

Letizia Bucchi



Molecular Biologist

PhD candidate passionate about biomedical research and the pharmaceutical field, eager to contribute to scientific progress

Contact Information

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Languages

-  Native
-  C1 (Fluent, written and spoken)

Lab skills

2D and 3D cell cultures and co-cultures, microfluidic devices, cell viability assays, IHC, IF, RNA extraction and retrotranscription, PCR, qPCR, gel electrophoresis, protein extraction and quantification (BCA), ELISA, capillary Western Blot, migration assays, fluorescence image acquisition. Animal handling, behavioural tests, organ extraction for electrophysiological recordings (patch-clamp and fESPs).

Soft Skills

High accuracy, reliability, and precision in experimental procedures. Strong organizational skills. Good problem-solving and critical thinking abilities. Effective communication and teamwork in collaborative settings. Ability to train and mentor new team members. Adaptability to international and interdisciplinary research environments.

Education

UNIVERSITY OF BOLOGNA

2025 - CURRENT

PhD in Biomedical and Neuromotor Sciences

- Bone metastasis microenvironment in prostate cancer
- Intratumoral microbiota in prostate cancer

UNIVERSITY OF FLORENCE

2021 - 2024

MSc in Molecular Biology and Applied Biotechnology

UNIVERSITY OF BIRMINGHAM

2022 - 2023

MSc in Molecular Biotechnology (Erasmus+ Exchange Program)

UNIVERSITY OF FERRARA

2017 - 2020

BSc in Biological Sciences

Internships

UNIVERSITY OF FLORENCE

09/2023 - 04/2024

Research intern, Laboratory of Pharmacology in the department of Neuroscience, Psychology, Pharmaceuticals and Child Health (NEUROFARBA).

UNIVERSITY OF FERRARA

09/2019 - 12/2019

Research intern, Laboratory of Biochemistry and Molecular Biology at the department of Life Sciences and Biotechnology.

Research Experiences

UNIVERSITY OF BOLOGNA

11/2025 - CURRENT

PhD student in the department of Biomedical and Neuromotor Sciences of the University of Bologna.

IRCCS ISTITUTO ORTOPEDICO RIZZOLI

07/2024 - 10/2025

Research fellow of the University of Bologna (assegno di ricerca), at Biomedical Sciences and Technologies and Nanobiotechnologies Lab, Bologna.

Research Projects

Collaborator

"Targeting the intratumoural microbiota to reverse therapeutic resistance in lethal prostate cancers", PRIN22 project, 2023-2025 (Ministry of the University and Research - PI Nicola Baldini).

Collaborator

"Citrate-mediated metabolic coupling: a target for advanced PROstate cancer in BONE - PROBONE", AIRC project, 2022-2027 (IG2021 - PI Sofia Avnet)

Publications

- Pasquarelli A., Di Pompo G., Boanini E., Cavassi E., **Bucchi L.**, Rubini K., Montesissa M., Baldini N., Avnet S. Understanding the role of citrate in metastasis of prostate cancer using a bone matrix-on-a-chip model (in preparation).

Conference presentations

- Bucchi L.**, Davoli C., Di Pompo G., Pasquarelli A., Borciani G., Baldini N., Avnet S. Citrate released by osteocytes in the bone microenvironment as a possible metabolic fuel for osteosarcoma. EuSARC, Venice. June 5-7, 2025