

CURRICULUM VITAE ET STUDIORUM
Professor Roberta Loddo

Present academic position Since 23/12/2019 Associate Professor at the Department of Biomedical Sciences, Competition Sector 05/I2 - Microbiology, SSD BIOS-15/A, University of Cagliari.

Workplace Department of Biomedical Sciences – Section of Microbiology and Virology, University of Cagliari; Cittadella Universitaria s.p.8, 09042 Monserrato, Cagliari.
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Studies

- 1999 Biological Sciences Degree with honors, University of Cagliari.
Title: “Conjugated Peptide T:araC. Solid phase synthesis and biological activity of N4-acilpeptidil-araC”. Supervisor: Prof. Paolo La Colla.
- 2000-2001 Course in Neuropharmacology, University of Cagliari.
- 2001 Certificate of qualification to practice as a biologist (30/30).
- 2000-2001 Internship at the Department of Experimental Biology, Section of Microbiology, University of Cagliari.
- 2000-2004 PhD in General and Clinical Microbiology at Università Cattolica del Sacro Cuore, Rome.
Thesis: “Design and evaluation of the anti-*Flaviviridae* activity of new synthetic compounds”. Coordinator: Prof. Giovanni Fadda. Supervisor: Prof. Paolo La Colla.
- 2001 1 month internship training and orientation at the Cooperative Laboratory Novirio Pharmaceuticals - University of Cagliari, Cittadella universitaria, Monserrato.

Academic Appointments

2005-2019 Researcher in Microbiology SSD BIO/19 at the Faculty of Biology and Pharmacy, University of Cagliari.

2019-present Associate Professor SSD BIOS-15/A at the Faculty of Biology and Pharmacy, University of Cagliari.

Teaching Activities

Teacher for the following courses at the University of Cagliari:

- 2023-present Microbiology (Course of studies in Health Professions of Prevention, integrated course in Safety in Health Services, 2 CFU, 12 hours).
- 2023-present Microbiology with Laboratory (3-year Degree Course in Biotechnology, curriculum in Industrial and Environmental Biotechnology, 7 CFU, 68 hours).
- 2019- 2023 Microbiology with Laboratory (3-year Degree Course in Biotechnology, curriculum in Industrial and Environmental Biotechnology, 8 CFU, 76 hours).
- 2019-present Microbial Biotechnology Laboratory (3-year Degree Course in Biotechnology, curriculum in Industrial and Environmental Biotechnology, 3 CFU, 36 hours).
- 2009-2015 General Microbiology (Bachelor's Degree in Industrial Biotechnology).
- 2008-2009 Lab. of Recombinant DNA Technologies I (Master's Degree in Experimental and Applied Biology).
- 2005-2009 Lab. of Microbiological and Virological Techniques (Bachelor's Degree in Experimental Biology).
- 2005-2008 Lab. of Environmental Biotechnology I (Master's Degree in Experimental and Applied Biology).
- 2005-2008 Lab. of Environmental Biotechnology II (Master's Degree in Experimental and Applied Biology).
- 2005-2008 Lab. of Recombinant DNA Technologies I (Master's Degree in Experimental and Applied Biology).
- 2005-2008 Lab. of Recombinant DNA Technologies II (Specialistic Degree Course in Experimental and Applied Biology).
- 2005-2007 Microorganisms with an Applied Character (Bachelor's Degree Course in Industrial Biotechnology).
- 2005-2006 Teacher in the 2nd Level Master's Degree "Microbial and Virological Biotechnologies".

Member of the examination commissions for the following courses:

Microbiology with Laboratory
Microbial Biotechnology with Laboratory
Environmental Microbiology

Thesis Supervisor Five-Year Degree Course in Biological Sciences:

