Curriculum Vitae

Oleari, Roberto

Researcher unique identifiers
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Current position
Tenure-Track Researcher in Cellular and Experimental Biology (BIOS-10/A)
Dept. Pharmacological and Biomolecular Sciences (DiSFeB), Università degli Studi di Milano
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Education
16/01/2019: PhD in Integrative Biomedical Research, Università degli Studi di Milano
23/09/2015: MSc in Pharmaceutical Biotechnology (110/110 cum laude), Università degli Studi di Milano

Professional Appointments/Previous Positions
Jul 2019 – Jan 2025: Post-doctoral fellow at DiSFeB, Università degli Studi di Milano (PI: Prof. Cariboni)
Feb 2019 – May 2019: Visiting Researcher at Dept. Dentistry, King's College London (PI: Prof. Basson)
May 2017 – Aug 2017: Visiting PhD student at UCL IoO, University College London (PI: Prof. Ruhrberg)
Oct 2015 – Oct 2018: PhD student at DiSFeB, Università degli Studi di Milano (PI: Prof. Cariboni)

Awards and Honors
2024: Post-doctoral fellowship Fondazione Umberto Veronesi 2025
2024: Premio Guido Tarone Under35, 22nd AIBG National Meeting
2023: AIBG Conference fellowship to attend 21st AIBG National Meeting
2022: Post-doctoral fellowship Fondazione Collegio Ghislieri
2018: EMBO short term fellowship and IBRO-PERC InEurope Short term stay
2018: Disfeb Excellence Award for the Best Publication by a PhD student in 2018
2018: Best poster Award, 30th Head Group Meeting
2017: Boehringer Ingelheim Fonds short stay travel grant

Publications (total number, citation index, 5 selected)
Tot publication = 22 (11 as first/co-first author)
H-index = 13 (Scopus, accessed 23/02/25)
Citation = 311 (Scopus, accessed 23/02/25)

1: Lettieri A*, Oleari R*, et al. SEMA6A drives GnRH neuron-dependent puberty onset by tuning median eminence vascular permeability. *Nat Commun*. 2023 Dec 7;14(1):8097. doi:10.1038/s41467-023-43820-z
2: Oleari R*, Lettieri A*, et al. Autism-linked NLGN3 is a key regulator of gonadotropin-releasing hormone deficiency. *Dis Model Mech*. 2023 Mar 1;16(3):dmm049996. doi:10.1242/dmm.049996
3: Whittaker DE*, Oleari R*, et al. A recessive PRDM13 mutation results in congenital hypogonadotropic hypogonadism and cerebellar hypoplasia. *J Clin Invest*. 2021 Dec 15;131(24):e141587. doi:10.1172/JCI141587
4: Oleari R, et al. PLXNA1 and PLXNA3 cooperate to pattern the nasal axons that guide gonadotropin-releasing hormone neurons. Development. 2019 Nov 5;146(21):dev176461. doi:10.1242/dev.176461
5: Howard SR*, Oleari R*, et al. HS6ST1 Insufficiency Causes Self-Limited Delayed Puberty in Contrast With Other GnRH Deficiency Genes. *J Clin Endocrinol Metab*. 2018 Sep 1;103(9):3420-3429. doi:10.1210/jc.2018-00646
*co-first author

Research Interests and major collaborations
My research activity is focused on the study of new genes implicated in the onset and progression of rare genetic neurodevelopmental syndromes, such as Kallmann Syndrome, CHARGE Syndrome and other neurocristopathies/spliceosomopathies. Specifically, I investigate cellular and molecular mechanisms underlying migration and differentiation of GnRH neurons and neural crest cells during embryogenesis, with a specific focus on semaphorin signaling genes, by applying tailored in silico, in vitro and in vivo models. Further, I am translating my expertise on semaphorin signaling in the neuro-oncology field, by exploring the role of semaphorins in the progression of glioblastoma multiforme.

Major ongoing collaborations are with Profs. Fantin and Mazzanti (University of Milan), Prof. Pasterkamp (Utrecht University, NL), Dr. Howard (Queen Mary University London, UK), Prof. Basson (University of Exeter), Prof. Ruhrberg (University College London, UK), Prof. Denti (Trento University) and Prof. Ori (Pisa University).