

CURRICULUM VITÆ**Giulia CURIA**

Associate Professor of Physiology
SSD: BIOS-06/A Physiology (ex BIO/09)
GSD: 05/BIOS-06 Biology/Physiology (ex 05/D1)



University of Modena and Reggio Emilia (UNIMORE)
Department of Biomedical, Metabolic and Neural Sciences
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RESEARCH INTERESTS

ERC PANELS: **LS** **LIFE SCIENCES**

LS3 Cell Biology, Development, Stem cells and Regeneration

LS3_15 Development of cell-based therapeutic approaches for tissue regeneration

LS5 Neuroscience and Disorders of the Nervous System

LS5_1 Neuronal cells

LS5_5 Neural network and plasticity

LS5_11 Neurological and neurodegenerative disorders (epilepsy)

LS5_13 Nervous system injuries and trauma, stroke

LS5_14 Repair and regeneration of the nervous system

LS5_18 Innovative methods and tools for neuroscience

ACTIVE
PROJECTS:

- In vivo studies to investigate seizure disappearance and repair of the epileptic brain by means of functional intelligent biohybrids.
- Analysis of circulating free DNA as a marker of cerebral concussion in a rodent model of brain trauma.
- In vivo study of effects of RNA interference as innovative therapy to treat epileptic seizures in a mouse model of Dravet syndrome.
- Clustering imaging and cerebrospinal biomarkers in temporal lobe epilepsy and mild cognitive impairment: from humans to animal models

DISCIPLINES
(Keywords):

- Epilepsy
- Physiology
- Neuroscience
- Neurotechnology

EXPERTISE
(Keywords):

In vivo studies

- Electroencephalography (EEG)
- Electrocorticography (ECoG)
- Intracranial EEG (iEEG)
- Preclinical studies
- Stereotaxic neurosurgery
- Intracerebral injections
- Animal models of epilepsy
- Animal models of seizures
- Animal models of status epilepticus

Ex vivo studies

- Immunofluorescence
- Immunohistochemistry
- Brain lesion
- Neuroinflammation

In vitro studies

- Patch-clamp recordings
- Field potential recordings
- Voltage-gated ion channels
- Ligand-gated ion channels
- Cellular excitability
- In vitro models of seizures
- Cell culture
- Acutely dissociated neurons
- Brain slices

EDUCATION

Degrees

- 2026: **National Scientific qualification as full professor in Physiology**
Ministry of University and Research (Italy)
- 2004: **Ph.D. IN GENERAL PHYSIOLOGY (CURRICULUM CELLULAR AND MOLECULAR)**
Thesis title: Functional study of a mutant human nicotinic receptor ($\beta 2$ -V287L) linked to autosomal dominant nocturnal frontal lobe epilepsy (ADNFLE).
University of Milano (Milano, Italy)
Grade: *Optimum*
- 1999: **MSc. BIOLOGICAL SCIENCES**
Thesis title: The physiological role of LHRH-secreting hypothalamic neurones is regulated by the activity of ERG potassium channels (*ether-à-go-go-related gene*).
University of Milano (Milano, Italy)
Grade: 106/110

Professional Career

- 2010-2014: **REGISTERED PROFESSIONAL BIOLOGIST**
Italian Biological Board – Section A (63370)
- 2001: **HABILITATION TO PRACTICE AS PROFESSIONAL BIOLOGIST**
University of Milano (Milano, Italy)
Grade: 124/150

Certifications and Courses

LABORATORY ANIMAL SCIENCE

- 2026: ECM Theoretical course on Design of Procedures and Projects (Level 2) [Concezione di procedure e progetti (livello 2)], Module 11 DM 5 August 2021. FAD, 2 CFP. Università di Trento.
- 2025: ECM Theoretical course on Design of Procedures and Projects (Level 1) [Concezione di procedure e progetti (livello 1)], Module 10 DM 5 August 2021. FAD, 2 CFP. Università di Trento.
- 2025: ECM Theoretical course on Ethics, Animal welfare and 3R (level 2) [Etica, benessere degli animali, 3R (livello 2)], Module 9 DM 5 August 2021. FAD, 2 CFP. Università di Trento.
- 2025: ECM Theoretical course on Minimally Invasive Procedures Without Anesthesia for *Mus musculus* and *Rattus norvegicus* (Theory) [Procedura minimamente invasiva senza anestesia per *Mus musculus* e *Rattus norvegicus* (teoria)], Module 7 DM 5 August 2021. FAD, 3 CFP. Università di Trento.
- 2025: ECM Theoretical course on Humane Methods of Euthanasia (Theory) [Metodi umanitari di soppressione (teoria)], Module 6.1 DM 5 August 2021. FAD, 2 CFP. Università di Trento.
- 2025: ECM Theoretical course on Recognition of Pain, Suffering, and Distress in *Mus musculus* and *Rattus norvegicus* [Riconoscimento del dolore, della sofferenza e del distress per *Mus musculus* e *Rattus norvegicus*], Module 5 DM 5 August 2021. FAD, 4 CFP. Università di Trento.
- 2025: ECM Theoretical course on Animal Care, Health, and Management for *Mus musculus* and *Rattus norvegicus* (Theory) [Cura, salute e gestione degli animali per *Mus musculus* e *Rattus norvegicus* (teoria)], Module 4 DM 5 August 2021. FAD, 4 CFP. Università di Trento.

- 2025: ECM Theoretical course on Basic Appropriate Biology of *Mus musculus* and *Rattus norvegicus* [Biologia appropriata di base *Mus musculus* e *Rattus norvegicus*], Module 3.1 DM 5 August 2021. FAD, 4 CFP. Università di Trento.**
- 2025: ECM Theoretical course on Ethics, Animal welfare and 3R (level 1) [Etica, benessere degli animali, 3R (livello 1)], Module 2 DM 5 August 2021. FAD, 2 CFP. Università di Trento.**
- 2025: ECM Theoretical course on National Legislation [Legislazione nazionale], Module 1 DM 5 August 2021. FAD, 3 CFP. Università di Trento.**
- 2024: ECM Accredited course “Animal Welfare Body: Training for Tasks, Modules 25, 50, 51 DM 5 August 2021”. [OPBA: Formazione per i compiti]. Head of Training Department Dr. Lombardi. Experimental Zooprophyllactic Institute of Lombardia and Emilia Romagna. FAD 8 CFP. Accreditation ID 336901.**
- 2022: ECM Accredited course “National Legislation and Ethics, Level 1, Modules 1 and 2, DM 5 August 2021”. Head of Training Department Dr. Lombardi. Experimental Zooprophyllactic Institute of Lombardia and Emilia Romagna. FAD 5 hours, 7.5 CFP. Accreditation ID 353662.**
- 2022: ECM Accredited course “Training and updating course on basic elements for the use of animals for scientific purposes by researchers”. Head of Training Department F. D’Orsi, IRCCS Neuromed, Pozzilli (Is). Video conferencing on Platform CISCO WEBEX. 4 hours, 4 CFP.**
- 2021: Certificate “Animal welfare and its impact on scientific research”. Charles River and University of Milan.
- 2020: ECM Accredited course “Training course for qualified personnel in the field of use of animals for scientific and educational purposes – level 2”. Head of Training Department Dr. Beghini, Emilia Romagna Region and University of Bologna, Ozzano (Bologna). 50 hours, 50 CFP. Training event 800, edition 1.**
- 2019: Certificate “Refresher Course on Preventive assessment of pain and suffering according to current legislation: from Annex VI to the retrospective assessment”; Interdepartmental Animal Facility Service Center (CSSI), UNIMORE.
- 2015: Certificate “Introduction to Laboratory Animal Science”; Interdepartmental Animal Facility Service Center (CSSI), UNIMORE.
- 2011: Certificate “Specific Pathogen Free Training”; Interdepartmental Animal Facility Service Center (CSSI), UNIMORE.
- 2010: Certificate “Specific Pathogen Free Training”; University of Washington Animal Use Training Program”, University of Washington (Seattle, WA, USA).
- 2009: Certificate “Animal Use Laws and Regulation Training”; University of Washington Animal Use Training Program, University of Washington (Seattle, WA, USA).
- 2007: Certificate “Methodology workshop on guinea pig use in laboratory”; McGill University Animal Care Committee, McGill University (Montreal, Canada).
- 2005: Certificate “Methodology workshop on mice use in laboratory”; McGill University Animal Care Committee, McGill University (Montreal, Canada).
- 2005: Certificate “Methodology workshop on rats use in laboratory”; McGill University Animal Care Committee, McGill University (Montreal, Canada).
- 2005: Certificate “Theory course on animal use in laboratory (advanced level)”; McGill University Animal Care Committee, McGill University (Montreal, Canada).

