

CURRICULUM VITAE



PERSONAL INFORMATIONS

Name **GERACE ELISABETTA**

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Nationality **Italian**

Place and date of birth **SIDERNO (RC), ITALY 20/12/1979**

Education

2008-2010 Ph.D. in Neuroscience, University of Florence, Italy.

1998-2006 University: School of Pharmacy, **B.Sc.** in Chemistry and Pharmaceutical Technology University of Florence, Italy.

1993-1998 High School: "Liceo Classico", Locri (RC), Italy.

Qualifications

2006 Qualification to the profession of Pharmacist

2018 National Scientific Qualification
NATIONAL SCIENTIFIC QUALIFICATION AS ASSOCIATE PROFESSOR,
SECTOR 05/G1-PHARMACOLOGY, CLINICAL PHARMACOLOGY AND
PHARMACOGNOSY, SCIENTIFIC DISCIPLINARY SECTOR BIO 14- (VALID
FROM 6/11/2018 TO 6/11 / 2027).

Professional Experience

Dec 2022-today Type-A fixed-term researcher at the Department of Health Sciences, University of Florence, Italy.

Research Experience

2016-Dec 2022 Postdoctoral fellow, Department of Neurosciences, Psychology, Drug Research and Child Health, Section of Pharmacology and Toxicology, University of Florence, Italy.

2013-2016 Postdoctoral fellow, Department of Health Science, University of Florence, Italy.

2011-2013 Postdoctoral fellow, Department of Pharmacology, University of Florence, Italy.

December 2022-today

Type-A fixed-term researcher-PNRR at the Department of Health Sciences, University of Florence, Italy with a research project conducting at the Department of Physics and Astronomy and European Laboratory for Non-linear Spectroscopy (LENS), University of Florence, Sesto Fiorentino, Italy under the mentorship of prof. Francesco Pavone.

September 2022-December 2022

Co.co.pro in the laboratory of prof. Guido Mannaioni (Department of Neurosciences, Psychology, Drug Research and Child Health, Section of Pharmacology and Toxicology) Title of the project: "Pharmaceutical strategies for preventing neurotoxicity and promoting antioxidant and antiinflammatory actions of bilirubin".

January 2022-July 2022

Co.co.pro in the laboratory of prof. Guido Mannaioni (Department of Neurosciences, Psychology, Drug Research and Child Health, Section of Pharmacology and Toxicology) Title of the project: "Laser therapy for Brain hypoxia-ischemia".

2017-2021

Postdoctoral fellow in the laboratory of prof. Guido Mannaioni under the supervision of prof. Carlo Dani (Department of Neurosciences, Psychology, Drug Research and Child Health, Section of Pharmacology and Toxicology)

- Studies on molecular mechanisms of ethanol toxicity in rat organotypic hippocampal slice cultures.
- Studies on molecular mechanisms of neurotoxicity of unconjugated bilirubin (UCB) in neurodevelopmental disorders in rat organotypic hippocampal slice cultures.
- Studies on the neuroprotective properties of NIR laser therapy in *in vitro* models of cerebral ischemia.

2016-2017

Postdoctoral fellow in the laboratory of prof. Guido Mannaioni under the supervision of prof. Carlo Dani (Department of Neurosciences, Psychology, Drug Research and Child Health, Section of Pharmacology and Toxicology)

- Studies on molecular mechanisms of neurotoxicity of unconjugated bilirubin (UCB) in the genesis of kernicterus in rat organotypic hippocampal slice cultures.

2013-2016

Postdoctoral fellow in the laboratory of prof. Domenico Pellegrini-Giampietro (Department of Health Sciences, University of Florence)

- Studies on molecular mechanisms of ethanol dependence and withdrawal in rat organotypic hippocampal slice cultures.
- Studies on the pathogenetic mechanisms of neurological disorders associated with celiac disease in an *in vitro* model of epilepsy.
- Studies on mechanisms of neuroplasticity and brain adaptation in *in vitro* models of neurodegeneration.
- Studies on the neuroprotective effects of caspase and PARP inhibitors *in vitro* and *in vivo* models of neonatal hypoxic ischemic encephalopathy
- Studies on reconsolidation of food instrumental memory in rats

2011-2013

Postdoctoral fellow in the laboratory of prof. Domenico Pellegrini-Giampietro (Department of Pharmacology, University of Florence).

