

CURRICULUM DELL'ATTIVITA' SCIENTIFICA e DIDATTICA DEL Dott. LUIGI CATTANEO

1. INFORMAZIONI GENERALI

Born in MONTEVIDEO (URUGUAY) il 24/04/1974. **Citizenship:** italian. **email:** luigi.cattaneo@univr.it. **telephone:** +39 348-7337670 **skype_ID:** luigicattaneoonskype **Spoken languages:** Italian (mother tongue); English, French, Spanish and Dutch.

2. PERCORSO FORMATIVO E PROFESSIONALE:

Data/Periodo	Titolo/Qualifica	Istituzione	Esito	Descrizione
15/10/1997	Degree in Medicine and Surgery	University of Pavia	110/110 cum laude	Tesi: "Excessive daytime sleepiness in epilepsy" – Relatore Prof. A. Tartara
1° sessione 1998	Abilitation to the profession of Medical Doctor.	University of Pavia	pass	
20/11/2002	Specialization in Neurology	University of Parma	50/50 cum laude	Thesis: "Trigemino-facial inhibitory reflex in hemifacial spasm" – Relatore Prof. G. Pavesi
10/03/2007	PhD in Neuroscience	University of Parma	pass	Thesis: "Motor control of lower facial muscles" – Tutor: Prof. G. Pavesi
03/2007 – 03/2008	Research fellow	University of Parma		"Mirror system and motor control in autism"
10/2008 – 09/2012	Research fellow	University of Trento		"brain stimulation methods for the study of neural representations of actions and objects"
01/10/2012 – 20/12/2015	Ricercatore universitario a t.d. tipo A (art. 24 c.3-a L. 240/10)	University of Trento		
21/12/2015 – 20/12/2018	Ricercatore universitario a t.d. tipo B (art. 24 c.3-b L. 240/10)	University of Verona		

21/12/2018 - oggi	Associate professor in physiology (SSD BIO/09)	University of Verona		

3. CARATTERIZZAZIONE DELL'ATTIVITÀ DI RICERCATORE:

3.1. Research interests: I have been conducting research in the field of systems physiology and cognitive neuroscience for many years. The main theme of my research is to understand the biological and physiological correlates of behavior in humans, especially regarding the control of movement. The topics of my research are: sensorimotor transformations for movements of the upper limb and face. Particular attention is given to how complex categories such as the geometry of objects, the vision of biological movement, language and numerical quantities are represented in the motor system. Recently, I directed my attention to the ability of the human brain to establish flexible sensorimotor associations, based on abstract rules. In my research activity I have never lost sight of my clinical neurologist training and I test my psychophysiological hypotheses also on groups of patients. My research activity is carried out in complete autonomy in all its phases, including the conception and execution of experiments and the interpretation of scientific data. Given my clinical background I am extremely motivated to test the theoretical models developed with my basic research in a clinical setting. I am convinced of the importance of reconciling the basic physiology with the clinical disciplines of neurosurgery, neurology, neuroradiology and clinical neurophysiology.

3.2. Research tools: I have mainly used Transcranial Magnetic Stimulation (TMS), of which I have deep knowledge. I am familiar with and have used also other methods of non-invasive brain stimulation (tDCS), the study of motion kinematics, the spectral analysis of EEG and event-related evoked potentials and structural neuroimaging (tractography) and functional (fMRI) techniques.

4. FELLOWSHIPS ABROAD:

4.1. January-July 2004: Marie-Curie training fellowship at the Institute of Neurology nel Sobell Departmento of Motor Neurosciences, London (UK), supervised by Professor Roger N. Lemon.

4.2. October-December 2007: research fellowship at the Neuroimaging center of UCSB - California supervised by Prof. Scott T. Grafton.

