". Workshop at the third International Conference of the Association for the Scientific Study of Consciousness (ASSC). London Ontario, Canada.

1999, Febbraio: "The acting subject: towards the neural basis of social cognition". Dept. of Psychology, St. Andrews University, St. Andrews, Scotland.

1998

1998, Novembre: "Mirror neurons and the neural basis of social understanding". The Rockefeller University, New York City, USA.

1998, Luglio: "Mirror neurons: mapping external events on internal motor representations". Forum of European Neuroscience, Berlin, Germany.

1998, Giugno: "From neurons to meaning; mirror neurons and social understanding". Second International Conference of the Association for the Scientific Study of Consciousness (ASSC), Bremen, Germany.

1998, Aprile : "Mirror neurons: from grasping to language". Towards a Science of Consciousness III, University of Arizona, Tucson, USA.

1996

1996, Dicembre: "De l'action a' la signification: une perspective neurophysiologique", Meeting on Philosophie de l'action et neurosciences, Universite' de Strasbourg, France.

1996, Ottobre: "Space coding: models and theories". Annual national meeting of the Italian Association of Psychology, Capri, Italy.

1996, Giugno: "The effects of frontal and parietal lesions on visuomotor behavior in monkeys". International Neuropsychological Symposium, Santorini, Greece.

1995

1995, Maggio: "A parietal-frontal circuit for hand grasping movements in monkeys". Workshop on parietal lobe contributions to orientation in 3D space, Tuebingen, Germany.

1994

1994, Febbraio: "Complex visual properties in the ventral premotor cortex of the monkey (area F5)". Seminar at the Dept. of Physiology, Tohoku University, Sendai, Japan.

1993

1993, Dicembre: "Functional properties of the ventral premotor cortex of the monkey. Dept. of Behavioral Brain Sciences, Primate Research Institute, Kyoto, Japan.