RESEARCH, TEACHING STRATEGIES, THIRD MISSION AND EVALUATION

- 2025: JoVE webinar: 10 minute boost: Microlearning for STEM+ Faculty. JoVE 04.04.2025
- 2025: Corso di Formazione alla didattica per neoassunti 2025 “Teaching training course”. 13-14.02.2025. UNIMORE, Italy.
- 2023: Course on “EIC Pathfinder OPEN evaluation process”, e-learning course by EU Academy, EU.
- 2021: Course on “Predatory journals and journal quality evaluation: the bibliometric point of view”, UNIMORE, Italy.
- 2021: Workshop on “Electroencephalography: biophysical and technical aspects important for present and future clinical applications”, by Prof. S. Meletti, MoReMED, UNIMORE, Italy.
- 2018: Course “Stakeholder Engagement in FET”; EEFECT webinar, FETFX, Brussels, Belgium.
- 2017: Certificate “Systematic reviews of animal studies”; e-learning course, SYstematic Review Center for Laboratory animal Experimentation (SYRCLE), University of Radbound, Netherlands.

- 2012: Course on “Human adaptation to high altitude”; School of the Italian Society of Physiology (SIF), Torino and Plateau Rosà Breuil-Cervinia, Italy.
- 2009: Certificate “Health Insurance Portability and Accountability Act (HIPAA) Compliance: Health Care Compliance Strategies (HCCS)“, Jericho, NY, USA.

WORKPLACE SAFETY AND PREVENTION

- 2026: Certificate “Gender-specific medicine”, FAD sicurMORE e-learning course, UNIMORE.
- 2026: Certificate “Safety brief: Building Evacuation alarm”, FAD sicurMORE e-learning course, UNIMORE.
- 2021: Certificate “Recognize and contrast the psychosocial effects of Covid-19 for a good working coexistence”, FAD sicurMORE e-learning course, UNIMORE.
- 2021: Certificate “The vaccination obligation of workers during a health emergency”, FAD sicurMORE e-learning course, UNIMORE.
- 2021: Certificate “Smart working: reconciliation with family life, ergonomic aspects and psychosocial risks”, FAD sicurMORE e-learning course, UNIMORE.
- 2020: Certificate “SARS-COV-2: what it is and how to use personal protective equipment”; FAD sicurMORE e-learning course, prepared by AUSL Parma for UNIMORE.
- 2020: Certificate “Indications for the prevention of COVID-9 transmission”; FAD sicurMORE e-learning course, prepared by AUSL Reggio Emilia for UNIMORE.
- 2020: Certificate “Health promotion (D.Lgs. 81/08, Art. 36/37)“, FAD sicurMORE e-learning course, UNIMORE.
- 2015: Certificate “Emergency management and first aid (D.Lgs. 81/08, Art. 36)“, FAD sicurMORE e-learning course prepared for work in solitude, UNIMORE.
- 2015: Certificate “Specific training for managers: addition (D.Lgs. 81/08, Artt. 36 and 37)“, FAD sicurMORE e-learning course, UNIMORE.
- 2015: Certificate “Refresher course for staff who had regularly participated, by 31/12/2013, in the SicurMORE e-learning training” (D.Lgs. 81/08, Artt. 36 and 37); FAD sicurMORE e-learning course, UNIMORE.
- 2010: Certificate Module 3 “Specific risks: biological risk” (D.Lgs. 81/08, Artt. 36 and 37)“, FAD sicurMORE e-learning course, UNIMORE.
- 2010: Certificate Module 2 “Specific risks: gas, laser, ionizing radiation; physical and chemical risk” (D.Lgs. 81/08, Artt. 36 and 37); FAD sicurMORE e-learning course, UNIMORE.
- 2010: Certificate Module 1 “General training for prevention and safety at work” (D.Lgs. 81/08, Artt. 36 and 37); FAD sicurMORE e-learning course, UNIMORE.
- 2007: Certificate “Hazardous waste management & disposal training for laboratory personnel“, McGill University (Montreal, Canada).
- 2007: Certificate “Safe use of biological safety cabinets training for laboratory personnel“, McGill University (Montreal, Canada).
- 2005: Certificate “Workplace hazardous materials information system (WHMIS) training for laboratory personnel“, McGill University (Montreal, Canada).
- 2004: Training course on bio-safety for laboratory personnel; University of Milano-Bicocca (Milano, Italy).

Scholarships and Distinctions

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|------------|---|
| 2001-2004: | PhD Scholarship (32 k€), University of Milano (Milano, Italy) |
| 2000: | Degree award (1 k€), University of Milano (Milano, Italy) |
| 1998-1999: | Scholarship (1,8 k€), University of Milano (Milano, Italy) |
| 1997-1998: | Scholarship (1,8 k€), University of Milano (Milano, Italy) |
| 1995-1996: | Scholarship (1,8 k€), University of Milano (Milano, Italy) |

RESEARCH ACTIVITY

Academic carrier

- SINCE 2014: Associate Professor of Physiology
UNIMORE, Modena (Italy)
Department of Biomedical, Metabolic and Neural Sciences
- 2010-2014: Research Assistant Professor “Rientro dei cervelli” program
UNIMORE, Modena (Italy)
Department of Biomedical, Metabolic and Neural Sciences
- 2009-2010: Non-tenured Faculty Member
University of Washington, Seattle (WA, USA)
Department of Neurological Surgery
- 2005-2008: Postdoctoral Fellow
Montreal Neurological Institute, McGill University, Montreal (QC, Canada)
Department of Neurology and Neurosurgery
- 2001-2004: Ph.D. Student
University of Milano-Bicocca, Milano (Italy)
Department of Biotechnology and Biosciences
Supervisor: Prof. Enzo Wanke
- 2000-2001: Research Assistant
National Neurological Institute “Carlo Besta”, Milano (Italy)
Department of Neurophysiology, Laboratory of Experimental Epileptology
Supervisor: Prof. Giuliano Avanzini
- 1998-1999: Undergraduate thesis student
University of Milano, Milano (Italy)
Department of General Physiology and Biochemistry, Laboratory of Electrophysiology
Supervisor: Prof. Enzo Wanke

Grants and Funds

- 2026-2029 EU
HE-EIC-2025-TRANSITIONOPEN (full project: 2,5 M€; UNIMORE: 0,9 M€)
Grant Agreement number: 101287957
DOI: [10.3030/101287957](https://doi.org/10.3030/101287957)
Project acronym/title: CLUSTREL - Seizure Cluster Relief through Smart Therapeutic Management
Role: Principal Investigator and Deputy Coordinator
- 2025-2026 UNIMORE
FAR 2025 - Department BMN Research grant “Aree tematiche” (6.8 k€)
Project title: Effetti combinati di dieta e attività fisica su crisi epilettiche e funzioni cognitive nell'epilessia del lobo temporale: un approccio integrato tra neuroscienze, nutrizione e sport
Role: PI
- 2025: UNIMORE
FAR 2025 - Department BMN Instruments (full project: 18 k€)
Role: Co-Proponent

- 2024-2025: UNIMORE
FAR 2024 - Department BMN Research grant “Ricerca diffusa” (10 k€)
Project title: TEMPLE - EsTablishing a murinE Model for late-onset temporal Lobe Epilepsy
Role: Co-PI
PI: Dr. Anna Elisabetta Vaudano (University of Modena and Reggio Emilia, Modena, Italy)
- 2024: UNIMORE
FAR 2024 - Department BMN Instruments (full project: 8.3 k€)
Role: Proponent
- NOVEMBER 2024-
OCTOBER 2026: LICE (Lega Italiana Contro l'Epilessia)
Progetto di ricerca clinica (40 K€)
Project title: CLUE - Caratterizzazione fenotipica delle epiLessie temporali ad esordio tardivo mediante biomarcatori sierici e metodiche avanzate di imaging cerebrale: dall’Uomo al modello animale
Role: Collaborator
Project Coordinator: Dr. Anna Elisabetta Vaudano (University of Modena and Reggio Emilia, Modena, Italy)
- OCTOBER 2024-
MARCH 2026: EU
HE-ERC Proof of Concept (full project: 150 K€)
Grant Agreement number: 101189508
DOI: [10.3030/101189508](https://doi.org/10.3030/101189508)
Project title: NEURO2D - Neuromorphic computing system for real-time signal monitoring and classification with ultra-low-power 2D devices
Role: Key collaborator
Grantee: Prof. Daniele Ielmini (Politecnico di Milano, Milano, Italy)
- JUNE 2023-
NOVEMBER 2024: UNIMORE
FAR 2023 - Department BMN Research grant “Ricerca diffusa” (6 k€)
Project title: CLUE - Clustering imaging and cerebrospinal biomarkers in temporal lobe epilepsy and mild cognitive impairment: from humans to animal models
Role: Co-PI
PI: Dr. Anna Elisabetta Vaudano (University of Modena and Reggio Emilia, Modena, Italy)
- JULY 2022 UNIMORE
FAR 2022 - Department BMN Instruments (full project: 8.5 k€)
Role: Proponent
- MARCH 2022-
SEPTEMBER 2023: UNIMORE
FAR 2021 - Mission oriented (full project: 67 k€)
Project title: Analysis of circulating free DNA as a marker of cerebral concussion in boxers and a rodent model.
Role: Co-PI
PI: Prof. Milena Nasi (University of Modena and Reggio Emilia, Modena, Italy)
- DECEMBER 2020-
NOVEMBER 2022: UKRI (UK Research and Innovation)
EPSRC (The Engineering and Physical Sciences Research Council) Doctoral Prize Research Fellowship (full prize: 83 K£)
Grant number: EP/T517896/1
Project acronym/title: SCOTLAND - Scalable, Controlled Optogenetics Treatment implAntbles for Neurological Disorders
Role: Collaborator
Grantee: Dr. Finlay Walton (University of Glasgow, Glasgow, UK)

