

**FORMATO EUROPEO
PER IL CURRICULUM
VITAE**



INFORMAZIONI PERSONALI

Nome **MARTINELLO KATIUSCIA**
Indirizzo
Telefono
Fax
E-mail

Nazionalità ITALIANA
Data di nascita

ESPERIENZA LAVORATIVA

- ATTUALMENTE** PROFESSORE SECONDA FASCIA BIOS-06/A FISIOLOGIA
Università degli Studi di Cassino e Lazio Meridionale, Loc. Folcara, Cassino
- **dal 2019 al 2024** BIOLOGO RICERCATORE
IRCCS NEUROMED, Parco tecnologico, Località Camerelle Pozzilli (IS)
 - **dal 2016 al 2019** BORSISTA BIOLOGO
IRCCS NEUROMED
 - **dal 2014 al 2016** BORSISTA BIOLOGO
ISTITUTO PASTEUR-FONDAZIONE CENCI-BOLOGNETTI (RM)
 - **dal 2010 al 2014** POST-DOC POSITION
UNIVERSITY COLLEGE OF LONDON (UK)
 - **dal 2007 al 2010** BORSISTA BIOLOGO
IRCCS NEUROMED

ISTRUZIONE E FORMAZIONE

- 2011 DOTTORATO DI RICERCA IN NEUROFISIOLOGIA XXIII CICLO
SAPIENZA UNIVERSITA' DI ROMA
- 2007 LAUREA QUINQUIENNALE IN SCIENZE BIOLOGICHE
SAPIENZA UNIVERSITA' DI ROMA

