

Claudio Fenizia

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Place and date of birth: Milan, December 17th 1981.

Nationality: Italian.

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Professional experiences

January 2020- present

Adjunct professor and researcher at Laboratory of Immunology, Department of Pathophysiology and Transplantation, University of Milan (Italy).

Project:

- Studies of SARS-CoV2 immunopathology and disease development: virus replication, antibody development and immune correlates of progression to disease.
- *In-vitro* studies of SARS-CoV-2 replication: pharmacological approaches.
- *In-vitro* studies of anti-SARS-CoV-2 devices: UV-light, automatic environment sampler and innovative surgical devices.

January 2017- December 2019

Assistant professor and researcher at Laboratory of Immunology, Department of Pathophysiology and Transplantation, University of Milan (Italy).

Project:

- Study of the immunological response to *ex-vivo* organ perfusion during human lung or liver transplantation procedure.
- Study on the immunomodulation of new therapeutical approaches against chronic lung rejection.
- Evolution of HIV-1 quasi-species and variants among untreated couples.
- Impact of immunomodulants on dendritic cells: the ally within.
- Study on HPV in human sperm.

Tasks:

- To design and develop the study, to set up collaborations, to write manuscripts, fundraising, to set scientific protocols, to perform the experiments and to analyze and present in the lab the data weekly, to write manuscripts.
- Teaching of General Pathology at University of Milan Medical School (75 hours per year). Training master degree and PhD school students (up to 150 hours per year). Co-mentor of one student at University of Milan Medical School.
- Academic board member of Molecular and Translational Medicine Doctorate School at University of Milan.

March 2014- December 2016

Postdoc Researcher at Epigenetic Regulation of Muscle Mass unit, Biosciences Department, University of Milan (Italy).

Project: Study the involvement of SMYD3 as epigenetic regulator in embryogenesis and cancer dissemination.

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Tasks: Bibliographical research, to design and develop the study, to set scientific protocols, to perform the experiments and to analyze and present in the lab the data weekly, to write manuscripts.

Additional tasks: to train bachelor and master degree students, to teach for the program of human molecular biology.

February 2010- February 2014

Postdoc Researcher at Animal Models & Retroviral Vaccine Section, National Cancer Institute (NIH/NCI), Bethesda, MD (USA).

Projects:

- Role of the HTLV-1 protein p30 during infection of human monocytes and dendritic cells.
- Functional studies on monocytes infected by HTLV-1 in vitro.
- Immunological correlates of protection of novel anti-HIV/SIV vaccines in a monkey model.

Tasks: Study design, to set scientific protocols in cellular and molecular biology, to find and set collaborations, to perform the experiments, to present scientific data and to discuss about them weekly with experienced scientists in the branch, in the institute.

Additional tasks: to train several students of different ages and nationalities.

October 2006-December 2009

PhD Student, Molecular and Translational Medicine School: Molecular Medicine of immune and inflammatory reactions, University of Milan. Department of Clinical Sciences, Hospital L. SACCO Milan (Italy) and Animal Models & Retroviral Vaccine Section, National Cancer Institute (NIH/NCI), Bethesda, MD (USA).

Projects: Immunological correlates of protection against HIV infection in a cohort of Exposed Seronegative individuals and in SIV-resistant monkeys. HTLV-2 as possible platform for new antiretroviral vaccines

October 2000-October 2006

Researcher for Master's Degree at Laboratory of Immunology University of Milan. Department of Clinical Sciences, L. SACCO Hospital Milan (Italy).

Projects: Immunological characterization of anti-HIV resistance factors in a cohort of Exposed Seronegative individuals.

Tasks: To acquire experience in molecular and cellular biology techniques working *in vitro* with primary human cells and human retroviruses.

Education

March 2017

In-vivo experimental procedures. Istituto Mario Negri, IRCCS.

December 2009

PhD degree in Molecular and Translational Medicine at "Università degli Studi di Milano"- Milan (Italy). Final grade: excellent.

October 2006

Master's degree in Medical Biotechnology and Molecular Medicine at "Università degli Studi di Milano" – Milan (Italy). Final Grade: 107/110.

July 2005

High school diploma achieved at Liceo Classico C. Beccaria, Milan (Italy). Final Grade: 84/100.

