

CURRICULUM VITAE

PERSONAL INFORMATION

Name GIUSEPPINA SANNA
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CURRENT POSITION: Assistant professor (profile 06/MEDS-03 - MICROBIOLOGY AND CLINICAL MICROBIOLOGY, SSD MEDS-03/A). Department of Biomedical Sciences, University of Cagliari (IT)

Short Biography

Giuseppina Sanna is Assistant Professor in Microbiology at the Department of Biomedical Science, Section of Microbiology and Virology, University of Cagliari, Monserrato, Italy. Dr Giuseppina Sanna graduated from the University of Cagliari in 2003 with a Master's degree in Biological Sciences. In 2007, she obtained a PhD in the field of chemotherapy of viral infections. From 2010 to 2012, she led the project "Study of New RNA Virus Inhibitors", which aimed to deepen the knowledge of RNA virus biology by identifying new inhibitors of the RNA virus replication cycle and defining their mechanism of action. Project commissioned and funded by the Autonomous Region of Sardinia (RAS) based on a competitive call and peer review in the framework of the Young Researchers Programme L.R. 7/2007 CRP1_574.

Between 2012 and 2022, she was a postdoctoral researcher working on RNA virus entry mechanisms and natural and pharmacological inhibition of the early phase of viral replication. During her research career, she carried out two stays abroad. In 2014, she was a visiting researcher at the Institute of Virology, Slovak Academy of Sciences, Bratislava, to improve her skills in molecular biology and in particular to study the molecular evolution of hantaviruses.

During 2016-2017, she held the position of Adjunct Associate Research Scientist at Columbia University Medical Center, New York, (Department of Paediatric Infectious Diseases). During this period, Dr. Giuseppina Sanna was involved in a project aimed at studying the mechanisms of entry and membrane fusion mediated by Ebola virus, influenza, and parainfluenza viruses.

During the COVID-19 pandemic, she was an Invited Scientist at the Department of Experimental Medicine, University of Campania "Luigi Vanvitelli", Naples, to study the molecular mechanism of entry of emerging viruses (SARS-CoV-2) into the host cell and to develop strategies to block the entry process using innovative approaches.

She currently works at the University of Cagliari (research and teaching) as a Professor of Microbiology and Parasitology, at the Faculty of Medicine and Surgery.

Dr. Sanna is involved in several international collaborative projects with the Division of Paediatric Infectious Diseases, Columbia University Medical Center, the Federal

Research Centre "Fundamentals of Biotechnology" of the Russian Academy of Sciences, the Leibniz Institute of Plant Biochemistry, Halle, Germany, and the Frankincense Biodiversity Unit, Research Centre, Dhofar University, Salalah, Oman.

Her main research interests are in the fields of virology, microbiology, and antiviral research. Since 2020, she has been involved in the CORIMUN project, which aims to identify clinical and immunogenetic factors in susceptibility to SARS-CoV-2 infection and in COVID-19 clinical outcomes, and to evaluate antibody responses to COVID-19 vaccines. Dr Sanna has published more than 90 papers in international peer-reviewed journals indexed in ISI/WOS, SCOPUS or Medline with more than 2000 citations and an h-index of 27.

She is Associate Editor for The Journal of Infection in Developing Countries and a reviewer for scientific journals, including the Journal of Medical Virology, Scientific Reports, PlosOne, Viruses, European Journal of Medicinal Chemistry, and Pathogens and Diseases.

She is a member of the Italian Society of Virology (SIV-ISV) and the Italian Society of Microbiology (SIM). In 2021, Dr. Sanna obtained the National Scientific Qualification (in Italian Abilitazione Scientifica Nazionale or ASN) for the role of Associate Professor. D.D. 2175/2018, SSD MEDS-03/A, Microbiology and Clinical Microbiology.

RESEARCH AND WORK EXPERIENCE

2021 – 2023

Post-Doctoral Fellow. Project: "Impact of fatty acid lipid metabolism in virome fingerprinting of Covid-19 patients", funded by the Regional Agency for Agricultural Research - AUTONOMOUS REGION OF SARDINIA
University of Cagliari, Department of Biomedical Sciences, Physiology and Microbiology Sections

2020 - 2021

Research fellow within the project '*Natural and Pharmacological Inhibition of the Early Phases of Viral Replication (Virsudnet)*', University of Cagliari, Department of Biomedical Sciences, Microbiology and Virology Section.

2020

Invited scientists as part of research activities related to the SARS-CoV-2 virus and the identification of new targets for the development of innovative antiviral drugs.
MicroNature, an Academic spin-off of the University of Campania Luigi Vanvitelli.

2020 – 2021

Visiting researcher for the development of new models of RNA virus infection (in particular, SARS-CoV-2) causing emerging diseases and predictive assays for diagnosis and therapy. Department of Experimental Medicine, Section of Microbiology and Clinical Microbiology, University of Campania 'Luigi Vanvitelli'.

2017 – 2018

Postdoctoral fellow. PRIN 2015 project: '*Newly developed triazoloquinolones in combination with Pgp inhibitors as a useful chemical probe to study quinolone resistance in Mycobacterium tuberculosis: an approach to tackle an old re-emerging disease with new tools*'. University of Sassari. Department of Chemistry and Pharmacy.

2015 – 2017

Postdoctoral fellow. Project "MC1220, setting up of predictive assays for drug discovery of active compounds on Flaviviridae, Bunya, Paramyxo and Filoviridae".

University of Cagliari, Department of Biomedical Sciences, Microbiology and Virology Section

2016 – 2017

Research scientist. Project "Mechanisms of entry and membrane fusion mediated by Ebola virus, Influenza and Parainfluenza virus" per studiare il meccanismo d'ingresso di Ebola ed Influenza virus". Columbia University Medical Center, (CUMC), New York.