- NOVEMBER 2020-
OCTOBER 2022: EU
H2020-MSCA-IF 2019 (full project: 225 K€)
Grant Agreement number: 893822
DOI: [10.3030/893822](https://doi.org/10.3030/893822)
Project acronym/title: WiseCURE - Wireless Implantable Devices for Neurological Disorders Cure
Role: Collaborator and Supervisor at the Seconding Institution
Grantee: Dr. Rupam Das (University of Glasgow, Glasgow, UK)
- JANUARY 2019-
DECEMBER 2024: EU
H2020-FET PROACT-2018-01-RIA (full project: 8,4 M€; UNIMORE: 1,3 M€)
Grant Agreement number: 824164
DOI: [10.3030/824164](https://doi.org/10.3030/824164)
Project acronym/title: HERMES - Hybrid enhanced regenerative medicine systems
Role: Principal Investigator
- JANUARY 2018-
DECEMBER 2022: Italian Ministry for Education, University and Research (MIUR), Italy
Departments of excellence (full project: 6 M€)
Project title: Pathophysiology, predictive factors and innovative therapies of neurodegenerative pathologies
Role: Participant
- MARCH 2017-
FEBRUARY 2019: UNIMORE
FAR 2016 - Department Research grant (full project: 3 k€)
Project title: Characterization of epileptic seizures and seizure susceptibility in an animal model of Alzheimer's disease.
Role: Principal Investigator
- JANUARY 2013-
DECEMBER 2014: Alzheimer's Association, USA
Research grant (full project: 100 K€)
Project title: Learning from epilepsy to understand Alzheimer's disease.
Role: Collaborator
Project Coordinator: Dr. Cristina Marchetti (EBRI, Roma, Italy)
- NOVEMBER 2012-
OCTOBER 2015: Telethon Foundation, Italy
Research grant (full project: 180 K€)
Project title: The role of neuronal nicotinic receptors in the pathogenesis of autosomal dominant nocturnal frontal lobe epilepsy: a study on wild-type and conditional transgenic mice expressing the beta2-V287L subunit.
Role: Collaborator
Project Coordinator: Prof. Andrea Becchetti (University of Milano-Bicocca, Milano, Italy)
- JANUARY 2012-
DECEMBER 2014: Pierfranco and Luisa Mariani Foundation, Italy
Research grant (full project: 120 K€; UNIMORE: 32 K€)
Project title: Novel treatment for a genetic drug-resistant epileptic encephalopathy of infancy: virus delivered RNA interference in an animal model of Dravet syndrome.
Role: Principal Investigator
Project Coordinator: Prof. Silvana Franceschetti (National Neurological Institute "Carlo Besta", Milano, Italy)
- MARCH 2010-
MARCH 2014: Italian Ministry for Education, University and Research (MIUR), Italy
"Rientro dei Cervelli" project (personal salary: 140 K€; research grant: 15 K€)
Project title: Neurophysiological and molecular-anatomic alterations of hippocampal and parahippocampal networks in a mouse model of Fragile X syndrome.
Role: Principal Investigator

Research Awards and Fellowships

- MARCH 2014-
MARCH 2015: AUSL Modena, Italy
Fellowship (32 k€)
Project title: Is des-acyl ghrelin the key mediator of ketogenic diet?
- JULY 2006-
JUNE 2008: Canadian Institutes of Health Research (CIHR)/Fragile X Research Foundation of Canada (FXRFC), Canada
Postdoctoral Fellowship (90 kCAD)
Research Travel Allowance (10 kCAD)
Project title: Phasic and Tonic components of the GABA_A current in a mouse model of Fragile X syndrome
- JANUARY 2006-
JUNE 2006: Fragile X Research Foundation of Canada (FXRFC), Canada
Postdoctoral Fellowship (40 kCAD)
Research Travel Allowance (2,5 kCAD)
Project title: Phasic and Tonic components of the GABA_A current in a mouse model of Fragile X syndrome
- DECEMBER 2004: Telethon Foundation, Italy
Research prize (2 k€)
- JULY 2003: Telethon Foundation, Italy
Research prize (2 k€)

Recognitions

- Since 2014: Co-financing (95% lifetime) of the professorship salary by MUR as reserved treatment for winners of the “Rientro dei Cervelli” program**
- 2025: Seal of Excellence awarded to the Horizon-EIC-2025-TransitionOpen proposal CLUSTREL - Seizure Cluster relief through smart therapeutic management**
- 2024: Abstract selected for the poster tour at the 15th European Epilepsy congress (7-11 September, Rome, Italy)
- 2023: HERMES selected from the USA scientific magazine *The Transmitter* to make a dissemination article to tell the project story.
- 2023: Invitation to act as co-chair for the “Epilepsy, Brain Development and Neurogenetics” oral session at BraYn 2023. 6th Research Assembly for Young Neuroscientists in Napoli (Italy); winner B. Casadei Garofani; role: PhD supervisor
- 2023: Travel grant to attend BraYn 2023. 6th Research Assembly for Young Neuroscientists in Napoli (Italy); winner B. Casadei Garofani; role: PhD supervisor
- 2023: Abstract selected for pitch presentation at the Brain-inspired computing workshop in Modena; presenter S. Bartoletti; role: PhD supervisor
- 2022: Travel grant to attend FENS 2022 in Paris (France); winner S. Bartoletti; role: PhD supervisor
- 2020: PhD video pitch contest, ART-ER (Attrattività Ricerca Territorio-Emilia Romagna) and EROI (Emilia Romagna Open Innovation); candidate S. Bartoletti; role: PhD supervisor
- 2016: Editorial commentary (*Neuron*, 92:1154-1157, 2016) to the paper by Lippi et al., *Neuron* 92:1337-1351
- 2014: Associate Professor of Physiology by direct call from MIUR as reserved treatment for winners of the “Rientro dei Cervelli” program**
- 2009: Editorial commentary (*Cerebral Cortex*, 19(7):1490-1492, 2009) to the paper by Curia et al., *Cerebral Cortex* 19(7):1515-1520
- 2008: Abstract selected for oral presentation at the 38th Annual Meeting of the Society for Neuroscience (15-19 November, Washington, DC, USA)

Expert Evaluator of competitive research projects

2026: Evaluator of grant proposals for The Swiss National Science Foundation - Switzerland
2025: Evaluator of grant proposals for The Swiss National Science Foundation - Switzerland
2024: Evaluator of Marie Curie Fellowship proposal for NeuroInsight Programme of the Royal College of Surgeons in Ireland - MSCA-COFUND Fellowship on H2020 programme – Ireland
2023: Evaluator of research proposal for EU – call Horizon-EIC-2023-Pathfinder Open-01 - EU
2023: Evaluator of Marie Curie Fellowship proposal for NeuroInsight Programme of the Royal College of Surgeons in Ireland - MSCA-COFUND Fellowship on H2020 programme – Ireland
2021: Evaluator of research proposals for MUR – PRIN 2020 program - Italy
2018: Evaluator and *rapporteur* of a research proposal for MIUR – PRIN 2017 program - Italy
2018: Evaluator of research proposals for MIUR – PRIN 2017 program - Italy
2017: Evaluator of research proposals for University of Pavia - Blu Sky Research program - Italy
2017: Evaluator of research proposals for *Regione Sardegna* - PO FSE 2014-2020 - Italy
2015: Evaluator of a postdoctoral fellowship application for The Research Foundation of Flanders (FWO) - Belgium
2013: Evaluator at 7FP Consensus meeting, topic “Pathophysiology and therapy of epilepsy and epileptiform disorders” (call 7FP-HEALTH-2013-Innovation-1), Brussels
2013: Evaluator at 7FP Panel meeting, topic “Neuroscience”, (HEALTH.2013.2.2.1-4), Brussels
2012: Evaluator of research proposals for University of Macau - China
2011: Evaluator of research proposals for Neurological Foundation of New Zealand - New Zealand

