Lorenzo Ferrando

Researcher

EDUCATION AND TRAINING

2022
Visiting Postdoctoral Fellow
Description: Specialized training on cfMeDip-seq for the characterization of epigenetic traits of early breast cancer.
Biogem, Istituto di Ricerche Genetiche, Ariano Irpino, Italy

2017-2021
PhD in Translational Medicine in Oncology and Ematology
Title: Genomic analysis of special types of invasive breast cancer.
Department of Internal Medicine and Clinical Specialties, University of Genoa, Genoa, Italy

2018-2019
Graduate Research Assistant
Description: Focused training on massive parallel sequencing analysis for the characterization of epigenetic and genomic traits of special histologic types of breast cancer and rare form of gynaecological cancers.
The Jorge Reis-Filho's Lab, Department of Pathology, Memorial Sloan Kettering Cancer Center (MSKCC), New York, USA

2016
PE exam - IT engineering
Description: Professional license
University of Genoa, Genoa, Italy

2013-2016
Master Degree Course in Bioengineering (LM-21)
Title: Assessment of genomic signatures associated with ageing: a pan cancer analysis.
Department of Internal Medicine and Clinical Specialties (DiMI), University of Genoa, Genoa, Italy

2009-2013
Bachelor Degree course in Biomedical Engineering (L-8)
Title: Experimental study of the dynamics of the ocular vitreous.
Department of Internal Medicine and Clinical Specialties (DiMI), University of Genoa, Genoa, Italy

PROFESSIONAL HISTORY

2025-Ongoing
Researcher

Università di Genova
UniGe.it

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Via Balbi 5, 16126 Genova
P. IVA 00754150100

Description: The research focuses on liquid biopsy for the identification of biomarkers in bodily fluids, with the aim of enabling early diagnosis and monitoring of breast cancer, using advanced genomic techniques such as Next-Generation Sequencing (NGS).
Department of Internal Medicine and Clinical Specialties (DiMI), University of Genoa, Genoa, Italy

2021-2025
Post-doc
IRCCS-Ospedale Policlinico San Martino, Genoa, Italy

2017-2018
External Collaborator
Department of Internal Medicine and Clinical Specialties (DiMI), University of Genoa, Genoa, Italy

EXPERIENCE

MAIN SEMINARS
2024 **Invited Talk**
Title: Mini-invasive transcriptomics for temporally resolved system immunology.
Institut Jules Bordet University Hospital, Bruxelles, Belgiium

2018 **Oral Presentation**
Title: Prediction of response to neoadjuvant chemoradiotherapy in rectal adenocarcinoma by whole transcriptome analysis: a prospective retrospective, consecutive cohort study.
118° National Congress of Italian Society of Internal Medicine (SIMI), Rome, Italy

EDITORSHIP OR PARTICIPATION IN EDITORIAL BOARDS OF JOURNALS, PUBLISHING SERIES, ENCYCLOPAEDIAS AND TREATISES
2025-In corso Associate Editor
Editorial Board: NPJ Precision Medicine.
Nature Publishing Group

2023-In corso Section Editor
Editorial Board: Tumori Journal.
SAGE Journals

PARTICIPATION IN THE CREATION OF NEW BUSINESS ENTITIES (SPIN-OFFS), DEVELOPMENT, USE AND COMMERCIALISATION OF ACADEMIC PATENTS
2021 **Co-Inventor**
TMBleR: a bioinformatic tool to optimize TMB estimation and predictive power (*https://doi.org/10.1093/bioinformatics/btab836*).
Alleanza Contro il Cancro (ACC)

2019 **Co-Inventor**
Multi-domain method for predicting one-year mortality in elderly cancer patients (Grant Number: 102019000018989).
University of Genoa, Genoa, Italy

Università di Genova

2022-Ongoing **Core Data Analysis Committee member of the AURORA Program**
Breast International Group (BIG)