

## PERSONAL INFORMATION

## Alessandra Consonni

📍 Fondazione IRCCS Istituto Neurologico Carlo Besta  
UO Neurologia IV  
Via Amadeo 42, 20133 Milano

✉ [alessandra.consonni@istituto-besta.it](mailto:alessandra.consonni@istituto-besta.it)

Gender: F | Nationality: Italian

ORCID: <https://orcid.org/0000-0002-6610-764X>

## WORK EXPERIENCE

From 31/12/2019 - today

### Italian NHS Researcher

Foundation IRCCS Istituto Neurologico Carlo Besta (UO Neurology IV – dr. Renato Mantegazza)

- Project leader: pathogenetic mechanisms and immunomodulation in experimental models of immune-mediated neurological diseases; microbiota analysis using 16S NGS methods

From 28/12/2018 – to 30/12/2019

### Contract researcher

Foundation IRCCS Istituto Neurologico Carlo Besta (UO Neurology IV – dr. Renato Mantegazza)

- Study of the role of the purinergic receptor P2RY12 in oligodendrocytes and immune cells in a combined neurodegenerative autoimmune model of multiple sclerosis.

From 20/07/2018 – to 27/12/2018

### Contract researcher

Foundation IRCCS Istituto Neurologico Carlo Besta (UO Neurology IV – dr. Renato Mantegazza)

- Experimental autoimmune myasthenia: translational model for the study of immunopathogenetic mechanisms and the identification of target molecules for innovative pharmacological and cellular therapies.

From 05/05/2017 – to 30/04/2018

### Research Fellowship

Foundation IRCCS Istituto Neurologico Carlo Besta (UO Neurology IV – dr. Renato Mantegazza)

- Autoimmune neuromuscular diseases: molecular characterization and study of pathogenetic mechanisms in cellular or experimental models.

From 11/05/2016 – to 30/04/2017

### Research Fellowship

Foundation IRCCS Istituto Neurologico Carlo Besta (UO Neurology IV – dr. Renato Mantegazza)

- Autoimmune neuromuscular diseases: molecular characterization and study of pathogenetic mechanisms in cellular or experimental models.

From 01/05/2015 – to 30/04/2016

### Research Fellowship

Foundation IRCCS Istituto Neurologico Carlo Besta (UO Neurology IV – dr. Renato Mantegazza)

- Immune-mediated and inflammatory disorders of the nervous system: study of immunopathogenetic mechanisms in experimental and cellular models.

From 01/05/2014 to 30/04/2015

### Research Fellowship

Foundation IRCCS Istituto Neurologico Carlo Besta (UO Neurology IV – dr. Renato Mantegazza)

- Immune-mediated and inflammatory disorders of the nervous system: study of immunopathogenetic mechanisms in experimental and cellular models.

From 01/05/2013 to 30/04/2014

### Research Fellowship

Foundation IRCCS Istituto Neurologico Carlo Besta (UO Neurology IV – dr. Renato Mantegazza)

- Immunopathogenetic mechanisms of immune-mediated and inflammatory diseases of the central and peripheral nervous system: experimental models.

From 19/01/2013 to 30/04/2009

### Postdoctoral Fellowship

San Raffaele Hospital, Neuroscience Division (Cellular Neurophysiology - Prof. Fabio Grohovaz)

- Study of the activated phenotype of microglial cells for the characterization of specific markers of the neuroinflammation process in neurodegenerative diseases.

From 01/11/2009 to 18/01/2013

### PhD Fellowship

San Raffaele Hospital, Neuroscience Division (Cellular Neurophysiology - Prof. Fabio Grohovaz)

- Study of the glial cell activation process in vitro; study of the role of neuropeptides in the inflammatory processes characteristic of neurodegenerative diseases.

From 01/11/2007 to 31/10/2009

### Contract researcher

San Raffaele Hospital, Neuroscience Division (Cellular Neurophysiology - Prof. Fabio Grohovaz)

- Study of the mechanisms of interaction between astrocytes and microglia in the context of neurodegenerative diseases.

From 01/09/2006 to 23/09/2007

### Experimental thesis internship

San Raffaele Hospital, Neuroscience Division (Cellular Neurophysiology - Prof. Fabio Grohovaz)

- Study of the expression and activity of beta-secretase and analysis of the effects of beta amyloid in astrocyte cells.

## EDUCATION AND TRAINING

From 02/11/2019 - today

### Post Graduate school in Microbiology and Virology

Università degli Studi di Pavia (Director Prof. Fausto Baldanti)

- Internship at the Microbiology and Virology Unit of ASST Lecco (A. Manzoni Hospital - Contact person: Dr. Francesco Luzzaro). Methods in bacteriology and diagnostic molecular biology.

29/11/2017

### National order of biologist registration

Università degli Studi di Pavia

18/01/2013

### PhD in Neurobiology

Università degli Studi dell'Insubria, Varese - San Raffaele Hospital, Neuroscience Division

- Characterization of neuroinflammatory processes in neurodegenerative diseases. Methods of cellular, molecular and biochemical biology.

23/09/2007

### Master's Degree in Medical, Molecular and Cellular Biotechnologies

Università Vita-Salute San Raffaele, (UO Cellular Neurophysiology – Prof. Fabio Grohovaz)

- Characterization of beta secretase activity and study of the effects of beta amyloid in astrocytes. Methods of cellular, molecular and biochemical biology

26/09/2005

### Bachelor's Degree in Medical and Pharmaceutical Biotechnologies

Università Vita-Salute San Raffaele, (UO Cellular Neurophysiology – Prof. Fabio Grohovaz)

- Sphingosylphosphocholine and its possible neurotoxic role in the pathogenesis of Niemann Pick type A disease. Critical reading of scientific articles

07/2002

### Linguistic High School Diploma

Istituto Beata Vergine Maria, Merate

## ACHIEVEMENTS AND AWARD

### Grants

- 2016. Co-PI Young Researcher. Ministry of Health. Code: GR-2016-0236132. "Role of the purinergic receptor P2RY12 in oligodendrocytes and immune cells in a combined neurodegenerative autoimmune model of Multiple Sclerosis".
- 2014. Collaborator in Senior Grant Cariplo. CARIPLO Foundation.

"Understanding the role of  $\beta$ -amyloid Peptide HAlogenation in AlzhEimer's DiseAse (PHAEDrA)"

## TEACHING ACTIVITY

---

October 2010

Tutor in the didactic laboratory "Protein expression and purification II" of the course of Medical and Pharmaceutical Biotechnology, Vita-Salute San Raffaele University, Milan.

## TECHNICAL SKILLS

---

Molecular biology methods; cell biology (primary cultures from the nervous and immune systems); biochemistry; flow cytometry; histopathology and immunofluorescence; super-resolution microscopy, live imaging and in vivo-microscopy; induction of experimental models of autoimmune and neurodegenerative diseases; sequencing techniques (16S NGS metagenomics).  
Leadership of self-managed research projects; writing of scientific articles; writing of scientific projects; tutoring of students, fellows and doctoral students in universities and research institutes.  
Scientific Responsible and Executor of animal experimentation projects.