1. Thesis title: “Synthesis and in vitro evaluation of the antiproliferative activity of variously substituted quinoxalines in combination with potent antineoplastic drugs”, graduate student Annacarla Meloni, A.A. 2004-2005;
2. Thesis title: “Structure analogues of MC 1220: SAR studies and evaluation of their ability to irreversibly inhibit HIV-1 multiplication”, graduate student Michela Scanu, A.A. 2004-2005;
3. Thesis title: “Evaluation of the antiviral activity of derivatives of Benzyl-Ethyl-Oxo pyrimidine”, graduate student Gianfranco Secchi, A.A. 2005-2006;
4. Thesis title: “Synthesis and anti-HIV-1 activity of new MKC-442 analogues with the 6-Benzyl Alkynyl group substituted”, graduate student Jacqueline Murgia, A.A. 2006-2007;
5. Thesis title: “Synthesis of 3-phenoxyethyl-2-quinoxalinones and variously substituted diquinoxalins, capable of enhancing in vitro the antiproliferative activity of antitumor drugs in drug-resistant cell lines”, graduate student Simone Musiu, A.A. 2006-2007;
6. Thesis title: “2'-C-Me-nucleosides: potent and selective inhibitors of RNA-viruses”, graduate student Daniela Careddu, A.A. 2007-2008.

Thesis Supervisor, three-year degree in Experimental Biology:

1. Thesis title: “Dengue Fever: epidemiology and therapeutic possibilities”, graduate student Giorgio Flore, A.A. 2004-2005;
2. Thesis title: “Synthesis, antiproliferative activity and SAR studies of piperazine derivatives”, graduate student Ilaria Olla, A.A. 2004-2005;
3. Thesis title: “Techniques for maintaining cell cultures in suspension and in monolayer”, graduate student Alessandra Scano, A.A. 2005-2006;
4. Thesis title: “Titration and evaluation of the cytopathic effect: characterization of viral stocks”, graduate student Martina Piras, A.A. 2005-2006;
5. Thesis title: “Colorimetric method using 3-[4,5-dimethylthiazo-2-yl]-2,5-diphenyltetrazolium bromide: evaluation of the antiproliferative activity of new synthetic compounds”, graduate student Milena Pisu, A.A. 2005-2006;
6. Thesis title: “Electrophoresis and plasma proteins”, graduate student Sara Rombi, A.A. 2005-2006;
7. Thesis title: “Plaque reduction test: evaluation of cytotoxicity and antiviral activity of new synthetic compounds”, graduate student Silvia Serra, A.A. 2005-2006;
8. Thesis title: “Plaque reduction test: evaluation of cytotoxicity and antiviral activity of new synthetic compounds against the Cocksackie virus”, graduate student Roberta Pintus, A.A. 2005-2006;
9. Thesis title: “MTT method: evaluation of cytotoxicity and antiviral activity of new synthetic compounds against the Reo virus”, graduate student Silvia Sitzia, A.A. 2005-2006;

10. Thesis title: "Colorimetric method using 3-[4,5-dimethylthiazol-2-yl]-2,5-diphenyltetrazolium bromide: evaluation of the cytotoxicity and antiviral activity of new synthetic compounds", graduate student Tiziana Ventroni, A.A. 2005-2006.

11. Thesis title: "Synthesis and evaluation of the biological activity of 1,4-dimethyl-9-H-carbazole", graduate student Elisabetta Pinna, A.A. 2006-2007.

Thesis Supervisor, Master's Degree in Experimental and Applied Biology:

1. Thesis title: "Analysis of benzimidazoles as non-nucleoside inhibitors of the Flaviviridae family", graduate student Arianna Mereu, A.A. 2005-2006;

2. Thesis title: "Analysis of benzimidazoles as non-nucleoside inhibitors of respiratory syncytial virus", graduate student Silvia Caocci, A.A. 2006-2007;

3. Thesis title: "Synthesis and antiviral activity in vitro and in silico of [4,7]phenanthrolines and 1-oxo-1,4-dihydro-[4,7]phenanthrolines against viruses with ssRNA+ genome", graduate student Francesca Mallus, A.A. 2006-2007;

4. Thesis title: "Antiproliferative activity of disubstituted analogues of 3,8-bis[2-(3,4,5-trimethoxyphenyl)pyridin-4-yl]methyl-piperazine", graduate student Francesca Spiga, A.A. 2006-2007;

5. Thesis title: "Activity of benzimidazole derivatives, 1-substituted-2-[(benzotriazol-1/2-yl) methyl] benzimidazoles, against ssRNA+ and ssRNA- viruses", graduate student Manuela Podda, A.A. 2006-2007;