2014 - 2014

Visiting researcher. Project "Molecular Evolution of Hantaviruses and Antiviral Screening against Zoonotic Viruses causing Hemorrhagic Fevers". Institute of Virology, Slovak Academy of Sciences, Bratislava, SK

2012 - 2014

Post-doc Fellowship. Project POR FSE 2007/2013 "Development of a natural extract with anti-retroviral activity to prevent sexual HIV transmission/acquisition, both in ex vivo cell cultures and in cervicovaginal mucosa explants". Neuroscienze Pharmaness SCARL, Pula, Italy, and University of Cagliari

2007 – 2010

Post-doctoral Fellowship. Project CyberSar (PON) ex L. 449/97, "Genomic analysis of drug resistant mutants and molecular simulation techniques for defining the molecular basis of drug resistance applied to the development of new antiviral drugs".

University of Cagliari. Department of Biomedical Science and Technology

2007

Research Fellow, Project "BIOMEDICINA- Development of methodologies for the modeling and study of drugs and biopharmaceuticals"

University of Cagliari. Department of Biomedical Science and Technology

The research activity has produced 90 *extenso* publications in internationally peer-reviewed journals (Scopus database, author ID: 8607240500; citations: 2038); h-index: 27), and more than 50 communications at international and national scientific congresses and conferences.

EDUCATION

15/01/2007

PhD in Chemotherapy Of Viral Infections, awarded 15/01/2007

"Selection and development of microbicides for mucosal use to prevent sexual HIV transmission/acquisition". Supervisor: Paolo La Colla. University of Cagliari, Cagliari, Italy

2003

Qualification as Biologist, State Examination, University of Cagliari, Cagliari, Italy

07/05/2003

Master's Degree in Biological Sciences. Final mark: 110/110 cum laude. Thesis: *"SAR Studies and biological evaluation of New Pyridoisoquinolindione and Dihydrothienoquinolindione Derivatives with Potent Cytotoxic Activity"*. Supervisor: Paolo La Colla. University of Cagliari, Cagliari, Italy

1997-1998

High School Diploma. Final mark: 54/60. Liceo Scientifico "E. Fermi", Nuoro

TRAINING and CERTIFICATION

2021

Training course (art. 37 D.Lgs 81/08 - State-Regions Agreement 21/12/2011) for BSL3 laboratory staff. Prevention and Protection Service, University of Cagliari

2019

B2 CEFR level certificate (or equivalent) in English as a foreign language. TRINITY COLLEGE LONDON

2016

Columbia University Medical Center, (CUMC) Departments of Pediatrics Infectious Diseases, New York City, NY

- *Training in Laboratory Animals: a correct use of the animal model in biomedical research*

- *TC0900: Introduction to the Institute of Comparative Medicine*

- *TC0800: "The Mouse and Rat: Computer Based Training"*

- *TC1200: "Mouse Wetlab"*

- *TC0068: "Compensation, Sponsored Projects and Effort Reporting"*

- *TC0550: "Rodent Barrier Training"*

2015

Specialized training course in radiation safety. University of Cagliari

2012

Clinical Analysis Laboratory. Dr Livio Mereu, via Sanio 3, 09032 Assemini (CA)

Marzo 2003

Habilitation to practice as a biologist. University of Cagliari

2003

Training and orientation internship (L. 196/97, art. 18, Ministry of Labour Decree No 142 of 25-03-98 and Circular No 92 of 15-07-98). **Idenix Pharmaceuticals**

TEACHING EXPERIENCE, QUALIFICATION

2025

Course: Updates in Medical Parasitology. Medicine and Surgery, Faculty of Medicine. University of Cagliari. Co-teacher

2023 - date

Lecturer in Microbiology and Virology (MEDS-03/A), course of studies in BIOMEDICAL LABORATORY TECHNIQUES. Faculty of Medicine. University of Cagliari

2023 - date

Lecturer in Parasitology (MEDS-03/A), course of studies in BIOMEDICAL LABORATORY TECHNIQUES. Faculty of Medicine. University of Cagliari

2023 - date

Lecturer in General Clinical Microbiology (MEDS-03/A), course of studies in Nursing. Faculty of Medicine. University of Cagliari (Nuoro campus)

2023 - date

Faculty Board, Microbiology and Virology Residency (MEDS-03/A) at the University of Cagliari.

2022 - date

Delegate Lecturer for the Integrated Training Course (Art. 37 Legislative Decree 81/08) for BSL3 Laboratory Workers, Prevention and Protection Service, Department of Biomedical Sciences, University of Cagliari.

2021 - date

Associate Professor National Scientific Qualification in Microbiology and Clinical Microbiology (06/A3-MED/07), Italian Ministry of Education, Universities and Research (MIUR)

2018 - 2019

Academic Tutor, Laboratory Medicine and Clinical Microbiology (MED/07). Medicine and Surgery, Faculty of Medicine. University of Cagliari.

2018 - 2019

Academic Tutor, in Histology and Embryology (BIO/17). Faculty of Medicine. University of Cagliari.

2018

Seminar: 'Pathogenic virus infections without specific therapy. Genotypic determination and study of new drugs as part of the Microbiological Analysis I. Specialisation School of Hospital Pharmacy (SSFO), University of Sassari

2016 - 2017

Education/Supervision of MSc students. Columbia University Medical Center (CUMC) Departments of Paediatrics and Infectious Diseases, New York City, NY

2010 - 2013

Supporting teaching through tutoring, laboratory exercises, and seminars. Courses in General Microbiology for students of the BSc in Experimental Biology, Molecular

Microbiology and Virology for students of the MSc in Cellular and Molecular Biology. University of Cagliari.

2007 - 2009

Member of Exam Board, General Microbiology, Degree in Biological Sciences, Faculty of Science MM.FF. NN, University of Cagliari

A.A. 2005-2006 - A.A. 2004-2005

Academic tutor in General Microbiology, Degree in Biological Sciences, Faculty of Science MM.FF. NN, University of Cagliari

ADVICE AND MENTORING

2024

Co-Advisor, MD Thesis "Humoral and Cellular Immune Response After Breakthrough Infections in Orthotopic Liver Transplant Patients who had Received a Primary Vaccination and 1-2 Boosters of SARS-CoV-2 mRNA BNT 162b22". (Sorrentino A.) University of Cagliari.

