



SARA MARINELLI

Lavoro : Via E. Ramarini, 32, 00015, Monterotondo Rm, Italia

E-mail: sara.marinelli@cnr.it **Telefono**: (+39) 0690091477

Data di nascita: 1976 **Nazionalità**: Italiana

ESPERIENZA LAVORATIVA

[02/01/2008 – Attuale]

Researcher

Consiglio Nazionale delle Ricerche

Research Experience

From 11/2019 to today: Institute of Biochemistry and Cell Biology, CNR, Rome, Italy.
Researcher

From 02/2008 to 11/2019: Cell Biology and Neurobiology Institute, CNR, Rome, Italy.
Researcher

From 03/2016 to 09/2016: parental leave

From 07/2008 to 02/2009: parental leave

From 08/2007 to 01/2008: Neuroscience Institute, CNR, Rome Italy. Post-doc position,
Supervisor: Dr. Flaminia Pavone. Neuropathic and inflammatory pain.

From 06/2007 to 08/2007: Institute of Pharmacology, Polish Academy of Sciences,
Krakow, Poland. Short term Fellowship. Supervisor: Prof. Barbara Przewlocka. Therapeutic
use of Botulinum neurotoxin in pain.

From 01/2007 to 06/2007: Neuroscience Institute, CNR, Rome Italy. Post-doc position,
Supervisor: Dr. Flaminia Pavone. Therapeutic use of toxins in pain.

From 01/2006 to 12/2006: Neuroscience Institute, CNR Rome, Italy. Fellowship granted
LayLineGenomics S.p.A.(Biotech). Post-doc position, supervisors Dr. Flaminia Pavone and
Prof. Antonino Cattaneo, anti-NGF and anti-TrkA antibodies against pain.

ISTRUZIONE E FORMAZIONE

[10/2002 – 12/2005]

PhD in Psychobiology and Psychopharmacology

Sapienza University of Rome (Italy),

[09/1995 – 12/2001]

Master, Experimental Psychology

Sapienza University of Rome (Italy)

Training course EUROPEAN PAIN SCHOOL. FENS, IBRO, EFIC University of Siena.2003

Advanced training course PHYSIOLOGICAL IMAGING CNR. Neuroscience Institute, Scuola Normale Superiore, Pisa, Italy 2006

Advanced training course. SCIENCE OF ANIMALS LAB. FELASA. CNR, IRCCS S. Lucia Foundation, Tor Vergata University of Rome, EBRI, Rome - Italy, 2014

Advanced training course. PATENTS AS TOOL OF STRATEGIC MANAGEMENT IN INTELLECTUAL PROPERTY. RIDITT – Ministero dello Sviluppo Economico – IPI (Istituto Promozione Industriale). 2010

Advanced training course. USE OF "R" SOFTWARE FOR STATISTICS IN BIOMEDICINE RESEARCH. S. Lucia Foundation, CNR – Rome. 2018

COMPETENZE LINGUISTICHE

Lingua madre: Italian

Altre lingue:

English

ASCOLTO B2 LETTURA C1 SCRITTURA C1

PRODUZIONE ORALE B1 INTERAZIONE ORALE B2

Livelli: A1 e A2: Livello elementare B1 e B2: Livello intermedio C1 e C2: Livello avanzato

COMPETENZE DIGITALI

Padronanza del Pacchetto Office (Word Excel PowerPoint ecc) | Gestione autonoma della posta e-mail | Windows | Google | Utilizzo del browser | Android | Elaborazione delle informazioni | ECDL Full Standard certificate | Competenze di base del software di analisi statistica R (Rstudio) | Conoscenza di base dei pacchetti di analisi statistica R, SPSS e StatView

OTHER EXPERIENCE

Relevant Activities

Honors or Awards: 01/09/2007 Travel grant SINS Verona; 01/02/2008 Young Ideas Change Italy - Presidency of the Council of Ministers – Ministry of Youth (POGAS); 01/03/2015 SIMPAR Award "Young Against Pain" 30 best projects in pain therapy; 01/09/2015 Art or Science – IMMAGINARIO SCIENTIFICO – Winner best scientific image – Exposition Trieste Next;

