

Mariella Della Chiesa

Associate Professor Histology

EDUCATION AND TRAINING

2017

National scientific qualification for the academic position of Associate Professor of Histology

2005-2008

Post doctoral Fellow awarded by FIRC (Federazione Italiana per la Ricerca sul Cancro)

Molecular Immunology Laboratory, Histology section, DI.ME.S. University of Genoa, Italy

2005

Clinical and Experimental Immunology PhD

School of Medicine, University of Genoa, Italy

2001

Professional qualification to practice as Biologist

2000

Degree in Biological Sciences (summa cum laude)

University of Genoa, Italy

1998-2000

Internship

Molecular Oncology Lab, IST, Genoa

1995

Languages Secondary School Certificate

Liceo Classico Statale "G.Da Vigo", Rapallo

PROFESSIONAL HISTORY

November 2020

Associate professor of Histology

Department of Experimental Medicine (DI.ME.S.) Histology section, School of Medicine, University of Genoa, Italy

December 2010- November 2020

Assistant professor of Histology

DI.ME.S. Histology section, School of Medicine, University of Genoa, Italy

2008-2010

Postdoctoral fellow

Molecular Immunology Laboratory, Histology section, Department of Experimental Medicine (DI.ME.S.) University of Genoa, Italy

ACADEMIC APPOINTMENTS

2022 – today

Safety Committee DIMES member School of Medicine, University of Genoa, Italy

2018 – today

Clinical and Experimental Immunology PhD Committee member School of Medicine, University of Genoa, Italy

2017 – 2021

Center of Excellence for Biomedical Research (CEBR) staff member

CEBR, Molecular Immunology Unit, University of Genoa, Italy

2010-today

Degree Board member of the following courses: Medicina e Chirurgia, Biotecnologie, Sc. Biologiche, Fisioterapia, Ed. Professionale, Tecnico Lab. Biomedico. School of Medicine, University of Genoa, Italy

EXPERIENCE

MAIN SEMINARS

2024 42° National Citometry Conference GIC 2024. Title: “How to identify human NK cells subsets and characterize their adaptation to environmental stimuli”

2023 Clinical and Experimental Immunology PhD seminars, University of Genoa, Italy Title: “Human NK cell adaptation to environmental stimuli: the CMV effect”

2019 Highlights in Immunology and Oncohaematology, Rome. Titolo: “Human NK cells adaptation to environmental stimuli”

2019 Immunology and Immunohaematology meetings at Ospedale Pediatrico Bambin Gesù, Rome. Title: “CMV-driven differentiation of adaptive NK cells in Hematopoietic Stem Cell Transplantation”

2018 KIR WORKSHOP, Camogli. Title: “Late development of FcεRy^{neg} adaptive NK cells upon HCMV reactivation in UCBT recipient”

2016 Immunology and Immunohaematology meetings at Ospedale Pediatrico Bambin Gesù, Rome. Title: “Cellule NK nel trapianto aploidentico: Impatto della riattivazione citomegalica”

2015 Stem cells, Cancer, Immunology and ageing, Genoa. Title: “Role of activating HLA class I-specific receptors and HCMV in NK cell maturation after HSCT”

2012 3° European Congress of Immunology, Glasgow. Titolo: “Phenotypic and functional heterogeneity of human NK cells developing after intrabone umbilical cord blood

transplantation: a role for human cytomegalovirus?"

SCIENTIFIC RESPONSIBILITY FOR RESEARCH PROJECTS ACCEPTED FOR FUNDING ON THE BASIS OF
COMPETITIVE CALLS INVOLVING PEER REVIEW

2018 – today

AIRC 5x1000 Role: Co-investigator (PI: Sivori S.)
Immunity in Cancer Spreading and Metastasis (ISM) - n. 21147
Associazione Italiana per la Ricerca sul Cancro (AIRC)

2019 - 2023

PRIN2017 Role: Co-investigator (PI: Sivori S.)
"Innovative approaches with genetically modified immune cells to target hematological malignancies - Prot. 2017WC8499_004. Ministero dell'Università e della Ricerca (MUR)

2018 - 2022

AIRC-IG 2017 Role: Co-investigator (PI: Sivori S.)
"Checkpoint inhibitors regulate anti-tumor responses by human NK cells" - n. 20312
Associazione Italiana per la Ricerca sul Cancro (AIRC)