2023

Co-Advisor, MD Thesis "Neutralization Titers and Antibody Response to SARS-COV-2 after Heterologous Prime-Boost Vaccination with ChAdOx1 nCoV-19 and BNT162b2 in a Sardinian prospective cohort". (Giannone G.) University of Cagliari.

2023

Co-Advisor BSc Thesis "Evaluation of Cytotoxicity and Antiviral Activity of New Coumarin Products by Colorimetric MTT Method". (Piras R.)

2023 - date

Mentor, MD Resident Student at University of Cagliari (Locci L.)

2022 - date

Mentor, MSc Resident Student at University of Cagliari (Manca V., Cogoni M.)

2022

Co-Advisor, BSc Thesis "Evaluation of immune response following booster dose of BNT162b2 mRNA vaccine in patients treated with anti-CD20 therapy". (Manca V.)

2021

Thesis tutoring "Study of antiviral activity of diazadispiroalkane compounds against alpha- and beta- coronaviruses". PhD Course in Life Sciences and Biotechnologies, Sassari University. (Marongiu A.)

2017

Thesis tutoring "Molecular epidemiology of Hantaviruses in Central Europe and antiviral screening against zoonotic viruses causing haemorrhagic fevers". PhD Course in Molecular and Translational Medicine. Joint doctoral thesis between the University of Cagliari and the Comenius University in Bratislava (Szabo R.).

INTERNATIONAL and NATIONAL COLLABORATIONS

Columbia University Medical Center, New York, Division of Pediatric Infectious Diseases.

Professor Anne Moscona, Director, Center for Host-Pathogen Interaction Vice Chair of Pediatrics, Basic Science Research and Professor Matteo Porotto (Viral Molecular Pathogenesis in Pediatrics).

Projects: *"Mechanisms of entry and membrane fusion mediated by Ebola virus, Influenza and Parainfluenza virus"* and *"Mechanism of measles CNS adaptation, viral fusion, antiviral approaches"*

Federal Research Center "Fundamentals of Biotechnology" of the Russian Academy of Sciences, Moscow.

Dr. Vadim A. Makarov, Head of the Laboratory for Biomedical Chemistry.

Project: *Study of the molecular mechanisms underlying HIV resistance to antiretroviral drugs and development of new RT inhibitors.*

Medical University of Warsaw, Department of Medicinal Chemistry, Warsaw.

Dr. Marta Struga, Head of Department of Biochemistry.

Project: *Study and evaluation of molecules of potential use in the prophylaxis and therapy of human and animal infection diseases.*

Biomedical Research Center, Slovak Academy of Sciences, Institute of Virology, Bratislava.

Dr. Boris Klempa, Head of Virus Ecology group.

Project: *Techniques of hantavirus propagation, quantification by immunocytochemistry focus assay, and focus reduction neutralization assays and basic molecular screening techniques.*

Leibniz Institute of Plant Biochemistry, Halle, Germany. Professor Ludger A. Wessjohann. Project: *Identification and characterisation of natural extracts with potential antiviral activity.*

Instituto de Medicina Molecular, Faculdade de Medicina, Universidade de Lisboa, Portugal.

Professor Nuno C. Santos, Head of the Biomembranes Unit.

Frankincense Biodiversity Unit, Research Center, Dhofar University, Salalah, Oman.

Professor Luay Rashan.

Project: *Identification and study of the mechanism of action of natural extracts with potential antiviral activity.*

Department of Medical Sciences and Public Health, University of Cagliari

Prof. Davide Firinu. Project: *"Assessing the main determinants of immunity elicited by SARS-CoV-2 infection and vaccine through integration of immunogenetics, epidemiological and environmental data"*.

Prof. Luchino Chessa. Project: *Corimun, Coronavirus and clinical-immunological aspects.*

Department of Experimental Medicine, University of Study of Campania "Luigi Vanvitelli", Naples.

Professor Massimiliano Galdiero and Department of Medicine and Surgery Dentistry "Scuola Medica Salernitana", University of Salerno, Professor Gianluigi Franci.

Project: *"Natural and pharmacological inhibition of the early phase of viral replication (VirSudNet)"*

Department of Medicine, Surgery and Dentistry "Scuola Medica Salernitana", University of Salerno

Professor Alessandra Rosati

Project: "Monoclonal Antibodies for inhibiting SARS-CoV-2 infection in human cells".

Department of Pharmaceutical Sciences, University of Sassari, Italy

Professor Antonio Carta Head of Laboratory NMR.

Projects: *"Identification and definition of the mechanism of action of new leads, belonging to different classes of inhibitors of the multiplication cycle of RNA virus"* and *"New designed Triazoloquinolones in combination with Pgp inhibitors as useful chemical probe to investigate quinolone resistance in Mycobacterium Tuberculosis: an approach to face an old re-emerging disease with new tools"*.

Department of Biomedical Sciences, University of Sassari, Italy.

Professor Stefania Zanetti, Professor Pietro Cappucinelli.

Project: *Identification and study of the mechanism of action of essential oils with potential antiviral activity.*

GRANTS AND RESEARCH PROJECT PARTICIPATIONS

- 2025 FbS, "Broad Spectrum Inhibition of Respiratory Viruses by Monoclonal Antibodies". Funded by Fondazione di Sardegna 2023 (Principal Investigator).
- 2023 – 2025 PRIN 2022, 20229JZF8M, "Role of IFITM2 in SARS-CoV-2 infection: a potential new target for therapy" Funded by MUR (Member RU).
- 2021 FbS, F73C22001270007 "Assessing the main determinants of immunity elicited by SARS-CoV-2 infection and vaccine through integration of immunogenetics, epidemiological and environmental data", Funded by Fondazione di Sardegna 2021 (Participant).
- 2019–2023 PRIN 2017, 2017M8R7N9_005, "Natural and pharmacological inhibition of the early phase of viral replication (VirSudNet)", Funded by MUR (Participant).
- 2017 – 2020 PRIN 2015, 2015C7PCYZ_001, "New designed Triazoloquinolones in combination with Pgp inhibitors as useful chemical probe to investigate quinolone resistance in Mycobacterium tuberculosis: an approach to face an old reemerging disease with new tools" Funded by MUR (Participant).

