

Lorenzo Cuollo – Curriculum Vitae

Professional e-mail: lorenzo.cuollo@uniroma1.it

Education and training

- April 2022: Ph.D. in “Innovation in immuno-mediated and hematological disorders”, XXXIV cycle, Sapienza University of Rome (cum laude).
- October 2018: Master’s Degree in Molecular Biology, Università degli Studi di Napoli “Federico II” (Final score: 110/110 cum laude).
- February 2016: Bachelor’s Degree in Biological Sciences, Università degli Studi di Napoli “Federico II” (Final score: 109/110).

Research experience

- **April 2022 – Today:** Postdoctoral researcher, Dept. of Molecular Medicine, Sapienza University of Rome.
- **November 2018 – April 2022:** PhD student in “Innovation in immuno-mediated and hematological disorders”, Dept. of Molecular Medicine, Sapienza University of Rome. Supervisor: Prof. Alessandra Soriani.
Title of the thesis: “Immunostimulatory activity and regulation of extracellular 2’3’-cGAMP in human multiple myeloma”
- **January 2018 – August 2018:** Master’s degree thesis project in the laboratory of Systems Biology, Dept. of Biology at Technical University of Darmstadt, Germany. Supervisor: Prof. Alexander Löwer.
Title of the thesis: “Investigating p53 response during different cell cycle phases”
- **September 2017 – August 2018:** participation in Erasmus+ program for students at the Technical University of Darmstadt, Hessen, Germany.

Technical skills and competencies

- Cell culture techniques: maintenance of primary and immortalized cell lines, in adherence and in suspension; isolation of human leukocytes from peripheral blood and bone marrow aspirates.
- Flow cytometry: immunophenotyping, cytotoxicity assays, study of the cell cycle. Analysis of flow cytometry data with FlowJo™ software.
- Protein extraction from cell lines and primary cells; SDS-PAGE, western blot.
- Exosomes and microvesicles purification from conditioned medium of cell lines.
- RNA/DNA extraction and quantification; PCR, qPCR and agarose gel electrophoresis.
- ELISA (sandwich and competitive).
- Multiplex cytokine assay (Magpix).
- Basic skills in the use lentiviral vectors.
- Basic skills in molecular cloning.
- Basic skills in fluorescence staining, fluorescence microscopy and time-lapse microscopy.
- Good knowledge of Microsoft Windows operating system and Office package; good knowledge of Graphpad Prism; basic knowledge of Matlab.
- Good knowledge of statistical analysis of experimental data; knowledge and understanding of laboratory ethics, safety rules and regulation.

Language skills

- 08/07/2017 – IELTS ACADEMIC – British Council. Final Score: 7.5/9 (CEFR Level: C1, Advanced).

Communication skills

- Proficient user of written scientific English for publications, experimental projects, grant proposals.
- 24/05/2022 – Oral presentation at SIICA 2022 XIII National Congress (May 23-26, Università degli Studi di Napoli "Federico II"); title: "Release of cGAMP by doxorubicin-treated multiple myeloma cells and its regulation through ectoenzymatic degradation".
- 17/05/2022 – Lecture within the Biochemical Methodologies Course of the Master's Degree in Biochemistry at Sapienza University of Rome; title: "Immunochemical methodologies".
- 15/12/2020 – Oral presentation at SOHO Italy Clinical and Biological School of Multiple Myeloma (Virtual conference); title: "Combined treatment with doxorubicin and ENPP1 inhibitor for improving anti-myeloma innate immune response".

Awards

04/05/2020 – 3rd prize of Championship, The SIICA School of Immunology 2020 – Viral Immunology and Vaccinology.

Publications

- Soriani, A., Vulpis, E., Cuollo, L., Santoni, A., & Zingoni, A. (2020). Cancer extracellular vesicles as novel regulators of NK cell response. *Cytokine & growth factor reviews*, 51, 19-26.
- Cuollo, L., Antonangeli, F., Santoni, A., & Soriani, A. (2020). The Senescence-Associated Secretory Phenotype (SASP) in the Challenging Future of Cancer Therapy and Age-Related Diseases. *Biology*, 9(12), 485.

Signature:

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