- 28) Garofalo S, Coccozza G, Mormino A, Bernardini G, Russo E, Ielpo D, Andolina D, Ventura R, **Martinello K**, Renzi M, Fucile S, Laffranchi M, Mortari EP, Carsetti R, Sciumè G, Sozzani S, Santoni A, Tremblay ME, Ransohoff RM, Limatola C. 2023 Natural killer cells and innate lymphoid cells 1 tune anxiety-like behavior and memory in mice via interferon- γ and acetylcholine. *Nat Commun* 29;14(1):3103.
- 27) Palomba NP, Fortunato G, Pepe G, Modugno N, Pietracupa S, Damiano I, Mascio G, Carrillo F, Di Giovannantonio LG, Ianiro L, **Martinello K**, Volpato V, Desiato V, Acri R, Storto M, Nicoletti F, Webber C, Simeone A, Fucile S, Maglione V, Esposito T. 2023 Common and Rare Variants in TMEM175 Gene Concur to the Pathogenesis of Parkinson's Disease in Italian Patients. *Mol Neurobiol* 60(4):2150-2173.
- 26) Pepe G, Capocci L, Marracino F, Realini N, Lenzi P, **Martinello K**, Bovier TF, Bichell TJ, Scarselli P, Di Cicco C, Bowman AB, Digilio FA, Fucile S, Fornai F, Armirotti A, Parlato R, Di Pardo A, Maglione V. 2023 Treatment with THI, an inhibitor of sphingosine-1-phosphate lyase, modulates glycosphingolipid metabolism and results therapeutically effective in experimental models of Huntington's disease. *Mol Ther* 31(1):282-299.
- 25) **Martinello K**[#], Sucapane A, Fucile S. 2022 5-HT₃ Receptors in Rat Dorsal Root Ganglion Neurons: Ca²⁺ Entry and Modulation of Neurotransmitter Release. *Life* 12(8):1178.
- 24) Scalise S, Zannino S, Lucchino V, Lo Conte M, Scaramuzzino M, Cifelli P, D'Andrea T, **Martinello K**, Fucile S, Palma E, Gambardella A, Ruffolo, Cuda G, Parrotta E I. 2022 Human iPSC Modeling of Genetic Febrile Seizure Reveals Aberrant Molecular and Physiological Features Underlying an Impaired Neuronal Activity. *Biomedicine* 10(5), 1075.
- 23) Mascio G, Notartomaso S, **Martinello K**, Liberatore F, Bucci D, Imbriglio T, Cannella M, Antenucci N, Scarselli P, Lattanzi R, Bruno V, Nicoletti F, Fucile S, Battaglia G. 2022 A Progressive Build-up of Perineuronal Nets in the Somatosensory Cortex Is Associated with the Development of Chronic Pain in Mice. *J Neurosci* 42(14):3037-3048.
- 22) Palomba NP, **Martinello K**[#], Coccozza G, Casciato S, Mascia A, Di Gennaro G, Morace R, Esposito V, Wulff H, Limatola C, Fucile S. 2021 ATP-evoked intracellular Ca²⁺ transients shape the ionic permeability of human microglia from epileptic temporal cortex. *J Neuroinflammation* 18(1):44.
- 21) Chaparro-Rico, B.D.M., **Martinello, K**, Fucile, S., Cafolla, D. 2021 User-tailored orthosis design for 3d printing with plicative: A quick methodology. *Crystals* 11(5), 561
- 20) Ruffolo G[#], **Martinello K**[#], Labate A, Cifelli P, Fucile S, Di Gennaro G, Quattrone A, Esposito V, Limatola C, Giangaspero F, Aronica E, Palma E, Gambardella A. 2020 Modulation of GABAergic dysfunction due to SCN1A mutation linked to Hippocampal Sclerosis. *Ann Clin Transl Neurol* (9):1726-1731.
- 19) Olivieri M, Wierońska JM, Lionetto L, **Martinello K**, Cieslik P, Chocyk A, Curto M, Di Menna L, Iacovelli L, Traficante A, Liberatore F, Mascio G, Antenucci N, Giannino G, Vergassola M, Pittaluga A, Bruno V, Battaglia G, Fucile S, Simmaco M, Nicoletti F, Pilc A, Fazio F. 2020 The Trace Kynurenine, Cinnabarinic Acid, Displays Potent Antipsychotic-Like Activity in Mice and Its Levels Are Reduced in the Prefrontal Cortex of Individuals Affected by Schizophrenia. *Schizophr Bull* 46(6):1471-1481.
- 18) Pavone L, Moyanova S, Mastroiacovo F, Fazi L, Busceti C, Gaglione A, **Martinello K**, Fucile S, Bucci D, Prioriello A, Nicoletti F, Fornai F, Morales P, Senesi R. 2020 Chronic neural interfacing with cerebral cortex using single-walled carbon nanotube-polymer grids. *J Neural Eng* 17(3):036032.
- 17) Carrizzo A, Molledo O, Damato A, **Martinello K**, Di Pietro P, Olivetti M, Acernese F, Giugliano G, Izzo R, Sommella E, Migliarino S, Piazza O, Izzo C, Virtuoso N, Strianese A, Trimarco V, Campiglia P, Fucile S, Puca A, Trimarco B, Vecchione C. 2020 New Nutraceutical Combination Reduces Blood Pressure and Improves Exercise Capacity in Hypertensive Patients Via a Nitric Oxide-Dependent Mechanism. *J Am Heart Assoc* 9(5): e014923.
- 16) Imbriglio T, Verhaeghe R, **Martinello K**, Pascarelli MT, Chece G, Bucci D, Notartomaso S, Quattromani M, Mascio G, Scalabrì F, Simeone A, Maccari S, Del Percio C, Wieloch T, Fucile S, Babiloni C, Battaglia G, Limatola C, Nicoletti F, Cannella M. 2019 Developmental abnormalities in cortical GABAergic system in mice lacking mGlu3 metabotropic glutamate receptors. *FASEB J*. 33(12):14204-14220.
- 15) Murineddu G, Gotti C, Asproni B, Corona P, **Martinello K**, Plutino S, Fucile S, Temml V, Moretti M, Viani P, Schuster D, Piras S, Deligia F, Pinna GA. 2019 Novel N-aryl nicotinamide derivatives: Taking stock on 3,6-diazabicyclo[3.1.1]heptanes as ligands for neuronal acetylcholine receptors. *Eur J Med Chem* 180:51-61.
- 14) **Martinello K**[#], Giacalone E, Migliore M, Brown DA, Shah MM. 2019 The subthreshold-active KV7 current regulates neurotransmission by limiting spike-induced Ca²⁺ influx in hippocampal mossy fiber synaptic terminals. *Commun Biol* 2:145.
- 13) **Martinello K**[#], Sciacaluga M, Morace R, Mascia A, Arcella A, Esposito V, Fucile S. 2018 Loss of constitutive functional γ -aminobutyric acid type A-B receptor crosstalk in layer 5 pyramidal neurons of human epileptic temporal cortex. *Epilepsia* 59(2):449-459.
- 12) Notartomaso S, Mascio G, Scarselli P, **Martinello K**, Fucile S, Gradini R, Bruno V, Battaglia G, Nicoletti F. 2017 Expression of the K⁺/Cl⁻ cotransporter, KCC2, in cerebellar Purkinje cells is regulated by group-I metabotropic glutamate receptors. *Neuropharmacology* 15:115:51-59.
- 11) Sciacaluga M, Moriconi C, **Martinello K**, Catalano M, Bermudez I, Stitzel JA, Maskos U, Fucile S. 2015 Crucial role of nicotinic α 5 subunit variants for Ca²⁺ fluxes in ventral midbrain neurons. *FASEB J* 29(8):3389-98.
- 10) **Martinello K**[#], Huang Z, Lujan R, Tran B, Watanabe M, Cooper EC, Brown DA, Shah MM. 2015 Cholinergic afferent stimulation induces axonal function plasticity in adult hippocampal granule cells. *Neuron* 85(2):346-63.
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- 6) Carnevale D, Vecchione C, Mascio G, Esposito G, Cifelli G, **Martinello K**, Landolfi A, Selvetella G, Grieco P, Damato A, Franco E, Haase H, Maffei A, Ciraoio E, Fucile S, Frati G, Mazzoni O, Hirsch E, Lembo G. 2012 PI3K γ inhibition reduces blood pressure by a vasorelaxant Akt/LTCC mechanism. *Cardiovasc Res* 93(1):200-9.
- 5) Mazzuferi M, Palma E, **Martinello K**, Maiolino F, Roseti C, Fucile S, Fabene P, Schio F, Pellitteri M, Sperkg G, Miledi R, Eusebi F, and Simonato M. 2010 Enhancement of GABAA-current run-down in the hippocampus occurs at the first spontaneous seizure in a model of temporal lobe epilepsy. *Proc Natl Acad Sci U S A* 107(7):3180-5.
- 4) Roseti C[#], Palma E[#] **Martinello K**[#], Fucile S, Morace R, Esposito V, Cantore G, Arcella A, Giangaspero F, Aronica E, Mascia A, Di Gennaro G, Quarato PP, Manfredi M, Cristalli G, Lambertucci C, Marucci G, Volpini R, Limatola C, Eusebi F. 2009 Blockage of A2A and A3 adenosine receptors decreases the desensitization of human GABA(A) receptors microtransplanted to Xenopus oocytes. *Proc Natl Acad Sci U S A* 106(37):15927-31