- 2015 - date "*Study of antiviral activity of diazadispiroalkane compounds a broad spectrum of emerging viruses*". Principal Investigator Dr. Vadim A. Makarov, Federal Research Center "Fundamentals of Biotechnology" of the Russian Academy of Sciences, Moscow (*Collaborator*).
- 2013 - date "*Design and biological evaluation of molecules of potential use in the prophylaxis and therapy of human and animal infection diseases*". Principal Investigator Prof. Antonio Carta, University of Sassari, (*Collaborator*).
- 2010 - 2012 RAS 'Giovani Ricercatori', L.R.7/2007, "*Studio di nuovi inibitori di RNA virus*". Funded by Regione Autonoma della Sardegna, Grant CRP1_574 (*Principal Investigator*).

Publications

(*senior or corresponding, co-first author)

- 1) **Sanna G***, Riabova O, Kazakova E, Lepioshkin A, Monakhova N, Marongiu A, Franci G, Manzin A and Makarov V (2025). Efficacy of dispirotripiperazine PDSTP in a golden Syrian hamster model of SARS-CoV-2 infection. *Front. Microbiol.* 16:1546946. doi: 10.3389/fmicb.2025.1546946.
- 2) Palmas V, Deledda A, Heidrich V, **Sanna G**, Cambarau G, Foschi M, Puglia L, Cappai EA, Lai A, Loviselli A, Manzin A, Velluzzi F. *Impact of Ketogenic and Mediterranean Diets on Gut Microbiota Profile and Clinical Outcomes in Drug-Naïve Patients with Diabetes: A 12-Month Pilot Study.* *Metabolites.* 2025 Jan 6;15(1):22. doi: 10.3390/metabo15010022.
- 3) Costanzo, G.A.M.L., **Sanna, G***, Pes, F.,...Chessa, L., Firinu, D. *The Effect of Exposure to SARS-CoV-2 Vaccination and Infection on Humoral and Cellular Immunity in a Cohort of Patients with Immune-Mediated Diseases: A Pilot Study.* *Pathogens*, 2024, 13(6), 506
- 4) **Sanna G**, Marongiu A, Firinu D, Piras C, Palmas V, Galdiero M, Atzori L, Caria P, Campagna M, Perra A, Costanzo G, Coghe F, Littera R, Chessa L, Manzin A. *Humoral responses to wild type and ancient BA.1 SARS-CoV-2 variant after heterologous priming vaccination with ChAdOx1 nCoV-19 and BNT162b2 booster dose.* *Clin Exp Med.* 2024 Jan 20;24(1):12. doi: 10.1007/s10238-023-01276-x.
- 5) Cocco A, Paniziutti S, Olla C, Corpino R, Maria Carbonaro C, Carlo Ricci P, Melis N, Caria P, **Sanna G**, Zysman-Colman E, Secci F. *Design, Synthesis, and Photophysical Characterization of Biocompatible Thermally Activated Delayed Fluorescent Carbazole-Coumarins for Sensing Applications.* *Chemistry.* 2024 Oct 1;30(55):e202401263.
- 6) Dell'Annunziata, Federica, Folliero, Veronica, Marca, Roberta Della, Palma, Francesca, **Sanna, Giuseppina**, De Filippis, Anna, Pagliano, Pasquale, Manzin, Aldo, Franci, Gianluigi, Galdiero, Massimiliano, *Repurposing the Antibacterial Activity of the Drug Teniposide Against Gram-Positive Bacteria*, *Cellular Microbiology*, 2024, 9389729, 22 pages, 2024. <https://doi.org/10.1155/2024/9389729>
- 7) Manca, V., Chianese, A., Palmas, V., Manzin, A., **Sanna, G***. *Exploring the Antiviral Potential of Esters of Cinnamic Acids with Quercetin.* *Viruses*, 2024, 16(5), 665.
- 8) Zannella C, Chianese A, Monti A, Giugliano R, Morone MV, Secci F, **Sanna G**, Manzin A, De Filippis A, Doti N, Galdiero M. *SARS-CoV-2 Fusion Peptide Conjugated to a Tetravalent Dendrimer Selectively Inhibits Viral Infection.* *Pharmaceutics.* 2023 Dec 17;15(12):2791. doi: 10.3390/pharmaceutics15122791.
- 9) Costanzo GAML, Deiana CM, **Sanna G**, Perra A, Campagna M, Ledda AG, Coghe F, Palmas V, Cappai R, Manzin A, Chessa L, Del Giacco S, Firinu D. *Impact of Exposure to Vaccination and Infection on Cellular and Antibody Response to SARS-CoV-2 in COVID Patients Through COVID-19 Pandemic.* *J Clin Immunol.* 2023 Dec 22;44(1):12. doi: 10.1007/s10875-023-01616-2.
- 10) De Novellis D, Folliero V, Giudice V, Pezzullo L, **Sanna G**, Fontana R, Guariglia R, Zannella C, Mettievier L, Ferrara I, Boccia G, Buonanno