5. ACTIVE RESEARCH COLLABORATION:

5.1. Università degli Studi di Parma - Prof. Giacomo Rizzolatti.

5.2. Università degli Studi di Parma - Prof. Giovanni Pavesi.

5.3. Université de la Méditerranée (Marseille): Dr. Thomas Brochier.

5.4. Università degli Studi di Bologna – Prof. Elisabetta Làdavas.

- 5.5. Università degli Studi di Parma - Prof. Luca Bonini.
- 5.6. Univeristà di Grenoble – Prof. Marc Sato
- 5.7. Arizona State Univerity – Prof. Arthur Glenberg
- 5.8. University of Salzburg – Dr. Guido Barchiesi.
- 5.9. University of Birmingham – Prof. Uta Noppeney
- 5.10. University of Surrey (London) – Prof. Juha Silvanto
- 5.11. Università di Sassari – Prof. Franca Deriu
- 5.12. Università di Milano-Bicocca – Prof. Marco Marelli

6. ITALIAN NATIONAL SCIENTIFIC ABILITATION:

- 6.1. Abilitazione al ruolo di II fascia in **Fisiologia (05/D1, ex settore BIO/09)** conseguita nella tornata 2012, valida a partire dal 31/01/2014.
- 6.2. Abilitazione al ruolo di II fascia in **Neurologia (06/D6, ex settore MED/26)** conseguita nella tornata 2012, valida a partire dal 03/02/2014.
- 6.3. Abilitazione al ruolo di II fascia in **Psicologia Generale, Psicobiologia e Psicometria (11/E1, ex settori M-PSI/01, M-PSI/02 e M-PSI/03)** nella tornata 2012, valida a partire dal 25/02/2014.
- 6.4. Abilitazione al ruolo di I fascia in **Fisiologia (05/D1, ex settore BIO/09)** conseguita nella tornata 2016-2018 (primo quadrimestre) valida dal 04/04/2017 al 04/04/2023.

7. Meetings and Congresses.

- I communicate my scientific achievements in several occasions per year at national and international scientific meetings with contributions as posters or oral communications.
- I received several ad-hoc invitations to national and international meetings:
 - a) “New approaches to the study of action observation using transcranial magnetic stimulation (TMS)” presented at the **Trieste Symposium on Perception and Cognition** - October 28, 2010 in Trieste (Italy).
 - b) “Transcranial Magnetic Stimulation approaches to action understanding” presented at the **Italy-Israel Dialogue on Cognitive and Affective Neuroscience**. November 7-8, 2011 at the Inter-disciplinary college of Herzliya, (Israel).
 - c) “Motor mirroring meets motor performance” presented at the **16th world congress of psychophysiology**. September 13-17, 2012 in Pisa (Italy).
 - d) “Early and Late Motor responses to Action Observation” presented at the meeting **Mirror neurons: new frontiers 20 years after their discovery**. September 2, 2012 at Erice (Italy).
 - e) “Motor resonance meets motor performance” as an **Institute of Movement Neuroscience Symposium**. May 7, 2013 at the Sobell Department of Movement Neuroscience – UCL – London (UK).
 - f) “Bottom-up and Top-down responses to action observation” Seminar at the **Facoltà di Psicologia, Università di Bologna**. May 30, 2013.

- g) “Motor mirroring meets motor performance” – **Formal Donders DCC lecture**. October 8, 2013 at the Radboud Universiteit - Nijmegen (NL).
- h) “Le basi neurali delle scelte di azione” – seminar held the **Scuola di Dottorato di Scienze della Vita e della Salute**, University of Verona. December 17, 2014
- i) “Motor representations in the brain” seminar at the **Interdisciplinary workshop on Practical Reasoning and Motor Representation** at the University of Warwick (UK). June 2, 2015.
- j) Lectio magistralis at the **National congress of the Italian Psychophysiological society**, November 20, 2015 in Lucca (Italy).
- k) “Mapping sensorimotor functions in the human premotor cortex” presented at the international neuropsychological symposium (INS), Cassis (France) 30 giugno 2018.
- l) “inhibitory set-related activity in the dorsal premotor cortex” seminar held at the Centro di Neurofisiologia Traslazionale del linguaggio e della comunicazione **IIT@UNIFE**. University of Ferrara, on June 13, 2018
- m) Organizer of the symposium “Behaviorally-committed representation of the world in the primate brain: objects agents and space” 19th World Congress of Psychophysiology (IOP2018), Lucca, 6 settembre 2018.
- n) Organizer of the symposium “Visual and auditory praxic environment in the primate brain: space, objects and agents” XXVI Congresso Nazionale SIPF, Turin, 15-17 Novembre 2018

8. **TEXTBOOK CHAPTERS:**

8.1. Chapter “Language”. Series “Handbook of Clinical Neurology” – Volume 116 “Brain Stimulation” edited by Mark Hallett and Andres Lozano. Elsevier Publishers.

