

BIOGRAPHICAL SKETCH

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NAME: Marraudino, Marilena

eRA COMMONS USER NAME (credential, e.g., agency login): mmarraud

POSITION TITLE: Postdoctoral Fellow

EDUCATION/TRAINING (*Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable. Add/delete rows as necessary.*)

INSTITUTION AND LOCATION	DEGREE	Start Date MM/YYYY	Completion Date MM/YYYY	FIELD OF STUDY
University of Pisa	BS	09/2007	03/2011	Molecular Biology
University of Pisa	MS	04/2011	07/2013	Neurobiology
University of Turin	PhD	02/2014	02/2018	Neuroscience
University of Turin	Postdoctoral	09/2007	11/2023	Neuroendocrinology
University of Turin	Assistant Professor	12/2023	present	Human Anatomy

A. Personal Statement

My academic training and research experience have provided me with an excellent background in multiple biological disciplines including molecular biology, neurobiology, neuroendocrinology, and animal behavior. During my PhD, I attended my doctoral studies at the University of Turin in Panzica's lab, Laboratory of Neuroendocrinology, University of Turin from 2014 to 2018. My PhD thesis was focused on the studies of behavioral and hypothalamic neural systems related to reproduction and metabolic regulations. After the PhD, I became a postdoctoral fellow at the Department of Neuroscience, University of Turin, in my laboratory at the Neuroscience Institute Cavalieri Ottolenghi (NICO) in Orbassano (TO), where I'm working as an Assistant Professor. In these years, I followed several lines of research, contributing significantly to studies on the role of endocrine disruptors.

B. Academic training and research experience, Scientific Appointments, and Honors**Grant awarded**

2024-2026. CRT - Bando Erogazioni Ordinarie 2024 (€25000). PI of the project: 'Phytoestrogens and hypoprotein diets in mothers with Anorexia Nervosa, what are the alterations for the neurodevelopment of the offspring?'

2022-2024. BBRF Young Investigator Grants, Brain & Behavior Research Foundation (\$70,000), PI of the project: 'Soy: a good nutritional supplement in anorexia nervosa during pregnancy on the health of mothers and offspring?'

Fellowships

2021/2023. Annual Post-Doctoral Fellowship awarded Umberto Veronesi Foundation, Neuroscience Institute Cavalieri Ottolenghi (NICO), Orbassano (TO), University of Turin.

2018/2020. Post-Doctoral Fellowship, Department of Neuroscience 'Rita Levi Montalcini', University of Turin.
2017. Training stay. Universidad Europea de Madrid, Basic Biomedical Science, Madrid, Spain.
2016/2017. Research Scholarships, CRT Foundation. Department of Neuroscience 'Rita Levi Montalcini', University of Turin.
2016. Cost Action GnRH Network, Short-term Scientific Missions, Cajal Institute, Madrid, Spain.
2016. Grant Erasmus+, National Distance Education University (UNED), Madrid, Spain.
2015. Cost Action GnRH Network, Short-term Scientific Missions, INRA, Neuroendocrinologie des Interactions et Comportements Sexuels, Tours, France.

Travel grants

2023. Federation of European Neuroscience Societies (FENS), Regional Meeting, Algarve, Portugal.
2019. Federation of European Neuroscience Societies (FENS), Regional Meeting, Belgrade, Serbia.
2018. Federation of European Neuroscience Societies (FENS), 11th FENS Forum of Neuroscience, Berlin, Germany.
2017. Società italiana Neuroscienze (SINS), XVII National Congress, Ischia, Italy.
2015. Cost Action GNRH Network, Training school, Prato, Italy.
2014. Gruppo Italiano per lo Studio della Neuromorfologia, XXIV National Congress G.I.S.N., Bologna, Italy.

Honors

2022. Best oral communication. 94th National Congress of Italian Society of Experimental Biology.
2020. 4th Place Prize for 9th edition of 'Premio Nazionale Giovedìscienza'.
2019. Nominated for 'Aldo Fasolo Award', communication in Neuroscience.
2019. Prize awarded for the best poster presented at the 10th International Meeting Steroids and Nervous System, Turin, Italy.
2014/2015. Grant EDISU Piemonte, University of Turin.
2013. Grant for thesis of master's degree by ECOMAP.