- Studies on the interactions between mGlu and cannabinoid receptors in *in vitro* and *in vivo* models of cerebral ischemia.
- Studies on the neuroprotective properties of NGF mimetics in *in vitro* and *in vivo* models of cerebral ischemia.
- Studies on the effects of antidepressant drugs on AMPA receptors in rat hippocampus *in vivo*.

2008-2010

PhD student in Neuroscience in the laboratory of prof. Flavio Moroni under the supervision of prof. Domenico Pellegrini-Giampietro (Department of Pharmacology, University of Florence).

- Studies on the role of glutamate receptors and poly (ADP-ribose) polymerase in models of ischemic preconditioning and cerebral ischemia.
- Studies on glutamatergic pathways and histone proteins in *in vitro* models of preconditioning.

2005-2007

Graduate student in Chemistry and Pharmaceutical Technology in the laboratory of prof. Flavio Moroni under the supervision of prof. Domenico Pellegrini-Giampietro (Department of Pharmacology, University of Florence).

- Development of a new pharmacological model of preconditioning in organotypic hippocampal slices *in vitro* and studies on the role of glutamate receptors and poly (ADP-ribose) polymerase in models of ischemic preconditioning and cerebral ischemia.

Partecipation to Founded grants

- Fondazione Cassa di Risparmio di Firenze (n° 2019). Principal investigator: Prof. Guido Mannaioni. Title of the project: L'asse intestino/cervello: l'impatto della Stimolazione Magnetica Transcranica Ripetitiva (rTMS) e del microbiota intestinale nel

trattamento della dipendenza da cocaina

- Fondazione Cassa di Risparmio di Firenze (n° 2019). Principal investigator: Prof. Carlo Dani. Title of the project: "Indirect bilirubin (UCB) as an important risk factor in the pathogenesis of neonatal kernicterus: study on the mechanisms of neurotoxicity".
- Fondazione Ente Cassa di Risparmio di Firenze (n° 2017). Principal investigator: Prof. Guido Mannaioni. Title of the project: "From gut to brain: studies on the molecular mechanisms that lead from celiac disease to epilepsy, in search of new therapeutic diets-continuation".
- Ente Cassa di Risparmio di Firenze (n° 2016/13486). Principal investigator: Prof. Guido Mannaioni. Title of the project: "From gut to brain: studies on the molecular mechanisms that lead from celiac disease to epilepsy, in search of new therapeutic diets".
- Ente Cassa di Risparmio di Firenze (n° 2014/9046). Principal investigator: Prof. Guido Mannaioni. Title of the project: "Studies on molecular mechanisms of neurodegeneration in organotypic hippocampal slice models of ethanol dependence and withdrawal".
- Compagnia di San Paolo 2009. Principal investigator: Prof. Pellegrini-Giampietro. Title of the project: "Metabotropic glutamate receptors and endocannabinoids: functional interactions and physiopathological role in cerebral ischemia".
- PRIN-2008 Protocol n. 2008LCKEXC_002. Principal investigator: Prof. Pellegrini-Giampietro. Title of the project: "Interactions between mGlu and cannabinoid receptors in *in vitro* and *in vivo* models of cerebral ischemia".
- PRIN-2008 Protocol n. 20089BARSR_001. Principal investigator: Prof. Flavio Moroni. Title of the project: "Role of poli(ADP-ribose) polimerase in post-ischemic injury: studies on gene transcriptions involved in neurovascular and cell death".

Research project funded by private institutions:

- **2009** Research project entrusted and funded by Aziende Chimiche Riunite Angelini Francesco (A.C.R.A.F.) S.p.A., Title of the project: "Effects of acute and chronic treatment with trazodone on hippocampal [alpha]-amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid (AMPA) receptor trafficking in rats."

Principal investigator: Prof. Corradetti Renato

- **2011** Research project entrusted and funded by Aziende Chimiche Riunite Angelini Francesco (A.C.R.A.F.) S.p.A., Title of the project: "Investigation of cellular mechanisms activated by trazodone in the hippocampus and prefrontal cortex. Focus on AKT/PKB and Ser09GSK3B phosphorylation."

Principal investigator: Prof. Corradetti Renato

- **2013-2014** Research project entrusted and funded by Chiesi Farmaceutici S.p.A. Title of the project: "Studies on neuroprotective effects of caspase and PARP inhibitors in *in*

vitro and *in vivo* models of neonatal hypoxic ischemic encephalopathy."