Expert Reviewer/Monitor of funded research projects

- Expert reviewer in neuroscience at the 3rd and final review meeting, project 3x3D Imaging (7FP - ICT), Budapest, January 2017
- Expert reviewer in neuroscience at the 2nd review meeting, project 3x3D Imaging (7FP - ICT), Brussels, July 2015
- Expert reviewer in neuroscience at the 1st review meeting, project 3x3D Imaging (7FP - ICT Information and Communication Technologies), Budapest, July 2014

Evaluator candidate of research projects for Research Institutions

European Commission (candidate evaluator for Horizon 2020 and Horizon Europe projects), EU
Italian Ministry for University and Research (MUR, database REPRISE), Italy
BrainMap database
Executive Agency for Higher Education, Research, Development and Innovation Funding (UEFISCDI), Romania
Japan Agency for Medical Research and Development (AMED), Japan
Neurological Foundation of New Zealand, New Zealand
The Research Foundation of Flanders (FWO), Belgium – 2023-2027
University of Macau, Macau, China

External Evaluator of PhD Theses

- 2023: External evaluator of the PhD thesis entitled “Brain organoids as innovative tool for regenerative medicine” by Alessandra Campanelli, supervisor Prof. Ilaria Decimo – PhD School in Neuroscience, Physiological and Psychiatric Sciences, and Movement Sciences – XXXV cycle; University of Verona, Verona, Italy.
- 2023: External evaluator of the PhD thesis entitled “Development of murine brain organoids and their application for disease modeling” by Raluca Georgiana Zamfir, supervisor Prof. Ilaria Decimo – PhD School in Neuroscience, Physiological and Psychiatric Sciences, and Movement Sciences – XXXV cycle; University of Verona, Verona, Italy.
- 2018: External evaluator of the PhD thesis entitled “Mutant heteromeric nicotinic receptors in brain development and sleep-related epilepsy” by Simone Brusco, supervisor Prof. Andrea Becchetti – PhD School in Translational and Molecular Medicine – Dimet – XXIX cycle; University of Milano-Bicocca, Milan, Italy

Member of Committees

- 2023: External member of committee of final exam of the PhD School in Neuroscience, Psychological and Psychiatric Sciences, and Movement Sciences; University of Verona, Verona, Italy
- 2019: External member of committee of final exam of the PhD School in Integrative Biomedical Research; University of Milano, Milan, Italy
- 2018: External member of committee of the PhD thesis entitled “Relevance of electrolytic balance in channelopathies” by Dr. Anna Binda, supervisor Prof. Ilaria Rivolta - PhD School in Translational and Molecular Medicine - Dimet; University of Milano-Bicocca, Milan, Italy

Editorial Board Member

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| SINCE JULY 2022: | Review Editor in Frontiers in Cellular Neuroscience - Cellular Neurophysiology |
| 2022-2023: | Co-Guest Editor for the Research Topic "Bridging the Gap between Integrative Neuroscience and Translational Neuroscience" in Frontiers in Integrative Neuroscience. |
| 2020-2022: | Guest Associated Editor in Frontiers in Neuroscience - Neural Technology |
| 2020-2022: | Guest Editor in Philosophical Transactions of the Royal Society A - Mathematical, Physical and Engineering Sciences Theme for Theme Issue “Advanced Neurotechnologies: translating innovation for health and well-being” |
| 2020-2022: | Topic Editor in Frontiers in Neuroscience - Neural Technology for Special Issue “In vivo investigations on Neurological Disorders: from traditional approaches to forefront technologies” |

Article Reviewer for Scientific Journals

Biomarkers in Medicine
 Brain Sciences
 British Journal of Pharmacology
 Cell Reports Medicine

Cells
 Epilepsy Research
 Frontiers in Cellular Neuroscience
 Genes
 IEEE Journal of Electromagnetics, RF, and Microwaves in Medicine and Biology
 Journal Neuroscience Methods
 JPET
 MedComm
 Methods
 Neurobiology of Disease
 Neurological Science
 Neuroscience
 Pflugers Archiv-European Journal of Physiology
 PlosOne

National and International Collaborators (ongoing and past)

Prof. Rita Bardoni – UNIMORE, Modena, Italy
 Prof. Francesco Bellini – Eurokleis, Roma, Italy
 Dr. Rupam Das – University of Exeter, Exeter, UK
 Prof. Tatiana De Ros – University of Trieste, Trieste, Italy
 Prof. Ilaria Decimo – University of Verona, Verona, Italy
 Dr. Audrey Franceschi Biagioni – SISSA, Trieste, Italy
 Dr. Rami Ghannam – University of Glasgow, Glasgow, UK
 Dr. Lina Giannivasili – Future Needs, Nicosia, Cyprus
 Prof. Michele Giugliano – UNIMORE, Modena, Italy
 Prof. Miao He – Fudan University, Shanghai, China
 Prof. Hadi Heidari – University of Glasgow, Glasgow, UK
 Prof. Jari Hyttinen – Tampere University of Technology, Tampere, Finland
 Prof. Daniele Ielmini – Politecnico di Milano, Milano, Italy
 Dr. Carlo Iernia – Radboud University, Nijmegen, Netherlands
 Dr. Massimo Mantegazza – Inst. of Molecular and Cellular Pharmacology/CNRS, and Univ. Côte d'Azur, Valbonne-Sophia Antipolis, France
 Dr. Cristina Marchetti – European Brain Research Institute (EBRI), Roma, Italy
 Prof. Stefano Meletti – University of Parma, Parma, Italy
 Prof. Farshad Moradi – Aarhus Universitet, Aarhus, Denmark
 Prof. Milena Nasi – UNIMORE, Modena, Italy
 Dr. Anna Palaïologk – Future Needs, Nicosia, Cyprus
 Dr. Gemma Palazzolo – Fondazione Istituto Italiano di Tecnologia, Genova, Italy
 Dr. Gabriella Panuccio – Fondazione Istituto Italiano di Tecnologia, Genova, Italy
 Prof. Giulia Puja, UNIMORE – Modena, Italy
 Prof. Anna Elisabetta Vaudano – UNIMORE, Modena, Italy
 Dr. Finlay Walton – University of Glasgow, Glasgow, UK
 Prof. Michele Zoli – UNIMORE, Modena, Italy

Memberships

AIRicerca	Regular member	since 2019
Italian Association for Laboratory Animal Science (AISAL)	Regular member	since 2018
Italian League Against Epilepsy (LICE)	Regular member	since 2015
American Epilepsy Society (AES)	Professional member	2022
Italian Society of Physiology (SIF)	Regular member	2012-2022
Canadian Association for Neuroscience	Student member	2008
Society for Neuroscience (SFN)	Regular member	2002-2009

Research Supervisory Activity**POST-DOCTORAL FELLOWS**

2025.11.01-TODAY: Dr. Beatrice Casadei Garofani
 2023.09.12- TODAY: Dr. Stefania Bartoletti
 2025.11.01-2026.05.31: Dr. Federica Raimondi
 2019.04.16-2024.11.15: Dr. Elisa Ren
 2019.05.16-2020.03.31: Dr. Fabiana Santana

RESEARCH ASSISTANTS

2023.05.16-2025.10.31: Dr. Arianna Capodiferro
 2022.09.01-2022.10.31: Dr. Federica Raimondi
 2021.11.16-2022.10.31: Dr. Beatrice Casadei Garofani
 2019.05.16-2019.10.30 Dr. Stefania Bartoletti

PhD STUDENTS

2025.11.01-TODAY: Arianna Capodiferro
 PhD School in Neuroscience, XLI cycle, UniMORE, Modena, Italy
 2022.11.01-2025.10.31 Federica Raimondi
 PhD School in Neuroscience, XXXVIII cycle, UniMORE, Modena, Italy
 2022.11.01-2025.10.31: Beatrice Casadei Garofani
 PhD School in Neuroscience, XXXVIII cycle, UniMORE, Modena, Italy
 2019.11.01-2023.09.11 Stefania Bartoletti
 PhD School in Neuroscience, XXXV cycle, UniMORE, Modena, Italy

VISITING STUDENTS/SCIENTISTS

11-16/01/2024 Yasser Rezaeiyan
 4-10/03/2024: Senior Chip Designer
 Aarhus University (Denmark)
 11-16/01/2024 Maryam Sadeghi
 4-10/03/2024: PhD student
 Aarhus university (Denmark)
 26-28/04/2023: Narayan Puthanmadam Subramaniyam
 Post-doc
 Tampere University of Technology - Finland
 3-14/10/2022: Maria Cerezo Sanchez
 PhD student in Electrical and Electronic Engineering
 University of Glasgow (UK)
 3-14/10/2022: Eve McGlynn
 PhD student in Electrical and Electronic Engineering
 University of Glasgow (UK)
 2/05, 17/05, 23-27/05, 30/05-1/06/2022: Alessandra Campanelli
 PhD student in Neuroscience, Psychological and Psychiatric Sciences, and
 Movement Sciences – XXXV cycle
 University of Verona (Italy)
 16/06-05/07/2014: Jennifer Lavigne
 PhD student at Ecole Doctorale 85 SVS
 Université Nice Sophia-Antipolis (Valbonne-Sophia Antipolis, France)