- MT, Martorelli MC, Luponio S, Crudele A, Pagliano P, Sessa AM, Velino F, Langella M, Manzin A, Galdiero M, Selleri C, Franci G, Serio B. *Effective Neutralizing Antibody Response Against SARS-CoV-2 Virus and Its Omicron BA.1 Variant in Fully Vaccinated Hematological Patients*. *Clinical and Experimental Medicine*, 2023, 23(8), pp. 4943–4953
- 11) Chianese A, Zannella C, Monti A, Doti N, **Sanna G**, Manzin A, De Filippis A, Galdiero M. Hylin-a1: A Pan-Inhibitor against Emerging and Re-Emerging Respiratory Viruses. *Int J Mol Sci*. 2023 Sep 9;24(18):13888. doi: 10.3390/ijms241813888.
 - 12) Lane, T., Makarov, V., Nelson, J.A.E., **Sanna, Giuseppina**, ...Suchy, A., Ekins, S. N-Phenyl-1-(phenylsulfonyl)-1H-1,2,4-triazol-3-amine as a New Class of HIV-1 Non-nucleoside Reverse Transcriptase Inhibitor *Journal of Medicinal Chemistry*, 2023, 66(9), pp. 6193–6217
 - 13) Ibba, R., Corona, P., Nonne, F.,... **Sanna, Giuseppina**, Piras, S., Carta, A. Design, Synthesis, and Antiviral Activities of New Benzotriazole-Based Derivatives *Pharmaceuticals*, 2023, 16(3), 429
 - 14) Basile, A., Zannella, C., De Marco, M., **Sanna Giuseppina**...Turco, M.C., Spike-mediated viral membrane fusion is inhibited by a specific anti-IFITM2 monoclonal antibody. *Antiviral Research*, 2023, 211, 105546
 - 15) Fobofou, S.A.T., Franke, K., Brandt, W.,...**Sanna, G.**, Bichromonol, a dimeric coumarin with anti-HIV activity from the stem bark of *Hypericum roeperianum*. *Natural Product Research*, 2023, 37(12), pp. 1947–1953
 - 16) Dettori, T.; **SANNA, G*.**; Cocco, A.; Serreli, G.; Deiana, M.; Palmas, V.; Onnis, V.; Pilia, L.; Melis, N.; Moi, D.; Caria, P.; Secci, F. Synthesis and Antiproliferative Effect of Halogenated Coumarin Derivatives. *Molecules* 2022, 27, 8897. <https://doi.org/10.3390/molecules2724889>.
 - 17) Zannella, C.; Chianese, A.; Greco, G.; Santella, B.; Squillaci, G.; Monti, A.; Doti, N.; **SANNA, G.**; Manzin, A.; Morana, A.; De Filippis, A.; D'Angelo, G.; Palmieri, F.; Franci, G.; Galdiero, M. Design of Three Residues Peptides against SARS-CoV-2 Infection. *Viruses* 2022, 14, 2103. <https://doi.org/10.3390/v14102103>
 - 18) Dell'Annunziata, F.; Folliero, V.; Palma, F.; Crudele, V.; Finamore, E.; **SANNA, G.**; Manzin, A.; De Filippis, A.; Galdiero, M.; Franci, G. Anthraquinone Rhein Exhibits Antibacterial Activity against *Staphylococcus aureus*. *Appl. Sci.* 2022, 12, 8691. <https://doi.org/10.3390/app12178691>
 - 19) Davide Firinu, Giuseppe Fenu, **GIUSEPPINA SANNA**, Giulia A. Costanzo, Andrea Perra, Marcello Campagna, Roberto Littera, Carlotta Locci, Alessandra Marongiu, Riccardo Cappai, Maurizio Melis, Germano Orrù, Stefano Del Giacco, Ferdinando Coghe, Aldo Manzin, Luchino Chessa. Evaluation of humoral and cellular response to third dose of BNT162b2 mRNA COVID-19 vaccine in patients treated with B-cell depleting therapy. *Journal of Autoimmunity* 2022. <https://doi.org/10.1016/j.jaut.2022.102848>.
 - 20) Ferravante C, **SANNA G***, Melone V, Fromentier A, Rocco T, D'Agostino Y, Lamberti J, Alexandrova E, Pecoraro G, Pagliano P, Astorri R, Manzin A, Weisz A, Giurato G, Galdiero M, Rizzo F, Franci G. Nasopharyngeal virome analysis of COVID-19 patients during three

- different waves in Campania region of Italy. *J Med Virol.* 2022. doi: 10.1002/jmv.27571. *: co-primo autore
- 21) **SANNA G.***, Marongiu A., Firinu D., Piras C., Franci G., Galdiero M., Pala G., (...), Manzin A. Neutralizing Antibodies Responses against SARS-CoV-2 in a Sardinian Cohort Group Up to 9 Months after BNT162b2 Vaccination. *Vaccines* 2022, 10,531. <https://doi.org/10.3390/vaccines100405311>.
 - 22) Madeddu, S.; Ibba, R.; **SANNA, G.***; Piras, S.; Riu, F.; Marongiu, A.; Ambrosino, A.; Caria, P.; Onnis, V.; Franci, G.; Manzin, A.; Carta, A. Human Enterovirus B: Selective Inhibition by Quinoxaline Derivatives and Bioinformatic RNA-Motif Identification as New Targets. *Pharmaceuticals* 2022, 15, 181. <https://doi.org/10.3390/ph15020181>.
 - 23) Serge A. T. Fobofou, Katrin Franke, Wolfgang Brandt, Aldo Manzin, Silvia Madeddu, Gabriele Serreli, **GIUSEPPINA SANNA*** & Ludger A. Wessjohann (2022) Bichromonol, a dimeric coumarin with anti-HIV activity from the stem bark of *Hypericum roeperianum*, *Natural Product Research*, DOI: 10.1080/14786419.2022.2110094. *: co-senior e autore corrispondente
 - 24) Andrea Cocco, Paola Caria, **GIUSEPPINA SANNA**, Luigi Stagi, Enzo Cadoni, Riccardo Corpino, Pier Carlo Ricci, Carlo Maria Carbonaro, and Francesco Secci. Synthesis and Photophysical Properties of Fluorescent 6-Aryl-D- π -A Coumarin Derivatives. *ACS Omega* 2021 6 (49), 33708-33716 DOI: 10.1021/acsomega.1c04810
 - 25) Carla Zannella, Rosa Giugliano, Annalisa Chianese, Carmine Buonocore, Giovanni Andrea Vitale, **GIUSEPPINA SANNA**, Federica Sarno, Aldo Manzin, Angela Nebbioso, Pasquale Termolino, Lucia Altucci, Massimiliano Galdiero, Donatella de Pascale, Gianluigi Franci. Antiviral Activity of *Vitis vinifera* Leaf Extract against SARS-CoV-2 and HSV-1. *Viruses* 2021,13(7), 1263. <https://doi.org/10.3390/v13071263>
 - 26) David Collu, Luisa Marras, Adriana Sanna, Gerolamo Carrucciu, Antonella Pinna, Valentina Carraro, **GIUSEPPINA SANNA**, and Valentina Coroneo. Evaluation of growth potential and growth dynamics of *Listeria monocytogenes* on ready-to-eat fresh fruit. *Ital J Food Saf.* 2021 Mar 11; 10(1): 9337. doi: 10.4081/ijfs.2021.9337
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- 1) **CHAPTER IN A TEXTBOOK.** Pricl S, Manfredini S, Angusti A, Ciliberti N, Durini E, Vertuani S, Buzzoni L, Coslanich A, Ferrone M, Fermeglia M, Paneni MS, La Colla P, **SANNA G**, Cadeddu A, Mura M. and Loddo R. Hindered nucleoside analogs as inhibitors of HCV RNA-dependent RNA polymerase: evolving vistas. In: "Framing the knowledge of viral hepatitis", edited by Schinasi R.F. and Schiff E.R. IHL Press, Division of Informed Horizons, LLC, GA 30349 USA, p. 279-318 (2006). ISBN: 978-0-9754188-1-9.