Principal investigator: Prof. Pellegrini-Giampietro Domenico

- **2008** Research project entrusted and funded by Congenia S.R.L. Title of the project: "Studies on the neuroprotective effects of Congenia mPTP inhibitors: GNX-865 and GNX-3196."

Principal investigator: Prof. Flavio Moroni

Editorial Activity

Manuscript revision for the following international journals with impact factor

- MethodsX,
- Brain Research Bulletin,
- Current Protein & Peptide Science
- Evidence-based Complementary and Alternative Medicine
- Plos One
- Journal of Neurochemistry
- Frontiers in Pharmacology
- All Life
- Journal of Clinical Neuroscience
- Toxicology and Applied Pharmacology (TAAP)
- Journal of Photochemistry & Photobiology, B Biology

Past and present Collaborators

Prof. Alberto Chiarugi, University of Florence
Prof. Emidio Camaioni, University of Perugia
Prof. Monica Di Luca, University of Milan
Prof. Fabrizio Gardoni, University of Milan
Prof. Renato Corradetti, University of Florence
Prof. Federico Cozzolino, University of Florence
Prof. Laura Sartiani, University of Florence
Prof. Antonio Calabrò, University of Florence and Gastroenterology unit,
AOUC Careggi hospital
Prof. Laura Raimondi, University of Florence
Prof. Daniele Bani, University of Florence
Prof. Emanuela Masini, University of Florence and Toxicology Unit, AOUC
Careggi hospital
Dr. Lorenzo Polenzani e Dr. Maurizio Magnani,
Angelini Research Center, Rome, Italy
Prof. Mariagrazia Giovannini, University of Florence
Dr. Fabrizio Facchinetti, Chiesi Farmaceutici, S.p.a. Parma, Italy
Prof. Arsenio Fernández-López, University of León, Spain
Prof. Diego de Carvalho, Universidade do Oeste de Santa Catarina Brazil
Prof. Christian Chiamulera, University of Verona, Italy
Prof. Carlo Dani, University of Florence and Neonatology Unit, AOUC Careggi
hospital
Prof. Lorenzo Di Cesare Mannelli, University of Florence
Prof. Cristina Luceri, University of Florence
Prof.ssa Lucia Caffino, University of Milan
Prof. Fabio Fumagalli, University of Milan
Prof. Amedeo Amedei, University of Florence
Dr. Monica Monici, University of Florence and ASA campus, ASAlaser

scientific department (<https://www.asalaser.com/en>)

Dr. Alessandro Di Domizio, Founder, scientific algorithm/software developer, and researcher at SPILLOproject, Milan Italy
Dr. Casper Wolf, Radboud University Medical Center, Netherlands

Awards & Honors

Awards

- 2021** Awarded **Best oral communication** from “SITOX-Farindustria”
- 2017** Awarded **“Post doctoral fellowship 2018”** from Zardi-Gori Foundation.
- 2016** Awarded **SIF-Farindustria prize** from the Italian Society of Pharmacology for studies on Pharmacology.
- 2015** Awarded **Otsuka prize** from the Italian Society of Pharmacology for studies on Neuropsychopharmacology.
- 2013** Awarded **Best Oral Communication** to the meeting: Vecchie e Nuove droghe d’abuso: tematiche ed approcci dalla ricerca, *Convegno monotematico SIF, 2013 November 28th-29th* Verona, Italy.

Travel award

- 2018** Awarded **travel fellowship** from the FENS-IBRO/PERC to attend the “11th FENS Forum of Neuroscience”, Berlin, Germany.
- 2017** Awarded **travel fellowship** from the Italian Society of Neuroscience to attend the “27th Congress of the Italian Society of Neuroscience”, Ischia, Italy.
- 2015** Awarded **travel fellowship** from the Italian Society of Neuroscience to attend the “26th Congress of the Italian Society of Neuroscience”, Cagliari, Italy.
- 2014** Awarded **travel fellowship** from the Italian Society of Neuroscience to attend the “9th FENS Forum of Neuroscience”, Milano, Italy.
- 2012** Awarded **travel fellowship** from the Italian Society of Neuroscience to attend the “1th F.A.L.A.N. National Congress of Physiological Sciences and Neuroscience and Neurobiology of Mexico, Cancun, Mexico.
- 2012** Awarded **travel fellowship** from the Italian Society of Neuroscience to attend the “24th Congress of the Italian Society of Neuroscience”, Catania, Italy.
- 2010** Awarded **travel fellowship** from the Italian Society of Neuroscience to attend the “8th FENS Forum of Neuroscience”, Amsterdam, Holand