2015 - 2018

AIRC-IG 2014 Role: Co-investigator (PI: Moretta A.)
"Human NK in cancer: mechanism of tumor recognition and tumor escape" n°15704 "
Associazione Italiana per la Ricerca sul Cancro (AIRC)

2010-2018

AIRC 5x1000 Special program and extension program Role: Co-investigator (Resp.scientifico: Moretta A.)
"Innate Immunity in Cancer (IIC): molecular targeting and cellular therapy" n°9962
Associazione Italiana per la Ricerca sul Cancro (AIRC)

2014

Progetto di ricerca di Ateneo 2013. Role: PI
"Ruolo dei recettori KIR attivatori e di NKG2C nelle risposte anti-citomegaliche ed anti-leucemiche mediate dalle cellule NK in corso di trapianto di cellule staminali emopoietiche"
University of Genoa, Italy

2013

Progetto di ricerca di Ateneo 2012. Role: PI
"Ruolo della riattivazione citomegalica nella modulazione delle funzioni e del repertorio recettoriale delle cellule NK umane in corso di HSCT" University of Genoa, Italy

2011-2014

AIRC IG 2010 Role: Co-investigator (PI:Moretta A.)
"Role of NK cells and their receptors in tumor control" n°10643
Associazione Italiana per la Ricerca sul Cancro (AIRC)

2023– today

Immunology Letters editorial board member published by Elsevier as *Federation of Immunological Societies (EFIS)* official journal

2022– today

Associate Editor for *Frontiers in Immunology, NK and Innate Lymphoid Cell Biology*

2022

Guest editor for the Topic on Vaccine “Cancer Immune Escape and Immunotherapy”

PRIZES AND ACCOLADES FOR SCIENTIFIC ACTIVITY, INCLUDING MEMBERSHIP OF ACADEMIES

2013 Fondazione G. Gaslini Award “Young Investigator Award “

2001 Fondazione Telethon Award (progetto Telethon E.0892)

PARTICIPATION IN THE CREATION OF NEW BUSINESS ENTITIES (SPIN-OFFS), DEVELOPMENT, USE AND
COMMERCIALISATION OF ACADEMIC PATENTS

December 2023 Patent: “Nuovo anticorpo monoclonale per l’espansione selettiva di linfociti NK adattativi NKG2C+ NKG2A- e relativo metodo”

Applicant: Università degli Studi di Genova

Priority: IT202300026241A.2023-12-07

Application: IB2024061837W.2024-11-26

Publication: WO2025120448A1.2025-06-12

2011 Patent: "Pan-KIR2DL NK-receptor antibodies and their use in diagnostic and therapy" (n°: EP2287195, data di concessione 23/02/2011)

2011 Patent: "Antibodies binding to receptors KIR2DL1,-2,-3 but not KIR2DS4 and their therapeutic use" (n°: PT1791868, data di concessione 02/05/2011)

2010 Patent: "Compositions and Methods for Regulating NK Cell Activity"(N° US2010291110, data di concessione:18/11/2010)

OTHER EXPERIENCES

2022-today

Clinical and Experimental Immunology PhD“European Label” Tutor

School of Medicine, University of Genoa, Italy

2021-today

Responsible for the experimental part of the project "Immunization of mice for the in vitro production of monoclonal antibodies useful for the identification and characterization of new cellular markers and for the design of new therapeutic approaches against primary and metastatic solid tumors" project authorization (n° 648/2020-PR released on 06/07/2020 protocol DGSAF 0015064

2019**Conference Chairman**

“The International retreat of PhD students in Immunology” SIICA , Camogli, Genova.

2018 – today**Histology and Anatomy academic teachers committee member****2014 – today****Reviewer for scientific projects**

Funding agency Inca (Institut National du Cancer, Call for proposals 2014, 2017, 2018, 2019, 2023, 2024 “Biological and basic sciences for cancer research”).

2012 – today**Reviewer for international scientific journals**

(Cancer research, Frontiers in Immunology, International Immunology, Transplantation Immunology, European Journal of Immunology, HLA, PlosOne, Immunology Letters, Journal of Immunology, Haematologica)