

CURRICULUM VITAE



PERSONAL INFORMATIONS

Name **GERACE ELISABETTA**

Education

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

2006 Qualification to the profession of Pharmacist

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.

Professional Experience

2016-today 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.

Research Experience

2017-PRESENT

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 neurodevelopmental disorders in rat organotypic hippocampal slice cultures.
- Studies on molecular mechanisms of ethanol toxicity in rat organotypic hippocampal slice cultures.
- Studies on the pathogenetic mechanisms of neurological disorders associated with gluten peptides.

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.

Technical skills

Neuronal culture preparations (rat and mouse):

Organotypic hippocampal slices

Organotypic cortical slices

Organotypic spinal cord slices

Neuronal cultures (astrocytes, neurons, mixed glia and neurons)

Care and Handling of Laboratory Animals

Intraperitoneal injection

Isolation of different brain areas: macro- and micro-dissection

Protein analysis

Total protein isolation from tissues or cell cultures

Cellular fraction preparation (nuclear, cytoplasmic)

Western blotting analysis

Immunofluorescence staining analysis

Cross-linking

Immunoprecipitation

Electrophysiological recording
Patch-Clamp

Imaging
Calcium imaging

Partecipation to Founded grants

- 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

Awards & Honors

Awards

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| 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, Holland

Collaborators

Prof. Alberto Chiarugi, Department of Health Sciences, University of Florence

Prof. Monica Di Luca and Prof. Fabrizio Gardoni, Department of Pharmacological Sciences, University of Milan

Prof. Renato Corradetti, Department of Neuroscience, Section of Pharmacology, University of Florence

Prof. Federico Cozzolino, Department of clinical, experimental and biomedical science, University of Florence

Laura Sartiani, Department of Neuroscience, Section of Pharmacology, University of Florence

Prof. Antonio Calabrò, Department of clinical, experimental and biomedical science, University of Florence

Prof. Laura Raimondi, Department of Neuroscience, Section of Pharmacology, University of Florence

Prof. Daniele Bani, Department of Clinical and Experimental medicine, University of Florence

Prof. Emanuela Masini, Department of Neuroscience, Section of Pharmacology, University of Florence

Dr. Lorenzo Polenzani e Dr. Maurizio Magnani, ACRAF, Angelini Research Center, S. Palomba-Pomezia Rome, Italy

Prof. Mariagrazia Giovannini, Department of Health Sciences, University of Florence

Dr. Fabrizio Facchinetti, Chiesi Farmaceutici, S.p.a. Parma, Italy

Dr. Leonardo Sacconi, European laboratory for Non-Linear Spectroscopy (LENS) University of Florence, Italy

Prof. Arsenio Fernández-López, University of Leòn, Spain

Prof. Christian Chiamulera, University of Verona, Italy

Prof. Carlo Dani, University of Florence and Neonatologia e terapia intensiva neonatale AOUC Careggi.

Dr. Monica Monici, ASA campus and University of Florence, Italy.

Teaching Experience

- Teacher Assistant and Exam Committee Member in Motor Sciences Graduate Course
 - 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 Universitade 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).

Supervision of students

(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 MOLECULAR 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 IPOCAMPALI 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 Bagiatakis, 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. 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).
- 2. 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).
- 3. 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).
- 4. 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”.
- 5. 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).
- 6. 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).
- 7. 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).
- 8. 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).
- 9. 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).
10. **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).
 11. **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).
 12. **Meeting.** Session: Endogenous Neuroprotection. *Congresso bis12 "brain ischemia and stroke" 2012 december 12th-14th* Roma, Italy. Chair: Carlo Ferrarese (Italy), Jonh Hallenbeck (USA).
 13. **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. Macrì (Italy).
 14. **Symposium** Session: Neuroplasticity and brain adaptation to stressors. I congresso F.A.L.A.N. 55 Congreso National de Ciencias Fisiologicas. 2012 November 4th-9th Cancun, Mexico. Chair: L. Annunziato (University of Naple).
 15. **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).
 16. **Symposium** Session: Parkinson's disease and other neurodegeneration disorders. *7th International Meeting on Metabotropic Glutamate Receptors Current Neuropharmacology 2011, Vol. 9, Suppl. I (64)*. October 2th-7th Taormina, Sicily, Italy. Chair: G. Battaglia (Italy) and M. Amalric (France).
 17. **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).
 18. **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. Gerace E., Ilari A., Caffino L., Buonvicino D., Lana D., Ugolini F., Resta F., Nosi D., Giovannini M .G., Ciccocioppo R., Fumagalli F., Pellegrini-