Teaching Experience

Teacher Assistant and Exam Committee Member in Motor Sciences Graduate Course (Prof. Domenico Pellegrini-Giampietro)

Lesson to “MASTER I LIVELLO”: “Alcol, tabacco e gioco d’azzardo: stili di vita e patologie correlate” (6/4/2017).

• **Lesson** to “MASTER I LIVELLO”: “Alcol, tabacco e gioco d’azzardo: stili di vita e patologie correlate” (17/9/2018).

• **Web conference** to “MASTER program in Bioscience and Health of the Universidade do Oeste de Santa Caterina-Unoesc, Brazil” for the special topic:” Alcohol and alcoholism” (21/09/2018).

• **Lesson** to “high school” Istituto Istruzione Superior Città di Piero, Sansepolcro (AR) “Effetti dell’alcol nell’organismo” (09/03/2019).

• **Lesson** to American student class of “FUA 2019” with the topic “Studies on Alcohol dependence and withdrawal and experimental techniques” (19/07/2019).

• **Lesson** to the residents in Medical Toxicology of AOUC Careggi Hospital “Molecular mechanisms of ethanol toxicity in experimental models of Alcohol dependence and withdrawal” (30/01/2020).

• **Web conference** to “MASTER program in Bioscience and Health of the Universidade do Oeste de Santa Caterina-Unoesc, Brazil” for the special topic:” Alcohol and alcoholism” (18/09/2020).

• **Lesson** to the residents in Medical Toxicology of AOUC Careggi Hospital “Molecular mechanisms and experimental models of prenatal Ethanol exposure” (17/06/2021).

• **Culture della Materia in Farmacologia** (settore BIO14) Cds Biologia (02/2021-02/2022)

• **Culture della Materia in Psicofarmacologia** (settore BIO14) Cds Psicologia (2022-2023)

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Supervision of students

(2022-2023) Irene Mazzeo, GRADUATE STUDENT IN BIOTECHNOLOGY. THESIS IN PREPARATION

(2023) Elia Amalfi, GRADUATE STUDENT IN MEDICINE. THESIS IN PREPARATION

(2022-2023) Giulia Strigoli, GRADUATE STUDENT IN BIOLOGY. THESIS IN PREPARATION

(2021-2022) Virginia Cimino, GRADUATE STUDENT IN MEDICINE. THESIS IN PREPARATION

(2021-2022) Lavinia Laveneziana, GRADUATE STUDENT IN BIOTECHNOLOGY. THESIS ENTITLED: “STUDIO DEI MECCANISMI MOLECOLARI ALLA BASE DELLA SINDROME FETO-ALCOLICA”

(2020-2021) Lorenzo Curti, degree in biology PREPARING A THESIS ENTITLED: “ROLE OF AMPA RECEPTORS IN MECHANISMS OF ETHANOL NEUROTOXICITY IN ORGANOTYPIC HIPPOCAMPAL SLICE CULTURES.”

(2019) AMINA NAMROUTI, LAB VISITING PREPARING A THESIS ENTITLED: ”PRE AND POST CONDITIONING OF CEREBRAL ISCHEMIA”

(2018-2019) SIMONE BUONO, GRADUATE STUDENT IN BIOTECHNOLOGY PREPARING A THESIS ENTITLED: “NEUROTOXICITY OF THE GLUTEN PEPTIDE 31-43 IN AN IN VITRO MODEL OF EPILEPSY: STUDY OF MOLECOLAR MECHANISMS”

(2016-2017) **Alice Ilari**, graduate student in Pharmacy, preparing a thesis entitled: "MECHANISMS OF NEUROTOXICITY OF UNCONIUGATED BILIRUBIN (UCB) IN THE GENESIS OF KERNICTERUS"

(2015-2016) **Francesco Petrosino**, graduate student in Pharmacy, preparing a thesis

(2015) **Martina Russo**, graduate student in Science of Food, preparing a thesis entitled: "DISORDINI NEUROLOGICI NELLA MALATTIA CELIACA: STUDIO DEI MECCANISMI PATOGENETICI IN UN MODELLO IN VITRO DI EPILESSIA"

(2013-2016) **Damiana Cavallo**, PhD student in Pharmacology

(2013-2014) **Diego de Carvalho**, PhD student preparing a thesis on: "EFFETS OF THE CRUDE VENOM OF THE SOUTH AMERICAN RATTLESNAKE (CROTALUS DURISSUS TERRIFICUS) IN RATS ORGANOTYPIC HIPPOCAMPAL SLICES".

