

PERSONAL INFORMATION **Fabrizio Chiodo**

 <http://orcid.org/0000-0003-3619-9982>

PROFESSIONAL EXPERIENCE

- 01.10.2020–*current* **Research Assistant Professor, Italian National Research Council (CNR), Institute of Biomolecular Chemistry, Naples, Italy**
- Studying adaptive and innate responses of non-mammalian glyco-conjugates, mostly in the context of conjugate-vaccines, host-pathogen interactions and lung cancer.
- 01.11.2018–*current* **Senior Researcher (Amsterdam Infection and Immunity Institute)**
Molecular Cell Biology and Immunology Department, Amsterdam UMC, Amsterdam.
Independent Researcher in the group of Y. van Kooyk.
-Revealing bacterial carbohydrate-responses exploring gold-nanoparticles (and other synthetic glyco-conjugates) from in vitro models to mass cytometry.
-Studying the roles of bacterial carbohydrates (capsules and LPS) in modulating innate immune responses.
- 16.03.2016–*current* **Invited Lecturer (Profesor Adjunto)**
Faculty of Chemistry, Havana University, Cuba.
-Course: Carbohydrates as vaccines and immune modulators.

EDUCATION and QUALIFICATION

- 2018 **Italian National Scientific Qualification (ASN) for Associate Professor**
(Scientific Field: Organic Chemistry, 03/C1).
- March 2013 **International PhD in Applied Chemistry**
University of Basque Country, San Sebastian, Spain
cum laude and Extraordinary Award (top 10%)
Thesis title: Gold glyco-nanoparticles as multivalent nanocarriers for carbohydrate-antigens.
- July 2008 **Master Degree (300 ECTS) in Chemistry and Pharmaceutical Technologies**
Faculty of Pharmacy, University of Palermo, 110/110 *cum laude*

AWARDS and GRANTS

- 2021: Partner EU-ITN network Glytunes, **500K€** (in collaboration with Y. van Kooyk)
- 2018: Amsterdam Infection and Immunity Institute, Individual Grant, **80.000€**.
- 2017, 2016 and 2015: Erasmus+ KA107 (Mobility between partner countries in the field of higher education): for students and staff exchange Havana University/Leiden University and vice versa. Project coordinator, **81.000€**.

2016: National Natural Science Foundation of China (NSFC)/Joint Research Scheme 2016. **22.000€**, 1st Co-applicant. Collaboration with Dr. B. Tefsen, Xi'an Jiaotong-Liverpool University, Suzhou, China.

2015: Extraordinary Award for PhD Thesis defended in 2013 from University of Basque Country (top 10% 2012/2013).

2014: NWO (Netherlands Organization for Scientific Research) Chemische Wetenschappen (Chemical Sciences): Individual VENI grant for starting independent research. **244.000€**.

Personal Scientific Collaborations

V. Verez-Bencomo, Y. Valdes-Baldin and D. Garcia-Rivera, Finlay Institute for Vaccine Research, Havana, Cuba: Studying the innate roles of bacterial carbohydrates in the context of conjugate-vaccines.

A. Molinaro, A. Silipo and Di Lorenzo, Naples University, Studying immunological carbohydrate-mediated interactions of different LPS and human antigen-presenting cells.

TEACHING (total 120h)

Teacher of Biochemistry in Health and Disease, VUmc, 2019-2021 Biomedical Master course.

Practical Course Leader, VUmc, 2019 Biomedical Bachelor course.

Lecturer Biomaterials, Leiden Institute of Chemistry, Leiden, 2019.

Teacher of Infection and Immunity for Biomedical Sciences (2nd year bachelor curriculum), Immune modulation by pathogens and Glycobiology of Host Pathogens Interactions, LUMC, Leiden, October 2016-2021.

Other Academic Activities

Referee for the following International peer-reviewed journals: ACS Infectious Diseases, ACS Nano, Advanced Biosystems (Wiley), Analyst, Biochemical Society Transactions, Bioorganic Chemistry, BMC Infectious Diseases, Colloids and Surfaces B: Biointerfaces, Carbohydrate Polymers, Current Topics in Medicinal Chemistry, Drug Discovery Today: Technologies, Frontiers in Immunology, Glycoconjugate Journal, Journal of Pharmaceutical and Biomedical Analysis, Molecules, Pure and Applied Chemistry, RSC Chemical Biology, Nanomedicine UK, Nanoscale, Theranostics, Vaccine.

Referee for the following National grants application: Agence Nationale de la Recherche (ANR) Biomedical Innovation 2016, Czech Science Foundation 2020, National Science Centre Poland 2021.

Co-director and direct supervision of 3 PhD students; Director and direct supervision of 2 BSc students and 3 MSs students; Direct supervision of 3 PhD students from personal projects/grants and collaborations. Supervision of 3 PhD students from other collaborations (Department MCBI Amsterdam).

PhD committee Member of Massey University (New Zealand), Lisbon Faculty of Medicine, and Leiden University.

Science Communication Manager and Management Committee Member (National representative) of the COST action 18103, INNOGLY, Innovation with Glycans

Editorial Board Research Topic Frontiers in Immunology: The Role of Glycans in Infectious Disease