

Dr. Elsa FABBRETTI

Research Associate

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EDUCATION***Education and Professional Qualifications***

- 1993 University Degree in Biological Sciences at University of Trieste, Italy, with a research project carried out at Inter University Consortium of Biotechnology (CIB, Trieste, Italy).
Thesis: “*Analisi del ruolo biologico del gene gas3 /Analysis of the biological role of gas3 gene*” (supervisor prof. R. Marzari and prof. C. Schneider). Published.
- 1994 Habilitation to Biology profession.
- 1995 Sprejemni izpit: Molecular Genetics PhD program, International Centre for Genetic Engineering and Biotechnology (ICGEB, Trieste Italy).
- 2001 Ph.D. in Molecular Genetics, International School of Advanced Studies (SISSA, Trieste, Italy).
Thesis: “*Rotavirus NSP2-NSP5 interaction: biological consequences*” (supervisor prof. O. Burrone).

Academic Awards/Research Grants

- 2009-2012 Slovenian Research Agency (ARRS): “*Molecular neurobiology of chronic trigeminal pain: a study of cellular and signaling mechanisms involved in pain transduction*” (3 years).
- 2009 CRP research grant ICGEB: “*Pesticides and neuronal sensitization : a pilot study*” (3 years).
- 2008 Area Science Park, fellowship (1 year): “*Caratterizzazione degli effetti di fosforilazione e defosforilazione nella funzione del recettore P2X3*”.
- 2007 Area Science Park, fellowship for Dr. Rita Abbate (1 year): “*Caratterizzazione morfologica ultrastrutturale e nanomicroscopica di neuroni di topi geneticamente modificati CGRP +/- e loro interazione con mediatori infiammatori*”.
- 2006-2008 Grants of Local authority Regione Friuli Venezia Giulia: “*Lo sviluppo della microscopia a sonda quale nuova tecnologia in campo biomedico*”.
- 2006 Area di Ricerca, Mobility project for my visiting period at Institute Curie, Paris.
- 2006 Area Science Park, Mobility project for short visit period at SISSA.
- 1995 PhD fellowship.
- 2001 Fellowship SISTER.

EMPLOYMENT

- 2009 Researcher, University of Nova Gorica (Slovenia).
- 2002-2009 Senior researcher at Neurobiology Sector, SISSA, Trieste, Italy
- 2006 Short-term visiting scientist at Institute Curie, INSERM Unit 653 (Immunity and cancer) Paris, France.
- 2001-2002 Fellow at Laboratory of Rare Diseases of Children Hospital Burlo Garofalo, Trieste, Italy.
- 1995-2001 PhD student SISSA : course in Molecular Genetics and Biotechnology, ICGEB program, Molecular Immunology Laboratory
- 1992-1995 Student and pre-doctoral fellow, CIB, Trieste, Italy.

Principal investigator of research projects:

- 2009 Principal investigator, Laboratory for Environmental Research, University of Nova Gorica, Slovenia.
- 2004-2009 Principal investigator within the project of Molecular mechanism of pain receptors on sensory neurons (Telethon project), at Neurobiology Sector at SISSA, Trieste, Italy.

Published work: Full list of Elsa Fabbretti's published work, scientific articles, abstract of conferences, and thesis dissertation is available on SICRIS database (code 30917). Up to 2009, Total citation number of Elsa Fabbretti's scientific articles is 389 (IsiWebScience).

Pedagogical activities:

- 2005- Lectures at University of Trieste (Biotechnology Faculty, Master in Neuroscience, Medical Faculty), University of Siena, Ferrara, Milan, Bordeaux.
- 2006, 2007 Lectures at SISSA Neurobiology sector, potgraduate course (*Protein analysis*).
- 2005-2009 tutor of research projects of graduate and postgraduate students at SISSA
- 2003-2009 mentor of undergraduate students (Univ. Trieste and Bologna) and co-mentor of PhD students at SISSA

Work in expert commissions:

- 2009 Organiser of the conference session "*Physiology and Pathophysiology of Purinergic Signalling*" at the Meeting of the Federation of European Physiological Societies (FEPS 2009) in Ljubljana (Nov 2009, Slovenia).
- 2005-2009 Management committee of project Scanning near field microscopy, SNOM ("*Lo sviluppo della microscopia a sonda quale nuova tecnologia in campo biomedico*" University of Trieste, University of Udine, SISSA, APE research)
- 2004-2009 Management committee of project about molecular mechanisms migraine pain ("*Role of ATP as transmitter of pain in migraine*", SISSA, University of Milan, University of Leiden).
- 2004 - 2009 Co-supervisor of PhD students at SISSA (A. Gnanasekaran 2008-current, A. Franceschini 2007-current,; M. D'Arco 2004-2008, M. Simonetti, 2004-2008).
- 2003 – 2009 Co-supervisor of undergraduate students (G. Bianchini, 2009-current ; L. Apicella 2009; N. Birsa 2008; L. Masten, 2004).
- 2007 Affiliation of Society of Neuroscience
- 2005-current Collaboration with national and international research groups (Italy, France, Holland, Canada).
- 2005-current Reviewer of international Journals (*Journal of Neurochemistry, Purinergic signalling, FEBS Journal, Disease Markers, Journal of Pediatric Neurology, Journal of Pediatric Biochemistry, Neurosignals, Molecular Pain*).
- 2007 Divulcation activities.

Active fields of investigation

- Characterization of cellular elements involved in P2X3 receptor modulation in trigeminal neurons
- Changes in Synaptic and Scaffolding proteins in pain conditions
- Tactile hypersensitivity syndromes related to environmental pollutants and chemicals
- Inflammatory components in trigeminal ganglia
- Study of trigeminal neuron components in migraine pain (in collaboration with SISSA Trieste Italy)
- Importance of splicing variants in pain diseases (in collaboration with ICGEB Trieste Italy).

CURRENT PROJECTS

ARRS Project
J3-2376

Molecular neurobiology of chronic trigeminal pain: a study of cellular and signaling mechanisms involved in pain transduction

(University of Nova Gorica, Nova Gorica) 1.5.2009 - 30.4.2012