8.2. Chapter “Transcranial magnetic stimulation in the study of brain lateralization” –Serie Neuromethods, Volume “Lateralized brain functions” – edited by Leslie Rogers and Giorgio Vallortigara.

9. **FINANZIAMENTI COMPETITIVI E SOTTOPOSTI A PEER REVIEW USUFRUITI E IN CORSO:**

Title	Duration	Role	Financer	Granted amount
“Brain mapping of the cortical representation of facial movements in patients with congenital facial palsy undergoing surgical procedures of facial animation”	2014- 2015 – 12 months	Coordinator	Fondazione Telethon	40.000 €
“Brain Action. A New View on Real Actions: Neural Mechanisms of Visuo-Motor Transformations”	2016 – 2018 -24 months	Supervisor	Marie Sklodowska-Curie Individual Fellowships	168.000 €

"Project of an upper-limb robotic orthosis with myoelectric control as aid for patients with neuromuscular disorders"	2018- 2019 12 months	<u>Local coordinator</u>	European Social Fund grant	92.700 €

10. EDITORIAL ACTIVITY:

10.1. Academic Editor for PLOS One (since 2013). **Ad-hoc reviewing editor for eLife** (2016)

10.2. Member of the Editorial Advisory Board del Journal of Cognitive Enhancement (since 2016)

10.3. Ad-hoc reviewer for: Acta Psychologica; Annals of Clinical and Translational Neurology; Annals of Internal Medicine; Behavioral Brain Research; Brain; Brain Topography; Cerebral Cortex; Clinical Neurophysiology; Cognition; Consciousness and Cognition; Cortex; European Journal of Neurology; European Journal of Neuroscience; Frontiers in Human Neuroscience; Journal of Neurology, Neurosurgery and Psychiatry; Journal of Neurophysiology; Journal of Neuroscience; Journal of Psychiatry; JoVE - Journal of Video Experiments; Muscle and Nerve; Neuroimage; Neurology Research International; Neuropsychologia; Philosophical Transactions of the Royal Society B; PLOS One; Social Cognitive and Affective Neuroscience; Brain Stimulation, Nature Communications, Scientific Reports.

11. ATTIVITÀ SOCIETARIA E INTERNAZIONALE:

Member of the following scientific societies: The Brainstem Society; Società Italiana di Neurologia (SIN); Società Italiana di Psicofisiologia (SIPF); Società Italiana di Fisiologia (SIF).

11.1. REVIEWER FOR GRANTING AGENCIES: Research Foundation Flanders (FWO) (2012-2018); Marie Skłodowska-Curie actions - Research Fellowship Programme (2013); Manchester University; mental health and neurodegeneration research group. (2014); The Danish Council for Independent Research (2015).

12. FRONTAL TEACHING ACTIVITY

12.1. Previous courses:

Institution	School	Course	language	Hours/year	Time period
University of Parma	Scuola di Specializzazione in Neurologia	attività didattica integrativa "Approfondimento di tecniche neurofisiologiche applicate allo studio del movimento"	italian	8 ore	2003-2004
University of Parma	Corso di Laurea in Medicina e Chirurgia	attività didattica elettiva "Tecniche neurofisiologiche"	italian	10 ore	2006-2008