(2013-2014) **Nazret Tsehaye**, graduate student in Pharmacy, preparing a thesis entitled: "MOLECULAR MECHANISMS OF ETHANOL DEPENDENCE AND WITHDRAWAL IN ORGANOTYPIC HIPPOCAMPAL SLICE CULTURES."

(2011-2012) **Claudio Pineider**, degree in Pharmacy with the thesis entitled: "RUOLO DELL'ACETILAZIONE/DEACETILAZIONE ISTONICA NELLO SVILUPPO DELLA TOLLERANZA ISCHEMICA IN UN MODELLO DI FETTINE ORGANOTIPICHE IPPOCAMPALI IN VITRO."

(2010-2011) **Eva Merelli**, degree in Biology with the thesis entitled: "LA TOLLERANZA ISCHEMICA INDOTTA DA NMDA È MEDIATA DA INTERNALIZZAZIONE E DIMINUITA RISPOSTA DEI RECETTORI AMPA AL GLUTAMMATO."

(2009-2010) **Christos Bagiatlakis**, degree in Chemistry and Pharmaceutical Technology with the thesis entitled: "STUDI FARMACOLOGICI IN UN MODELLO IN VITRO DI TOLLERANZA ISCHEMICA: RUOLO DELLA POLI(ADP-RIBOSIO)POLIMERASI"

Oral communication at Scientific Meetings

1. **Oral communication** to the "Addiction2022" conference 2022 september 25th-28th Villasimius Italy. Presentazion:" Metaplastic effects of ethanol on AMPA receptors in immature and mature hippocampal slices" Chair: Marco Diana (Cagliari).
2. **Oral communication** Session: "PROF. PAOLO PREZIOSI" FARMACI to the XX conference of the Italian Society of Toxicology (SITOX) 2021 october 25th-28th Bologna Italy. Presentazione:" Ca²⁺ permeable AMPA receptors as possible therapeutic target for neurotoxicity induced by ethanol withdrawal: preclinical studies in rat organotypic hippocampal slices" Chair: Maura Lodovici (Firenze), Fabiana Morroni (Bologna).
3. **Oral communication** Session: XIX National Virtual Congress of the Italian Society of Neuroscience, 2021 september 9th-11th. Presentation: "Ethanol neurotoxicity is mediated by changes in AMPA receptor expression, surface localization and functional properties". Chair: Marina Pizzi (Brescia), Maurizio Memo (Brescia).
4. **Proponent** of the Oral communication Session: "HOW NUTRITION AFFECTS THE BRAIN: PERSPECTIVE FOR NEW THERAPIES". 39° National Congress of the Italian Pharmacological Society, 2019 November 20th-23th Florence, Italy. Presentation:"Implication of undigested gluten peptides on neurological disorders: study of molecular mechanisms in experimental models of epilepsy". Chair: Lucia Caffino (Milano), Elisabetta Gerace (Firenze).

