UNIVERSITÀ TELEMATICA
INTERNAZIONALE UNINETTUNO

SCHEDA PER LA RACCOLTA DEL CURRICULUM SCIENTIFICO

Corso di Laurea: Psicologia

Insegnamento/i: Psicologia dello sviluppo e tecnologie

Nome: Sebastian Luca

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Curriculum scientifico (in inglese)

Education

May 2022 - PhD in Behavioral Neuroscience cum Laude, Curriculum Psychobiology and Psychopharmacology, **"**Sapienza University of Rome"

April 2021 - Completion of "Advanced School in Artificial Intelligence", National Research Council (CNR) Rome.

July 2017 - Completion of master's degree cum Laude in "Cognitive Neuroscience and Psychological Rehabilitation", "Sapienza University of Rome".

July 2015 - Completion of bachelor's degree in "Psychology and Social Processes", with score of 110/110. "Sapienza University of Rome".

Working experiences

April 2022 - Present post-Doc position in laboratory of Experimental Neurology "IRCCS Fondazione Santa Lucia".

February 2023 – March 2023 Visiting Post-Doc position in laboratory of Neuromodulatory Networks, Leibniz institute for neurobiology Magdeburg, Germany.

November 2018 – January 2022 PhD Student in the laboratory of Psychobiology of Behavior (Department of Psychology, Sapienza University).

September 2017 - September 2018 - Internship in the laboratory of Psychobiology of Behavior (Department of Psychology, Sapienza University).

December 2016 - July 2017 - Master's Degree thesis carried out in the laboratory of Behavioral Neurobiology "IRCCS Fondazione Santa Lucia."

January 2016 - September 2016 - Internship in the laboratory of Experimental Pharmacology (Department of Physiology and Pharmacology "Vittorio Erspamer", Sapienza University).

February 2014 - June 2015 - Bachelor's Degree thesis carried out in the laboratory of Applied Biology (Department of Psychology, Sapienza University).

February 2015 - June 2015 - Student-collaboration scholarship in the laboratory of Cognitive and Social Neuroscience (Department of Psychology, Sapienza University).

February 2014 - June 2014 - Student-collaboration scholarship in the laboratory of Applied Biology (Department of Psychology, Sapienza University).

Publications

- **D'Addario SL**, Rosina E, Massaro Cenere M, Bagni C, Mercuri NB, Ledonne A. ErbB inhibition rescues nigral dopamine neuron hyperactivity and repetitive behaviors in a mouse model of fragile X syndrome bioRxiv 2024.02.23.581801; doi: https://doi.org/10.1101/2024.02.23.581801. (Preprint)

- Massaro Cenere M, Tiberi M, Paldino E, **D'Addario SL**, Federici M, Giacomet C, Cutuli D, Matteocci A, Cossa F, Zarrilli B, Ledonne A, Petrosini L, Berretta N, Fusco FR, Chiurchiù V, Mercuri NB. Systemic inflammation triggers long-lasting neuroinflammation and accelerates neurodegeneration in a rat model of Parkinson's disease overexpressing human α-synuclein. bioRxiv 2024.01.30.577912; doi: https://doi.org/10.1101/2024.01.30.577912. (Preprint)

- Babicola L, Mancini C, Riccelli C, Di Segni M, Passeri A, Municchi D, **D'Addario SL**, Andolina D, Cifani C, Cabib S, Ventura R. A mouse model of the 3-hit effects of stress: Genotype controls the effects of life adversities in females. Prog Neuropsychopharmacol Biol Psychiatry. 2023 Dec 20;127:110842. doi: 10.1016/j.pnpbp.2023.110842. Epub 2023 Aug 21. PMID: 37611651.

- Meccariello R, Bellenchi GC, Pulcrano S, **D'Addario SL**, Tafuri D, Mercuri NB, Guatteo E. Neuronal dysfunction and gene modulation by non-coding RNA in Parkinson's disease and synucleinopathies. Front Cell Neurosci. 2024 Jan 5;17:1328269. doi: 10.3389/fncel.2023.1328269. PMID: 38249528; PMCID: PMC10796818.

- Pignataro A, Krashia P, De Introna M, Nobili A, Sabetta A, Stabile F, La Barbera L, **D'Addario SL**, Ventura R, Cecconi F, D'Amelio M, Ammassari-Teule M. Chemogenetic rectification of the inhibitory tone onto hippocampal neurons reverts autistic-like traits and normalizes local expression of estrogen receptors in the Ambra1+/- mouse model of female autism. Transl Psychiatry. 2023 Feb 20;13(1):63. doi: 10.1038/s41398-023-02357-x. PMID: 36804922; PMCID: PMC9941573.

- **D'Addario SL**, Municchi D, Mancini C, Ielpo D, Babicola L, Di Segni M, Iacono LL, Ferlazzo F, Cifani C, Andolina D, Ventura R. The long-lasting effects of early life adversities are sex dependent: The signature of miR-34a. J Affect Disord. 2023 Feb 1;322:277-288. doi: 10.1016/j.jad.2022.11.035. Epub 2022 Nov 19. PMID: 36414112.

- Ledonne A, Massaro Cenere M, Paldino E, D'Angelo V, **D'Addario SL**, Casadei N, Nobili A, Berretta N, Fusco FR, Ventura R, Sancesario G, Guatteo E, Mercuri NB. Morpho-Functional Changes of Nigral Dopamine Neurons in an α-Synuclein Model of Parkinson's Disease. Mov Disord. 2023 Feb;38(2):256-266. doi: 10.1002/mds.29269. Epub 2022 Nov 9. PMID: 36350188.