University of Trento	Corso di laurea triennale Scienze e Tecniche di Psicologia Cognitiva	Neuroscienze del comportamento	italian	28 ore	2014-2015 2015-2016
University of Trento	Corso di laurea magistrale in Cognitive Sciences	Foundations of Brain Imaging – modulo di neuroanatomia	english	18 ore	2013-2014 2014-2015 2015-2016
University of Trento	Scuola di dottorato in Cognitive and Brain Sciences	Brain Stimulation Techniques	english	9 ore	2011-2012 2012-2013 2013-2014 2014-2015 2015-2016
University of Trento	corso PAS - classe di concorso A040 – igiene, anatomia, fisiologia, patologia generale e dell'apparato masticatorio	Anatomia e fisiologia del sistema orofacciale	italian	8 ore	2014-2015
University of Verona	Corso di laurea triennale in fisioterapia – Sede di Verona	Fisiologia generale	italian	30 ore	2015-2016 2016-2017 2017-2018 2018-2019
University of Verona	Corso di laurea triennale in infermieristica – Sede di Trento	Fondamenti Morfo-Funzionali della Vita, modulo di Fisiologia	italian	36 ore	2014-2015 2015-2016 2016-2017 2017-2018 2018-2019
University of Verona	Scuola di specialità in Neurochirurgia	Fisiologia	italian	12 ore	2016-2017 2017-2018 2018-2019
University of Verona	Scuola di specialità in ORL	Fisiologia	italian	12 ore	2016-2017 2017-2018 2018-2019

University of Verona	Corso di laurea in Medicina e Chirurgia	Tirocinio di ricerca sperimentale	italian	25 ore	2017-2018 2018-2019
University of Verona	Corso di laurea triennale in logopedia	Fisiologia	italian	20 ore	2018-2019
University of Verona	Corso di laurea in Medicina e Chirurgia	Fisiologia I - esercitazioni	italian	13 ore	2018-2019

12.2. Current teaching:

Sede	Corso di laurea/Scuola	Titolo del corso	Lingua	Ore/ anno	Anno di corso
University of Trento	International Master Program in Cognitive Science	Clinical Neuropsychology	english	40 ore	2019-2020
University of Trento	International Master Program in Cognitive Science	Neuroscience	english	40 ore	2019-2020

12.3. Student supervision:

- 2010-2016 – member of the council of the PhD program in Cognitive and Brain Sciences University of Trento. Supervisor of 4 PhD students: Guido Barchiesi, Francesca Maule, Silvia Ubaldi e Sara Parmigiani.
- 2017-2020 – member of the council of the PhD program in Neuroscience of the University of Verona. Supervisor of one student: Martina Pirruccio.
- Supervisor of more than 15 students' thesis in Psychology, Bioinformatics and Medicine.

13. SCIENTIFIC PRODUCTION:

13.1. Bibliometric indices (updated on January 2020): 76 peer-reviewed publications. *H*-index=26, Citations=2992.

13.2. Peer-reviewed publications (in reverse chronological order):

#	Autori	Titolo	Anno	Rivista	Riferimenti
75	Lega C., Chelazzi L., Cattaneo L.	Two Distinct Systems Represent Contralateral and Ipsilateral Sensorimotor Processes in the Human Premotor Cortex: A Dense TMS Mapping Study	2019	Cerebral Cortex	Dec 2019 - epub ahead of print

74	Vergallito A., Petilli M.A., Cattaneo L., Marelli M.	Somatic and visceral effects of word valence, arousal and concreteness in a continuum lexical space	2019	Scientific Reports	9;20254
73	Lega C., Ferrante O., Marini F., Santandrea E., Cattaneo L., Chelazzi L.	Probing the Neural Mechanisms for Distractor Filtering and Their History-Contingent Modulation by Means of TMS	2019	The Journal of Neuroscience	39;7591:7603
72	De Pisapia N., Barchiesi G., Jovicich J., Cattaneo L.	The role of medial prefrontal cortex in processing emotional self-referential information: a combined TMS/fMRI study	2019	Brain Imaging and Behavior	13;603:614
71	Taga A., Poma G., Cattaneo L., Saccani E., Tinchelli S., Pavesi G.	Radial Nerve F-wave reference values with surface electrodes from the anconeus muscle	2019	Muscle and Nerve	59;244:246
70	Parmigiani S., Cattaneo L.	Stimulation of the Dorsal Premotor Cortex, But Not of the Supplementary Motor Area Proper, Impairs the Stop Function in a STOP Signal Task	2018	Neuroscience	394;14:22
69	Parmigiani S., Zattera B., Barchiesi G., Cattaneo L.	Spatial and Temporal Characteristics of Set-Related Inhibitory and Excitatory Inputs from the Dorsal Premotor Cortex to the Ipsilateral Motor Cortex Assessed by Dual-Coil Transcranial Magnetic Stimulation	2018	Brain Topography	31;795:810
68	Cattaneo L.	Fancies and fallacies of spatial sampling with transcranial magnetic stimulation (TMS)	2018	Frontiers in Psychology	9; 1171
67	Cattaneo L., Veroni V., Boria S., Tassinari G., Turella L.	Sex Differences in Affective Facial Reactions Are Present in Childhood	2018	Frontiers in Integrative Neuroscience	12; 19
66	Scarpazza C., Làdavas E., Cattaneo L.	Invisible side of emotions: somato-motor responses to affective facial displays in alexithymia	2018	Experimental Brain Research	236;195:206
65	Zuanazzi A., Cattaneo L.	The right hemisphere is independent from the left hemisphere in allocating visuospatial attention	2017	Neuropsychologia	102;197:205
64	Mazzoni N., Jacobs C., Venuti P., Silvanto J., Cattaneo L.	State-dependent TMS reveals representation of affective body movements in the anterior intraparietal cortex	2017	Journal of Neuroscience	37;7231:7239
63	Cattaneo L.	Transcranial magnetic stimulation	2017	Neuromethods	122;369:406
62	Papadelis C., Arfeller C., Erla S., Nollo G., Cattaneo L., Braun C.	Inferior frontal gyrus links visual and motor cortices during a visuomotor precision grip force task	2016	Brain Research	1650;252:266