UNDERGRADUATE STUDENTS

2022.01.10-2023.04.14: Dr. Arianna Capodiferro
 Master Degree in Medical Biotechnologies (LM-6), UniMORE, Modena, Italy
 2021.01.11-2022.02.24: Dr. Federica Raimondi
 Master Degree in Neuroscience (LM-6), University of Pavia, Pavia, Italy
 2010.04.01-2014.04.09: Dr. Stefania Bartoletti
 Bachelor Degree in Medical Biotechnologies (L-2), UniMORE, Modena, Italy

ACADEMIC ACTIVITY

Academic Positions

ONGOING

SINCE 2025: Deputy Coordinator, PhD School of Neuroscience - UNIMORE
SINCE 2025: Deputy Scientific Director of the Animal Facility (CSSI), Modena, Italy
 SINCE 2024: BMN Department representative at CSSI; UNIMORE, Modena, Italy
 SINCE 2024: Member of Committee for Laboratory Safety for Dep BMN; UNIMORE, Modena, Italy
 SINCE 2024: Member of Committee for Teaching Quality M.S. in Nursing; UNIMORE, Modena, Italy
 SINCE 2024: Member of Committee for Teaching Quality M.S. in Health and Sport; UNIMORE
SINCE 2023: Member of the collegium of the PhD School in Neuroscience; UNIMORE
 SINCE 2022: Professor and member of M.S. in Health and Sport Collegium; UNIMORE
 SINCE 2022: Professor and member of B.S. in Health Care Assistant Collegium; UNIMORE
SINCE 2018: Member of the Commission for Erasmus programs, B.S. in Dietetics, UNIMORE
 SINCE 2016: Member of the Center for Neuroscience and Neurotechnology; UNIMORE
 SINCE 2015: Professor and member of B.S. in Nursing Collegium; UNIMORE
 SINCE 2014: Member of the Department of Biomedical, Metabolic and Neural Sciences, UNIMORE
 SINCE 2010: Professor and member of B.S. in Dietetics Collegium; UNIMORE

PAST

2018-2023: Quality manager of the Department of Biomedical, Metabolic and Neural Sciences UNIMORE, Modena, Italy.
2016-2018: Vice President of M.S. in Nursing UNIMORE, Modena, Italy.
 2016: Member of Committee for Laboratory Safety
 Department of Biomedical, Metabolic and Neural Sciences
 UNIMORE, Modena, Italy.
 2015-2023: Professor and member of B.S. in Physiotherapy Collegium
 UNIMORE, Modena, Italy.
 2015-2023: Professor and member of B.S. in Occupational Therapy Collegium
 UNIMORE, Modena, Italy.
 2015-2023: Professor and member of B.S. in Speech Therapy Collegium
 UNIMORE, Modena, Italy.
 2015-2023: Professor and member of B.S. in Psychiatric Rehabilitation Technique Collegium
 UNIMORE, Modena, Italy.
 2015-2021: Member of Committee for Teaching Quality M.S. in Nursing
 UNIMORE, Modena, Italy.
 2015-2018: Member of the “Giunta” of the Department of Biomedical, Metabolic and Neural Sciences; UNIMORE, Modena, Italy.
 2015-2018: Member of Committee for Department Research Quality
 Department of Biomedical, Metabolic and Neural Sciences; UNIMORE, Modena, Italy.
2015-2017: Member of the collegium of the PhD School in Clinical and Experimental Medicine UNIMORE, Modena, Italy.
 2014-2018: Member of Committee for Teaching Quality in Dietetics degrees
 UNIMORE, Modena, Italy.
 2010-2014: Professor and member of B.S. in Dentistry Collegium
 UNIMORE, Modena, Italy.
 2010-2014: Member of the Department of Biomedical Sciences
 UNIMORE, Modena, Italy.

Member of Committees

- SINCE 2016: Internal member of examining board for license to practice as trained nurse.
UNIMORE, Modena, Italy.
- SINCE 2016: Internal member in committee for Nursing degrees.
UNIMORE, Modena, Italy.
- SINCE 2011: Internal member of examining board for license to practice as dieticians.
UNIMORE, Modena, Italy.
- SINCE 2011: Internal member in committee for Dietetics degrees.
UNIMORE, Modena, Italy.
- 2014: Internal member in committee for Biotechnologies degrees.
UNIMORE, Modena, Italy.

Undergraduate Thesis Supervisory Activity

- 2023: Dr. Arianna Capodiferro
Mappatura e caratterizzazione elettroencefalografica delle crisi nel modello pilocarpina dell'epilessia del lobo temporale
Master Degree in Medical Biotechnologies (LM-6), UNIMORE, Modena, Italy
- 2022: Dr. Federica Raimondi
Neural stem cell grafting in a rat model of temporal lobe epilepsy: a step towards enhanced regenerative medicine
Master Degree in Neurobiology (LM-6), University of Pavia, Pavia, Italy
- 2016: Dr. Matteo Andreoli
Valutazione nutrizionale attraverso l'utilizzo della bioimpedenziometria in una coorte di pazienti affetti da SLA
Degree in Dietetics, UNIMORE, Modena, Italy
- 2016: Dr. Francesca Palmieri
La nutrizione nello spazio: lo space food come nuova frontiera dell'alimentazione
Degree in Dietetics, UNIMORE, Modena, Italy
- 2014: Dr. Stefania Bartoletti
Effetti protettivi del pre-condizionamento in un modello di epilessia mesiotemporale.
Bachelor Degree in Medical Biotechnologies (L-2), UNIMORE, Modena, Italy

Coordinator Activity

- SINCE 2022: Coordinator of the integrated course of Fundamentals of Anatomy and Physiology
B.S. in Health Care Assistant
Faculty of Medicine
UNIMORE, Modena, Italy.
- SINCE 2016: Coordinator of the integrated course of Morphological and Functional Bases of Life
Course of Nursing
Faculty of Medicine
UNIMORE, Modena, Italy.

- SINCE 2012: Coordinator of the integrated course of Physiopathology
Course of Dietetics
Faculty of Medicine
UNIMORE, Modena, Italy.
- 2017-2022: Coordinator of the integrated course of Physiology
B.S. in Physiotherapy
Faculty of Medicine
UNIMORE, Modena, Italy.
- 2017-2022: Coordinator of the integrated course of Physiology
B.S. in Speech Therapy
Faculty of Medicine
UNIMORE, Modena, Italy.
- 2017-2022: Coordinator of the integrated course of Physiology
B.S. in Psychiatric Rehabilitation
Faculty of Medicine
UNIMORE, Modena, Italy.
- 2017-2022: Coordinator of the integrated course of Physiology
B.S. in Occupational Therapy
Faculty of Medicine
UNIMORE, Modena, Italy.
- 2010-2012: Coordinator of the integrated course of Biochemistry and Physiology of Nutrition
Course of Dietetics
Faculty of Medicine
UNIMORE, Modena, Italy.

Teaching Activity

- SINCE AA 2024/25: Course of Training biomedical monitoring: environmental and population physiology (BIO/09)
M.S. in Health and Sport
Faculty of Medicine - UNIMORE, Modena, Italy.
- SINCE AA 2023/24: Course of physiology of the digestive apparatus (BIO/09)
Medical Specialization School in Food Science
Faculty of Medicine - UNIMORE, Modena, Italy.
- SINCE AA 2022/23: Course of Training biomedical monitoring: sport physiology (BIO/09)
M.S. in Health and Sport
Faculty of Medicine - UNIMORE, Modena, Italy.
- SINCE AA 2022/23: Course of General Physiology (BIO/09)
B.S. in Health Care Assistant
Faculty of Medicine - UNIMORE, Modena, Italy.
- SINCE AA 2015/16: Course of Physiology (BIO/09)
B.S. in Nursing
Faculty of Medicine - UNIMORE, Modena, Italy.
- SINCE AA 2012/13: Course of Sport Medicine (MED/09)
B.S. in Dietetics
Faculty of Medicine - UNIMORE, Modena, Italy.