Conferences and meetings

- Claudio Fenizia, Kathryn Jones, Robyn Washington Parks, Sébastien Chevalier, Francis Ruscetti, Cynthia Masison and Genoveffa Franchini. Role of the regulatory proteins p30 and p12 during HTLV-1 Infection of dendritic cells. International Workshop on Viruses, Genes and Cancer 2010, Venice, Italy from 29th-09-2010 to 01st-10-2010.
- Claudio Fenizia, Kathryn Jones, Robyn Washington Parks, Michele Ceribelli, Sébastien Chevalier, Dustin Edwards, Francis Ruscetti, Cynthia Masison and Genoveffa Franchini. The HTLV-1 p30, but not p12/p8 counteracts TLR3 and TLR4 signaling in Human Monocytes and Dendritic cells. HIV/AIDS & Cancer Virology Annual Bethesda Think Tank Meeting, NIH Bethesda, USA, from 10th-11-2011 to 10th-11-2011.
- Claudio Fenizia, Martina Fiocchi, Kathryn Jones, Robyn Washington Parks, Michele Ceribelli, Sébastien Chevalier, Dustin Edwards, Francis Ruscetti, Cynthia Masison and Genoveffa Franchini. The HTLV-1 p30, but not p12/p8

- counteracts TLR3 and TLR4 signaling in Human Monocytes and Dendritic cells. 16th International Conference on Human Retrovirology HTLV and Related Viruses, Montreal, Canada from 26th-06-2013 to 30th-06-2013.
- invited speaker to George Mason University (VA, USA) and to "HIV prevention program" at Hardy middle school (WDC, USA).
 - Chairman and organizer of the seminar "REAL-TIME QUANTIFICATION OF SINGLE RNA TRANSLATION DYNAMICS IN LIVING CELLS", Dr. Tatsuya Morisaki (Department of Biochemistry and Molecular Biology, Colorado State University, USA), at DIPARTIMENTO DI BIOSCIENZE UNIMI from 19th-10-2016 to 19th-10-2016.
 - Invited speaker to 29th meeting "Riunione Nazionale dei Dottorandi di Ricerca in Discipline Biochimiche" Brallo di Pregola (PV) from 05th-06-2017 to 09th-06-2017.
 - "9° Congresso ICAR - Italian Conference on AIDS and Antiviral Research", Siena from 12th-06-2017 al 14th-06-2017.
 - Chairman and organizer of the seminar "HYPOXIA AND INFLAMMASOME ACTIVATION IN CD14+ CD16- CLASSICAL MONOCYTES SHAPE HIV VACCINE CANDIDATE PROTECTIVE RESPONSES" Dr. Genoveffa Franchini (Head, Animal Models and Retroviral Vaccines Section, National Cancer Institute, National Institute of Health (NCI/NIH), Bethesda, MD, USA), at DIPARTIMENTO DI SCIENZE BIOMEDICHE E CLINICHE "L. Sacco" UNIMI from 22nd-03-2018 to 23rd-03-2018.
 - "10° Congresso ICAR - Italian Conference on AIDS and Antiviral Research", Roma from 22nd-05-2018 to 24th-05-2018.
 - Invited speaker at Dr. G. Franchini's lab (Animal Models and Retroviral Vaccines Section, National Cancer Institute, National Institute of Health (NCI/NIH), Bethesda, MD, USA) at "Role of SMYD3 in the regulation of Epithelial-Mesenchymal Transition in breast cancer" from 13rd-04-2019 al 17th-04-2019.
 - Invited speaker at dr. Tim Stasevich (Institute of Genome Architecture and Function and Department of Biochemistry & Molecular Biology, Colorado State University, Fort Collins, CO, USA), for the seminar "Role of SMYD3 in the regulation of Epithelial-Mesenchymal Transition in breast cancer" from 17th-04-2019 to 19th-04-2019.
 - Invited speaker at the congress S.I.F.E.S. e M.R. (Società Italiana Fertilità e Sterilità-Medicina della Riproduzione), Riccione, for the plenary session: "Ricerca dell'HPV nel liquido seminale". from 09th-05-2019 to 11th-05-2019.
 - "11° Congresso ICAR - Italian Conference on AIDS and Antiviral Research", Milan from 05th-06-2019 to 07th-06-2019.
 - Invited speaker at the congress "Malattia oncologica: Approccio multidisciplinare" for the seminar "Immunoterapia dei tumori", Bologna, Italy 9th-11-2019.
 - Selected speaker at the first COVID19 meeting (IAS – AIDS2020) for the seminar "In-utero mother-to-child SARS-CoV-2 transmission", virtual 10th-07-2020.
 - Invited speaker at the press-release of COVID19 meeting (IAS – AIDS2020), virtual 9th-07-2020.

Editorial activity

Editorial Advisory Group member for Cambridge Scholars Publishing. Peer reviewer for Blood journal, Tumori Journal, Acta histochemica journal, AIDS journal.

Awards and grants

- University of Milan, internal funding (Linea2 – 11000€). 2019.
- FABBR funding (3000€). 2018.
- University of Milan, internal funding (Linea2 – 12000€). 2017.
- "Banca del Monte Lombardo" funding grant (25000€). 2016.
- Travel Fellowship for the best presentation at International Workshop -Viruses, Genes and Cancer, Venice, Italy. 2009.
- "Libi Lorini" one-year fellowship to spend abroad during my PhD program (35000€). 2008.

BIBLIOGRAPHY

total number of publication = 30

h index = 14 (Scopus)

total number of citation = 630