61	Messina I., Cattaneo L., Venuti P., de Pisapia N., Serra M., Esposito G., Rigo P., Farneti A., Bornstein M.H.	Sex-specific automatic responses to infant cries: TMS reveals greater excitability in females than males in motor evoked potentials	2016	Frontiers in Psychology	6; 1909
60	Parmigiani S., Barchiesi G., Cattaneo L.	The dorsal premotor cortex exerts a powerful and specific inhibitory effect on the ipsilateral corticofacial system: a dual-coil transcranial magnetic stimulation study	2015	Experimental Brain Research	233;3253:3260
59	Cattaneo L., Maule F., Tabarelli D., Brochier T., Barchiesi G.	Online repetitive transcranial magnetic stimulation (TMS) to the parietal operculum disrupts haptic memory for grasping	2015	Human Brain Mapping	36;4262:4271
58	Finocchiaro C., Capasso R., Cattaneo L., Zuanazzi A., Miceli G.	Thematic role assignment in the posterior parietal cortex: A TMS study	2015	Neuropsychologia	77;223:232
57	Cattaneo L., Barchiesi G.	The auditory space in the motor system	2015	Neuroscience	304;81:89
56	Ubaldi S., Barchiesi G., Cattaneo L.	Bottom-up and top-down visuomotor responses to action observation	2015	Cerebral Cortex	25;1032:1041
55	Barchiesi G., Cattaneo L.	Motor resonance meets motor performance	2015	Neuropsychologia	69;93:104
54	Cattaneo L.	Granularity within the mirror system is not informative on action perception. Comment on "Grasping synergies: A motor-control approach to the mirror neuron mechanism" by D'Ausilio et al.	2015	Physics of Life Reviews	12;123:125
53	Maule F., Barchiesi G., Brochier T., Cattaneo L.	Haptic working memory for grasping: The role of the parietal operculum	2015	Cerebral Cortex	25;528:537
52	Cattaneo L., Pavesi G.	The facial motor system	2014	Neuroscience and Biobehavioral Reviews	38;135
51	Rizzolatti G., Cattaneo L., Fabbri-Destro M., Rozzi S.	Cortical mechanisms underlying the organization of goal-directed actions and mirror neuron-based action understanding	2014	Physiological Reviews	94;655:706
50	Cattaneo L., Maule F., Barchiesi G., Rizzolatti G.	The motor system resonates to the distal goal of observed actions: Testing the inverse pliers paradigm in an ecological setting	2013	Experimental Brain Research	231;37:49
49	Avanzini P., Fabbri-Destro M., Campi C., Pascarella A., Barchiesi G., Cattaneo L., Rizzolatti G.	Spatiotemporal dynamics in understanding hand-object interactions	2013	PNAS	110;15878:15885

