

Curriculum Vitae EUROPEAN FORM



Curriculum reso sotto forma di dichiarazione sostitutiva di atto di notorietà, ai sensi degli artt. 46 e 47 del D.P.R. 445/2000 (si allega fotocopia documento di identità valido). Consapevole, secondo quanto prescritto dall'art. 76 del D.P.R. 445/2000, della responsabilità penale cui può andare incontro in caso di dichiarazione mendace, falsità negli atti ed uso di atti falsi, il sottoscritto dichiara sotto la propria responsabilità quanto segue:

INFORMAZIONI PERSONALI

Cognome / Nome	Quartarone Angelo
Telefono	Ufficio: +3909060128101
E-mail	angelo.quartarone@ircsme.it
Nazionalità	Italiana
Data di nascita	18 Ottobre 1965
Genere	Maschile

ESPERIENZA LAVORATIVA

Date	Settembre 2022 – ad oggi
Nome del datore di lavoro	IRCCS Centro Neurolesi Bonino-Pulejo of Messina – www.ircsme.it
Posizione	Direttore Scientifico (12 Settembre 2022)
Date	Dal 2002 - ad oggi
Nome del datore di lavoro	Università degli Studi di Messina – www.unime.it
Posizione	Professore ordinario di Neurologia (Gennaio 2021)
Precedenti posizioni e date	
Posizione	2016 - Gennaio 2021 – Professore ordinario di Neurofisiologia e Riabilitazione SSD Med 48, Università di Messina
Nome del datore di lavoro	Università degli Studi di Messina – www.unime.it
Posizione	2006-2016 Professore Associato di Neurofisiologia e Riabilitazione Med 48: University of Messina
Nome del datore di lavoro	Università degli Studi di Messina
Posizione	2003-2006 Professore Assistente di Neurologia, Med26
Nome del datore di lavoro	Università degli Studi di Messina
Altre posizioni	
Posizione	2011-2015: Direttore delle Scuola di Fisioterapia, Università degli Studi di Messina
Posizione	2018-2021: Direttore della Scuola di Tecnici di Neurofisiologia, Università degli Studi di Messina

Nome ospedaliera

<i>Posizione</i>	1996-ad oggi Medico curante, Clinica Neurologica II, Policlinico Universitario Messina
<i>Posizione</i>	1996-ad oggi Medico curante, Unità di Neurofisiologia, Policlinico Universitario Messina
<i>Posizione</i>	2000-ad oggi Direttore del laboratorio di Stimolazione magnetica transcranica e controllo motorio, Clinica Neurologica , Messina.
<i>Posizione</i>	Settembre 2021-ad oggi Vicedirettore dell'Unità di neurofisiologia e disturbi del movimento, Policlinico Universitario Messina

Certificazioni

1994 Collegio Nazionale Italiano di Neurologia;
1990 Collegio Nazionale Italiano di Medicina;

Coordinamento di progetti di ricerca internazionali e nazionali

2003-2004 [FISM](#) (Fondazione Italiana Sclerosi Multipla) (co-investigator)

2008-2009 [American Blepharospasm Foundation Grant](#): Corneal sensitivity in patients affected by blepharospasm (PI)

2009 [FISM](#) (Italian Foundation of Multiple Sclerosis): Study of Central Fatigue (PI)

2009 [Grant Servier](#) (Paris, France) Memantine and cortical plasticity (PI)

2012-2013 [Grant Gossweiler Foundation](#): Mechanisms of action of premotor epidural stimulation in dystonia (PI)

2015 [Grant Ministry of Health](#) : Does intensive exercise induce plasticity-related changes in Parkinson's Disease? (co-investigator).

2019 [Grant of The American Ministry of Defense](#) (DoD Grant): Exercise and plasticity in PD: Functional and structural evidence in the cortex and the spinal cord. (PI).

