

Gabriele Zoppoli

Associate Professor of Internal Medicine

EDUCATION AND TRAINING

2013

Specialist in Internal Medicine (cum laude)

Università degli Studi di Genova, Genova, Italy

2011

PhD in Clinical and Experimental Oncology and Hematology

Università degli Studi di Genova, Genova, Italy

2005

Medical Degree (MD), summa cum laude

Università degli Studi di Genova, Genova, Italy

1999

High School Diploma in Classical Studies

Liceo Classico, Genova, Italy

PROFESSIONAL HISTORY

2021-Present

Associate Professor of Internal Medicine (MED/09)

Università degli Studi di Genova, Genoa, Italy

2018-2021

Assistant Professor of Internal Medicine with tenure track (art. 24 c.3-b L. 240/10)

Università degli Studi di Genova, Genoa, Italy

2016-Present

Internal Medicine Consultant (Dirigente Medico)

Clinica di Medicina Interna a Indirizzo Oncologico, IRCCS Policlinico San Martino, Genoa, Italy

2015-2018

Adjunct Professor of Internal Medicine (art. 24 c.3-a L. 240/10)

Università degli Studi di Genova, Genoa, Italy

2013-2015**Research Fellow**

Breast Cancer Translational Research Laboratory J.C. Heuson, Institut Jules Bordet, Université Libre de Bruxelles, Brussels, Belgium

Working on applications of next-generation sequencing in breast cancer under the supervision of Prof. C. Sotiriou

2010-2011**Guest Researcher**

Laboratory of Molecular Pharmacology, National Cancer Institute (NCI), National Institutes of Health (NIH), Bethesda, MD, USA

Working on high-dimensional data analysis for gene expression microarrays in cancer cell line models and experimental therapeutics in vitro sensitivity data

2005-2013**Clinical Fellow, Internal Medicine**

Università degli Studi di Genova and IRCCS Policlinico San Martino (formerly AOU San Martino - National Cancer Institute Genoa), Genoa, Italy

Working under the supervision of Prof. R. Ghio and, later, Prof. A. Ballestrero

ACADEMIC APPOINTMENTS

2018-present**Coordinator for the Integrated Course in Semeiotics and Medical Methodology**

School of Medicine and Surgery (3rd year), Università degli Studi di Genova, Genoa, Italy

EXPERIENCE

MAIN SEMINARS AND CONFERENCES

- Coordinator of the Molecular Tumor Board, IRCCS Ospedale Policlinico San Martino (2020-present)
- Member of the Data Analysis Committee (DAC), AURORA International Study (2019-present)

- Medical and Scientific Liaison between Breast International Group (BIG) and Gruppo Oncologico Italiano di Ricerca Clinica (GOIRC)
- Member of Steering Committee for multiple international clinical trials: AURORA, OlympiA, BRAVO, PYTHIA, MINDACT, PALLAS, LORELEI

SCIENTIFIC RESPONSIBILITY FOR RESEARCH PROJECTS ACCEPTED FOR FUNDING

2025-ongoing

AIRC Next-Gen Clinician Scientist Grant (ID 31694) - €1,500,000

Longitudinal genomic and epigenomic profiling of advanced breast cancer using cell-free single-molecule DNA sequencing

2023-ongoing

MIUR PRIN 2022 - €188,241

Development of novel integrated tools for non-invasive differential diagnosis of early breast cancer through the analysis of peripheral blood samples

2019-2025

AIRC Investigator Grant (IG 21761) - €598,000

Development of a horizontal data integration classifier for non-invasive early diagnosis of breast cancer

2020-2022

University of Genova "Curiosity Driven" Grant - €62,832

Are bigger cells badder in breast cancer?

2011-2014

AIRC My First AIRC Grant (MFAG 10570) - €150,000

Research of Chk2 synthetic lethality combinations through high throughput siRNA screening

EDITORSHIP AND EDITORIAL BOARDS

2020-present

Section Editor

Tumori Journal

2018-present

Associate Editor

Journal of Translational Medicine

PRIZES AND ACCOLADES FOR SCIENTIFIC ACTIVITY

2023

National Scientific Qualification for Full Professor

Sector 06/B1 - Internal Medicine (valid until 2034)

2023

National Scientific Qualification for Full Professor

Sector 06/D3 - Blood Diseases, Oncology and Rheumatology (valid until 2034)

PARTICIPATION IN THE CREATION OF NEW BUSINESS ENTITIES AND PATENTS

2022

Co-inventor of Industrial Patent

"Multi-domain method for mortality prediction after one year in senior patients affected by cancer" - Algorithm for calculating survival probability in elderly patients with solid neoplasia

2021

Co-founder of Academic Spin-off

Immunomica S.r.l.

Innovative SME focused on the development of diagnostic, prognostic and predictive tools in oncology

OTHER EXPERIENCES AND ACHIEVEMENTS

- co-Principal Investigator of the international clinical study DECRESCENDO (NCT04675827)
- Member of the Board of Directors, GOIRC (2018-2024)
- Member of the Doctoral College for PhD programs in Onco-Hematology and Internal Medicine, University of Genova (Cycles XXXII, XXXIII, XXXV, XXXIX) (2016-present)
- Teaching faculty for Postgraduate Specialization Schools: Internal Medicine, Geriatrics, Medicine and Palliative Care

BIBLIOMETRIC INDICATORS

- **Publications:** 123 papers in international peer-reviewed journals
- **Total Citations:** 4,538
- **H-index:** 32
- *Source: Scopus, updated September 3, 2025*

RESEARCH FOCUS

Prof. Zoppoli's research focuses on **translational genomics** and **high-dimensional data analysis** for the identification of personalized biomarkers in oncology and complex diseases. Main areas of interest include:

- Development of **non-invasive multiomic approaches** (liquid biopsy) for diagnostic, prognostic and predictive purposes in cancer, with specific focus on **breast carcinoma**
- Study of **drug resistance mechanisms and sensitivity to targeted treatments** in oncology, with particular reference to the discovery and validation of **SLFN11** protein as a predictive biomarker of chemotherapy sensitivity and **SQLE** as a drug repurposing target in breast adenocarcinoma treatment
- Management of **internal medicine complications in oncology** and development of **precision medicine strategies**
- Application of **advanced statistical methods and artificial intelligence** for complex data analysis, integration of genomic and clinical data, and patient outcome prediction

Last updated: September 2025