



Curriculum Vitae Europass

Personal information

ALESSANDRA SIMEONE

Year of Birth 1998

Email alessandra.simeone@uniroma1.it

Nationality Italian

Gender Female

Spoken Languages Italian, English

Occupational field

Postdoctoral Researcher

Education and training

2022 - 2025: PhD student in Molecular Medicine at the Department of Molecular Medicine, **Sapienza University of Rome, Italy**

2020 - 2022: Master's Degree and Trainee in Genetics and Molecular Biology, **Sapienza University of Rome, Italy**

Thesis title: *Study of Notch signaling pathway in response to G2 damage checkpoint activation in T-cell acute lymphoblastic leukemia.*

Supervisors: Prof. Claudio Talora; Prof. Loretta Tuosto

07/2019 - 08/2019: Summer Scholarship at the laboratory of Prof. Fasano, Mucosal Biology Research Center, **Mass General Hospital, Harvard Medical School, Boston, USA**

2017 - 2020: Bachelor's Degree in Biological Sciences at the Department of Environmental Biological and Pharmaceutical Sciences and Technologies, **University of Campania "Luigi Vanvitelli," Caserta, Italy**

Thesis title: *Causes and consequences of genomic imprinting defects in human reproduction*

Supervisor: Prof. Flavia Cerrato

2014 - 2017: Classical High School Diploma, student at the **Air Force Military School "Giulio Douhet", Florence, Italy**

Major Research Interests

Molecular Biology, Genetics, Molecular Pathology, Carcinogenesis

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| Level in national or international classification | <p>Certificate of training (2023) organized by the Center for Research and Services Preclinical Experimentation and Animal Welfare of the University of Rome “La Sapienza” - <i>1st edition of the Training Course (M.D. August 5, 2021) accredited by the Ministry of Health 0029607-07/12/2022-DGSAF-MDS-P for obtaining the necessary credits to perform the functions a), b), c), d) and the tasks of VD and RBA (d.lgs 26/2014) - theoretical course and training internship.</i></p> <p>National and International Congresses, Refresher and Experimental Interest:</p> <ul style="list-style-type: none"> - International Congress “The Notch Meeting XII” (1-5 October 2023, Athens, Greece) Oral presentation “Role of Notch Signaling pathway in G2 damage checkpoint in T-cell Acute Lymphoblastic Leukemia (T-ALL)” - National Congress “64th Annual Meeting of the Italian Cancer Society” (25-27 September 2024, Milan, Italy) Poster session “Role of Notch Signaling pathway in G2 damage checkpoint in T-cell Acute Lymphoblastic Leukemia (T-ALL)” - International Congress “36th AICC International Meeting” (2-4 December 2024, Rome, Italy) Poster session “Exploring Notch Signaling Pathway: possible roles and implications in G2 damage checkpoint in T-cell Acute Lymphoblastic Leukemia (T-ALL)” - International Congress “EACR 2025” (16-19 June 2025, Lisbon, Portugal) Poster session “Notch signaling during G2 damage checkpoint: a multifaced node to overcome drug resistance in T-cell acute lymphoblastic leukemia (T-ALL)” |
| Job-related skills | <p>Molecular Biology techniques: genomic and plasmid DNA extraction, RNA extraction. Total and fractional extraction of proteins from cells, purification, quantification and Western Blot analysis. Separation of nucleic acids on agarose gels, PCR (Polymerase Chain Reaction), RT-PCR (Retro Transcriptase-Polymerase Chain Reaction), Real time qPCR. Preparation of solutions. Histological and histopathological techniques: immunofluorescence. Cell Biology techniques: cell culture, proliferation assays (i.e. MTT/WST-1), apoptosis and survival assays (i.e. colony formation assay, soft agar assay, annexin/PI, trypan blue), transfection staining for cytofluorometer analysis of surface and intracellular markers, cell cycle analysis with PI, preparation of culture media, expansion of cell lines, freezing and thawing. In vitro drug treatments. Equipment: use of centrifuges, autoclave, spectrophotometer, sonicator, analytical balance, thermocycler, Ph-meter, Real-Time PCR System, Western Blotting equipment, FACS, chemical and biological hoods and cell biology equipment.</p> |
| Digital competence | <p>Excellent handling of application software such as Windows and iOS and Office package programs. Excellent internet browsing skills and use of major email programs. Good knowledge of HTML language (Dreamweaver MX and Microsoft Front Page). Good handling of Adobe Photoshop and QuarkXpress, Image J, Pymol. Use of NCBI, PDB, BLAST, GenScript, Biorender, Snappgene, Benchling.</p> |
| Scientific Production | <p><u>11573/1676923</u> - 2023 - <i>Loss of ATP2C1 function promotes trafficking and degradation of NOTCH1: Implications for Hailey-Hailey disease - EXPERIMENTAL DERMATOLOGY</i></p> <p>ZONFRILLI, AZZURRA; TRUGLIO, FEDERICA; SIMEONE, ALESSANDRA; PELULLO, MARIA; BENELLI, DARIO; CHECQUOLO, SAULA; BELLAVIA, DIANA; PALERMO, ROCCO; UCCELLETTI, DANIELA; SCREPANTI, ISABELLA; CIALFI, SAMANTHA; TALORA, CLAUDIO - <i>01a Articolo in rivista</i></p> |