2021 [Grant of Fresco Parkinson Institute](#), New York University, USA

Fondazioni mediche**Consiglio direttivo**

2003-2007 Membro del Consiglio Direttivo della Società Italiana di Neurofisiologia Clinica

2009-2010 Membro del Consiglio Direttivo della Società Italiana Disordini del Movimento

Organizzazione di**Incontri internazionali**

2010: Primo workshop internazionale sulla plasticità sinaptica: dal banco al letto del paziente, Giardini Naxos

Membro del comitato editoriale di riviste scientifiche internazionali

2012: Secondo workshop internazionale sulla plasticità sinaptica: dal banco al letto del paziente, Taormina
2014: Terzo workshop internazionale sulla plasticità sinaptica: dal banco al letto del paziente, Milazzo
2016: Quattro workshop internazionale sulla plasticità sinaptica: dal banco al letto del paziente, Lucca
2018: Quinto workshop internazionale sulla plasticità sinaptica: dal banco al letto del paziente, Firenze
2022: Sesto workshop internazionale sulla plasticità sinaptica: dal banco al letto del paziente, Firenze

Editore di libri**Conferenze internazionali su invito**

Vicedirettore di *Frontiers System Neurosciences*

Comitato editoriale del *Journal of Clinical Movement Disorder*. <https://clinicalmovementdisorders.biomedcentral.com/about/editorial-board>.

Editore del numero speciale di *Handbook of Neurology* dedicato alla plasticità nei disturbi neuropsichiatrici.

Seminary at National Hospital, Queen Square , London, England 2003
Seminary at Dpt. of Neurology of Kiel University, Germany 2005
Movement Disorder Society Meeting New Orleans, USA 2005
Seminary at Toronto Western Hospital, Canada 2005
Annual Teaching Course of Functional Neuroimaging Brain Voyager Sorrento Italy, 2006
Workshop on Complex Pain Regional Syndrome Warsaw, Poland 2006
Movement Disorder Society Meeting Kyoto, Japan 2006
Plasticity of basal ganglia disorders, Perugia, Italy 2006
Seminary at National Hospital, Queen Square , London, England 2006
Movement Disorder Society Meeting Istanbul, Turkey 2007
Seminar Department of Neuropsychology, University of Maastricht, Holland 2007 –
Seminary at National Hospital, Queen Square , London, England 2007
Dystonia Medical Research Foundation, Washington, USA 2007
International Federation of Clinical Neurophysiology, Siena, Italy 2008
Seminary at the Dpt of Neurology, Hospital del la Salpetriere Paris, France 2008
Movement Disorder Society Meeting Chicago, USA 2008
Seminary at the Dept of Neurology, Hopital del la Salpetriere Paris, France 2009
FENS Satellite Symposium on Motor Control, Nijmegen, Holland 2010
5 International Dystonia Symposium , Barcelona Spain 2011
Movement Disorder Society Meeting Toronto, Canada 2011
Sixth International Dystonia Symposium, Hannover 2012
Fifth International Conference on Non Invasive Brain Stimulation, Leipzig 2013
30th Congress of Clinical Neurophysiology, Berlin 2014
I Brain Stimulation Meeting , Singapore 2015
International DBS symposium Berlin 2016

Sixth Conference of Brain Stimulation Gottingen 2016
Neuromodulation Course, City College University, New York 2017
Movement Disorder Society , Hong Kong 2018
International Federation of Clinical Neurophysiology, Washington 2018
Fourth International Congress of treatment of dystonia, Hannover, 2019

PREMI SCIENTIFICI E ALTRI RICONOSCIMENTI

Premio scientifico

Vincitore del “**Premio giovani ricercatori**” **Bonino Pulejo Foundation** e 1 anno di stage presso National Hospital for Nervous Diseases, Quenn Square, of London under the supervision of Prof. John Rothwell and David Marsden.

