



Federica Raimondi

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UNIMORE University of Modena and Reggio Emilia
Department of Biomedical, Metabolic, and Neural Sciences
Via Giuseppe Campi 287 – 41125 Modena (MO) ITALY

EDUCATION AND TRAINING

- **May 2024 - Qualified as Professional Biologist - Section A**
- **Feb 2022 - Master's Degree in Neurobiology cum Laude** - University of Pavia, Italy
Thesis: "Neural stem cell grafting in a rat model of temporal lobe epilepsy: a step towards enhanced regenerative medicine" (Supervisor: Prof. Gerardo Biella; Co-supervisor: Prof. Giulia Curia)
- **Dec 2018 - Bachelor's Degree in Biotechnology** – University of Modena and Reggio Emilia, Italy
Thesis: "Potenzialità del modello Lymnaea stagnalis nello studio di malattie neurodegenerative (Potential of Lymnaea stagnalis as a model to study neurodegenerative diseases)" (Supervisor: Prof. Fabio Tascetta; Co-supervisors: Dr. Cristina Benatti and Dr. Veronica Rivi)
- **Jul 2015 - Scientific High School Diploma**- Wiligermo High School, Modena, Italy

RESEARCH EXPERIENCE

- **Nov 2022 - current – Ph.D. student in Neuroscience** - University of Modena and Reggio Emilia (Italy), Horizon 2020 HERMES Project - Laboratory of Experimental Electroencephalography and Neurophysiology (Supervisor: Prof. Giulia Curia)
- **Sep 2022 - Oct 2022 - Research Fellow** - University of Modena and Reggio Emilia (Italy), Horizon 2020 HERMES Project - Laboratory of Experimental Electroencephalography and Neurophysiology (Supervisor: Prof. Giulia Curia)
- **Apr 2022 - Jul 2022 - Trainee within Erasmus+ Traineeship Program** – UCD Conway Institute, Dublin (Ireland) - Laboratory of Molecular Neurobiology (Supervisor: Dr. Marian Tsanov)
- **Jan 2021 - Feb 2022 - Trainee for experimental Master Thesis** - University of Modena and Reggio Emilia (Italy) - Laboratory of Experimental Electroencephalography and Neurophysiology (Supervisor: Prof. Giulia Curia)
- **Sep 2018 - Dec 2018 - Trainee for experimental Bachelor Thesis** - University of Modena and Reggio Emilia (Italy) - Laboratory of Neuropsychopharmacology (Supervisor: Prof. Fabio Tascetta)

ACADEMIC POSITIONS

- **Oct 2022 - Oct 2024 – Representative of PhD students in Neuroscience**

FELLOWSHIPS AND AWARDS

- **Sep 2023** – Second place at the “Creative BraYns Award” of the BraYn Congress 2023
- **Oct 2022** - Winner of the selection for the three-year Doctoral Fellowship in Neuroscience with reserved research position in “Hybrid enhanced regenerative medicine systems – HERMES”- S.S.D. BIO/09
- **Aug 2022** - Winner of the selection for a one-year Research Fellowship in Neuroscience with reserved research position in “Hybrid enhanced regenerative medicine systems – HERMES”- S.S.D. BIO/09
- **Jun 2021**- Winner of the Erasmus+ Traineeship Program scholarship

RESEARCH REPORTS IN CONFERENCES

- **Federica Raimondi**, S. Bartoletti, B. Casadei Garofani, E. Ren, F. Ciarpella, A. Campanelli, G. Palazzolo, A. Capodiferro, G. Leo, I. Decimo, G. Curia. "Are rat embryonic neural stem cells a good choice to generate a brain organoid in vivo?". ISSCR Annual Meeting 2024, 10-13 July, Hamburg (Germany).
- B. Casadei Garofani, A. Capodiferro, S. Bartoletti, **Federica Raimondi**, E. Ren, D. Gandolfi, G. Curia. "High-density EEG in the pilocarpine model of temporal lobe epilepsy: a power spectrum analysis of tonic-clonic seizures". FENS Forum 2024, 25-29 June 2024, Vienna (Austria).
- E. Ren, S. Bartoletti, A. Capodiferro, B. Casadei Garofani, **Federica Raimondi**, G. Leo, G. Curia. "A correlation study between brain lesions and severity of the epileptic syndrome in the pilocarpine model of temporal lobe epilepsy". FENS Forum 2024, 25-29 June 2024, Vienna (Austria).
- **Federica Raimondi**, S. Bartoletti, E. Ren, B. Casadei Garofani, A. Capodiferro, G. Della Rosa, G. Palazzolo, G. Curia. "Alginate displays anti-inflammatory properties in the ibotenic-lesioned rat brain". 6th Brainstorming research assembly for young neuroscientists (BraYn), 27-29 SEP 2023, Naples (Italy)
- B. Casadei Garofani, S. Bartoletti, A. Capodiferro, F. **Federica Raimondi**, E. Ren, G. Curia. "Epileptiform activity in a non-epileptic control rat: spontaneous syndrome or lesion-induced epilepsy?" 6th Brainstorming research assembly for young neuroscientists (BraYn), 27-29 SEP 2023, Naples (Italy)