48	Barchiesi G., Cattaneo L.	Early and late motor responses to action observation	2013	Social Cognitive and Affective Neuroscience	8;711:719
47	Arfeller C., Schwarzbach J., Ubaldi S., Ferrari P., Barchiesi G., Cattaneo L.	Whole-brain haemodynamic after-effects of 1-Hz magnetic stimulation of the posterior superior temporal cortex during action observation	2013	Brain Topography	26;278:291
46	Cattaneo L.	Language	2013	Handbook of Clinical Neurology	116;681:691
45	Perini F., Cattaneo L., Carrasco M., Schwarzbach J.V.	Occipital transcranial magnetic stimulation has an activity-dependent suppressive effect	2012	Journal of Neuroscience	32;12361:12365
44	de Pisapia N., Sandrini M., Braver T.S., Cattaneo L.	Integration in working memory: A magnetic stimulation study on the role of left anterior prefrontal cortex	2012	PLoS ONE	7; e43731
43	Barchiesi G., Wache S., Cattaneo L.	The frames of reference of the motor-visual aftereffect	2012	PLoS ONE	7; e40892
42	Cattaneo L., Fasanelli M., Andreatta O., Bonifati D.M., Barchiesi G., Caruana F.	Your actions in my cerebellum: Subclinical deficits in action observation in patients with unilateral chronic cerebellar stroke	2012	Cerebellum	11;264:271
41	Cattaneo L., Barchiesi G.	Transcranial magnetic mapping of the short-latency modulations of corticospinal activity from the ipsilateral hemisphere during rest	2011	Frontiers in Neural Circuits	5; 14
40	Cattaneo L., Barchiesi G., Tabarelli D., Arfeller C., Sato M., Glenberg A.M.	One's motor performance predictably modulates the understanding of others' actions through adaptation of premotor visuo-motor neurons	2011	Social Cognitive and Affective Neuroscience	6;301:310
39	Sato M., Grabski K., Glenberg A.M., Brisebois A., Basirat A., Ménard L., Cattaneo L.	Articulatory bias in speech categorization: Evidence from use-induced motor plasticity	2011	Cortex	47;1001:1003
38	Cattaneo L.	Tuning of ventral premotor cortex neurons to distinct observed grasp types: A TMS-priming study	2010	Experimental Brain Research	207;165:172
37	Cattaneo L., Sandrini M., Schwarzbach J.	State-dependent TMS reveals a hierarchical representation of observed acts in the temporal, parietal, and premotor cortices	2010	Cerebral Cortex	20;2252:2258
36	Sato M., Buccino G., Gentilucci M., Cattaneo L.	On the tip of the tongue: Modulation of the primary motor cortex during audiovisual speech perception	2010	Speech Communication	52;533:541

35	Cattaneo L., Pavesi G.	Recording the trigemino-facial inhibitory reflex: Technique and normal findings	2010	Journal of Clinical Neurophysiology	27;126:129
34	Wood R., Gallese V., Cattaneo L.	Visuotactile empathy within the primary somatosensory cortex revealed by short-latency afferent inhibition	2010	Neuroscience Letters	473;28:31
33	Cattaneo L., Sacconi E., De Giampaulis P., Crisi G., Pavesi G.	Central facial palsy revisited: A clinical-radiological study	2010	Annals of Neurology	68;404:408
32	Glenberg A.M., Lopez-Mobilia G., McBeath M., Toma M., Sato M., Cattaneo L.	Knowing beans: Human mirror mechanisms revealed through motor adaptation	2010	Frontiers in Human Neuroscience	4;
31	Cattaneo L., Cucurachi L., Pavesi G.	Isolated toe paralysis caused by a small cortical infarction	2009	Journal of Neurology, Neurosurgery and Psychiatry	80;1142
30	Cattaneo L., Caruana F., Jezzini A., Rizzolatti G.	Representation of goal and movements without overt motor behavior in the human motor cortex: A transcranial magnetic stimulation study	2009	Journal of Neuroscience	29;11134:11138
29	Cucurachi L., Cattaneo L., Gemignani F., Pavesi G.	Late onset generalized myasthenia gravis presenting with facial weakness and bulbar signs without extraocular muscle involvement	2009	Neurological Sciences	30;343:344
28	Montepietra S., Cattaneo L., Granella F., Maurizio A., Sasso E., Pavesi G., Bortone E.	Myocardial infarction following convulsive and nonconvulsive seizures	2009	Seizure	18;379:381
27	Boria S., Fabbri-Destro M., Cattaneo L., Sparaci L., Sinigaglia C., Santelli E., Cossu G., Rizzolatti G.	Intention understanding in autism	2009	PLoS ONE	4; e5596
26	Cattaneo L., Rizzolatti G.	The mirror neuron system	2009	Archives of Neurology	66;557:560
25	Rizzolatti G., Fabbri-Destro M., Cattaneo L.	Mirror neurons and their clinical relevance	2009	Nature Clinical Practice Neurology	5;24:34
24	Fabbri-Destro M., Cattaneo L., Boria S., Rizzolatti G.	Planning actions in autism	2009	Experimental Brain Research	192;521:525