SINCE AA 2010/11:	Course of Physiology of Nutrition (BIO/09) B.S. in Dietetics Faculty of Medicine - UNIMORE, Modena, Italy.
AA 2015/16 AA 2022/23:	Course of General Physiology (BIO/09) B.S. in Physiotherapy Faculty of Medicine - UNIMORE, Modena, Italy.
AA 2015/16 AA 2022/23:	Course of General Physiology (BIO/09) B.S. in Occupational Therapy Faculty of Medicine - UNIMORE, Modena, Italy.
AA 2015/16 AA 2022/23:	Course of General Physiology (BIO/09) B.S. in Speech Therapy Faculty of Medicine - UNIMORE, Modena, Italy.
AA 2015/16 AA 2022/23:	Course of General Physiology (BIO/09) B.S. in Psychiatric Rehabilitation Technique Faculty of Medicine - UNIMORE, Modena, Italy.
AA 2012/13:	Course of Physiology (BIO/09) B.S. in Dental Care Faculty of Medicine - UNIMORE, Modena, Italy.
AA 2010/11- AA 2013/14:	Course of Physiology (BIO/09) M.S. in Dentistry Faculty of Medicine - UNIMORE, Modena, Italy.

Teaching Assistant Activity

2001-2005:	Course of Laboratory of Experimental Biology II (section physiology). Course of Biological Sciences. University of Milano-Bicocca, Milano, Italy. Project FSE (European Social Found).
2001-2002:	Course of Experimental Laboratory (section physiology). Course of Environmental Sciences. University of Milano-Bicocca, Milano, Italy.
2000-2001:	Practice demonstration of electrophysiology techniques Course of Bioengineer. Politecnico di Milano, Milano, Italy.

Academic seminars

2021.04.15:	“Thermoregulation in the mountains, and main heat and cold diseases” MoreMED 2021 UNIMORE, Modena, Italy
2018.05.22:	“Preclinical study methodologies: carisbamate effect on posttraumatic epilepsy” Course of Chemistry and Pharmaceutical Technologies UNIMORE, Modena, Italy

- 2018.05.09-11: “Physiology of sport and exercise”
Course of Biological Sciences
UNIMORE, Modena, Italy
- 2016.04.21: “The 3R-principle applied to an acquired model of epilepsy”
Course of Chemistry and Pharmaceutical Technologies
UNIMORE, Modena, Italy
- 2015.04.22: “The 3R-principle applied to an acquired model of epilepsy”
Interdepartmental Animal Facility Service Center
UNIMORE, Modena, Italy
- 2014.09: Seminars of Neurophysiology:
“Posttraumatic epilepsy”
Ph.D. School of Clinical and Experimental Medicine
Faculty of Medicine
UNIMORE, Modena, Italy.
- 2012.09: Seminars of Neurophysiology:
“Posttraumatic epilepsy”
“Channelopathies”
Ph.D. School of Clinical and Experimental Medicine
Ph.D. School of Neuroscience
Faculty of Medicine
UNIMORE, Modena, Italy.
- 2011.04: Seminars of Physiology of the endocrine system:
“Hormones of gastrointestinal tract”
“Endocrine control of energy metabolism”
School of Specialty in Clinical Biochemistry
Faculty of Medicine
UNIMORE, Modena, Italy.
- 2010.09: Seminars of Neurophysiology:
“Rat-to-rat variability in Posttraumatic Epilepsy”
“Altered excitability in Fragile X Syndrome”
Ph.D. School of Clinical and Experimental Medicine
Ph.D. School of Neuroscience
Faculty of Medicine
UNIMORE, Modena, Italy.

Book Editor/Translator for the Italian version

- 2024: Fisiologia gastrointestinale. Piccin, Padova (Italy).
Italian version of LR Johnson, Gastrointestinal Physiology, 9th edition
- 2019: Fisiologia umana – Elementi. Edi Ermes, Milano (Italy)

THIRD MISSION ACTIVITY

Third Party Activity

2022-2023: External consultant
 Passage Bio, Philadelphia (PA, USA)
 Title: Advices on potential biological targets for gene therapy in epileptic conditions

Public Engagement and Outreach Activity

27.05.2026: Lessons on "High altitude physiology" and of "nutrition in mountain" for trainees of the "Alpinism course 2026", organized by Italian Alpine Club (CAI) in Modena (MO, Italy).

05.06.2025: Lessons on "High altitude physiology" and of "nutrition in mountain" for trainees of the "Alpinism course 2025", organized by Italian Alpine Club (CAI) in Modena (MO, Italy).

30.05.2024: Lessons on "High altitude physiology" and of "nutrition in mountain" for trainees of the "Alpinism course 2024", organized by Italian Alpine Club (CAI) in Modena (MO, Italy).

15.06.2023: Lessons on "High altitude physiology" and of "nutrition in mountain" for trainees of the "Alpinism course 2023", organized by Italian Alpine Club (CAI) in Modena (MO, Italy).

03.05.2023: Lessons on "High altitude physiology" and of "nutrition in mountain" for trainees of the "Alpinism course 2023", organized by Italian Alpine Club (CAI) in Pavullo nel Frignano (MO, Italy).

04.10.2022: Lesson on mountain nutrition for trainees of the Course of "Vie Ferrate e sentieri attrezzati" organized by the Italian Alpine Club (CAI) in Pavullo nel Frignano.

30.06.2022: Lessons on "High altitude physiology" and of "nutrition in mountain" for trainees of the "Alpinism course 2022", organized by Italian Alpine Club (CAI) in Modena (MO, Italy).

14.05.2022: Lessons on "High altitude physiology" and of "nutrition in mountain" for trainees of the "Alpinism course 2022", organized by Italian Alpine Club (CAI) in Pavullo nel Frignano (MO, Italy).

03.02.2022: Lesson on mountain nutrition, physical training, and low temperature body regulation for trainees of the "24th Winter Hiking Course", organized by the Alpine Italian Club (CAI) in Modena.

28.09.2021: Lesson on mountain nutrition for trainees of the Course of "Vie Ferrate e sentieri attrezzati" organized by the Italian Alpine Club (CAI) in Pavullo nel Frignano.

18.05.2021: Lessons on high altitude physiology for trainees of the "Alpinism course 2021", organized by Italian Alpine Club (CAI) in Pavullo nel Frignano (MO, Italy).

25.03.2021: Lesson on mountain nutrition for trainees of the "23rd Winter Hiking Course", organized by the Alpine Italian Club (CAI) in Modena.

25.02.2021: Lesson on low temperature body regulation for trainees of the "23rd Winter Hiking Course", organized by the Alpine Italian Club (CAI) in Modena.

20.02.2020: Lesson on mountain nutrition and low temperature body regulation for trainees of the "Advanced Skiing-Hiking Course 2020", organized by the Alpine Italian Club (CAI) in Modena.

24.09.2019: Lesson on mountain nutrition for trainees of the Course of "Vie Ferrate e sentieri attrezzati" organized by the Italian Alpine Club (CAI) in Pavullo nel Frignano.

23.05.2019: Lessons on high altitude physiology and regulation of body temperature for trainees of the "Alpinism course 2019", organized by Italian Alpine Club (CAI) in Modena.

14.05.2019: Lessons on high altitude physiology and regulation of body temperature for trainees of the "Alpinism course 2019", organized by Italian Alpine Club (CAI) in Pavullo nel Frignano (MO, Italy).

15.03.2019: Cellule staminali, elettronica e intelligenza artificiale: i tre moschettieri per la cura del cervello malato. Speaker at UniStem Day 2019, Verona, organized by University of Verona.

07.03.2019: Lesson on mountain nutrition and low temperature body regulation for trainees of the "21st Winter Hiking Course", and "Advanced Skiing-Hiking Course 2019", organized by the Alpine Italian Club (CAI) in Modena.