- S. Bartoletti, E. Ren, **Federica Raimondi**, E. McGlynn, M. Cerezo-Sanchez, Beatrice Casadei Garofani, A. Capodiferro, H. Heidari, G. Curia. "Insertion, Biocompatibility and Functionality of Flexible Neural Implantable Probes in Vivo". Brain inspired computing workshop, 8-9 June, Modena (Italy)
- G. Della Rosa, N. Gostynska, J.W. Ephraim, S. Bartoletti, E. Ren, B. Casadei Garofani, **Federica Raimondi**, F. Ciarpella, A. Campanelli, I. Decimo, G. Panuccio, G. Curia, G. Palazzolo. "Multifunctional magnesium alginate matrix for in vitro brain models as well as for brain regenerative approaches". 20th National Congress of the Italian Society for Neuroscience (SINS), 14-17 SEP 2023, Torino (Italy)
- Curia G, Bartoletti S, Ren E, Casadei Garofani B, **Federica Raimondi**, 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, 2-6 SEP 2023, Dublin (Ireland)
- S. Bartoletti, E. Ren, **Federica Raimondi**, E. McGlynn, M. Cerezo-Sanchez, B. Casadei Garofani, A. Capodiferro, H. Hedari, G. Curia. "Insertion, biocompatibility and functionality of flexible neural implantable probes in vivo". 3rd Brain-Inspired Computing Workshop, 8-9 JUN 2023, Modena (Italy)
- G. Curia, S. Bartoletti, E. Ren, B. Casadei Garofani, **Federica Raimondi**, A. Capodiferro, A. Campanelli, I. Decimo, G. Palazzolo. "In vivo evaluation of the anti-inflammatory activity of alginate during brain repair in the temporal lobe epileptic rat". 72nd National Meeting of Italian Society of Physiology (SIF) 2022, 14 - 16 SEP 2022, Bari (Italy)
- S. Bartoletti, E. Ren, **Federica Raimondi**, G. della Rosa, A. Campanelli, I. Decimo, G. Palazzolo, G. Curia. "In vivo evaluation of the anti-inflammatory activity of alginate in the temporal lobe epileptic rat brain". Federation of European Neuroscience Societies (FENS) 2022, 9 - 13 JUL 2022, Paris (France)
- S. Bartoletti, E. Ren, G. Della Rosa, A. Campanelli, **Federica Raimondi**, G. Leo, S. Dolci, I. Decimo, G. Palazzolo, G. Curia. "Brain repair in temporal lobe epilepsy: an in vivo investigation". 71st National Meeting of Italian Society of Physiology (SIF) 2021, 7-9 SEP 2021, Milan (Italy)
- E. Ren, S. Bartoletti, A. Vilella, **Federica Raimondi**, M. Zoli, G. Curia. "Long-term behavioral and histological profile following CA3 ventral lesion". 71st National Meeting of Italian Society of Physiology (SIF) 2021, 7-9 SEP 2021, Milan (Italy)

PERSONAL SKILLS AND COMPETENCES

Experience in preclinical studies: pilocarpine model and seizure scoring, stereotaxic surgeries for intracerebral injections, assistance in surgeries for electrode and flexible probe implantation, brain stimulation protocols, transcatheter perfusion, cryostat sectioning and histological stainings, optical and confocal microscope, production of cannulas and electrodes, behavioral tests, western blot, electrophoresis, and Real-time PCR.

CERTIFICATES

- *Apr 2023* - Practical training course "Basic and appropriate biology"- Module 3.2; "Humane methods of killing"- Module 6.2; "Minimally invasive procedures without anaesthesia" - Module 8; D.M. August the 5th 2021 Species: *Mus musculus*, *Rattus norvegicus*. [Funzioni a, c, d, del Decreto Legislativo 26/2014. a)12 CFP; c)12 CFP; d)12 CFP] – UNIMORE Animal Facility
- *Oct 2022* - Course FAD IZSLER in "ETICA E CONCESSIONE DEI PROGETTI, MODULI 9, 10, 11, DM AGOSTO 2021", **9 ECM**
- *Sep 2022* - Course FAD IZSLER in "LEGISLAZIONE NAZIONALE ED ETICA LIVELLO 1, MODULI 1 E 2, DM 5 AGOSTO 2021", **7.5 ECM**
- *Sep 2022* - Course FAD IZSLER in "BIOLOGIA E GESTIONE DEGLI ANIMALI DA LABORATORIO, MODULI 3.1, 4, 5, 6.1, 7. DM 5 AGOSTO 2021 RODITORI E LAGOMORFI", **19.5 ECM**
- *Mar 2022* - Online Linguistic Support Test (OLS, English level assessment for Erasmus Program: C1)
- *Nov 2021* - Course FADsicurMORE in "Smart working: conciliazione con la vita familiari, aspetti ergonomici e rischi psicosociali"
- *Nov 2021* - Course FADsicurMORE in "Riconoscere e contrastare gli effetti del Covid-19 per una buona convivenza lavorativa"
- *Oct 2021* - Charles River webinar: "Animal welfare and its impact on scientific research"
- *Nov 2017* - Course FADsicurMORE in "Formazione specifica per rischio Medio"
- *Nov 2017* - Course FADsicurMORE in "Formazione specifica per rischio basso"
- *Oct 2017* - Course FADsicurMORE in "Formazione generale alla prevenzione e alla sicurezza sul lavoro"

I give consent to process my data with the purpose of the recruitment process, in accordance to the Regulation of the European Parliament 679/2016, regarding the protection of natural persons and free movement of such data.

Modena, 15/05/2024