Riconoscimenti internazionali

Premio dalla Serbian Academy of Sciences e titolo di Visiting Professor presso University of Belgrade 2014

Spin off

Membro dello Spin off M.I.L.A. Multimodal Imaging Lab Activities
Numero REA: ME225183, Codice Fiscale: 03267110835; Web site
<https://portale.unime.it/mila/people/>

ISTRUZIONE E FORMAZIONE

Data di aggiudicazione	Luglio 1990
Titolo della qualifica rilasciata	Laurea in Medicina e Chirurgia con lode; Università di Messina
Data di aggiudicazione	1994
Titolo della qualifica rilasciata	Specializzazione in Neurologia con lode, Università di Messina
Posizioni di post-dottorato e borse di studio	1994-96 Borsa di studio in Disturbi del movimento presso National Hospital for Nervous diseases, Queen Square. London UK Supervisione Prof. Charles David Marsden.

ABILITÀ E COMPETENZE PERSONALI

Competenze linguistiche	
Lingua madre	Italiano
Altre lingue	

Autovalutazione
Livello europeo (*)

Comprensione		Parlato		Scritto
Ascolto	Lettura	Interazione orale	Produzione orale	

Lingua: Inglese

C1 Utente esperto	C1 Utente esperto	C1 Utente esperto	C1 Utente esperto	C1 Utente esperto
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(*)Quadro comune europeo di riferimento (QCER)

Capacità sociali e di comunicazione

Ottime capacità di networking; buone capacità di comunicazione a livello di divulgatore in conferenze e riunioni

Capacità organizzative e manageriali

Leadership (coordinamento di team internazionali, come sopra riportato); eccellente esperienza nella gestione di progetti o di gruppi di lavoro.

Aree di ricerca e conoscenza,
Attività scientifica e informazioni generali

Aree di ricerca e conoscenza

Neurofisiologia clinica dei disturbi del movimento Stimolazione magnetica transcranica Studio della neuroplasticità della corteccia sensitivo-motoria nell'uomo sano e nei disturbi dei gangli della base. Fisiopatologia della distonia mediante neurofisiologia e neuroimaging Fisiopatologia della malattia di Parkinson mediante neurofisiologia e neuroimaging, DTI e trattografia.

Attività scientifica e altre informazioni

L'attività di ricerca è testimoniata da oltre 188 full paper pubblicati su riviste internazionali di alto livello e/o libri, e da oltre 80 relazioni tenute a congressi internazionali o nazionali o presso istituti di ricerca, su invito. I lavori scientifici sono stati ampiamente citati in letteratura, come testimonia il notevole h-index (49) con oltre 12289 citazioni, 1577 citazioni nel 2022 (dati Scopus)

Selezione pubblicazioni (dal 2010)

Quartarone A, Ghilardi MF. Neuroplasticity in dystonia: Motor symptoms and beyond Review **Handb Clin Neurol** 2022; 184:207-218.

Rizzo V, Terranova C, Raffa G, Cardali M, Angileri F, Marzano G, Quattropiani MC, Germanò A, Girlanda P, **Quartarone A**, Cortical Excitability and Connectivity in Patients With Brain Tumors **Front Neurol** 2021 Aug 26;12:673836.

IF: 3.2

Ghilardi MF, Tatti E, **Quartarone A**. Beta power and movement-related beta modulation as hallmarks of energy for plasticity induction: Implications for Parkinson's disease **Parkinsonism Relat Disord** 2021 Jul;88:136-139

IF: 5.3

Rizzo V, Mastroeni C, Maggio R, Terranova C, Girlanda P, Siebner HR, **Quartarone A**.

Low-intensity repetitive paired associative stimulation targeting the motor hand area at theta frequency causes a lasting reduction in corticospinal excitability. **Clin Neurophysiol.** 2020 Oct;131(10):2402-2409.