5. **Symposium (invited).** Session: “New neuroprotective approaches for the treatment of cerebral ischemic damage” *XVIII National Congress of the Italian Society of Neuroscience, 2019 september 26th-28th* Perugia, Italy. Chair: Ornella Cuomo (Napoli), Vanessa Porrini (Brescia).
6. **Meeting.** “PERINATAL ORIGINS OF NEUROPSYCHIATRIC DISORDERS: FROM MOLECULAR MECHANISMS TO THERAPEUTIC PERSPECTIVES”. Palermo, 2019 29th May - 1th June. Chair: Yasmin Hurd (USA) - Miriam Melis (Italy).
7. **Meeting.** “1[^] meeting of the young investigators of the Zardi-Gori Foundation”. Milan, 16 May 2019. Presentation: “Role of Ca²⁺-permeable AMPA receptors and cadherins in ethanol withdrawal toxicity”.
8. **Meeting.** “LE BASI FARMACOLOGICHE DEI NUTRACEUTICI”. Napoli, 29-30 March 2019. National Congress of the Italian Pharmacological Society, 2019 29th- 30th May. Napoli, Italy. Chair: Calapai G (University of Messina) - Calignano A (University of Napoli).
9. **Meeting.** “INSIDE THE ADDICTED BRAIN: Understanding the neurobiology to program the intervention”. National Congress of the Italian Pharmacological Society, 2018 31th May - 1th June. Varese, Italy. Chair: C. Cannizzaro (University of Palermo) e W. Pistis (University of Cagliari).
10. **Meeting.** Ketamine And Pharmacology Of Pshychiatric Diseases. 38° *National Congress of the Italian Pharmacological Society, 2017 October 25th-28th* Rimini, Italy. Chair: C. Chiamulera (University of Verona) and F. Fumagalli (University of Milan).
11. **Symposium** Session: Innovative Strategies To Foster Brain Repair After Damage. *XVI National Congress of the Italian Society of Neuroscience, 2015 October 8th-11th* Cagliari, Italy. Chair: Caleo Matteo (Pisa), De Simoni Maria Grazia (Milano).
12. **Meeting.** Addictive disorders: from neurobiology to novel therapeutic strategies. *National Congress of the Italian Pharmacological Society, 2015 March 27th-28th* Palermo, Italy. Chair: T. Rubino (University of Insubria) e W. Fratta (University of Cagliari).
13. **Meeting.** Drug Repurposing and Beyond: the fundamental role of Pharmacology. National Congress of the Italian Pharmacological Society, 2014 June 13th-14th Cosenza, Italy. Chair: F. Orsini (University of Milano) e D. Amantea (University of Cosenza).
14. **Meeting.** Old & New Drugs of Abuse: tematiche ed approcci dalla ricerca farmacologica italiana. National Congress of the Italian Pharmacological Society, 2013 November 28th-29th Verona, Italy. Chair: M. Marchi (University of Genova) e P. Fadda (University of Cagliari).
15. **Meeting.** Session: Endogenous Neuroprotection. *Congresso bis12 “brain ischemia and stroke” 2012 december 12th-14th* Roma, Italy. Chair: Carlo Ferrarese (Italy), Jonh Hallenbeck (USA).
16. **Meeting.** Session: La Ricerca Di Base. I congresso SIFASD Il “giovane del futuro” nasce da una gravidanza sana. 2012 novembre 19th-20th Roma, Italy. Chair: G. Mannaioni (Italy), G. Laviola (Italy), S. Macri (Italy).
17. **Symposium** Session: Neuroplasticity and brain adaptation to stressors. I congresso F.A.L.A.N. 55 Congresso National de Ciencias Fisiologicas. 2012 November 4th-9th Cancun, Mexico. Chair: L. Annunziato (University of Naple).

18. **Meeting.** Nuove Strategie Terapeutiche nell'Ischemia Cerebrale. *National Congress of the Italian Pharmacological Society, 2012 June 22th-23th* Urbino, Italy. Chair: A. M. Pugliese (University of Florence) e W. Balduini (University of Urbino).
19. **Symposium** Session: Parkinson's disease and other neurodegeneration disorders. *7th International Meeting on Metabotropic Glutamate Receptors Current Neuropharmacology 2011, Vol. 9, Suppl. 1 (64)*. October 2th-7th Taormina, Sicily, Italy. Chair: G. Battaglia (Italy) and M. Amalric (France).
20. **Symposium.** Session: Pathogenic mechanisms and drugable targets in post-ischemic brain injury. XXXIV National Congress of the Italian Pharmacological Society S-2-2/4. October 14th-17th 2009. Chair M. Pizzi (University of Brescia) and D.E. Pellegrini-Giampietro (University of Florence).
21. **Meeting.** Session: Poly (ADP-ribose) and cell death. *XXth Meeting on ADP-ribosylation,* November 22th-23th 2007. Chair F. Moroni (University of Florence, Italy).

