

## **Marta Gómez-Gonzalo, PhD**

### **Work Address**

Istituto di Neuroscienze - Sede di Padova, CNR  
c/o Dipartimento di Scienze Biomediche, Università di Padova  
Viale G. Colombo, 3, 35131, Padova, Italia  
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### **Scientific Expertise**

Study of the reciprocal interaction between neuros and astrocytes in physiology (hippocampal, cortical and dopaminergic circuits) and pathology (epilepsy), with different ex vivo and in vivo technical approaches: electrophysiology (single and dual whole-cell patch clamp recordings and field potential recordings in ex vivo rodent brain slices), calcium imaging (single-photon laser scanning confocal microscopy in ex vivo rodent acute brain slices, two-photon microscopy for in vivo imaging and in ex vivo rodent acute brain slices), intracranial injection of adeno-associated viral vectors in rodents, and behavioral test (open field test, conditioned place preference test)

### **Bibliometric indicators (Google Scholar/Scopus)**

Published Articles/Reviews/Chapters in book/Comments: 24/2/2/1  
Citations: 2882/2007  
H-Index: 21/18

### **Supervision of PhD students**

Supervision PhD Program in Biomedical Science, 37° cycle (2021/2022-2023/2024), c/o Dip. Scienze Biomediche, Università di Padova, “Exploring the role of astrocytes in dopaminergic circuits”  
Co-supervision PhD Program in Biomedical Science, 33° cycle (2017/2018-2020/2021), c/o Dip. Scienze Biomediche, Università di Padova, “Reciprocal Signaling between Specific GABAergic interneurons and Astrocytes”  
Co-supervision PhD Program in Biomedical Science, 30° cycle (2014/2015-2017/2018), c/o Dip. Scienze Biomediche, Università di Padova, “Astrocyte modulation of synaptic transmission in the reward circuitry of the Ventral Tegmental Area”

### **Education**

PhD in Biological Sciences  
2002, Universidad Autónoma de Madrid, Departamento de Bioquímica y Biología Molecular  
“Mechanisms of transcriptional regulation mediated by the human hepatitis B and C viruses”  
Score: Sobresaliente “*cum laude*”  
Master of Science in Biological Sciences  
1997, Universidad Autónoma de Madrid  
Equivalence (Decreto rectoral Rep. n. 1062/2016, 14/04/2016) to “Laurea Magistrale in Biologia Molecolare (LM6, Classe delle Lauree in Biology-D.M. 270/04)”, Score of equivalence: 110/110

### **Work Experience**

Researcher, 12/2018 to date  
Istituto di Neuroscienze, CNR, c/o Dipartimento di Scienze Biomediche, Università degli Studi di Padova  
Postdoctoral position, 08/2013 to 12/2018  
Dr. Giorgio Carmignoto’s laboratory, Istituto di Neuroscienze, CNR,  
c/o Dipartimento di Scienze Biomediche, Università degli Studi di Padova  
Postdoctoral position, 06/2010 to 06/2013  
Dr. Alfonso Araque’s laboratory, Departamento de Neurobiología Funcional y de Sistemas,  
Instituto Cajal, CSIC, Doctor Arce, 37, 28002, Madrid, Spain  
Postdoctoral fellow, 10/2004-06/2010  
Dr. Giorgio Carmignoto’s laboratory, Istituto di Neuroscienze, CNR  
Dipartimento di Scienze Biomediche Sperimentali, Università degli Studi di Padova  
Postdoctoral fellow, 12/2002-09/2004  
Dr. Manuel López-Cabrera’s laboratory, Unidad de Biología Molecular  
Hospital Universitario de la Princesa, Diego de León, 62, 28006, Madrid, Spain  
Short stay, 13/05/1999-04/08/1999  
Dr. Michael M. C. Lai’s laboratory, Howard Hughes Medical Institute  
Department of Molecular Microbiology and Immunology  
University of Southern California, 2011 Zonal Avenue, HMR 401, Los Angeles, California  
PhD student, 09/1997-11/2002  
Dr. Manuel López-Cabrera’s laboratory, Unidad de Biología Molecular  
Hospital Universitario de la Princesa, Diego de León, 62, 28006, Madrid, Spain  
Study of hepatitis B and C viral transactivators, with cellular and molecular biology techniques: cell cultures, transfection, immunofluorescence, transcription-related assays (luciferase reporter assays, EMSA), Northern blot, RT-PCR and real-time PCR, cloning techniques, protein-protein interaction assays (co-immunoprecipitation, pull-down assays), western blot, in vitro mutagenesis, in vitro acetylation assays