IF: 3.6

Quartarone A, Cacciola A, Milardi D, Ghilardi MF, Calamuneri A, Chillemi G,

Anastasi G, Rothwell J. New insights into cortico-basal-cerebellar connectome: clinical and physiological considerations. **Brain**. 2020 Feb 1;143(2):396-406.

IF: 11.3

Cacciola A, Milardi D, Bertino S, Basile GA, Calamuneri A, Chillemi G, Rizzo G, Anastasi G, **Quartarone A**. Structural connectivity-based topography of the human globus pallidus: Implications for therapeutic targeting in movement disorders. **Mov Disord**. 2019 Jul;34(7):987-996.

IF: 8.3

Terranova C, Rizzo V, Morgante F, Maggio R, Calamuneri A, Chillemi G, Girlanda P, **Quartarone A**. Spatial Integration of Somatosensory Inputs during Sensory-Motor Plasticity Phenomena Is Normal in Focal Hand Dystonia. **Neural Plast**. 2018 Oct 10;2018

IF: 3.5

Restivo DA, Panebianco M, Casabona A, Lanza S, Marchese-Ragona R, Patti F, Masiero S, Biondi A, **Quartarone A** Botulinum Toxin A for Sialorrhoea Associated with Neurological Disorders: Evaluation of the Relationship between Effect of Treatment and the Number of Glands Treated. **Toxins (Basel)**. 2018 Jan 27;10(2):55

IF: 3.5

Soundara Rajan T, Ghilardi MFM, Wang HY, Mazzon E, Bramanti P, Restivo D, **Quartarone A**. Mechanism of Action for rTMS: A Working Hypothesis Based on Animal Studies. **Front Physiol**. 2017 Jun 30;8:457.

IF: 4.1

Morgante F, Naro A, Terranova C, Russo M, Rizzo V, Risitano G, Girlanda P, **Quartarone A**. Normal sensorimotor plasticity in complex regional pain syndrome with fixed posture of the hand. **Mov Disord**. 2017 Jan;32(1):149-157.

IF: 8.3

Milardi D, Cacciola A, Calamuneri A, Ghilardi MF, Caminiti F, Cascio F, Andronaco V, Anastasi G, Mormina E, Arrigo A, Bruschetta D, **Quartarone A**. The Olfactory System Revealed: Non-Invasive Mapping by using Constrained Spherical Deconvolution Tractography in Healthy Humans. **Front Neuroanat**. 2017 Apr 10;11:32.

IF: 3.23

Cacciola A, Milardi D, Anastasi GP, Basile GA, Ciolli P, Irrera M, Cutroneo G, Bruschetta D, Rizzo G, Mondello S, Bramanti P, **Quartarone A**. A Direct Cortico-Nigral Pathway as Revealed by Constrained Spherical Deconvolution Tractography in Humans. **Front Hum Neurosci**. 2016 Jul 26;10:374.

IF: 3.2

Milardi D, Arrigo A, Anastasi G, Cacciola A, Marino S, Mormina E, Calamuneri A, Bruschetta D, Cutroneo G, Trimarchi F, **Quartarone A**. Extensive Direct Subcortical Cerebellum-Basal Ganglia Connections in Human Brain as Revealed by Constrained Spherical Deconvolution Tractography.

Front Neuroanat. 2016 Mar 18;10:29.

IF: 3.2

Chillemi G, Calamuneri A, Morgante F, Terranova C, Rizzo V, Girlanda P, Ghilardi MF, **Quartarone A**. Spatial and Temporal High Processing of Visual and Auditory Stimuli in Cervical Dystonia. **Front Neurol.** 2017 Mar 3;8:66.

IF: 3.5

Arrigo A, Mormina E, Calamuneri A, Gaeta M, Marino S, Milardi D, Anastasi GP,

Quartarone A. Amygdalar and hippocampal connections with brainstem and spinal

cord: A diffusion MRI study in human brain. **Neuroscience.** 2017 Feb

IF: 3.2

Rajan TS, Cuzzocrea S, Bruschetta D, **Quartarone A**. Repetitive Transcranial Magnetic Stimulation as a Novel Therapy in Animal Models of Traumatic Brain Injury. **Methods Mol Biol.** 2016;1462:433-43.

