

CURRICULUM VITAE Anna Lauritano

PERSONAL INFORMATION

Name Surname

Anna Lauritano

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a.lauritano@icb.cnr.it

Nationality

Italian

Birth Day (dd/mm/yyyy)

██████████

Place of birth

████████████████████

ACADEMIC EDUCATION

December 2016 – 13 February 2020

PhD in Neuroscience at the University of Naples “Federico II” in Naples (IT).

Grade: Ottimo. The title of the thesis: “Exploring the role of Kv7.3 in excitability control: novel insights from human mutations and a mice model”.

October 2009 - March 2015

Master’s degree in Pharmacy at the “Seconda Università degli Studi di Napoli” in Caserta (IT).

Grade: 110/110 Magna cum laude. The title of the thesis: “Palmitoylethanolamide reduces pain-related behaviors and restores glutamatergic synapses homeostasis in the medial prefrontal cortex of neuropathic mice”.

WORK EXPERIENCE

October 2020 – September 2021

Post-doctoral fellow (Protocol: 0000636) at the Institute of Biomolecular Chemistry-National Research Council in Pozzuoli (IT).

February 2019 - September 2019

Internship at the Department of Physiology and Neurobiology of University of Connecticut in Storrs, Connecticut (USA).

December 2015 - November 2016

Internship (Protocol: 60451) and temporary research fellow (Co.Co.Co.; Protocol: 0001873) at the Institute of Biomolecular Chemistry-National Research Council in Pozzuoli (IT).

April 2015 - July 2015

Post Graduate Internship at the Department of Pharmacology of the “Seconda Università degli Studi di Napoli” in Naples (IT).

March 2014 - March 2015

University training internship at the Department of Pharmacology of the “Seconda Università degli Studi di Napoli” in Naples (IT).

INTERNATIONAL MEETINGS PRESENTATIONS

Poster presentation at the XXXIX national meeting of Italian Society of Pharmacology (SIF) with the title: a novel variant in the *kcnc3* gene found in a proband with neonatal-onset seizures and non-syndromic intellectual disability. (Firenze, 20-23 November 2019)

Poster presentation at the XVIII SINS National Congress with the title: molecular and functional consequences of a novel variant in the *kcnc3* gene found in a proband with neonatal-onset seizures and intellectual disability. (Perugia, 26-29 September 2019)

Poster presentation at the International Kv7 Channels Symposium with the title: Defining the role of KCNQ2 and KCNQ3 potassium channels in setting the neuronal excitability of subiculum neurons. (Naples, 12-14 September 2019)

Oral presentation at the XXI SIF Seminar with the title: Autism with benzodiazepine-responsive electrical status epilepticus in sleep (ESES) caused by *kv7.3* gain-of-function variants. (Bresso, 19-22 September 2018)

Poster presentation at the National Meeting of the Italian PhD in Neuroscience with the title: Autism with benzodiazepine-responsive electrical status epilepticus in sleep (ESES) caused by *kv7.3* gain-of-function variants. (Naples, 23 February 2018)

Poster presentation at the NBG (Neapolitan Brain Group) meeting with the title: Autism with benzodiazepine-responsive electrical status epilepticus in sleep (ESES) caused by *kv7.3* gain-of-function variants. (Naples, 14 December 2017)

Poster presentation at the XXXVIII national meeting of Italian Society of Pharmacology (SIF) with the title: Functional comparison among three variants affecting the same critical residue in the *Kv7.2* potassium channel gene identified in patients with epilepsy and/or severe developmental impairment. (Rimini, 25-28 October 2017)

Poster presentation at the monothematic meeting of the Italian Society of Pharmacology (SIF) with the title: Palmitoylethanolamide reduces pain-related behaviors and restores glutamatergic synapses homeostasis in the medial prefrontal cortex of neuropathic mice. (Naples, 18-19 June 2015)

AWARDS

Travel Grant at the XVIII SINS National Congress (Perugia, 26-29 September 2019)

“Borsa di ricerca per brevi periodi all'estero” (February 2019)

Best poster Presentation at the Italian PhD National Meeting in Neuroscience (Naples, 23 February 2018)

LIST OF PUBLICATIONS

Bisogno T, Lauritano A, Piscitelli F. (2021). The endocannabinoid system: A bridge between alzheimer's disease and gut microbiota. *Life*. 2021, 11(9), 934.

Varghese N, **Lauritano A**, Taglialatela M, Tzingounis AV. (2021). KCNQ3 is the principal target of retigabine in CA1 and subicular excitatory neurons. *J Neurophysiol*. 2021, 125(4), pp. 1440–1449.