- Merone M, **D'Addario SL**, Mirino P, Bertino F, Guariglia C, Ventura R, Capirchio A, Baldassarre G, Silvetti M, Caligiore D. A multi-expert ensemble system for predicting Alzheimer transition using clinical features. Brain Inform. 2022 Sep 3;9(1):20. doi: 10.1186/s40708-022-00168-2. PMID: 36056985; PMCID: PMC9440971.

- **D'Addario S.L.***, Di Segni M.*, Ledonne A., Piscitelli R.,Babicola L., Martini A.,Spoleti E.,Mancini C., Ielpo D.,D'Amato F.R., Andolina D.,Ragozzino D., Mercuri N. B. ,Cifani C.,Renzi M.,Guatteo E., Ventura R., Resilience to anhedonia-passive coping induced by early life experience is linked to a long-lasting reduction of Ih current in VTA dopaminergic neurons, Neurobiology of Stress, Volume 14, 2021, 100324, ISSN 2352-2895, DOI:10.1016/j.ynstr.2021.100324. *cohfirst author.

- Lo Iacono L, Mancini C, Babicola L, Pietrosanto M, Di Segni M, **D'Addario SL**, Municchi D, Ielpo D, Pascucci T, Cabib S, Ferlazzo F, D'Amato FR, Andolina D, Helmer-Citterich M, Cifani C, Ventura R. Early life adversity affecting the attachment bond alters ventral tegmental area transcriptomic patterning and behavior almost exclusively in female mice. Neurobiol Stress. 2021 Oct 4;15:100406. doi: 10.1016/j.ynstr.2021.100406. PMID: 34660854; PMCID: PMC8503667.

- Mercuri NB, Federici M, Rizzo FR, Maugeri L, **D'Addario SL**, Ventura R, Berretta N. Long-Term Depression of Striatal DA Release Induced by mGluRs *via* Sustained Hyperactivity of Local Cholinergic Interneurons. Front Cell Neurosci. 2021 Dec 2;15:798464. doi: 10.3389/fncel.2021.798464. PMID: 34924961; PMCID: PMC8674918.

- Lo Iacono L, Ielpo D, Parisi C, Napoli G, Accoto A, Di Segni M, Babicola L, **D'Addario SL**, Guzzo SM, Pascucci T, Ventura R, Andolina D. MicroRNA-34a regulates 5-HT2C expression in dorsal raphe and contributes to the anti-depressant-like effect of fluoxetine. Neuropharmacology. 2021 Apr 13;190:108559

- Babicola L, Ventura R, **D'Addario SL**, Ielpo D, Andolina D, Di Segni M. Long term effects of early life stress on HPA circuit in rodent models. Mol Cell Endocrinol. 2021 Feb 5;521:111125. doi: 10.1016/j.mce.2020.111125. Epub 2020 Dec 15. PMID: 33333214.

- Di Segni M.*, **D'Addario S.L.***, Babicola L., Ielpo D., Lo Iacono L., Andolina D., Accoto A., Luchetti A. ,Mancini C., Parisi C., D'Onofrio M., Brandi R., Arisi I., Pascucci T., D'Amato F.R., Ventura R. (2020) Xlr4 as a new candidate gene underlying vulnerability to cocaine effects. Neuropharmacholgy. DOI: //doi.org/10.1016/j.neuropharm.2020.108019 *cohfirst author.

- Babicola L, Pietrosanto M, Ielpo D, **D'Addario SL**, Cabib S, Ventura R, Ferlazzo F, Helmer-Citterich M, Andolina D, Lo Iacono L. RISC RNA sequencing in the Dorsal Raphè reveals microRNAs regulatory activities associated with behavioral and functional adaptations to chronic stress. Brain Res. 2020 Jun 1;1736:146763. doi: 10.1016/j.brainres.2020.146763. Epub 2020 Mar 10. PMID: 32169579.

- Lo Iacono L., Ielpo D., Accoto A., Di Segni M., Babicola L., **D'Addario S.L.**, Ferlazzo F., Pascucci T., Ventura R., Andolina D., MicroRNA-34a regulates the depression-like behavior in mice by modulating the expression of target genes in the Dorsal Raphè (2019). Molecular Neurobiology, DOI:10.1007/s12035-019-01750-2.

- Di Segni, M., Andolina, D., **D'Addario, S.L.**, Babicola, L., Ielpo, D., Luchetti, A., Pascucci T., Lo Iacono L., D'Amato F.R., Ventura, R. (2019). Sex-dependent effects of early unstable post-natal environment on response to positive and negative stimuli in adult mice. Neuroscience, DOI: 10.1016/j.neuroscience.2019.06.016

Ai sensi del D. L.gvo del 30 giugno 2003, n. 196 (Codice in materia di protezione dei dati personali), informato delle finalità del trattamento dei dati e della loro registrazione su supporti informatici, nonché dei soggetti responsabili dello stesso,

AUTORIZZO

con la trasmissione di questa scheda, UNINETTUNO Università Telematica nella figura del Rettore prof. Maria Amata Garito al trattamento dei dati personali contenuti in questo modulo per esclusive finalità didattiche e di ricerca al fine di consentire lo svolgimento dell'insegnamento e delle pratiche amministrative collegate.