IF: 10.7

Milardi D, Gaeta M, Marino S, Arrigo A, Vaccarino G, Mormina E, Rizzo G, Milazzo C, Finocchio G, Baglieri A, Anastasi G, **Quartarone A**. Basal ganglia

network by constrained spherical deconvolution: a possible cortico-pallidal pathway? **Mov Disord.** 2015 Mar;30(3):342-9.

IF: 8.3

Russo M, Crupi D, Naro A, Avanzino L, Buccafusca M, Dattola V, Terranova C, Sottile F, Rizzo V, Ghilardi MF, Girlanda P, Bove M, **Quartarone A**. Fatigue in patients with multiple sclerosis: from movement preparation to motor execution **J Neurol Sci.** 2015 Apr 15;351(1-2):52-57

IF: 3.1

Rizzo V, Terranova C, Crupi D, Sant'angelo A, Girlanda P, **Quartarone A**. Increased transcranial direct current stimulation after effects during concurrent peripheral electrical nerve stimulation. **Brain Stimul.** 2014 Jan-Feb;7(1):113-21.

IF: 6.91

Quartarone A, Hallett M. Emerging concepts in the physiological basis of dystonia. *Mov Disord.* 2013 Jun 15;28(7):958-67.

IF: 8.3

Terranova C, SantAngelo A, Morgante F, Rizzo V, Allegra R, Arena MG, Ricciardi L, Ghilardi MF, Girlanda P, **Quartarone A**. Impairment of sensory-motor

plasticity in mild Alzheimer's disease. **Brain Stimul.** 2013 Jan;6(1):62-6.

IF: 6.91

Quartarone A, Pisani A. Abnormal plasticity in dystonia: Disruption of

synaptic homeostasis. *Neurobiol Dis.* 2011 May;42(2):162-70.

IF: 5.2

Morgante F, Dattola V, Crupi D, Russo M, Rizzo V, Ghilardi MF, Terranova C,

Girlanda P, **Quartarone A.** Is central fatigue in multiple sclerosis a disorder of

movement preparation? *J Neurol.* 2011 Feb;258(2):263-72

IF: 3.8

Autorizzo il trattamento dei miei dati personali ai sensi del Decreto Legislativo 30 giugno 2003, n. 196 "Codice in materia di protezione dei dati personali"

Messina, 26/04/2023

Angelo Quartarone

A handwritten signature in black ink, appearing to read "Angelo Quartarone".

Curriculum Vitae
EUROPEAN FORM



PERSONAL INFORMATION

Surname(s) / First name(s) **Quartarone Angelo**

Telephone(s) office: +39 09060128101

E-mail angelo.quartarone@irccsme.it

Nationality Italian

Date of birth 18 October 1965

Gender Male

WORK EXPERIENCE

Date September 2022 -To date

Name of employer **IRCCS Centro Neurolesi Bonino-Pulejo of Messina** – www.irccsme.it

Position **Scientific Director (12th of September 2022)**

Date From 2002 -To date

Name of employer **Università degli Studi di Messina** – www.unime.it

Position **Full Professor of Neurology (January 2021)**

Former positions and dates

Position **2016- January 2021 – Full Professor of Neurophysiology** and Rehabilitation SSD Med 48, University of Messina

Name of employer Università degli Studi di Messina – www.unime.it

Position **2006-2016 Associate Professor of Neurophysiology** and Rehabilitation Med 48: University of Messina

Name of employer Università degli Studi di Messina

Name of employer **2003-2006 Assistant Professor of Neurology**, Med26

Position University of Messina, Italy

Other positions

position **2011-2015: Director of the School of Physiotherapy**, University of Messina, The University of Messina

position **2018-2021: Director of the School of Technicians of Neurophysiology**, University of Messina