Teaching activities

A.Y. 2023/24. Professor of Anatomical and neuroendocrine bases of behavior, Natural Sciences, Natural Systems Science, degree course of Evolution of animal and human behavior. University of Turin.
A.Y. 2017/18 to 2023/24. Contract professor of *Histology*; International College of Osteopathic Medicine (ICOM), Turin, Italy.
A.Y. 2022/23. Contract professor of Neuroanatomy and Neurodevelopment, University of Insubria, Department of Biotechnology and Life Sciences, degree of Biomedical Sciences.
A.Y. 2022/23. Contract professor within Master in Psychoneuroendocrinoimmunology, University of Turin, Department of Medical Sciences, first level Master's Psychoneuroendocrinoimmunology.
A.Y. 2019/20 - 2020/21. Contract professor of *Neuroanatomy and Imaging*; University of Turin, Department of Life Sciences and Systems Biology, degree course of Cellular and Molecular Biology.
A.Y. 2017/18 to 2020/21. Teaching assistant of *Human Anatomy*; University of Turin - Faculty of Medicine, Department of Surgical Sciences, degree course of "Tecniche Audiometriche", of "Tecniche Audioprotesiche" and of Neurophysiopathology.

Organization of scientific meetings

2024 12th International meeting Steroids and Nervous system. Educational committee member.
2022 11th International meeting Steroids and Nervous system (Virtual Meeting).
2021 Virtual Meeting Steroids and Nervous System
2019 10th International meeting Steroids and Nervous system, Turin, Italy
2019 Satellite Symposium: Steroids and the Nervous System: Past and Future, Turin, Italy
2017 9th International meeting Steroids and Nervous system, Turin, Italy

2017 Satellite Symposium: Neuroactive steroids and metabolic axis, Turin, Italy
2015 8th International meeting Steroids and Nervous system, Turin, Italy
2015 Satellite Symposium: Gender Differences on Neurodegenerative and Psychiatric Disorders, Turin, Italy

Institutional responsibilities

2018. Elected member of 'Consiglio di Dip. Neuroscienze 'Rita Levi Montalcini', University of Turin, Italy.

Member of scientific societies

since 2022 - Società Italiana di Biologia Sperimentale (SIBS)
since 2021 - Mediterranean Neurosciences Society (MNS)
since 2016 - Società Italiana Neuroscienze (SINS)
since 2014 - Gruppo Italiano Studio Neuromorfologia (GISN)

Member of the reviewer board

since 2023 - Topical Advisory Panel Member of our section "Molecular Endocrinology and Metabolism" in the International Journal of Molecular Sciences (IJMS) of Multidisciplinary Digital Publishing Institute (MDPI).
since 2020 - Member of the Reviewer Board of Multidisciplinary Digital Publishing Institute (MDPI).

C. Contributions to Science

Invited oral communication

16/07/2024 - Invited to the 5th Edition of World Congress on Endocrinology, Diabetes, and Metabolism (EDM-2024 Congress), Vienna, Austria, Jul 15 - 16, 2024, with the communication 'Low-dose perinatal treatment with Bisphenols (BPA or BPS) alters maternal care in dams and reproductive behavior in adult offspring mice'

30/05/2022 - Invited to the Symposium 'The brain as a target for endocrine-disrupting chemicals', 8th Mediterranean Neuroscience Society Conference, Dubrovnik, Croazia, May 29 to June 2, 2022, with the communication '*Genistein: a new Metabolism Disrupting Chemical*'. M. Marraudino, G. Ponti, M. Keller, G.C. Panzica.

Oral communications

- 1. M. Marraudino**, B. Bonaldo, M. Paiano, G. Tanese, G.C. Panzica, P. Collado, H. Pinos, S. Gotti. Early postnatal treatment with estrogen receptor antagonists: sexually dimorphic organizational effects. 74° Congresso Nazionale della Società Italiana della Biologia Sperimentale (SIBS). Turin, Italy, April 6–9, 2022.
- 2. M. Marraudino**, G. Ponti, A. Farinetti, E. Macchi, S. Gotti, P. Collado, M. Keller, G.C. Panzica. Early postnatal genistein administration affects neural circuits controlling food intake in cd1 mice. 94° Congresso Nazionale della Società Italiana di Anatomia e Istologia (SIAI). Edizione ibrida, Bologna, Italy, September 24-25, 2021.
- 3. M. Marraudino**, B. Bonaldo, M. Paiano, G. Tanese, G.C. Panzica, H. Pinos, P. Collado, S. Gotti. Organizational role of estradiol on hypothalamic circuits that control feeding behavior and energy metabolism. *Morfologia e dintorni* 3° incontro nazionale. September 26, 2020.
- 4. M. Marraudino**. Genistein, a new metabolic endocrine disruptor: overview of postnatal administration on Hypothalamic Neuroendocrine Circuits. *Morfologia e dintorni* 2° incontro nazionale. Turin, Italy, February 22-23, 2020.
- 5. M. Marraudino**, A. Farinetti, M. Arevalo, S. Gotti, G.C. Panzica, L.M. Garcia-Segura. Sexually dimorphic effect of genistein on hypothalamic neuronal differentiation in vitro. 29th National Conference of the Italian Group for the Study of Neuromorphology (G.I.S.N.), Bari, Italy, November 15-16, 2019.
- 6. M. Marraudino**, M. Paiano, B. Bonaldo, A. Farinetti, G. Ponti, G.C. Panzica, P. Collado, S. Gotti. Postnatal treatment of estrogen receptor antagonists alters sexual and feeding behavior