PRESENTATIONS

- 1) 52nd National Congress of the Italian Society of Microbiology (SIM). **Poster:** Effect of vaccination and SARS-COV-2 infection on humoral and cellular immunity in a cohort of patients with immune-mediated diseases (IMID)'. Pavia, 8-11 **September 2024**
- 2) 8th National Congress of the Italian Society of Virology. **Poster:** Humoral and cellular immune response after breakthrough infection in orthotropic liver transplant patients who received 3 or 4 doses of SARS-COV-2 mRNA BNT162b2 vaccine. Bologna, 7-9 **July 2024**
- 3) 51nd National Congress of the Italian Society of Microbiology (SIM). **Selected for oral presentation and awarded Best Poster** in Section: Microbiological Diagnosis and Control, Microbiological Surveillance. Efficacy of dispirotripiperazine PDSTP in a golden Syrian hamster model of SARS-CoV-2 pneumonia. Cagliari, 24-27 **September 2023**

- 4) 7th National Congress of the Italian Society of Virology. **Poster:** N-Phenyl-1-(Phenylsulfonyl)-1h-1,2,4-Triazol-3-Amin derivatives as new HIV-1 RT inhibitors. Brescia 25-27 **June 2023**
- 5) 7th National Congress of the Italian Society of Virology. **Poster:** 'Inhibition of Enterovirus A71 by a new oxochroman derivative'. Brescia 25-27 **June 2023**
- 6) 50th National Congress of the Italian Society of Microbiology (SIM) (Virtual Congress). **Poster:** 'Neutralization titers and Antibody Response to Heterologous Prime-Boost Vaccination with ChAdOx1 nCoV-19 and BNT162b2 in a Sardinian cohort group'. Naples, 18-21 **September 2022**
- 7) 6th National Congress of the Italian Society of Virology (SIV-ISV), 'VirSudNet Symposium'. **Oral presentation:** 'Three Years of a National Projects on Antivirals within the COVID-19 pandemic' Naples, 5 **July 2022**
- 8) 6th National Congress of the Italian Society of Virology (SIV-ISV). **Poster:** 'Development of protective immunity after the third dose of BNT162b2 in subjects with immune-mediated inflammatory disease (IMIDs) and treated with anti-CD20 drugs'. Naples, 3-5 **July 2022**
- 9) 49th National Congress of the Italian Society of Microbiology (SIM) (Virtual Congress). **Poster:** 'Rare biscoumarin with significant anti-HIV-1 activity from Hypericum roeperianum. 16-17 September and 20-21 **September 2021**
- 10) 5th National Congress of the Italian Society of Virology (SIV-ISV). **Poster:** 'Neutralizing antibodies responses against SARS-CoV-2 in sardinian cohort group'. (Virtual Congress). 5-6 **July 2021**
- 11) 48th National Congress of the Italian Society of Microbiology (SIM) (Virtual Congress). **Oral presentation:** 'Antiviral Effect of Hornstedtia bella Škorničk essential oil from the whole plant, leaves, and rhizomes against vaccinia virus (VV)'. 21-22 **September 2020** and 18 November 2020
- 12) Congress '*Essential Oils in Clinical Practice*'. **Oral communication:** 'Essential Oils in Virology', session Clinical and Experimental Microbiology. Organized by the Department of Biomedical Sciences, University of Sassari, in collaboration with Hue University of Medicine and Pharmacy, Vietnam. Sassari. 27 **February 2020**
- 13) 46th National Congress of the Italian Society of Microbiology (SIM). **Poster:** 'Potent and Selective Inhibition Of Thymelaea Hirsuta Extracts Against Human Immunodeficiency Virus (HIV)-1'. Palermo, 26-29 **September 2018**
- 14) 45th National Congress of the Italian Society of Microbiology (SIM). **Poster:** 'Quinoxaline derivatives as new inhibitors of Cocksackievirus B5'. Genoa, Palazzo Ducale 27 - 30 **September 2017**

- 15) "UNICA & Imprese congress". **Oral Communication:** "New frontiers of biomedicine for the development of diagnostic and therapeutic strategies for the management of infectious and tumour diseases". Cagliari, Caesar's Hotel, 5-6 **November 2015**
- 16) 13th National Congress of the Italian Society of Virology (SIV-ISV). **Poster:** 'New benzothiazol thiourea derivative as nonnucleoside inhibitor of HIV-1 Reverse Transcriptase'. Orvieto, 14-16 **September 2015**
- 17) 28th International Conference on Antiviral Research (ICAR). **Poster:** "Limonoids from Melia Azeradach Fruits as Inhibitors of Flaviviruses". Roma, 11-14 **May 2015**
- 18) 11th National Congress of the Italian Society of Virology (SIV). **Poster:** 'Potent and Selective Activity of Daphnane Diterpens against HIV-1, HIV-2 and Cocksackievirus'. Orvieto, 17-19 **September 2012**
- 19) 10th National Congress of the Italian Society of Virology (SIV). **Poster:** 'Phenyl-benzotriazoles: new potent and selective inhibitors of Respiratory Syncytial and Hanta viruses. Orvieto, 12-14 **September 2011**