**Publications
(with Impact Factor)**

- 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* 2020 Oct 26. Online ahead of print. IF: 4.066
- 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*. Online ahead of print. IF: 4.066
 - Buonvicino D., Ranieri G, Pratesi S, Gerace E, Muzzi M, Guasti D, Tofani L, Chiarugi A Neuroprotection induced by dextramipexole delays disease progression in a mouse model of progressive multiple sclerosis. (2020) *Br J Pharmacol.*, 177(14):3342-3356. IF: 6.583
 - 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: 3.244
 - 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: 4.367
 - 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: 3.125
 - 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: 3.877
 - 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: 2.688
 - Piva A., Gerace E., DiChio M., Osanni L., Padovani L., Caffino L., Fumagalli F., Pellegrini-Giampietro D.E., Chiamulera C. The metaplastic effects of NMDA receptors blockade on reactivation of instrumental memories in rats. (2018) *Neurobiology of Learning and Memory* 154:87-96. IF: 3.543
 - Landucci E., Filippi L., Gerace E., Catarzi S., Guerrini R., Pellegrini-Giampietro DE. Neuroprotective

**Publications
(with Impact Factor)**

- effects of topiramate and memantine in combination with hypothermia in hypoxic-ischemic brain injury *in vitro* and *in vivo*. (2018) *Neurosci. Letters* 12;668:103-107. IF. 2.180
11. Muzzi M., Gerace E., Buonvicino D., Coppi E., Resta F., Formentini L., Zecchi R., Tigli L., Guasti D., Ferri M., Camaioni E., Masi A., Pellegrini-Giampietro DE., Mannaioni G., Bani D., Pugliese A. and Chiarugi A. Dextramipexole improves bioenergetics and outcome in experimental stroke. (2018) *Br J Pharmacol.* 175(2) 272-283. IF. 5.259
 12. Gerace E., Resta F., Landucci E., Renzi D., Masi A., Pellegrini-Giampietro D.E., Calabrò A. & Mannaioni G.. The gliadin peptide 31-43 exacerbates kainate neurotoxicity in epilepsy models. (2017) *Sci. Rep.* 7(1):15146. IF. 4.259
 13. Lapucci A, Cavone L, Buonvicino D, Felici R, Gerace E, Zwergel C, Valente S, Mai A, Chiarugi A. Effect of Class II HDAC inhibition on glutamate transporter expression and survival in SOD1-ALS mice. (2017) *Neurosci Lett.* 24;656:120-125. IF. 2.180
 14. Sartiani L., Bucciantini, M., Spinelli, V., Leri M., Natalello A., Nosi D., Doglia S.M., Relini A., Penco A., Giorgetti S., Gerace E., Mannaioni G., Bellotti V., Rigacci S., Cerbai E. and Stefani M. Biochemical and Electrophysiological Modification of Amyloid Transthyretin on Cardiomyocytes. (2016) *Biophysical Journal.* 111: 2024-2038. IF. 3.632
 15. Landucci E, Lattanzi R, Gerace E, Scartabelli T, Balboni G, Negri L, Pellegrini-Giampietro DE. Prokineticins are neuroprotective in models of cerebral ischemia and ischemic tolerance *in vitro*. (2016) *Neuropharmacology* 108:39-48. IF. 4.936
 16. Gerace E., Landucci E., Totti A., Bani D., Guasti D., Baronti R., Moroni F., Mannaioni G., Pellegrini-Giampietro D. Ethanol toxicity during brain development: alterations of excitatory synaptic transmission in immature organotypic hippocampal slice cultures. (2016) *Alcohol Clin Exp Res.* 40(4):706-16. IF. 3.205
 17. Gerace E., Pellegrini-Giampietro D., Moroni F., Mannaioni G. Poly(ADP-ribose)polymerase 1 (PARP-1) activation and Ca²⁺ permeable α -amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid (AMPA) channels in post-ischemic brain damage: new therapeutic opportunities? (2015) *CNS Neurol Disord Drug Targets.* 14(5):636-46 IF. 2.702
 18. Gerace E., Landucci E., Scartabelli T., Moroni F., Chiarugi A. & Pellegrini-Giampietro D. E. Interplay between histone acetylation/deacetylation and poly(ADP-ribosylation) in the development of ischemic tolerance *in vitro*. (2015) *Neuropharmacology* 92: 125-134. IF. 4.819