in male and female mice. 45th Workshop on: Sex Differences, Dimorphisms, Divergences: Impact on Brain and Behavior in Health and Disease, Erice, Trapani, Italy, May 20/25, 2019.

7. **M. Marraudino**, B. Carrillo, E. Campioli, B. Bonaldo, H. Pinos, LM. Garcia-Segura, G.C. Panzica, P. Collado, D. Grassi. GPER neuronal and glial cells expression in the hypothalamus of adult rats: sexually dimorphic distribution and differences during the estrous cycle. XXVIII Convegno Nazionale G.I.S.N., Florence, Italy, November 30 – December 1, 2018.
8. **M. Marraudino**, G. Ponti, A. Farinetti, S. Gotti, M. Keller, P. Collado, G.C. Panzica. The sexually dimorphic obesogenic effect of early postnatal genistein administration on CD1 mice. IX International Meeting Steroids and Nervous System, Turin, Italy, February 11/15, 2017.
9. **M. Marraudino**, G. Ponti, A. Farinetti, S. Gotti, M. Keller, P. Collado, G.C. Panzica. The sexually dimorphic obesogenic effect of early postnatal genistein administration on CD1 mice. XXVI Convegno Nazionale G.I.S.N., Verona, Italy, November 24/25, 2016.
10. **M. Marraudino**, A. Farinetti, E. Troisi, D. Miceli, S. Gotti, G.C. Panzica (2015) Kisspeptin and Paraventricular Nucleus: effects of bisphenol A on CD1 female mice. XXV Convegno Nazionale G.I.S.N., Rome, Italy, November 27/28, 2015.
11. **M. Marraudino**, A. Farinetti, D. Miceli, S. Gotti, G.C. Panzica (2014) Kisspeptin and food intake: neuroendocrine relationships at the level of the hypothalamic paraventricular nucleus. COST Action, Joint Scientific Meeting & Training School, Monash University Prato Center, Prato, Italy, April 27/29, 2015.
12. **M. Marraudino**, A. Farinetti, D. Miceli, S. Gotti, G.C. Panzica (2014) Kisspeptin and food intake: neuroendocrine relationships at the level of the hypothalamic paraventricular nucleus. XXIV Convegno Nazionale G.I.S.N., Bologna, Italy, November 28/29, 2014.

Publications

26) A. Casile*, **M. Marraudino***, B. Bonaldo, MV. Micioni Di Bonaventura, S. Nasini, C. Cifani, S. Gotti. Novel rat model of gaming disorder: assessment of social reward and sex differences in behavior and c-Fos brain activity. *Psychopharmacology (Berl)*. 2024 Apr 5. IF 3.4 (2022) Q1. *SJR* (2023) 1,05. doi: 10.1007/s00213-024-06576-y.

25) B. Bonaldo, A. Casile, MT. Ostuni, M. Bettarelli, S. Nasini, **M. Marraudino**, G. Panzica, S. Gotti. Perinatal exposure to bisphenol A or S: Effects on anxiety-related behaviors and serotonergic system. *Chemosphere*. 2024 Feb;349:140827. IF 8.8 (2022) Q1. *SJR* (2023) 1,81. doi: 10.1016/j.chemosphere.2023.140827.