23	Buccino G., Sato M., Cattaneo L., Rodà F., Riggio L.	Broken affordances, broken objects: A TMS study	2009	Neuropsychologia	47;3074:3078
22	Cucurachi L., Immovilli P., Granella F., Pavesi G., Cattaneo L.	Short-latency afferent inhibition predicts verbal memory performance in patients with multiple sclerosis	2008	Journal of Neurology	255;1949:1956
21	Glenberg A.M., Sato M., Cattaneo L.	Use-induced motor plasticity affects the processing of abstract and concrete language	2008	Current Biology	18;R290:R291
20	Glenberg A.M., Sato M., Cattaneo L., Riggio L., Palumbo D., Buccino G.	Processing abstract language modulates motor system activity	2008	Quarterly Journal of Experimental Psychology	61;905:919
19	Cattaneo L., Fabbri-Destro M., Boria S., Pieraccini C., Monti A., Cossu G., Rizzolatti G.	Impairment of actions chains in autism and its possible role in intention understanding	2007	PNAS	104;17825:17830
18	Prabhu G., Voss M., Brochier T., Cattaneo L., Haggard P., Lemon R.	Excitability of human motor cortex inputs prior to grasp	2007	Journal of Physiology	581;189:201
17	Cattaneo L., Macaluso G.M., Pavesi G.	Inhibitory reflexes in human perioral facial muscles: A single-motor unit study	2007	Clinical Neurophysiology	118;794:801
16	Sato M., Cattaneo L., Rizzolatti G., Gallese V.	Numbers within our hands: Modulation of corticospinal excitability of hand muscles during numerical judgment	2007	Journal of Cognitive Neuroscience	19;684:693
15	Cattaneo L., Cucurachi L., Pavesi G.	Concentric needle recording of neuromuscular jitter in the temporalis muscle	2007	Neurophysiologie Clinique	37;50:51
14	Cattaneo L., Chierici E., Cucurachi L., Cobelli R., Pavesi G.	Posterior insular stroke causing selective loss of contralateral nonpainful thermal sensation	2007	Neurology	68;237
13	Cattaneo L., Chierici E., Pavone L., Grasselli C., Manganeli P., Buzio C., Pavesi G.	Peripheral neuropathy in Wegener's granulomatosis, Churg-Strauss syndrome and microscopic polyangiitis	2007	Journal of Neurology, Neurosurgery and Psychiatry	78;1119:1123
12	Cattaneo L., Chierici E., Bianchi B., Sesenna E., Pavesi G.	The localization of facial motor impairment in sporadic Möbius syndrome	2006	Neurology	66;1907:1912
11	Cattaneo L., Cucurachi L., Chierici E., Pavesi G.	Pathological yawning as a presenting symptom of brain stem ischaemia in two patients	2006	Journal of Neurology,	77;98:100