Piscitelli F, Guida F, Luongo L, Iannotti FA, Boccella S, Verde R, **Lauritano A**, Imperatore R, Smoum R, Cristino L, Lichtman AH, Parker LA, Mechoulam R, Maione S, Di Marzo V. (2020). Protective Effects of N-Oleoylglycine in a Mouse Model of Mild Traumatic Brain Injury. *ACS Chem Neurosci*. 2020 Apr 15;11(8):1117-1128.

Ostacolo C, Miceli F, Di Sarno V, Nappi P, Iraci N, Soldovieri MV, Ciaglia T, Ambrosino P, Vestuto V, **Lauritano A**, Musella S, Pepe G, Basilicata MG, Manfra M, Perinelli DR, Novellino E, Bertamino A, Gomez-Monterrey IM, Campiglia P, Taglialatela M. (2019). Synthesis and Pharmacological Characterization of Conformationally Restricted Retigabine Analogues as Novel Neuronal Kv7 Channel Activators. *J Med Chem*. 2019 Dec 24.

Lauritano A, Moutton S, Longobardi E, Tran Mau-Them F, Laudati G, Nappi P, Soldovieri MV, Ambrosino P, Cataldi M, Jouan T, Lehalle D, Maurey H, Philippe C, Miceli F, Vitobello A, Taglialatela M. (2019). A novel homozygous KCNQ3 loss-of-function variant causes non-syndromic intellectual disability and neonatal-onset pharmacodependent epilepsy. *Epilepsia Open*. 2019 Aug 11;4(3):464-475.

Sands TT, Miceli F, Lesca G, Beck AE, Sadleir LG, Arrington DK, Schönewolf-Greulich B, Moutton S, **Lauritano A**, Nappi P, et al. (2019). Autism and developmental disability caused by KCNQ3 gain-of-function variants. *Ann Neurol*. 2019 Aug;86(2):181-192.

Rigamonti AE, Bini S, Piscitelli F, **Lauritano A**, Di Marzo V, Vanetti C, Agosti F, De Col A, Lucchetti E, Grugni G, Sartorio A. (2017). Hedonic eating in Prader-Willi syndrome is associated with blunted PYY secretion. *Food Nutr Res*, 2;61(1):1297553

Piscitelli F, Pagano E, **Lauritano A**, Izzo AA, Di Marzo V. (2017). Development of a Rapid LC-MS/MS Method for the Quantification of Cannabidiol, Cannabidivarin, Δ^9 -Tetrahydrocannabivarin, and Cannabigerol in Mouse Peripheral Tissues. *Anal Chem*, 18;89(8):4749-4755

Pagano E, Capasso R, Piscitelli F, Romano B, Parisi OA, Finizio S, **Lauritano A**, Marzo VD, Izzo AA, Borrelli F. (2016). An Orally Active Cannabis Extract with High Content in Cannabidiol attenuates Chemically-induced Intestinal Inflammation and Hypermotility in the Mouse. *Front Pharmacol*, 4;7:341

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PROFESSIONAL SKILLS

CELL BIOLOGY TECHNIQUES

Cell culture management
In vitro mutagenesis
Transient transfection
Transformation of plasmidic DNA into prokaryotic cells
Extraction of plasmidic DNA from bacteria

MOLECULAR BIOLOGY TECHNIQUES

Western blotting
Real Time PCR

LIPID BIOCHEMISTRY TECHNIQUES

Bioactive lipids extraction from cells and murine tissue
Bioactive lipids purification from murine tissue

ANALYTICAL TECHNIQUES

LC-MS/MS-based quantification of bioactive lipids
HPLC for quantification of neurotransmitters in murine brain
NMR Spectroscopy for determining the structure of organic compounds

ELECTROPHYSIOLOGICAL TECHNIQUES

Whole-cell Patch Clamp in CHO cells
Whole-cell Patch Clamp in slices brain

IN VIVO TECHNIQUES

Animal behavior (background on animal cognition and behavior testing)
Treatments *in vivo* (intraperitoneal and subcutaneous injections)
Animal surgery (stereotaxic surgery)
Animal sacrifice

COMPUTER SKILLS

ECDL
Microsoft Office package (Word, Excel, Power Point)
Clampfit 10.7 for Data Acquisition and Analysis
Vector NTI for Sequence Analysis and Design
SigmaPlot for Scientific Data Analysis and Graphing
PyMol for Molecular Graphics

LANGUAGE

Italian (Native)
English (C2)

OTHER SKILLS

Work safety training courses:
IONIZING RADIATION
CHEMICAL AND CANCEROGENIC AGENTS
BIOLOGICAL RISK

IACUC (Institutional Animal Care and Use
Committee) Training, UConn, Storrs (CT), USA

