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

November 2025 - Present: **Postdoctoral researcher** at the Department of Clinical and Molecular Medicine, **Sapienza University of Rome, Italy**

November 2022 - October 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

Main activities and responsibilities

Cell stress response: exploring novel mechanism of progression and therapeutic approaches in pancreatic cancer

Employer name and address	Via Giorgio Nicola Papanicolau 00189, Rome (RM)
Job-related skills	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.
Digital competence	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, Snapgene, Benchling.

Scientific Production

11573/1676923 - 2023 - ***Loss of ATP2C1 function promotes trafficking and degradation of NOTCH1: Implications for Hailey-Hailey disease*** *- EXPERIMENTAL DERMATOLOGY*

ZONFRILLI, AZZURRA; TRUGLIO, FEDERICA; ***SIMEONE, ALESSANDRA****; PELULLO, MARIA; BENELLI, DARIO; CHECQUOLO, SAULA; BELLAVIA, DIANA; PALERMO, ROCCO; UCCELLETTI, DANIELA; SCREPANTI, ISABELLA; CIALFI, SAMANTHA; TALORA, CLAUDIO - 01a Articolo in rivista*