Hospital appointments

position

position 1996-present Attending Physician, Clinica Neurologica II, Policlinico Universitario Messina

1996-present Attending Physician, Neurophysiology Unit, Policlinico Universitario Messina

position 2000-present Chief Director, Transcranial Magnetic Stimulation and Motor Control Lab, Clinica Neurologica , Messina.

position September 2021-present Deputy Director of Neurophysiology and Movement Disorder Unit, Policlinico Universitario Messina

Certifications

1994 National Italian Board of Neurology;
1990 National Italian Board of Medicine;

Coordination of International and National Research Projects

2003-2004 [FISM](#) (Italian Foundation of Multiple Sclerosis) (co-investigator)

2008-2009 [American Blepharospasm Foundation Grant](#): Corneal sensitivity in patients affected by blepharospasm (PI)

2009 [FISM](#) (Italian Foundation of Multiple Sclerosis): Study of Central Fatigue (PI)

2009 [Grant Servier](#) (Paris, France) Memantine and cortical plasticity (PI)

2012-2013 [Grant Gossweiler Foundation](#): Mechanisms of action of premotor epidural stimulation in dystonia (PI)

2015 [Grant Ministry of Health](#) : Does intensive exercise induce plasticity-related changes in Parkinson's Disease? (co-investigator).

2019 [Grant of The American Ministry of Defense](#) (DoD Grant): Exercise and plasticity in PD: Functional and structural evidence in the cortex and the spinal cord. (PI).

2021 [Grant of Fresco Parkinson Institute](#), New York University, USA

Medical Foundations

2003-2007 Board Member, Italian Clinical Neurophysiological Society

Executive Board

2009-2010 Board Member of Italian Movement Disorder Society

Organization of International meetings

2010: First International Workshop of Synaptic Plasticity: from bench to bed side, Giardini Naxos

2012: Second International Workshop of Synaptic Plasticity: from bench to bed side, Taormina

2014: Third International Workshop of Synaptic Plasticity: from bench to bed side, Milazzo

2016: Fourth International Workshop of Synaptic Plasticity: from bench to bed side, Lucca

2018: Fifth International Workshop of Synaptic Plasticity: from bench to bed side, Florence

2022: Sixth International Workshop of Synaptic Plasticity: from bench to bed side, Florence

**Member of the Editorial Board of
International Scientific Journals**

Deputy Editor of *Frontiers System Neurosciences*

Editorial Board of *Journal of Clinical Movement Disorder*.
<https://clinicalmovementdisorders.biomedcentral.com/about/editorial-board>.

Editor of Books

Editor of e Special issue of *Handbook of Neurology* dedicated on Plasticity in Neuropsychiatric Disorders.

International invited lectures

Seminary at National Hospital, Queen Square , London, England 2003
Seminary at Dpt. of Neurology of Kiel University, Germany 2005
Movement Disorder Society Meeting New Orleans, USA 2005
Seminary at Toronto Western Hospital, Canada 2005
Annual Teaching Course of Functional Neuroimaging Brain Voyager Sorrento Italy, 2006
Workshop on Complex Pain Regional Syndrome Warsaw, Poland 2006
Movement Disorder Society Meeting Kyoto, Japan 2006
Plasticity of basal ganglia disorders, Perugia, Italy 2006
Seminary at National Hospital, Queen Square , London, England 2006
Movement Disorder Society Meeting Istanbul, Turkey 2007
Seminar Department of Neuropsychology, University of Maastricht, Holland 2007 –
Seminary at National Hospital, Queen Square , London, England 2007
Dystonia Medical Research Foundation, Washington, USA 2007
International Federation of Clinical Neurophysiology, Siena, Italy 2008
Seminary at the Dpt of Neurology, Hospital del la Salpetriere Paris, France 2008
Movement Disorder Society Meeting Chicago, USA 2008
Seminary at the Dept of Neurology, Hopital del la Salpetriere Paris, France 2009
FENS Satellite Symposium on Motor Control, Nijmegen, Holland 2010
5 International Dystonia Symposium , Barcelona Spain 2011
Movement Disorder Society Meeting Toronto, Canada 2011
Sixth International Dystonia Symposium, Hannover 2012
Fifth International Conference on Non Invasive Brain Stimulation, Leipzig 2013
30th Congress of Clinical Neurophysiology, Berlin 2014
I Brain Stimulation Meeting , Singapore 2015
International DBS symposium Berlin 2016
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Neuromodulation Course, City College University, New York 2017
Movement Disorder Society , Hong Kong 2018
International Federation of Clinical Neurophysiology, Washington 2018
Fourth International Congress of treatment of dystonia, Hannover, 2019