Publications (with Impact Factor)

1. Tiziana Mundula, Simone Baldi, **Elisabetta Gerace** & Amedeo Amedei (2023) Role of the Intestinal Microbiota in the Genesis of Major Depression and the Response to Antidepressant Drug Therapy: A Narrative Review. *Biomedicine* 11(2):550. **IF:4.757**
2. **Elisabetta Gerace**, Lorenzo Polenzani, Maurizio Magnani, Elisa Zianni, Gabriella Stocca, Fabrizio Gardoni, Domenico E. Pellegrini-Giampietro & Renato Corradetti (2023) Antidepressant-induced increase in GluA2 expression does not translate in changes of AMPA receptor-mediated synaptic transmission at CA3/CA1 synapses in rats *Neuropharmacology* 2;223:109307 **IF: 5.273**
3. Elisa Landucci, Rolando Berlinguer-Palmini, Gilda Baccini, Francesca Boscia, **Elisabetta Gerace**, Guido Mannaioni, Domenico E. Pellegrini-Giampietro (2022) The neuroprotective effects of mGlu1 receptor antagonists are mediated by an enhancement of GABAergic synaptic transmission via a presynaptic CB1 receptor mechanism. *Cells*, 11(19), 3015 **IF: 7.666**.
4. D Iezzi, L Curti, G Ranieri, **E Gerace**, A Costa, A Ilari, A La Rocca, C Luceri, M D'Ambrosio, L Silvestri, M Scardigli, G Mannaioni, A Masi (2022) Acute rapamycin rescues the hyperexcitable phenotype of accumbal medium spiny neurons in the valproic acid rat model of autism spectrum disorder. *Pharmacol Res.*;183:106401.**IF: 10.334**
5. Dani C, Pratesi S, Ranieri G., Mannaioni G, **Gerace E**. Changes of oxidative stress-related gene expression in in vitro model of neonatal hypoxic-ischemic encephalopathy (2022) *Neonatology*. 119(5):611-618 **IF: 5.106**
6. Daniele Lana, **Elisabetta Gerace**, Giada Magni, Francesca Cialdai, Monica Monici, Guido Mannaioni and Maria Grazia Giovannini. Hypoxia/ischemia-induced rod microglia phenotype in CA1 hippocampal slices (2022) *Int. J Mol Sci*. 26;23(3):1422 **IF: 5.924**

Publications (with Impact Factor)

**Publications
(with Impact Factor)**

7. Ilari A, Curti L, Petrella M, Cannella N, La Rocca A, Ranieri G, **Gerace E**, Iezzi D, Silvestri L, Mannaioni G, Ciccocioppo R, Masi A. Moderate ethanol drinking is sufficient to alter Ventral Tegmental Area dopamine neurons activity via functional and structural remodeling of GABAergic transmission (2022) *Neuropharmacology* 1;203:108883. **IF: 5.250**
8. **Gerace E**, Cialdai F, Sereni E, Lana D, Nosi D, Giovannini MG, Monici M & Mannaioni G. NIR laser photobiomodulation induces neuroprotection in an in vitro model of cerebral hypoxia/ischemia (2021) *Mol. Neurobiol.* 58(10):5383-5395. **IF: 5.590**
9. Dani C, Pratesi S, Mannaioni G, **Gerace E**. Neurotoxicity of Unconjugated Bilirubin in Neonatal Hypoxic-Ischemic Brain Injury in vitro (2021) *Front Pediatr.* 20;9:659477. **IF: 3.418**
10. **Gerace E.**, Ilari A., Caffino L., Buonvicino D., Lana D., Ugolini F., Resta F., Nosi D., Giovannini M.G., Ciccocioppo R., Fumagalli F., Pellegrini-Giampietro D.E., Masi A., Mannaioni G. Ethanol neurotoxicity is mediated by changes in expression, surface localization and functional properties of glutamate ampa receptors (2020) *J Neurochem* 157(6):2106-2118. **IF: 5.372**
11. **Gerace E.**, Zianni E, Landucci E, Scartabelli T, Berlinguer Palmi R, Iezzi D, Moroni F, Di Luca M, Mannaioni G, Gardoni F, Pellegrini-Giampietro DE. Differential mechanisms of tolerance induced by NMDA and 3,5-dihydroxyphenylglycine (DHPG) preconditioning. (2020) *J Neurochem.* 155(6):638-649. **IF: 5.372**
12. Buonvicino D., Ranieri G, Pratesi S, **Gerace E**, Muzzi M, Guasti D, Tofani L, Chiarugi A Neuroprotection induced by dexpropampridone delays disease progression in a mouse model of progressive multiple sclerosis. (2020) *Br J Pharmacol.*, 177(14):3342-3356. **IF: 8.74**
13. **Gerace E.**; Scartabelli T., Pellegrini-Giampietro D.E. Landucci E. Tolerance induced by DHPG postconditioning is mediated by the PI3K/Akt/GSK3B signalling pathway in an in vitro model of cerebral ischemia. (2020) *Neuroscience*, 55(4):509-16. **IF: 3.590**
14. Cavallo D., Landucci E., **Gerace E.**; Lana D., Ugolini F., Henley J., Giovannini M.G., Pellegrini-Giampietro D.E. Neuroprotective effects of GluR5 activation through the PI3K/Akt pathway and the molecular switch of AMPA receptors (2020) *Neuropharmacology* 1;162:107810. **IF: 5.251**
15. Piva A.*, **Gerace E.***, Di Chio M., Padovani L., Paolone G., Pellegrini-Giampietro D.E., Chiamulera C. Reconsolidation of sucrose instrumental memory in rats: the role of retrieval context (2019) *Brain Res.* 1714:193-201. **IF: 2.733**
16. **Gerace E.**, Landucci E., Bani D., Moroni F., Mannaioni G. and Pellegrini-Giampietro D.E. Glutamate receptor-mediated neurotoxicity in a model of ethanol dependence and withdrawal in rat organotypic hippocampal slice cultures (2019) *Frontiers in Neuroscience.* 24;12:1053 **IF: 3.707**
17. Dani C., Pratesi S., Ilari A., Lana D., Giovannini M.G., Nosi D., Buonvicino D., Landucci E., Bani D., Mannaioni G., **Gerace E**. Neurotoxicity of unconjugated bilirubin in mature and immature rat organotypic hippocampal slice