- 04.10.2018: Lesson on mountain nutrition for trainees of the "14th course of Via Ferrata" organized by the Italian Alpine Club (CAI) in Modena.
- 02.10.2018: Lesson on mountain nutrition for trainees of the "1st course of Via Ferrata" organized by the Italian Alpine Club (CAI) in Pavullo nel Frignano.
- 06.06.2018: Seminar "Science goes to mountain: adaptations of the organism to high altitude". Cycle "Coffee Science: unusual bar chatter", organized by Pleiadi and UNIMORE.
- 17.05.2018: Lessons on high altitude physiology and regulation of body temperature for trainees of the "Alpinism course 2018", organized by Italian Alpine Club (CAI) in Modena.
- 22.02.2018: Lesson on mountain nutrition and low temperature body regulation for trainees of the "20th Winter Hiking Course", organized by the Alpine Italian Club (CAI) in Modena.
- 3-5.10.2017: Lesson on mountain nutrition for trainees of the "13rd course of Via Ferrata" organized by the Italian Alpine Club (CAI) in Modena.
- 24.05.2017: Lesson on mountain nutrition for trainees of the "32nd Advanced Hiking Course" organized by the Italian Alpine Club (CAI) in Modena.
- 18.05.2017: Lesson on mountain nutrition and high altitude physiology for trainees of the "Alpinism course 2017", organized by Italian Alpine Club (CAI) in Modena.
- 09.02.2017: Lesson on mountain nutrition and low temperature body regulation for trainees of the "19th Winter Hiking Course", "Advanced Skiing-Hiking Course 2017" and "Cross-country skiing Course 2017", organized by the Alpine Italian Club (CAI) in Modena.
- 27-29.09.2016: Lesson on mountain nutrition for trainees of the "12th course of Via Ferrata" organized by the Italian Alpine Club (CAI) in Modena.
- 01.06.2016: Lesson on mountain nutrition for trainees of the "31st Advanced Hiking Course" organized by the Italian Alpine Club (CAI) in Modena.
- 12.05.2016: Lesson on mountain nutrition, low temperature body regulation, and high altitude physiology, for trainees of the "Alpinism course 2016", organized by Italian Alpine Club (CAI) in Modena.
- 10.03.2016: Lesson on mountain nutrition, low temperature body regulation, and high altitude physiology, for trainees of the "Ski mountaineering Course 2016", organized by Italian Alpine Club (CAI) in Modena.
- 04.02.2016: Lesson on mountain nutrition and body temperature regulation for trainees of the "18th Winter Hiking Course", organized by the Alpine Italian Club (CAI) Of Modena.
- 30.09.2015: Lesson on mountain nutrition for trainees of the "11th course of Via Ferrata" organized by the Italian Alpine Club (CAI) in Modena.
- 04.06.2015: Lesson on mountain nutrition and body temperature regulation for trainees of the "Alpinism course 2015", organized by Italian Alpine Club (CAI) in Modena.
- 05.03.2015: Lesson on Physiology of body temperature regulation for trainees of the "17th Winter Hiking Course", organized by the Alpine Italian Club (CAI) Of Modena.
- 15.10.2014: Lesson on mountain nutrition for trainees of the "10th course of Via Ferrata" organized by the Italian Alpine Club (CAI) in Modena.
- 13.03.2014: Lesson on low temperature body regulation for trainees of the "Ski mountaineering Course 2016", organized by Italian Alpine Club (CAI) in Modena.
- 18.02.2014: "I martedì del CAI": lesson on Physiology of body temperature regulation and pathologies from heat and cold, for members of the Italian Alpine Club (CAI) in Modena.
- 05.02.2014: Lesson on mountain nutrition and Physiology of body temperature regulation and pathologies from cold for trainees for trainees of the "16th Winter Hiking Course", organized by the Alpine Italian Club (CAI) Of Modena.
- 13.02.2013: Lesson on mountain nutrition and Physiology of body temperature regulation and pathologies from cold for trainees of the "15th Winter Hiking Course", organized by the Alpine Italian Club (CAI) Of Modena.
- 10.01.2013: Lesson on Physiology of body temperature regulation and pathologies from heat and cold for instructors and excursion directors of the Italian Alpine Club (CAI) in Modena.

DISSEMINATION - PUBLIC APPEARANCE

Oral Presentations and invited seminars

- 08/06/2026 The physiology of cross-talk among body composition compartments and the impact of exercise. 1st International Summer School in Principles of body composition, metabolism and exercise. Modena (Italy).
- 10/04/2026 Late-onset epilepsy of unknown origin: emerging insights and links to neurodegeneration. Workshop and Round table; Ospedale Civile Baggiovara, Modena (Italy).
- 14/03/2025 Video-intracranial EEG study on the onset and propagation of seizures in the pilocarpine model of temporal lobe epilepsy. Seminars in Clinical and Experimental Epileptology; Session I, 2025 National Neurological Institute Besta, Milan (remote).
- 25/02/2025 Performing biomedical research abroad: opportunities and caveats - Benefits and risks of performing biomedical research abroad. PhD program in Clinical and Experimental Medicine, in Neuroscience, and in Molecular and Regenerative Medicine; UNIMORE. Modena, Italy
- 22/11/2021: In vivo epilepsy model and grafting: a step towards enhanced regenerative medicine. Symposium in memory of Prof. Jacopo Magistretti. Pavia, Italy
- 29/11/2016: Define successful Proposals in Horizon 2020: the contribution of evaluator and field expert. Panel Societal Challenges: focus area Health. Infoday organized by UNIMORE Research and Technological transfer Office. Modena, Italy
- 17/12/2008: “Fragile X Syndrome: neurons out of control?”
UNIMORE, Modena, Italy.
- 16/11/2008: “Downregulation of tonic GABA_A receptor-mediated inhibition in a mouse model of Fragile X syndrome”.
38th Annual Meeting of the Society for Neuroscience, 15-19 November, Washington, DC, USA
- 24/05/2007: “Altered GABAergic system in a mouse model of Fragile X syndrome”.
4th Conference on Epileptogenesis, 23-26 May, S. Croce in Fossabanda, Pisa, Italy
- 13/05/2007: “ β/γ oscillatory activity in the CA3 hippocampal area is depressed by aberrant GABAergic transmission from the dentate gyrus after seizures” by Trevino M. et al., J. Neurosci 27(1):251-259.
Giornate di Studio sull'Eccitabilità Neuronale – IV, 11-13 May, Corbara, Terni, Italy

Press Releases

- 02.02.2026: Press Release from major Modena and Reggio Emilia's newspapers (Il Resto del Carlino – Modena; Il Resto del Carlino – Reggio Emilia; SestoPotere; Modena 2000; Libero 24x7; La Pressa, Reggio 2000; Modena Today; Sassuolo 2000), and from UNIMORE Magazine, related to research projects funded by European Union and involving laboratories from UNIMORE [cf. *Grants and Funds*: project funded CLUSTREL – GA 101287957, call HE-EIC-2025-TRANSITIONOPEN].
- 05.03.2024 Photo story from professional photographer Emile Holba on the research project funded by European Union and involving laboratories from UNIMORE [cf. *Grants and Funds*: project funded HERMES – GA 824164, call H2020-FETPROACT-01-2018 (RIA)].

- <https://emileholba.co.uk/hermes>
- 24.01.2024: Dissemination article from *The Transmitter* magazine (USA) related to research project funded by European Union and involving laboratories from UNIMORE [cf. *Grants and Funds*: project funded HERMES – GA 824164, call H2020-FETPROACT-01-2018 (RIA)].
<https://www.thetransmitter.org/neuroengineering/on-a-bold-mission-to-re-engineer-brain-parts/>
- 27.06.2022: Press Release from university magazine Focus Unimore related to the research projects funded within the call FAR 2021 [cf. *Grants and Funds*: project funded FAR 2021 Mission Oriented].
<https://www.focus.unimore.it/wp-content/focus-giugno-2022/>
- 07-08.2020: Press Release from university magazine Symbols Unimore related to research project funded by European Union and involving my lab from UNIMORE [cf. *Grants and Funds*: project funded HERMES – GA 824164, call H2020-FETPROACT-01-2018 (RIA)].
<https://www.unimore.it/editoria/sfoglia/SymbUni05/index.html>
- 14.07.2020: Press Release from university magazine Focus Unimore related to research projects, funded by European Union, related to nanotechnology and neuroscience involving laboratories from UNIMORE [cf. *Grants and Funds*: project funded HERMES – GA 824164, call H2020-FETPROACT-01-2018 (RIA)].
<http://www.focus.unimore.it/luglio-agosto-2020/>
- 16-25.04.2019: Press Release from National newspapers and online news (La Stampa, Geos News, Epilessia Forum), major Modena and Reggio Emilia's newspapers (Il Resto del Carlino – Modena; Il Resto del Carlino – Reggio Emilia; SestoPotere; Modena 2000; Libero 24x7; La Pressa, Reggio 2000; Modena Today; Sassuolo 2000), Modena local news (TRC Modena), and from UNIMORE Magazine, related to research projects funded by European Union and involving laboratories from UNIMORE [cf. *Grants and Funds*: project funded HERMES – GA 824164, call H2020-FETPROACT-01-2018 (RIA)].
- 04-05.04.2019: Press Release from major National newspapers and online news (Il Foglio, Master Lex, Il Dubbio, Libero Quotidiano, Meteo Web, Intrade), Milano's newspapers (Milano Politica), Veneto's newspaper (La Cronaca di Verona e del Veneto, Corriere di Verona-Corriere della Sera; Padova News, Corriere del Veneto-Verona, Verona Sera, Corriere Viterbo, Verona Network), Sardegna's newspaper (Olbia Notizie, Sardegna Oggi) related to research projects funded by European Union and involving laboratories from UNIMORE [cf. *Grants and Funds*: project funded HERMES – GA 824164, call H2020-FETPROACT-01-2018 (RIA)].
- 16-18.03.2019: Local Press Release from Verona local tv news (TGVerona), and from the University of Verona Magazine (UNIVR Magazine), related to participation to the UniStem Day 2019 event organized by the University of Verona and held in Verona on the March 15th to talk to students of the secondary schools about researches involving use of stem cells [cf. *Public Engagement Activity*: Cellule staminali, elettronica e intelligenza artificiale: i tre moschettieri per la cura del cervello malato. Speaker at UniStem Day 2019, 03.15.2019 Verona].
- 11-14.03.2019: Local Press Release from major Verona's newspaper (VeronaNews) and from the University of Verona Magazine (UNIVR Magazine), related to the UniStem Day 2019 event organized by the University of Verona which will be held in Verona on the March 15th to talk to students of the secondary schools about researches involving use of stem cells [cf. *Public Engagement Activity*: Cellule staminali, elettronica e intelligenza artificiale: i tre moschettieri per la cura del cervello malato. Speaker at UniStem Day 2019, 03.15.2019 Verona].
- 24.10.2018: Local Press Release from major Modena's newspaper (Il Resto del Carlino – Modena; SestoPotere; Modena 2000; Libero 24x7) and from UNIMORE Magazine, related to research projects funded by European Union and involving laboratories from UNIMORE [cf. *Grants and Funds*: project funded HERMES – GA 824164, call H2020-FETPROACT-01-2018 (RIA)].
- 08.02.2017: Local Press Release from major Modena's newspapers (Gazzetta di Modena; Mo24; Modena Today; Modena 2000; Reggio 2000) and from UNIMORE Magazine, related to publication of interesting scientific data on prestigious international journal "Neuron" [cf.