3) Roseti C[#], **Martinello K[#]**, Fucile S, Piccari V, Mascia A, Di Gennaro G, Quarato PP, Manfredi M, Esposito V, Cantore G, Arcella A, Simonato M, Fredholm BB, Limatola C, Miledi R, Eusebi F. 2008 Adenosine receptor antagonists alter the stability of human epileptic GABAA receptors. Proc Natl Acad Sci U S A 105(39):15118-23.

2) Palma E, Roseti C, Maiolino F, Fucile S, **Martinello K**, Mazzuferi M, Aronica E, Manfredi M, Esposito V, Cantore G, Miledi R, Simonato M, Eusebi F. 2007 GABA(A) current rundown of temporal lobe epilepsy is associated with repetitive activation of GABA(A) "phasic" receptors. Proc Natl Acad Sci U S A 104(52):20944-8.

1) Di Castro A, **Martinello K**, Grassi F, Eusebi F, Engel AG. 2007 Pathogenic point mutations in a transmembrane domain of the epsilon subunit increase the Ca²⁺ permeability of the human endplate ACh receptor. J physiol 579(3):671-7.

MADRELINGUA ITALIANA

ALTRE LINGUA

	INGLESE
• Capacità di lettura	buono
• Capacità di scrittura	buono
• Capacità di espressione orale	buono

CAPACITÀ E COMPETENZE
TECNICHE

ELETTROFISIOLOGIA; IMAGING; CULTURE CELLULARI; PCR,
UTILIZZO PACCHETTO OFFICE
SIGMAPLOT, PACCHETTO ADOBE

PATENTE O PATENTI B, AUTOMUNITA

-autorizzo il trattamento dei dati personali indicati nel curriculum ai sensi del D.lgs. 196/2003, come modificato dal Regolamento UE 679/2016, recepito dal Decreto n. 101 del 10/08/2018;

-le dichiarazioni in esso contenute sono rese ai sensi del D.P.R. 445/2000;

Pesche,
18/10/2024

Katiuscia Martinello