- cultures. (2019) *Neonatology* 15;115(3):217-225. IF: 2.742
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Chapter

Scartabelli T., Landucci E., Gerace E. and Pellegrini-Giampietro D.E. (2014) Glutamate and Stroke. From NMDA to mGlu Receptors and Beyond. Rational Basis for Clinical Translation in Stroke Therapy Edited by Giuseppe Micieli and Diana Amantea. CRC Press 2014
Print ISBN: 978-1-4665-9497-5
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ABSTRACT'LIST: 78 ABSTRACT PRESENTED TO NATIONAL AND INTERNATIONAL MEETINGS

OTHER INFORMATION

Affiliation to Scientific Societies

2009-today Italian Society of Pharmacology (SIF)
2009-today Italian Society of Neurocience (SINS)
2019-today Italian Society of Toxicology (SITOX)

Laboratory Animals Care And Use Certificate

Istituto Zooprofilattico Sperimentale Della Lombardia E Dell'emilia Romagna
- LEGISLAZIONE NAZIONALE ED ETICA LIVELLO 1, MODULI 1 E 2, DM 5 AGOSTO 2021 - Edizione Unica
- ETICA E CONCEZIONE DEI PROGETTI, MODULI 9, 10, 11, DM 5 AGOSTO 2021 - Edizione Unica
- BIOLOGIA E GESTIONE DEGLI ANIMALI DA LABORATORIO, MODULI 3.1, 4, 5, 6.1, 7. DM 5 AGOSTO 2021 RODITORI E LAGOMORFI - Edizione Unica

Maternity

March-December 2020
January-October 2016

TABELLA SINOTTICA DI TUTTI I LAVORI SCIENTIFICI SU RIVISTE CON IMPACT FACTOR

n. lavori indicizzati: 39 (2008-2023)
% lavori originali: 100 %
% posizione I, II o ultimo autore: 55,75%
IF medio: 4.408
Citazioni (Scopus): 644
H-index: 16

as described in Article 9 of Regulation (EU) 2016/679:

“data revealing racial or ethnic origin, political opinions, religious or philosophical beliefs, or trade union membership, and the processing of genetic data, biometric data for the purpose of uniquely identifying a natural person, data concerning health or data concerning a natural person's sex life or sexual orientation”

In compliance with the GDPR and Italian Legislative Decree no. 196 dated 30/06/2003, I hereby authorize the recipient of this document to use and process my personal details for the purpose of recruiting and selecting staff and I confirm to be informed of my rights in accordance to art. 7 of the above mentioned Decree.

Firenze, 17th February 2023

Signature

Elisabetta Gerace