CONFERENCE PROCEEDINGS

- 1) Laura Locci, Valeria Manca, Marta Cogoni, Rebecca Piras, Luca Viridis, Roberta Ibba, Vanessa Palmas, Sandra Piras, Ilenia Lupinu, Antonio Carta, GIUSEPPINA SANNA, Aldo Manzin. Exploring the anti-Poxvirus Activity of Novel benzimidazole derivatives as entry Inhibitors. 52th National Congress of the Italian Society of Microbiology (SIM), Pavia, 8-11 September 2024
- 2) Maria Vittoria Morone, Annalisa Chianese, Carla Zannella, Rosa Giugliano, Francesco Foglia, Valeria Manca, GIUSEPPINA SANNA, Anna De Filippis, Aldo Manzin, Antonio Morone, Massimiliano Galdiero. Silver nanoparticles produced by Pulsed Laser Ablation in Liquid (PLAL) against coronavirus infections. 52th National Congress of the Italian Society of Microbiology (SIM), Pavia, 8-11 September 2024
- 3) Flora Salzano, Veronica Folliero, GIUSEPPINA SANNA, Nicoletta Capuano, Federica Dell'annunziata, Giuseppe Di Siervi, Tiziana Ascione, Pasquale Pagliano, Aldo Manzin, Gianluigi Franci. Project Overview: Complex interaction between the human proteome and the HIV genome. 52th National Congress of the Italian Society of Microbiology (SIM), Pavia, 8-11 September 2024
- 4) Annalisa Chianese, Carla Zannella, Maria Vittoria Morone, Bianca Maria Nastri, Vanessa Palmas Alessandra Monti, Nunzianna Doti, Maria Carmina Scala, Marina Sala, GIUSEPPINA SANNA, Anna De Filippis, Aldo Manzin, Massimiliano Galdiero. Hylin-a1 antiviral potential against West-Nile virus infection. 52th National Congress of the Italian Society of Microbiology (SIM), Pavia, 8-11 September 2024
- 5) V. Manca, V. Palmas, A. Basile, L. Marzullo, A. C. Turco, A. Rosati, A. Manzin and G. SANNA. Broad spectrum inhibition of respiratory viruses

- by monoclonal antibodies. 8th National Congress of the Italian Society for Virology, One Virology One Health - Bologna, July 7-9, 2024
- 6) Valeria Manca, GIUSEPPINA SANNA, Roberta Ibba, Vanessa Palmas, Veronica Folliero, Sandra Piras, Laura Sanna, Antonio Carta, Aldo Manzin. Novel benzimidazole derivatives as potent and selective anti Poxvirus agents. 52th National Congress of the Italian Society of Microbiology (SIM), Cagliari, 25-28 September 2023
 - 7) Marongiu A., Piras R., Firinu D., Palmas V., Piras C., Atzori G. F., Ruffi M.C., Campagna M., Perra A., Del Giacco S., Chessa L., SANNA G. and Manzin A. Strong Humoral Immune Response induced by Heterologous Prime-Boost Vaccination with ChAdOx1 nCoV-19 and BNT162b2 in a Sardinian cohort group: preliminary data. YOUNG MINDS AT WORK: Blending Biology and Bioinformatics On-line workshop - 16th December 2022
 - 8) Morone Maria Vittoria, Chianese Annalisa, Donadio Giuliana, Nebbioso Angela, Sian Veronica, Greco Giuseppe, SANNA GIUSEPPINA, Amitrano Sergio, Altucci Lucia, Galdiero Massimiliano, Dal Piaz Fabrizio, Franci Gianluigi. Identification of interactions between human nuclear proteins and HPV16 genome. 50th National Congress of the Italian Society of Microbiology (SIM). Napoli, 18-21 September 2022.
 - 9) Maria Clara Ruffi, G. SANNA, Carla Maria Deiana, A. Marongiu, G. Franci, M. Galdiero, C. Piras, G. Pala, V. Palmas, R. Littera, M. Vacca, R. Jammoul, A. Perra, F. Sedda, M. Campagna, F. Pes, M. Erbi, F. Meloni, A. Manzin, Stefano del Giacco, D. Firinu, L. Chessa. CORRELATION BETWEEN ANTIBODY RESPONSE AND NEUTRALIZATION CAPABILITY INDUCED BY SARS-COV-2 VACCINE BNT162b2 IN THE CORIMUN STUDY. EAACI Hybrid Congress, 01 - 03 July 2022
 - 10) Silvia Madeddu, GIUSEPPINA SANNA, Sudipta Biswas, Christopher A. Alabi, Matteo Porotto. Multivalent-Zanamivir analogs as potent Influenza Virus Inhibitors. 46th National Congress of the Italian Society of Microbiology (SIM). Palermo, 26-29 September 2018.
 - 11) Noble, A, SANNA, G, Palermo, LM, Potter, C, Carragher, B, Porotto M, Moscona, A. STRUCTURAL REARRANGEMENTS IN THE PARAMYXOVIRUS FUSION COMPLEX IN THE PRESENCE OF A NOVEL ANTIVIRAL. Annual Retreat of the Department of Physiology & Cellular Biophysics, Columbia University Medical Center. The New York Academy of Medicine, New York NY 10029, 2016, November 4th.
 - 12) Madeddu S, SANNA G, Giliberti G, Falconieri D, Porcedda S, Piras A. Antiviral activity of some aromatic and medicinal plants against RNA virus: preliminary study. 6th International Congress on Medicinal and Aromatic Plants (CIPAM 2016). Coimbra, Portugal: 29 May - 1 June 2016.
 - 13) G. Giliberti, S. Asthana, S. Blois, G. SANNA, B. Busonera, R. Loddo and P. La Colla. A Computationally Based Explanation for the Knocking Out Activity of the Microbicide MC1220. 11TH National Congress of the Italian Society for Virology. 17-19 September 2012. Orvieto, Italy.
 - 14) Filippo Cottiglia, Laura Casu, Marco Leonti, Pierluigi Caboni, Costantino Floris, Bernardetta Busonera, Pamela Farci, Aicha Ouhtit and GIUSEPPINA SANNA. Bioguided-isolation of cytotoxic phloroglucinols from the leaves of myrtus communis l. Convegno La Chimica della Vita: da alimenti funzionali a principi attivi. 29-30 September 2011. Catanzaro, Italy.