**Publications
(with Impact Factor)**

19. Gerace E., Masi A., Resta F., Felici R., Landucci E., Mello T.; Pellegrini-Giampietro D.E., Mannaioni G. and Moroni F. PARP-1 activation causes neuronal death in the hippocampal CA1 region by increasing the expression of Ca²⁺-permeable AMPA receptors. (2014) *Neurobiol Dis.* 70C: 43-52. IF. 5.624
20. Lucarini L., Pini A., Gerace E., Pellicciari R., Masini E. & Moroni F. Poly(ADP-ribose)polymerase inhibition with HYDAMTIQ reduces allergen-induced asthma-like reaction, bronchial hyper-reactivity and airway remodeling. (2014) *J. of Cell and Molec Medicine.* 18(3): 468-79. IF. 4.753
21. Wani WY, Sunkaria A, Sharma DR, Kandimalla RJ, Kaushal A, Gerace E, Chiarugi A, Gill KD Caspase inhibition augments Dichlorvos induced Dopaminergic neuronal cell death by increasing ROS production and PARP1 activation. (2014) *Neuroscience* 258:1-15. IF= 3.12
22. Manni ME, De Siena G, Saba A, Marchini M, Landucci E, Gerace E, Zazzeri M, Musilli C, Giampietro-Pellegrini D, Matucci R, Zucchi R, Raimondi L. Pharmacological effects of 3-iodothyronamine (TIAM) in mice include facilitation of memory acquisition and retention and reduction of pain threshold. (2013) *Br J Pharmacol.* 168(2):354-62 IF= 5.067
23. Gerace E., Scartabelli T., Formentini L., Landucci E., Moroni F., Chiarugi A. & Pellegrini-Giampietro D. E. Mild activation of poly(ADP-ribose) polymerase (PARP) is neuroprotective in rat hippocampal slice models of ischemic tolerance. (2012) *Eur. J. of Neurosci.* 36: 1993-2005. IF= 3.42
24. Muzzi M, Felici R, Cavone L, Gerace E, Minassi A, Appendino, Moroni F, Chiarugi A. Ischemic Neuroprotection by TRPV1 Receptor-Induced Hypothermia. (2012) *J. Cereb. Blood Flow Metab.* 32:978-82. IF= 4.522
25. Gerace E, Landucci E, Scartabelli T, Moroni F, Pellegrini-Giampietro DE. Rat hippocampal slice culture models for the evaluation of neuroprotective agents. (2012) *Methods Mol Biol.*; 846:343-54. IF= 1.29
26. Landucci E, Scartabelli T, Gerace E, Moroni F, Pellegrini-Giampietro DE, CB1 receptors and post-ischemic brain damage: Studies on the toxic and neuroprotective effects of cannabinoids in rat organotypic hippocampal slices. (2011). *Neuropharmacology.* 60(4):674-82. IF= 4.677
27. Landucci E., Boscia F., Gerace E., Scartabelli T., Cozzi A., Moroni F., Mannaioni G., Pellegrini-Giampietro D.E. Involvement of Endocannabinoid Signaling in the Neuroprotective Effects of Subtype 1 Metabotropic Glutamate Receptor Antagonists in Models of Cerebral Ischemia. (2009) *Int. Rev.*

Neurosci. 85: 337-350. IF = 2.476

28. Moroni F., Formentini L., Gerace E., Camaioni E., Pellegrini-Giampietro D.E., Chiarugi A. & Pellicciari R. Selective inhibition of PARP-2 exacerbates CA1 injury in rat organotypic hippocampal slice cultures exposed to oxygen and glucose deprivation. (2009) *Brit. J. Pharmacol.* 157(5):854-62. IF =5.2
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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
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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)

Maternity

March-December 2020
January-October 2016

Dichiarazione sostitutiva di certificazione e dichiarazione sostitutiva dell'atto di notorietà ai sensi del D.P.R. 445/28.12.2000

La sottoscritta Elisabetta Gerace, consapevole delle responsabilità penali cui può andare incontro, in caso di dichiarazioni mendaci, ai sensi e per gli effetti di cui all'art. 76 del D.P.R. 445/2000 e consapevole che, ai sensi dell'art. 13, del Regolamento UE 2016/679 (GDPR), la presente dichiarazione sarà pubblicata sul sito web dell'amministrazione in apposita sezione di Amministrazione Trasparente, sotto la propria responsabilità dichiara ai sensi degli artt. 46 e 47 del DPR 445/2000

10th February 2020