Published Peer-Reviewed Papers: paper by Lippi G, ..., Curia G, et al. (2016) *Neuron* 92(6):1337-1351].

12.12.2014:

Local Press Release from major Modena's newspapers (Gazzetta di Modena; Il Resto del Carlino – Modena; Modena Today) and from UNIMORE Magazine, related to the direct call as Associate professor for winners of the prestigious program "Rientro dei Cervelli" [cf. *Recognitions:* In 2014, Associate Professor of Physiology by direct call from MIUR and as reserved treatment for winners of the "Rientro dei Cervelli" program].
<https://gazzettadimodena.gelocal.it/modena/cronaca/2014/12/13/news/intanto-l-ateneo-arruola-cervelli-in-fuga-1.10488918>

DISSEMINATION - PUBLICATIONS

Author of 43 articles published on international scientific journals, peer-reviewed and ranked in the major international databases. Author of 1 book chapter peer-reviewed and ranked in the major international databases. Author of 14 abstracts published on international scientific journals ranked in the major international databases. Author of 49 abstracts reporting data presented as poster or oral communication to national and international meetings.

Bibliometric indicators

Products: 60 (Web of Science); 46 (Scopus).

h-index: 24 (Web of Science); 25 (Scopus).

Total citations: 2871 (Web of Science); 3060 (Scopus).

Research Quality Assessment

VQR 2020–2024: 1 product rated as Class B, Excellent (score: 27.5/30)

VQR 2015–2019: 1 product rated as Class A, Excellent and extremely relevant (score: 30/30)

VQR 2011–2014: 1 product rated as Excellent (score: 1.00/1.00), 1 product rated as High (score: 0.70/1.00)

Published Peer-Reviewed Papers

44. Medici G, Tassinari M, Loi M, Bove AM, Casadei Garofani B, Volpedo G, Mottolese N, Matteoli G, Lo Martire V, Berteotti C, Candini G, Trebbi F, Riva A, Striano P, Zoccoli G, **Curia G**, Trazzi S, Ciani E. (2025) Safety and efficacy of Igk-TATk-CDKL5 gene therapy in mosaic CDKL5 deficiency. *Neurotherapeutics*. 22:e00727. DOI: [10.1016/j.neurot.2025.e00727](https://doi.org/10.1016/j.neurot.2025.e00727) [IF₂₀₂₄ 6.9]
43. Bartoletti S, Raimondi F, Casadei Garofani B, Ren E, Ciarpella F, Capodiferro A, Palazzolo G, Vilella A, Leo G, Zoli M, Decimo I, **Curia G**[@]. (2025) Two minimally invasive strategies to implant guide cannulas for multiple injections in deep brain areas. *Methods*. 238:27-39. DOI: [10.1016/j.ymeth.2025.03.005](https://doi.org/10.1016/j.ymeth.2025.03.005) [IF₂₀₂₄ 4.3]
42. Selleri V, Malerba M, D'Alisera R, Seidenari C, Sinigaglia G, Zanini G, Micheloni G, Savino G, Mattioli AV, **Curia G**, Critelli R, Nasi M, Pinti M. (2025) Increase of circulating cell free mitochondrial DNA in amateur boxers after sparring matches. In press in *Journal of Science and Medicine in Sport*. DOI: [10.1016/j.jsams.2025.01.011](https://doi.org/10.1016/j.jsams.2025.01.011) [IF₂₀₂₄ 3.4]
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39. Cerezo-Sanchez M, McGlynn E, Bartoletti S, Yalagala BP, Casadei Garofani B, Capodiferro A, Russell E, Palazzolo G, Walton F, **Curia G**, Heidari H. (2023) Bioresorbable Insertion Aids for Brain Implantable Flexible Probes: A Comparative Study on Silk Fibroin, Alginate and Disaccharides. *Advanced NanoBiomed Research*. 3:2200117. DOI: [10.1002/anbr.202200117](https://doi.org/10.1002/anbr.202200117) [IF₂₀₂₂ 3.4]

38. **Curia G**[®]. (2023) Hebbian and homeostatic synaptic plasticity of AMPA receptors in epileptogenesis. *Cell Rep. Medicine*. 4:101047. DOI: [10.1016/j.xcrm.2023.101047](https://doi.org/10.1016/j.xcrm.2023.101047). *Invited commentary paper. [IF₂₀₂₂ 14.3]
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Published Peer-Reviewed Book Chapters

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Published Abstracts

14. **Curia G**[®], Casadei Garofani B, Capodiferro A, Bartoletti S, Raimondi F, Ren E, Gandolfi D. A high-density EEG study on seizure onset and seizure propagation in the pilocarpine model of temporal lobe epilepsy. 15th European Epilepsy Congress. Rome, Italy, September 7-11, 2024. *Epilepsia* 2025, 65(s1):1-508, abstract n. 329.
13. **Curia G**[®], Bartoletti S, Ren E, Casadei Garofani B, Raimondi F, Capodiferro A, Cerezo-Sanchez M, McGlynn E, Puja G, Heidari H. Biocompatible probes for neurostimulation: material choice and implantation technique for preclinical application. 35th International Epilepsy Congress. Dublin, Ireland, September 2-6, 2023. *Epilepsia*, 64:70-71.
12. Bartoletti S, Ren E, Raimondi F, McGlynn E, Cerezo-Sanchez M, Casadei Garofani B, Capodiferro A, Heidari H, **Curia G**[®]. Insertion, biocompatibility and functionality of flexible neural implantable probes in vivo. Workshop on Brain-Inspired Computing 2023. Modena, Italy, June 8-9, 2023. *Frontiers Abstract Book*. ISBN: 9782832512340. DOI: 10.3389/978-2-8325-1234-0.
11. Palazzolo G, Della Rosa G, Gostynska N, Bartoletti S, Ren E, Leo G, Decimo I, Tirelli N, **Curia G**. Magnesium-tailored alginate as a novel biopolymer for brain repair. Tissue Engineering and Regenerative Medicine International Society (TERMIS) 6th World Congress. Maastricht, The Netherlands, November 15-19, 2021. *Tissue engineering part A*. 28(S1):S614-S615, meeting abstract 2164.
10. **Curia G**[®], Lucchi C, Torsello A, Biagini G. (2014) Electrographic and behavioral characterization of EP-80317 anticonvulsant effects in pilocarpine-treated rats. 11th European Congress on

- Epileptology, Stockholm, Sweden, June 29th – July 3rd, 2014. *Epilepsia* 55(S2):192-193, poster number 591.
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 8. **Curia G**, Fender JS, D'Ambrosio R. (2009) Frontal neocortex is more epileptogenic than parietal and parietal-occipital neocortices after fluid percussion injury in the rat. American Epilepsy Society, 63rd Annual Meeting, Boston, Massachusetts (USA), December 4-8, 2009. *Epilepsia* 50(s11):370, abstract number 3.101.
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Modena, 30th June 2026

I hereby declare that the information contained in this Curriculum Vitae is true and accurate to the best of my knowledge and belief. I acknowledge that, pursuant to Article 76 of Italian Presidential Decree No. 445 of 28 December 2000, any false statements or use of false documents may give rise to criminal liability. This declaration is made in accordance with Articles 46 and 47 of Italian Presidential Decree No. 445/2000.

Modena, 30th June 2026

I declare that I have read the privacy notice issued pursuant to Article 13 of Regulation (EU) 2016/679 (General Data Protection Regulation – GDPR) and Italian Legislative Decree No. 196 of 30 June 2003, as amended by Legislative Decree No. 101 of 10 August 2018.

Modena, 30th June 2026