- 15) S. Blois, G. SANNA, B. Secci, G. Giliberti, E. Marongiu, R. Loddo and P. La Colla. 1,2-benzisothiazol-3(2H)-one benzenesulfonamides targeting the HIV nucleocapsid proteins are potential microbicide candidates for the prevention of mucosal HIV transmission/acquisition. 4th European Congress of Virology. 7-11 April 2010. Cernobbio (CO), Italy
- 16) Blois S., Giliberti G., SANNA G., Secci B., Marongiu E., Loddo R. and La Colla P. 1,2-benzisothiazol-3(2H)-one benzenesulfonamides as new microbicide candidates for prevention of mucosal HIV infections. Europrise annual conference. 15-18 November 2009. Budapest, Hungary.
- 17) Blois S., Marongiu E., SANNA G., Collu G., Secci B., Giliberti G., Loddo R., Pedersen E., De Giuli Morghen C., Stahl-Hennig C., and La Colla P. Results on different formulations of an NNRTI candidate (MC 1220) for application as topical microbicide. 9th National Congress of the Italian Society of Virology. 7-9 September 2009. Orvieto, Italy.
- 18) Secci B., SANNA G., Collu G., La Colla P. and Loddo R. Polymers as potent inhibitors of HIV-1. Europrise, Rational Design of HIV: Vaccines and Microbicides Network Annual Conference. 2008, Malta.
- 19) Spallarossa A., Cesarini S., Rotolo C., Fossa P., Mosti L., Ranise A., SANNA G., Collu G., Secci B., Busonera B., La Colla P. and Loddo R. Further SAR studies on bicyclic basic merbarone analogues as potent antiproliferative agents. National Meeting on Medicinal Chemistry. 2008, Verona, Italy.
- 20) Vargiu L., Collu G., SANNA G., Cabras A. and La Colla P. Pharmacokinetic studies on indolyl aryl sulphones (IAS), a new generation of NNRTIS endowed with broad-spectrum activity against clinically relevant HIV-1 resistant mutants. 2003, Cortona, Italy
- 21) Prici S., Ferrone M., Posocco P., Fermeglia M., SANNA G., Collu G., La Colla P., Loddo R., Sias A., Piras S., Carta A. Chasing the evaders. Design, synthesis, activity and molecular modelling of a new small molecule with activity against drug-resistant HIV-1 mutants. HIV DART 2006: Frontiers in drug development for antiretroviral therapies. 2006, Cancun, Mexico.
- 22) Loddo R., SANNA G., Collu G., Busonera B., Blois S., Giliberti G., La Colla P. In vitro evaluation of the anti-HIV-1 activity of Liposomes and gel ingredients. 8° Convegno Federazione Italiana Scienze della Vita. 2006, Riva del Garda, Italy.
- 23) Loddo R., SANNA G., Collu G., Busonera B., Blois S., Giliberti G., and La Colla P. MC1220 as knocking out NNRTI to prevent sexual transmission of HIV. XXV National Conference SIMGBM Italian Society of General Microbiology and Microbial Biotechnology. 8-10 June 2006.
- 24) Prici S., Coslanich A., Fermeglia M., Ferrone M., Paneni M.S., Loddo R., Cabizza A., SANNA G., Murreddu M., La Colla P. Prediction of HIV-1 resistance to NNRTIs: a computer-aided molecular-based rationale. 1: 47-48 (2004) HIV Dart 2004, Montego Bay, Jamaica.
- 25) Tonelli M., Canu C., Tasso B., Boido V., Sparatore F., Busonera B., Collu G., SANNA G., La Colla P., Loddo R. Triazene derivatives endowed with antiproliferative and antiviral activities. Joint Meeting on Medicinal Chemistry. 2005, Vienna.
- 26) Cesarini S., Ranise A., Spallarossa A., Schenone S., Bondavalli F., Bruno O., Menozzi G., Fossa P., Mosti L., Loddo R., Collu G., SANNA G., Murreddu M., Busonera B., Secci B., Visioli A., Ibba C., and La Colla P.

Structure-based design, parallel synthesis and SAR studies of thiocarbamates, non-nucleoside HIV-1 reverse transcriptase inhibitor isosteres of Trogidone. Second Joint Italian-Swiss Meeting on Medicinal Chemistry. 2005, Modena, Italy.

- 27) Prici S., Coslanich A., Fermeglia M., Ferrone M., Paneni M.S., Loddo R., Cabizza A., SANNA G., Murreddu M., La Colla P. Prediction of HIV-1 resistance to NNRTIs: a computer-aided molecular-based rationale. HIV Dart 2004, Frontiers in Drug Development for Antiretroviral Therapies. 2004, Montego Bay, Jamaica.
- 28) Vitale G., Loriga M., SANNA G., Busonera B., La Colla P., Paglietti G. XVII Convegno Nazionale della Divisione di Chimica Farmaceutica della Società Chimica Italiana. 2004, Pisa, Italia.
- 29) Marturana F., Cadeddu A., Collu G., SANNA G., and La Colla P. Dabos as virucidal agents to prevent sexual transmission of HIV. 2003, Cortona, Italia.

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Cagliari, 03.04.2025