24) B. Bonaldo, A. Casile, F. Montarolo, M. Bettarelli, F. Napoli, S. Gotti, GC. Panzica, **M. Marraudino**. Effects of perinatal exposure to bisphenol A or S in EAE model of multiple sclerosis. *Cell and Tissue Research*. 2023 May 392(2):467-480. IF 4.061 (2021) Q1. *SJR* (2022) 0,99. doi: 10.1007/s00441-023-03746-w.

23) G. Ponti, E. Bo, B. Bonaldo, A. Farinetti, **M. Marraudino**, GC. Panzica, S. Gotti. Perinatal exposure to tributyltin affects feeding behavior and expression of hypothalamic neuropeptide Y in the paraventricular nucleus of adult mice. *Journal of Anatomy*. 2023 Feb 242(2):235-244. IF. 2,921 (2021) Q1. *SJR* (2022) 0,79. doi: 10.1111/joa.13766.

22) B. Bonaldo, L. Gioisa, GC. Panzica, **M. Marraudino**. Exposure to either bisphenol A or S represents a risk for crucial behaviors for pup survival, such as spontaneous maternal behavior in mice. *Neuroendocrinology*. 2022. Jul 18. IF. 5,135 (2021). Q1. *SJR* (2022) 1,08. doi: 10.1159/000526074.

21) **M. Marraudino**, B. Bonaldo, B. Vitiello, GC. Bergui, GC. Panzica. Sexual Differences in Internet Gaming Disorder (IGD): From Psychological Features to Neuroanatomical Networks. *Journal of Clinical Medicine*. 2022 Feb 16;11(4):1018. IF, 4,964 (2021) Q1. *SJR* (2022) 0,94. doi: 10.3390/jcm11041018.

- 20) D. Grassi, **M. Marraudino**, L.M. Garcia-Segura, G.C. Panzica. The hypothalamic paraventricular nucleus as a central hub for the estrogenic modulation of neuroendocrine function and behavior. *Frontiers in Neuroendocrinology*. 2022 Jan 5;65:100974. IF, 8,333 (2021) Q1. SJR (2022) 2,13. doi: 10.1016/j.yfrne.2021.100974.
- 19) B. Bonaldo, A. Casile, M. Bettarelli, S. Gotti, G.C. Panzica, **M. Marraudino**. Effects of chronic exposure to bisphenol A in adult female mice on social behavior, vasopressin system, and estrogen membrane receptor (GPER1). *European Journal of Histochemistry*. 2021 Nov 10;65(s1):3272. IF, 1,966 (2021) Q2. SJR (2022) 0,52. doi: 10.4081/ejh.2021.3272.
- 18) D. Aspesi, A. Farinetti, **M. Marraudino**, G.S. Morgan, E. Marzola, G. Abbate-Daga, S. Gotti. Maternal separation alters the reward system of activity-based anorexia rats. *Psychoneuroendocrinology*. 2021 Nov;133:105393. IF, 4,693 (2021) Q1. SJR (2022) 1,39. doi: 10.1016/j.psyneuen.2021.105393
- 17) **M. Marraudino**, G. Ponti, C. Moussu, A. Farinetti, E. Macchi, P. Accornero, S. Gotti, P. Collado, M. Keller, G.C. Panzica. Early postnatal Genistein administration affects mice metabolism and reproduction in a sexually dimorphic way. *Metabolites*. 2021 July, 11, 449. IF, 5,581 (2021) Q2. SJR (2022) 0,94. doi:10.3390/metabo11070449.
- 16) **M. Marraudino**, E. Bo, E. Carlini, A. Farinetti, G. Ponti, I. Zanella, D. Di Lorenzo, G.C. Panzica, S. Gotti. Hypothalamic Expression of Neuropeptide Y (NPY) and Pro-Opiomelanocortin (POMC) in Adult Male Mice Is Affected by Chronic Exposure to Endocrine Disruptors. *Metabolites*. 2021 July, 11(6), 368. IF, 5,581 (2021) Q2. SJR (2022) 0,94. doi: 10.3390/metabo11060368.
- 15) **M. Marraudino**, B. Carrillo, B. Bonaldo, R. Llorente, E. Campioli, I. Garate, H. Pinos, L.M. Garcia-Segura, P. Collado, D. Grassi. G protein-coupled estrogen receptor immunoreactivity in the rat hypothalamus is widely distributed in neurons, astrocytes and oligodendrocytes, fluctuates during the estrous cycle and is sexually dimorphic. *Neuroendocrinology*. 2021 July, 111, 660–677. IF, 5,135 (2021) Q1. SJR (2022) 1,08. doi: 10.1159/000509583.
- 14) A. Farinetti, D. Aspesi, **M. Marraudino**, E. Marzola, G. Abbate-Daga, S. Gotti. Maternal separation in ABA rats promotes cell proliferation in the dentate gyrus of the hippocampus. *Neuroscience*. 2020 August 11:S0306-4522(20)30508-X. IF, 3,703 (2021) Q2. SJR (2022) 1,01. doi: 10.1016/j.neuroscience.2020.08.005.
- 13) R. Llorente, **M. Marraudino**, B. Carrillo, B. Bonaldo, J. Simon-Areces, P. Abellanas-Pérez, M. Rivero-Aguilar, J. M. Fernandez-Garcia, H. Pinos, L.M. Garcia-Segura, P. Collado, D. Grassi. G protein-coupled estrogen receptor immunoreactivity fluctuates during the estrous cycle and show sex differences in the amygdala and dorsal hippocampus. *Frontiers in Endocrinology*. 2020 July 7;11:537. IF, 6,055 (2021) Q1. SJR (2022) 1,28. doi: 10.3389/fendo.2020.00537.
- 12) G. Ponti, A. Farinetti, **M. Marraudino**, G.C. Panzica, S. Gotti. Postnatal genistein administration selectively abolishes sexual dimorphism in specific hypothalamic dopaminergic system in mice. *Brain Research*. 2019 Dec 1;1724:146434. IF, 3,61 (2021) Q2. SJR (2020) 0,85. doi: 10.1016/j.brainres.2019.146434.
- 11) A. Farinetti, D. Aspesi, **M. Marraudino**, E. Marzola, F. Amianto, G. Abbate Daga, S. Gotti. Sexually dimorphic behavioral effects of maternal separation in anorexic rats. *Developmental Psychobiology*. 2019 July 62(3):297-309. IF, 2,531 (2021) Q2. SJR (2022) 0,74. doi:10.1002/dev.21909
- 10) **M. Marraudino**, A. Farinetti, M.A. Arevalo, S. Gotti, G.C. Panzica, L.M. Garcia-Segura. Sexually Dimorphic Effect of Genistein on Hypothalamic Neuronal Differentiation in Vitro. *International*