SCIENTIFIC PRIZES AND OTHER RECOGNITIONS

Scientific Prize	Winner of “ Premio giovani ricercatori ” Bonino Pulejo Foundation and 1 year stage at stage National Hospital for Nervous Diseases, Quenn Square, of London under the supervision of Prof. John Rothwell and David Marsden.
International Recognitions	<u>Award from the Serbian Academy of Sciences and title of Visiting Professor at the University of Belgrade 2014</u>
Spin off	Member of the Spin off M.I.L.A. Multimodal Imaging Lab Activities Numero REA: ME225183, Codice Fiscale: 03267110835; Web site https://portale.unime.it/mila/people/

EDUCATION AND TRAINING

Award Date	July 1990
Title of qualification awarded	Degree in Medicine and Surgery cum Laude ; University of Messina
Award Date	1994
Title of qualification awarded	Specialization in Neurology cum Laude , University of Messina
Post-doctoral positions, fellowships	1994-96 Movement Disorders Fellowship ; National Hospital for Nervous diseases, Queen Square . London UK Supervisione Prof. Charles David Marsden.

PERSONAL SKILLS AND COMPETENCES

Language skills
Mother tongue(s) **Italian**

Other language(s)
Self-assessment
European level (*)

Understanding		Speaking		Writing
Listening	Reading	Spoken interaction	Spoken production	
C1 Proficient User	C1 Proficient User	C1 Proficient User	C1 Proficient User	C1 Proficient User

Language: English

C1 Proficient User	C1 Proficient User	C1 Proficient User	C1 Proficient User	C1 Proficient User
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(*) Common European Framework of Reference (CEF) level

Social and communication skills Excellent networking skills; good communication skills at the level of divulgater in conference and meetings

Organizational / managerial skills

Leadership (Coordination of International teams, as reported above); excellent experience in project or team management

**Research areas and knowledge,
Scientific activity and general
information****Research areas and knowledge**

Clinical Neurophysiology of Movement Disorders Transcranial Magnetic Stimulation Study of Neuroplasticity within sensory-motor cortex in healthy humans and in basal ganglia disorders. Pathophysiology of dystonia by means of neurophysiology and neuroimaging Pathophysiology of Parkinson's disease by means of neurophysiology and Neuroimaging., DTI and tractography

Scientific activity and other information

The research activity is testified by **over 188 full papers** published in international high-level journals and/or books, and by over 80 talks delivered at international or national conferences or at research institutes, on invitation.

The scientific papers have been extensively quoted in the literature, as testified by the remarkable **h-index (49)** with over **12289 citations, 1577 citations in 2022.**

Selected publications Publications (since 2010)

Quartarone A., Ghilardi MF. Neuroplasticity in dystonia: Motor symptoms and beyond Review **Handb Clin Neurol** 2022; 184:207-218.

Rizzo V, Terranova C, Raffa G, Cardali M, Angileri F, Marzano G, Quattropani MC, Germanò A, Girlanda P, **Quartarone A,** Cortical Excitability and Connectivity in Patients With Brain Tumors **Front Neurol** 2021 Aug 26;12:673836.

