

## MARIA SANTORO - CURRICULUM VITAE

### PERSONAL DATA

Date of birth: May 24th 1973

Place of birth: Agrigento, Italy

Citizen: Italy

Languages: Italian, English, French

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### FORMAL EDUCATION

July 2006: PhD in Medical Immunobiology, University of Rome "Tor Vergata".

January 2004: Professional License in Biology, University of Viterbo "La Tuscia".

July 2001: BA in Biological Sciences, University of Rome "Tor Vergata".

### CURRENT POSITION

**29 November 2022:** Associate Professor of Microbiology and Clinical Microbiology at the Laboratory of Virology, Department of Experimental Medicine, Faculty of Medicine University of Rome "Tor Vergata".

### ACCADEMIC POSITIONS

**4 December 2019 - ongoing:** Member of the Board of the Doctorate in Microbiology, Immunology, Infectious Diseases, Organ Transplantation and Related Pathologies (MIMIT) - Director Prof. Francesca Ceccherini Silberstein - University of Rome "Tor Vergata".

**2018 - ongoing:** Member of the School of Specialization in Microbiology and Virology - Director Prof. Sandro Grelli - University of Rome "Tor Vergata".

**1 December 2015–28 November 2019:** Post-doctoral research assistant at the Laboratory of Virology, Department of Experimental Medicine, Faculty of Medicine University of Rome "Tor Vergata".

**2013-2015:** Researcher at the Laboratory of Virology, Department of Experimental Medicine and Surgery, Faculty of Medicine University of Rome "Tor Vergata".

**2008-2013:** Research fellow at the Laboratory of Virology, Department of Experimental Medicine and Surgery, Faculty of Medicine University of Rome "Tor Vergata".

**June-August 2010:** Visiting scholar at the Department of Pathology, Immunology and Laboratory Medicine, University of Florida, Gainesville, FL.

### PUBLICATIONS

H index (Scopus; last access 15/03/2022): 22

Total citations (Scopus; last access: 15/03/2022): 1911

Median impact factor: 4.315

She published **440** scientific publications: **150** *in extenso* on national and international journals, **2** acts concerning workshops, **1** monography, **1** chapter book and **286** abstracts presented at national international scientific meetings (of which **45** in published proceedings).

She published works regard the following main topics: fitness and viral evolution; genotypic, structural, and functional analysis of viral proteins; mechanisms of resistance to antiviral drugs and its impact on viral infection; the impact of the antiretroviral treatments on HIV infection; HIV/AIDS epidemiology.

## AWARDS

1. **Lazio region award 2022:** *Contributi premiali per i ricercatori e assegnisti di ricerca per rafforzarne la condizione professionale e potenziare il sistema della ricerca del Lazio (PROGRAMMA REGIONALE FSE + 2021-2027.)*
2. **Award for the best oral abstract presentation of 2021:** *Virtual European Meeting on HIV & Hepatitis 2021. 25-28 May 2021* (penultimate author; Armenia D et al.; abstract ID: 17).
3. **ICAR 2019 Scientific Committee Awards** for the Basic Science: *11<sup>th</sup> Italian Conference on AIDS and Antiviral Research (ICAR), Milan 5-7 June 2019* (co-author; Alteri C et al.; abstract ID: OC21).
4. **ICAR – CROI Awards 2019 for the Italian Scientific Research:** CROI affiliated event for Italian young investigators; *CROI Seattle, USA, March 4–7, 2019 - Seattle, Washington, 2019* (last author; Armenia D et al.; abstract ID: 2302).
5. **Award for the best Oral Abstract presentation of 2016:** *European Forum 2016. Glasgow – United Kingdom. 22 October 2016* (co-author; Bertoli A et al.; abstract ID: O04).
6. **Award for the best poster:** *XIV Meeting on HIV & Hepatitis, Rome, Italy, 25-27 May 2016* (first author; abstract ID: P 67).
7. **Joep Lange Award** for the best abstract presented: 10th INTEREST Workshop, 3 - 6 May 2016, Yaoundé, Cameroon (last author; Fokam J et al.; abstract: O04).
8. **ICAR – CROI Awards 2015 for the Italian Scientific Research:** CROI affiliated event for Italian young investigators; *CROI Seattle, USA, 23-26 February, 2015* (co-author; Armenia D et al.; abstract ID: 611).
9. **Award for the best abstract presentation:** *6th Italian Conference on AIDS and Retroviruses, Rome, Italy, 25-27 May, 2014* (last author; Di Carlo D et al.; abstract ID: 196).
10. **ICAR – CROI Awards 2014 for the Italian Scientific Research:** CROI affiliated event for Italian young investigators; *CROI Boston, USA, 3-6 March, 2014* (first author; abstract ID: P610).
11. **Award for the best oral presentation:** *3rd Italian Conference on AIDS and Retroviruses, Florence, Italy, 27-29 March, 2011* (first author; abstract ID: CO 01).
12. **Scientific Award ReAd files 2008**, for the best work published between July 1st, 2007 to June 30th June 2008 (co- author; V. Svicher et al.; J Infect Dis. 15:1408-1418, 2008).
13. **Scientific Award G.B. Rossi 2008**, for the best work published between July 1st, 2007 to June 30th June 2008 (co-author; F. Ceccherini-Silberstein et al.; J. Virol. 2007. 81:11507-11519).
14. **Award for the best poster:** XIV International HIV Drug Resistance Workshop, Basic Principles & Clinical Implications, Quebec City, Quebec, Canada, 7-11 June 2005 (co-author; F. Ceccherini-Silberstein et al.; abstract ID: S106).
15. **Award for the best oral presentation:** 3rd European HIV Drug Resistance Workshop, Athens, Greece, March 30th – April 1st, 2005 (co- author, Svicher V et al.; abstract ID: 63).