Journal of Molecular Sciences. 2019 May 18;20(10). IF, 6,208. Q1. SJR (2022) 1,15. doi: 10.3390/ijms20102465.

9) N. Lagunas, **M. Marraudino**, M. de Amorim, H. Pinos, P. Collado, G.C. Panzica, L.M. Garcia Segura, D. Grassi. Estrogen receptor beta and G protein-coupled estrogen receptor 1 are involved in the acute estrogenic regulation of arginine-vasopressin immunoreactive levels in the supraoptic and paraventricular hypothalamic nuclei of female rats. *Brain Research*. 2019 Jun 1;1712:93-100. IF, 3,61 (2021) Q2. SJR (2020) 0,85. doi: 10.1016/j.brainres.2019.02.002.

8) **M. Marraudino**, B. Bonaldo, A. Farinetti, G.C. Panzica, G. Ponti, S. Gotti. Metabolism disrupting chemicals and alteration of neuroendocrine circuits controlling food intake and energy metabolism. *Frontiers in Endocrinology*. 2019 Jan 9;9:766. IF, 6,055 (2021) Q1. SJR (2022) 1,28. doi: 10.3389/fendo.2018.00766.

7) A. Farinetti, **M. Marraudino**, G. Ponti, G.C. Panzica, S. Gotti. Chronic treatment with tributyltin induces sexually dimorphic alterations of POMC system and activated leptin receptor in the hypothalamic Arcuate nucleus of adult mice. *Cell and Tissue Research*. 2018 Dec;374(3):587-594. IF, 4,061 (2021). Q1. SJR (2022) 0,99. doi: 10.1007/s00441-018-2896-9.

6) G. Ponti, A. Farinetti, **M. Marraudino**, G.C. Panzica, S. Gotti. Sex Steroids and Adult Neurogenesis in the Ventricular-Subventricular Zone. *Frontiers in Endocrinology*. 2018 Apr 9;9:156. IF, 6,055 (2021) Q1. SJR (2022) 1,28. doi: 10.3389/fendo.2018.00156.

