Luca Visentin

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Education

Master's Degree in Cellular and Molecular Biology — University of Turin
Neurobiological course: cellular biology of the brain, advanced genetics. — *Sep. 2018 - July 2021*
Thesis title: Modelling the evolution of somatic mutations in cancer.

Bachelor's Degree in Biological Sciences — University of Turin
Cellular biology, human physiology, immunology, genetics. — *Sep. 2015 - July 2018*
Thesis title: Immunotherapy - a new frontier in the treatment of cancer.

Diploma in Healthcare Biotechnologies — IIS A. Gobetti Marchesini
Food safety, chemistry, applied microbiology. — *Sep. 2010 - July 2015*

Experience

PhD Student in Complex systems for Quantitative Biomedicine — Nov. 2022 - Present
University of Turin — *Turin, Italy*

- Developed a self-updating database based on remote data regarding membrane transporters
- Developed several analysis pipelines of expression data to obtain biological insight
- Management of team activities such as lab meetings, new collaborator onboarding and offboarding, communication platforms, etc.
- Working to implement FAIR data practices and Open Research in my research group

Research collaborator — Aug. 2021 - Oct. 2022
University of Turin, DBIOS, Physiology lab — *Turin, Italy*

- Development of research analysis software
- Analysis of complex multivariate expression data
- Collaborate in team efforts and organization of communication platforms

Latest Publications

- **Review**: "The Emerging Concept of the Transportome: State of the Art", Physiology, 2023, https://doi.org/10.1152/physiol.00010.2023
- **Data Report**: "Transcriptomic data of bevacizumab-adapted colorectal adenocarcinoma cells HCT-116", Data in Brief, 2023, https://doi.org/10.1016/j.dib.2023.109069
- **Research Article**: "BioTEA: containerized methods of analysis for microarray-based transcriptomics data", Biology, 2022, https://doi.org/10.3390/biology11091346
- **Research Article**: "The Transcriptional Landscape of BRAF Wild-Type Metastatic Melanoma: A Pilot Study", International Journal of Molecular Sciences, 2022, https://doi.org/10.3390/ijms23136898
- **Research Article**: "TRPM8-Rap1A Interaction Sites as Critical Determinants for Adhesion and Migration of Prostate and other Epithelial Cancer Cells", Cancers, 2022, https://doi.org/10.3390/cancers14092261

Full publication list: https://orcid.org/0000-0003-2568-5694

Technical Skills

Languages: Python, R, Rust, SQL (SQLite)
Libraries: Dplyr, Pandas, Numpy, ggplot2, DeSeq2, Pytest, Venv
Developer Tools: Git, Github, Github Actions, Docker, pip, Podman, Cargo, Vim, Neovim