Invited lecture: 01/06/2007 CNR Neuroscience Conference – "Botulinum Neurotoxins: an innovative approach for pain therapy". Cagliari, Italy; 01/04/2010 CNR Science of life Dept. "Botulinum neurotoxin type A counteracts neuropathic pain and facilitates functional recovery after peripheral nerve injury in animal models" Rome, Italy; 01/10/2013 SINS Congress. "Autophagy in the peripheral nervous system: a modulatory role in the onset and chronicization of neuropathic pain". Rome, Italy; 01/07/2016 IZSLER Istituto Zooprofilattico Sperimentale della Lombardia ed Emilia-Romagna, AISAL "The animal pain: evaluation and severity of procedures" - "The most utilized murine models of pain"; 07/05/2019 Innovagorà – Italy. "New therapeutic use of Botulinum neurotoxin in spinal cord injury". Milan – Italy; virtual IASP Congress June 2021 –Workshop "Autophagy: a new puzzle piece in chronic pain mechanisms"; virtual European Glial Meeting July 2021 Symposium "Schwann cells autophagy: fast and immediate clearance of aggregates for counteracting peripheral neurodegeneration"

Member of the the scientific board "Neurospine" 2021 (VI International Workshop)

Participation in Panel discussion "TeleMediCare" 1-2-3 October 2021 special session on assistive, rehabilitative and regenerative technologies.

Teaching Activity: From 3/12/2007 to 5/12/2007 - CNR – Neuroscience Institute. Advanced course: Behavioural Neuroscience; From 2006 to 2021 invited lesson - Sapienza Università di Roma – Facoltà Scienze Matematiche Fisiche e Naturali (FF.MM.NN) – Roma - CLM Neurobiology –to Behavioural Methods - Lesson: Methods and techniques in pain studies.

Editor

Associate Editor: Frontiers in Neurology section Multiple Sclerosis and Neuroimmunology

Special Issue Editor: MDPI - IJMS "The Multiple Mechanisms Underlying Neuropathic Pain" https://www.mdpi.com/journal/ijms/special_issues/metabolic_neuropathic_pain#editors

Membership

Italian Society of Neuroscience (SINS), International Study of Pain (IASP), Federation of European Neuroscience Society (FENS), European Foundation for the Study of Diabetes (EFSD)

PROGETTI

On-going Research Support

2022 - 2024 NUTRAGE CNR (Principal Investigator)

Research financial Support (Completed Research)

2021-2022 SCI-BTXA From science to the compound, last steps toward the clinical phase of the Botulinum Neurotoxin in the spinal cord lesion therapy. POC MISE - Proof of Concept - Ministero dello Sviluppo Economico CUP C86I20000160004 SAC.AD002.202.007 **(Principal Investigator)**

2019-2021 Novel pharmacological approaches study on motor function recovery in animals models of spinal cord injury. (CNR - DSB.AD001.122) **(Principal Investigator)**

2014 - 2019 YOUNG RESEARCHER 2011- Italian Ministry of Health - GR2011-02346912. **Principal Investigator** "Cell autophagy modulation via energy balance regulation: age-dependent outcomes on inflammation, axon regeneration and neuropathic pain in murine models of peripheral nerve lesion".

2014 IASP - Early Career Research Grant Program 2014- **Principal Investigator** - "Botulinum Neurotoxin type A as pharmacological tool for controlling pain and inflammation in murine model of spinal contusion: effects on spinal cord regeneration".

2011 YOUNG RESEARCHER 2008- Italian Ministry of Health - GR-2008-1137604. **Participant**. PI Dr. Silvia Marinelli. Project title: "Role of cannabinoid and vanilloid receptors in the central mechanism of neuropathic pain"

2008 - PRIN 20088NJR3B_002 - Ministry of Education and Research. **Participant**. PI Dr. Caterina Aurilio. Unit's coordinator: Dr. Flaminia Pavone. Project title: "Dolore neuropatico e differenze sessuali: indagini sul ruolo degli ormoni gonadici in modelli animali".

2007 "GIOVANI IDEE CAMBIANO L'ITALIA"- Presidency of the Council of Ministers - Ministry of Youth. Inventor and Coordinator. Project title: "Il modulo multilingue - Multi-languages Form" in the field of social utility and civil commitments.

2007 CNR/PAN (Poland) "Animal model for the physiopathological studies of CNS: molecular, neuroclinical and psychopharmacological investigation" Scientific cooperation agreement between CNR and Polish Academy of Science 2007-2009 . **Fellowship**.

2005 - 2008 FILAS-Regione Lazio 5/06/2006 N. 0000569. Collaboration Agreement among CNR, IRCCS Santa Lucia Foundation, European Brain Research Institute, Regione Lazio, Filas S.p.A. "Development of brain research". **Fellowship**.

2003 - 2005 FISR 20/10/2004 N. 020812 - N. 020802 CNR/MIUR "Physiopathology of nervous tissue: biomedicine and biotechnology aspects". Fellowship

PUBBLICAZIONI

Total peer-reviewed articles: 48 Patents: 4

more info on <https://orcid.org/0000-0001-5393-4796>