5) **M. Marraudino**, M. Martini, S. Trova, A. Farinetti, G. Ponti, S. Gotti, G.C. Panzica. Kisspeptin system in ovariectomized mice: Estradiol and progesterone regulation. *Brain Research*. 2018 Jun 1;1688:8-14. IF, 3,61 (2021) Q2. SJR (2020) 0,85. doi: 10.1016/j.brainres.2018.03.014.

4) L. Oboti, S. Trova, R. Schellino, **M. Marraudino**, N.R Harris, O.M Abiona, M. Stampar, W. Lin, P. Peretto. Activity Dependent Modulation of Granule Cell Survival in the Accessory Olfactory Bulb at Puberty. *Frontiers in Neuroscience*. 2017 May 23;11:44. IF, 5,152 (2021) Q2. SJR (2022) 1,16. doi: 10.3389/fnana.2017.00044.

3) **M. Marraudino**, D. Miceli, A. Farinetti, G.C. Panzica, S. Gotti. The Kisspeptin Innervation of the Hypothalamic Paraventricular Nucleus: Sexual Dimorphism and Effect of Estrous Cycle in Female Mice. *Journal of Anatomy*. 2017 Jun;230(6):775-786. IF, 2,921 (2021) Q1. SJR (2020) 0,79. doi: 10.1111/joa.12603.

2) G. Ponti, A. Rodriguez-Gomez, A. Farinetti, **M. Marraudino**, F. Filice, B. Foglio, G. Sciacca, G.C.Panzica, S.Gotti. Early postnatal genistein administration permanently affects nitergic and vasopressinergic systems in a sex-specific way. *Neuroscience*. 2017 Mar 27;346:203-215. IF, 3,703 (2021) Q2. SJR (2022) 1,01. doi:10.1016/j.neuroscience.2017.01.024.

1) E. Bo, A. Farinetti, **M. Marraudino**, D. Sterchele, C. Eva, S. Gotti, G.C. Panzica. Adult exposure to tributyltin affects hypothalamic neuropeptide Y, Y1 receptor distribution, and circulating leptin in mice. *Andrology*. 2016 Jul;4(4):723-34. IF, 4,456. Q1.SJR (2022) 1,07. doi: 10.1111/andr.12222.

D. Third mission activities

17/03/2023 and 21/04/2023 - Progetto della Fondazione Umberto Veronesi 'Ricercatore in classe'.
22/11/2022 - Workshop 'Fisica: nome comune genere femminile una scelta senza stereotipi', organizzato dal Dipartimento di Fisica, Università di Torino. Seminario 'Il cervello dei due sessi, uno strano mosaico'.

01/10/2022 - U*NIGHT - La Notte Europea dei Ricercatori e delle Ricercatrici 2022. The Green Brain: un "Caffè Scientifico" per comprendere l'impatto di alimenti e inquinanti ambientali sulla salute del nostro cervello.

02/06/2022 - TRMh24 news intervista 'Siamo ciò che mangiamo: le scoperte sulla soia della ricercatrice materana Marilena Marraudino'.

04/2022 - Progetto della Fondazione Umberto Veronesi 'Ricercatore in classe'.

25/09/2021 – Notte Europea dei ricercatori, Maratona della ricerca 2021 'The brain and its invisible enemies'.

2021 - FOCUScuola: redazioni di classe. Intervista per il Liceo Veda di Cremona volta al redare un articolo a carattere scientifico per il progetto 'FOCUScuola: redazioni di classe' condotto dall'Osservatorio Permanente Giovani-Editori insieme alla rivista scientifica Focus.

2021 - Progetto della Fondazione Umberto Veronesi 'Ricercatore in classe'.

2019 - Notte Europea dei ricercatori. 'IE - Interferenti endocrini. Quando la chimica è un rischio per la salute e l'ambiente', Torino.

2019 - Comunicazione orale '50 sfumature di brain: come gli ormoni influenzano il cervello', Brain Storm, EMSA, Orbassano (TO).

2017 - 'Alla base di tutto... è sempre questione di sesso: 50 sfumature di brain', Pint of science, Torino.

2016 - Progetto scolastico 'Malattie Sessualmente Trasmissibili', Fidas, Salandra (MT).

2015 - Notte europea dei Ricercatori. 'Le Nostre Ricerche al Microscopio', Torino.

2014 - Comunicazione orale nell'ambito del progetto 'La prevenzione all'alcolismo e tabagismo', Fidas, Salandra (MT).

2014 - 2020 - "PorteAperte@NICO". NICO, Orbassano (TO).

18 July 2024
Dr. Marilena Marraudino