				Neurosurgery and Psychiatry	
10	Gentilucci M., Cattaneo L.	Automatic audiovisual integration in speech perception	2005	Experimental Brain Research	167;66:75
9	Cattaneo L., Chierici E., Pavesi G.	Bell's palsy-induced blepharospasm relieved by passive eyelid closure and responsive to apomorphine	2005	Clinical Neurophysiology	116;2348:2353
8	Aziz-Zadeh L., Cattaneo L., Rochat M., Rizzolatti G.	Covert speech arrest induced by rTMS over both motor and nonmotor left hemisphere frontal sites	2005	Journal of Cognitive Neuroscience	17;928:938
7	Cattaneo L., Voss M., Brochier T., Prabhu G., Wolpert D.M., Lemon R.N.	A cortico-cortical mechanism mediating object-driven grasp in humans	2005	PNAS	102;898:903
6	Pavesi G., Cattaneo L., Chierici E., Marbini A., Sasso E., Mancina D.	Small fibers peroneal mononeuropathy in a patient with Sjögren's syndrome.	2004	Journal of endocrinological investigation	27;177:179
5	Pavesi G., Cattaneo L., Chierici E., Mancina D.	Trigemino-facial inhibitory reflexes in idiopathic hemifacial spasm	2003	Movement Disorders	18;587:592
4	Pavesi G., Cattaneo L., Marbini A., Gemignani F., Mancina D.	Long-term efficacy of interferon-alpha in chronic inflammatory demyelinating polyneuropathy [3]	2002	Journal of Neurology	249;777:779
3	Cattaneo L., Pavesi G., Mancina D.	Sural nerve abnormalities in sacral perineural (Tarlov) cysts [4]	2001	Journal of Neurology	248;623:624
2	Pavesi G., Cattaneo L., Tinchelli S., Mancina D.	Masseteric repetitive nerve stimulation in the diagnosis of myasthenia gravis	2001	Clinical Neurophysiology	112;1064:1069
1	Pavesi G., Macaluso G.M., Marchetti P., Cattaneo L., Tinchelli S., De Laat A., Mancina D.	Trigemino-facial reflex inhibitory responses in some lower facial muscles	2000	Muscle and Nerve	23;939:945

13.3. Non- peer reviewed publications:

- G. Pavesi, D. Medici, L. Cattaneo, P. Marchetti, S. Tinchelli, D. Mancina. *Mielopatie traumatiche acute: il contributo del neurofisiologo*. Italian Journal of Neurological Sciences, 1998. 19: p. S51-S53.
- G. Pavesi, L. Cattaneo, S. Tinchelli, D. Mancina. *Le neuropatie infettive*. Neurological Sciences, 2000. 21: p. S393-S400.

- A. Tullio, M.T. Raho, G. Pavesi, L. Cattaneo, E. Sesenna. *“Shoulder Syndrome” in neck dissection*. Rivista Italiana di Chirurgia Maxillo Facciale. 2001. 12: p. 25-32
- G. Pavesi, L. Cattaneo. *Osservazioni sul ruolo dell’elettromiografia nella diagnosi delle neuropatie periferiche*. Progressi in Reumatologia. 2002. 3: p. 108-111
- P. Manganelli, G. Pavesi, E. Chierici, L. Cattaneo, L. Pavone, G. Garini, C. Buzio. *L’interessamento del sistema nervoso periferico nelle vasculiti ANCA-associate*. Reumatismo, 2004. 56: p. 69-71
- L. Cattaneo, G. Pavesi, E. Chierici, F. Gemignani, A. Marbini. *Capitolo 13: La vasculite isolata del sistema nervoso periferico (neuropatia vasculitica non-sistemica)*. in “Testo atlante delle vasculiti”, di Buzio, Manganelli, Pesci, Garini. Casa editrice Mattioli 1885, Parma, anno 2006; ISBN: 978-88-89397-35-7. pp 107-110
- L. Cattaneo, G. Pavesi, E. Chierici, F. Gemignani, A. Marbini. *Capitolo 31: Le vasculiti viste dal neurologo*. in “Testo atlante delle vasculiti”, di Buzio, Manganelli, Pesci, Garini. Casa editrice Mattioli 1885, Parma, anno 2006; ISBN: 978-88-89397-35-7. pp 169-172.

14. CLINICAL ACTIVITY:

14.1.1.2003-2009. Autonomous clinical activity in general Neurology, emergency Neurology and clinical Neurophysiology.

14.1.2.2008-2015: supervising MD for the neurostimulation laboratory of the CIMeC (University of Trento).

14.1.3.Since october 2019 “medico responsabile” for the use off the 3T magnet of the CIMeC.

Trento, January 27 2020


In fede