IF: 3.2

Ghilardi MF, Tatti E, **Quartarone A.** Beta power and movement-related beta modulation as hallmarks of energy for plasticity induction: Implications for Parkinson's disease **Parkinsonism Relat Disord** 2021 Jul;88:136-139

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Rizzo V, Mastroeni C, Maggio R, Terranova C, Girlanda P, Siebner HR, **Quartarone A.**

Low-intensity repetitive paired associative stimulation targeting the motor hand area at theta frequency causes a lasting reduction in corticospinal excitability. **Clin Neurophysiol.** 2020 Oct;131(10):2402-2409.

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Quartarone A, Cacciola A, Milardi D, Ghilardi MF, Calamuneri A, Chillemi G,

Anastasi G, Rothwell J. New insights into cortico-basal-cerebellar connectome:

clinical and physiological considerations. **Brain.** 2020 Feb 1;143(2):396-406.

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Cacciola A, Milardi D, Bertino S, Basile GA, Calamuneri A, Chillemi G, Rizzo

G, Anastasi G, **Quartarone A.** Structural connectivity-based topography of the

human globus pallidus: Implications for therapeutic targeting in movement disorders. **Mov Disord.** 2019 Jul;34(7):987-996.

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Terranova C, Rizzo V, Morgante F, Maggio R, Calamuneri A, Chillemi G, Girlanda P, **Quartarone A.** Spatial Integration of Somatosensory Inputs during Sensory-Motor Plasticity Phenomena Is Normal in Focal Hand Dystonia. **Neural Plast.** 2018 Oct 10;2018

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Restivo DA, Panebianco M, Casabona A, Lanza S, Marchese-Ragona R, Patti F, Masiero S, Biondi A, **Quartarone A** Botulinum Toxin A for Sialorrhoea Associated with Neurological Disorders: Evaluation of the Relationship between Effect of Treatment and the Number of Glands Treated. **Toxins (Basel).** 2018 Jan 27;10(2):55

IF: 3.5

Soundara Rajan T, Ghilardi MFM, Wang HY, Mazzon E, Bramanti P, Restivo D,

Quartarone A. Mechanism of Action for rTMS: A Working Hypothesis Based on Animal

Studies. **Front Physiol.** 2017 Jun 30;8:457.

IF: 4.1

Morgante F, Naro A, Terranova C, Russo M, Rizzo V, Risitano G, Girlanda P,

Quartarone A. Normal sensorimotor plasticity in complex regional pain syndrome

with fixed posture of the hand. **Mov Disord.** 2017 Jan;32(1):149-157.

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Milardi D, Cacciola A, Calamuneri A, Ghilardi MF, Caminiti F, Cascio F, Andronaco V, Anastasi G, Mormina E, Arrigo A, Bruschetta D, **Quartarone A.** The Olfactory System Revealed: Non-Invasive Mapping by using Constrained Spherical Deconvolution Tractography in Healthy Humans. **Front Neuroanat.** 2017 Apr 10;11:32.

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Cacciola A, Milardi D, Anastasi GP, Basile GA, Ciolli P, Irrera M, Cutroneo G, Bruschetta D, Rizzo G, Mondello S, Bramanti P, **Quartarone A.** A Direct

Cortico-Nigral Pathway as Revealed by Constrained Spherical Deconvolution

Tractography in Humans. **Front Hum Neurosci.** 2016 Jul 26;10:374.

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According to law 679/2016 of the Regulation of the European Parliament of 27th April 2016, I hereby express my consent to process and use my data provided in this CV

Messina, 26/04/2023

Angelo Quartarone

A handwritten signature in black ink, appearing to read "Angelo Quartarone". The signature is fluid and cursive, with the first name "Angelo" being more prominent and the last name "Quartarone" following in a similar style.