Elenco delle pubblicazioni

-Lavori in extenso

1. Matelli M., **Gallese V.**, e Rizzolatti G. (1984) Deficit neurologici conseguenti a lesione dell'area parietale 7b nella scimmia. *Boll. Soc. It. Biol. Sper.* 40: 839-844.
2. Rizzolatti G., Gentilucci M., Camarda R., **Gallese V.**, Luppino G., Matelli M. and Fogassi L. (1990) Neurons related to reaching-grasping arm movements in the rostral part of Area 6 (Area 6 a β). *Exp. Brain Res.* 82: 337-350. **I.F. 2.34.**
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4. Fogassi L., **Gallese V.**, Gentilucci M., Chieffi S. e Rizzolatti G. (1991) Studio cinematografico dei movimenti di raggiungimento-prensione nella scimmia. *Boll. Soc. It. Biol. Sper.* LXVIII: 723-729.
5. Chieffi S., Fogassi L., **Gallese V.** and Gentilucci M. (1992) Prehension movements directed to approaching objects: influence of stimulus velocity on the transport and the grasp components. *Neuropsychologia* Vol. 30, No. 10: 877-897. **I.F. 1.88.**
6. Fogassi L., **Gallese V.**, Di Pellegrino G., Fadiga L., Gentilucci M., Luppino G., Matelli M., Pedotti A. and Rizzolatti G. (1992) Space coding by premotor cortex. *Exp. Brain Res.* 89: 686-690. **I.F. 2.34.**
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8. **Gallese, V.**, Murata, A., Kaseda, M., Niki, N. and Sakata, H. (1994) Deficit of hand preshaping after muscimol injection in monkey parietal cortex. *NeuroReport* 5: 1525-1529. **I.F. 3.07.**
9. Fogassi L., **Gallese V.**, Gentilucci M., Luppino G., Matelli M. and Rizzolatti G. (1994) The fronto-parietal cortex of the prosimian Galago: patterns of cytochrome oxidase activity and motor maps. *Behavioral Brain Res.* 60: 90-113. **I.F. 1.56.**
10. Fogassi, L., **Gallese, V.**, Fadiga, L., Luppino, G., Matelli, M. and Rizzolatti, G. (1996) Coding of peripersonal space in inferior premotor cortex (area F4). *J. Neurophysiol.* 76: 141-157. **I.F. 3.41.**
11. **Gallese, V.**, Fadiga, L., Fogassi, L. and Rizzolatti, G. (1996) Action recognition in the premotor cortex. *Brain* 119: 593-609. **I.F. 5.73.**
12. Rizzolatti, G., Fadiga, L., **Gallese, V.** and Fogassi, L. (1996) Premotor cortex and the recognition of motor actions. *Cogn. Brain Res.* 3: 131-141. **I.F. 1.73.**
13. Murata, A., **Gallese, V.**, Kaseda, M. and Sakata, H. (1996) Parietal neurons related to memory-guided hand manipulation. *J. Neurophysiol.* 75: 2180-2186. **I.F. 3.41.**
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16. Murata, A., Fadiga, L., Fogassi, L., **Gallese, V.**, Raos V., and Rizzolatti, G. (1997) Object representation in the ventral premotor cortex (area F5) of the monkey. *J. Neurophysiol.*, 78: 2226-2230. **I.F. 3.41.**
17. Fadiga, L. and **Gallese, V.** (1997) Action representation and language in the brain. *Theoretical Linguistics*, 23: 267-280.
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19. Fadiga, L., Buccino, G., Craighero, L., Fogassi, L., **Gallese, V.** and Pavesi, G. (1999) Corticospinal excitability is specifically modulated by motor imagery: a magnetic stimulation study. *Neuropsychologia* 37: 147-158. **I.F. 1.88.**
20. Rizzolatti, G., Fadiga, L., Fogassi, L. and **Gallese, V.** (1999) Resonance behaviors and mirror neurons. *Arch. It. Biologie* 137: 83-99.
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28. **Gallese, V.** (2000) The inner sense of action: agency and motor representations. *Journal of Consciousness Studies*: 7; 23-40.
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30. **Gallese, V.** (2000) Il senso dell'azione: un approccio neurofisiologico. *Montag*: 5; 29-39.
31. Ferrari, P.F., Kohler, E., Fogassi, L. and **Gallese, V.** (2000) The ability to follow eye gaze and its emergence during development in macaque monkey. *Proceedings of the National Academy of Sciences, USA* Vol. 97, No. 25: 13997-14002. **I.F. 10.7.**
32. **Gallese, V.** Azioni, rappresentazioni ed intersoggettività: dai neuroni mirror al sistema multiplo di condivisione. *Sistemi Intelligenti*, XIII: 77-102, 2001.
33. Buccino, G., Binkofski, F., Fink, G.R., Fadiga, L., Fogassi, L., **Gallese, V.**, R.J. Seitz, K. Zilles, G. Rizzolatti, and H.-J. Freund. (2001) Action observation activates premotor and parietal areas in a somatotopic manner: an fMRI study. *European Journal of Neuroscience*: 13; 400-404. **I.F. 4.16.**
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36. **Gallese, V.** The "Shared Manifold" Hypothesis: from mirror neurons to empathy. *Journal of Consciousness Studies*: 8, N° 5-7; 33-50, 2001.
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39. **Gallese V.** and Umiltà, M.A. (2002) From self-modeling to the self model: agency and the representation of the self. *Neuro-Psychoanalysis* Vol. 4., No. 2: 35-40.
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41. **Gallese, V.** (2002) Una scienza cognitiva interdisciplinare: una possibile terza via? *Giornale Italiano di Psicologia*, 39, Vol. 2: 297-301.
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46. **Gallese, V.** (2003) A neuroscientific grasp of concepts: From control to representation. *Phil. Trans. Royal Soc. London B.*, 358: 1231-1240. **I.F. 3.58**
47. **Gallese, V.** (2003) The roots of empathy: The shared manifold hypothesis and the neural basis of intersubjectivity. *Psychopathology*, Vol. 36, No. 4, 171-180. **I.F. 1.29.**
48. Ferrari P.F., **Gallese V.**, Rizzolatti G., and Fogassi L. (2003) Mirror neurons responding to the observation of ingestive and communicative mouth actions in the monkey ventral premotor cortex. *European Journal of Neuroscience* 17: 1703-1714. **I.F. 3.87**
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50. Raos, V., Franchi, G., **Gallese, V.**, and Fogassi, L. (2003) Somatotopic organization of the lateral part of area F2 (dorsal premotor cortex) of the macaque monkey. *J. Neurophysiol.* 89: 1503-1518. **I.F. 3.87**
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52. Wicker, B., Keysers, C., Plailly, J., Royet, J-P., **Gallese, V.**, and Rizzolatti, G. (2003) Both of us disgusted in my insula: The common neural basis of seeing and feeling disgust. *Neuron*, 40: 655-664. **I.F. 13.89.**
53. Metzing, T., **Gallese, V.** (2003) The emergence of a shared action ontology: Building blocks for a theory. *Consciousness and Cognition*, 12: 549-571. **I.F. 1.82.**
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55. Keysers, C., Wicker, B., Gazzola, V., Anton, J.-L., Fogassi, L., and **Gallese, V.** (2004) A touching sight: SII/PV activation during the observation and experience of touch. *Neuron*, 42: 335-346. **I.F. 13.89.**
56. Raos V, Umiltà MA, **Gallese V.**, and Fogassi L. (2004) Functional properties of grasping-related neurons in the dorsal premotor area F2 of the macaque monkey. *J Neurophysiol.*, 92: 1990-2002. **I.F. 3.65.**
57. **Gallese, V.**, Keysers, C. and Rizzolatti, G. (2004) A unifying view of the basis of social cognition. *Trends in Cognitive Sciences*, 8: 396-403. **I.F. 9.34.**

58. **Gallese, V.**, and Lakoff, G. (2005) The Brain's Concepts: The Role of the Sensory-Motor System in Reason and Language. *Cognitive Neuropsychology*, 22 : 455-479. **I.F. 2.43**
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60. Iacoboni, M., Molnar-Szakacs, I., **Gallese, V.**, Buccino, G., Mazziotta, J., and Rizzolatti, G. (2005) Grasping the intentions of others with one's own mirror neuron system. *PLOS Biology*, 3: 529-535. **I.F. 14.10.**
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64. **Gallese, V.** (2006) Mirror neurons and intentional attunement: A commentary on David Olds. *JAPA*, 54: 47-57. **I.F. 1.44.**
65. Raos V, Umiltà MA, Fogassi L., and **Gallese V.** (2006) Functional Properties of Grasping-Related Neurons in the Ventral Premotor Area F5 of the Macaque Monkey. *J Neurophysiol.* 95: 709-729. **I.F. 3.65.**
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