## PARTICIPATION IN RESEARCH PROJECTS

- **14/10/2021-ongoing:** Co-researcher of the Operational Unit of the HORIZON-HLTH-2021-CORONA-01 project (COVID19 - HERA Incubator) entitled "European Cohorts of Patients and Schools to Advance Response to Epidemics" (EuCARE). Code 101046016.
- **01/09/2021-28/02/2022:** Head of the Operational Unit of the FISIR2020 COVID project entitled "Virological and computational engineering of smart protocols for fast and performant anti-coronaviruses agents screening management". Code FISIR2020IP\_04758.
- **21/06/2020-21/12/2021:** Co-researcher; Gilead project within the 2019 Fellowship Program "Analysis of the HIV reservoir and the transcriptional activity of endogenous retroviruses and their correlation with the viro-immunological and clinical response in virologically suppressed patients".
- **2019- ongoing:** Head of Operative Unit; AIFA 2017 Independent Drug Research project entitled "Strategies to Contain HIV Drug-Resistance Emergence in Virologically Suppressed Patients Requiring Antiretroviral Therapy Optimization: Unraveling the Role of Mutational Burden in PBMCs". Code: TRS-2018-00001336.

- **27/09/2017-ongoing:** Co-researcher; Gilead project within the 2017 Fellowship Program entitled "Evaluation of the impact of the amount of HIV-DNA and resistance stored on the virological outcome of patients who change therapy in the context optimization of antiretroviral therapy in real life".
- **2012-2016:** Collaborator; PRIN project "OMICS Technologies and Systems Biology for the definition of new strategies aimed at controlling viral infections", protocol n ° 2010PHT9NF\_001.
- **2012-2018:** Collaborator; Operative Unit "Omics Applications in the Virological Sector" of the Research Project InterOmics PB05 1st "Development of an integrated platform for the application of" omics "sciences to the definition of biomarkers and diagnostic, predictive, and theranostic profiles", funded by the Ministry of University and Research.
- **2012-2018:** Collaborator; FIRB project RBAP11YS7K\_001, Studio HIRMA "Multidisciplinary study aimed at identifying and characterizing innovative markers capable of defining the role of hepatotropic viruses in the development of hepatocellular carcinoma".
- **2010-2012:** Collaborator; project "Definition of genetic and structural features underlying HIV-1 co-receptor usage" in the context of the National AIDS Research Program announced by the Ministry of Health. Convention 40H41.
- **2010-2012:** Collaborator; project "Ultra-deep pyrosequencing as a tool to evaluate the genetic variability of viruses, and to define markers of clinical relevance: from applied research to routine diagnosis", funded by the Ministry of Health. Code RF-2009-1539999.
- **2009-2014:** Collaborator; European Research Project CHAIN, the "Collaborative HIV and Anti-HIV Drug Resistance Network", Integrated Project no. 223131 funded for 5 years by the European Commission Framework 7 Program.
- **2009-2011:** Collaborator; PRIN project funded by the Ministry of Education, University and Research entitled "Viral replication control strategies based on modification of the cellular environment". Protocol 2008MRLSNZ\_003.
- **2008-2010:** Collaborator; Finalized Research Project entitled "Definition of advanced diagnostic methods for optimizing the use of antiviral drugs" funded by the Ministry of Health. Convention No. 76.
- **2007-2009:** Collaborator; FIRB project "Construction of a National Laboratory for the study of bacterial resistance to antibiotics". Use of mathematical and statistical models for the analysis of bacterial and viral resistance". Prot. 12/07/2007 -0037051.
- **2006-2008:** Collaborator; National AIDS Research Program entitled "Resistance to anti-HIV drugs: Innovative diagnostic methodologies and clinical impact" Convention no. 30G.47.
- **2006-2008:** Collaborator; PRIN Project funded by the Ministry of Education, University and Research entitled "Apoptosis and viral infections: molecular aspects". Protocol 2006067294\_003.
- **2006-2008:** Collaborator; finalized research project (Agreement n. 96) funded by the Ministry of Health, entitled "Immunovirological studies aimed at the clinical and therapeutic management of immunocompromised patients".

## **PROFESSIONAL MEMBERSHIPS**

**2019-2020:** Member of the panel of the Spanish guidelines for HIV drug-resistance.

**2017-ongoing:** Member of the Steering Committee of the Italian PRESTIGIO (Pazienti con Infezione da HIV-1 con RESistenza agli Inibitori della Trascrittasi inversa, dell'InteGrasI e della PrOteasi virale) Registry.

**2016-ongoing:** Member of the Steering Committee of the ARCA (Antiviral Response Cohort Analysis) Database.

**2015-ongoing:** Member of the Steering Committee of the ICONA (Italian Cohort of antiretroviral-naive patients) Study group.

**2012-2017:** Member of the panel of the Italian guidelines for the management of HIV-1 infected patients "Linee Guida Italiane sull'utilizzo dei farmaci antiretrovirali e sulla gestione diagnostico-clinica delle persone con infezione da HIV-1".

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*I authorize the processing of my personal data pursuant to the GDPR and the Legislative Decree 30 June 2003, n. 196 "Code regarding the protection of personal data" for the purposes of Research and Selection of Personnel and business contacts.*

*The undersigned is aware that, pursuant to art. 26 of Law 15/68, false declarations, falsification of documents and the use of false documents are punished under the criminal code and special laws. Pursuant to the D.P.R. 445/2000 certify the truthfulness of what is reported in this curriculum vitae*

*Rome, 15/03/2023*



Maria Santoro