6. Thesis title: "Antiviral activity of hydroxycoumarins against Flaviviridae", graduate student Giorgio Flore, A.A. 2006-2007;

7. Thesis title: "Synthesis and evaluation of the biological activity of new substituted 9H-bis-[1,2,4]triazolo[4,3-a:3',4'-d][1,5]benzodiazepines", graduate student Loredana Casti, A.A. 2007-2008;

8. Thesis title: "Synthesis and antiproliferative activity of benzo[D]isothiazole hydrazones", graduate student Eleonora Deiana, A.A. 2007-2008;

9. Thesis title: "Synthesis and evaluation of the anti-HIV-1 activity of 6-trifluoromethylbenzyl and 6-fluorobenzyl analogues of Emivirina and GCA-186", graduate student Marianna Dettori, A.A. 2007-2008;

10. Thesis title: "Synthesis and antiviral activity against Picornaviridae of a new class of helicase inhibitors: N,N'-bis[4-(1H(2H)-benzotriazol-1(2)-yl) phenyl]alkyldicarboxamides", graduate student Claudia Mureddu, A.A. 2007-2008;

11. Thesis title: "Synthesis, properties and anti-HIV-1 activity of aryl nucleoside 5'- α -hydroxyphosphonates", graduate student Valentina Piselli, A.A. 2007-2008;

12. Thesis title: "Synthesis and evaluation of the biological activity of new esterified α -amino acids binding a coumarin side chain", graduate student Milena Pisu, A.A. 2007-2008;

13. Thesis title: "Design, synthesis and anti-Flaviviridae activity of N6-, 5', 3'-O- and 5', 2'-O-substituted adenine nucleoside analogues", graduate student Gianluigi Toro, A.A. 2007-2008;

14. Thesis title: “2'-carboxy-methyl substituted pyrimidine ribonucleoside analogues: potent inhibitors of RNA virus replication”, graduate student Silvia Serra, A.A. 2007-2008;
15. Thesis title: “Evaluation of the antiviral activity and related molecular modeling studies of a new derivative active against NNRTI-resistant HIV-1 mutants”, graduate student Federica Dettori, A.A. 2007-2008;
16. Thesis title: “Antiviral activity of 2-styrylbenzimidazoles against DNA and RNA viruses”, graduate student Maria Raffaella Lucchetta, A.A. 2008-2009;
17. Thesis title: “Synthesis and anti-retroviral activity of new 1,2-benzisothiazol-3(2H) benzenesulfonamides, targeting the HIV nucleocapsid protein”, graduate student Claudia Melis, A.A. 2008-2009;
18. Thesis title: “Synthesis and anti-HIV-1 activity of phosphotriester aryl-nucleoside derivatives”, graduate student Enrica Piras, A.A. 2008-2009;
19. Thesis title: “2-aryl benzimidazoles as antiviral and antiproliferative agents”, graduate student Michele Prost, A.A. 2008-2009;
20. Thesis title: “Biological activity of amino-aryl-azo compounds and aryl-triazenic derivatives”, graduate student Alessia Tintis, A.A. 2008-2009;
21. Thesis title: “Antiviral activity of indole derivatives”, graduate student Sabrina Mugheddu, A.A. 2008-2009;
22. Thesis title: “Synthesis and in vitro evaluation of the antiviral activity of 1,3-thiazepine derivatives”, graduate student Francesca Fadda, A.A. 2009-2010;
23. Thesis title: “Evaluation of the antiviral activity of 2-phenylbenzimidazoles”, graduate student Silvia Madeddu, A.A. 2009-2010;
24. Thesis title: “Synthesis and in vitro evaluation of the biological activity of 4-substituted aryl-piperazine derivatives”, graduate student Stefano Spolitu, A.A. 2009-2010;
25. Thesis title: “Synthesis and evaluation of the anti-HIV-1 activity of new uracil derivatives as potential non-nucleoside reverse transcriptase inhibitors”, graduate student Sara Succa, A.A. 2009-2010;
26. Thesis title: “3-aryl-2-[1H-benzotriazolo-1-yl]acrylonitriles: a new class of potent inhibitors against tubulin”, graduate student Roberta Carusi, A.A. 2010-2011;
27. Thesis title: “4H-pyridinone-2,3-dihydro-1,2-diphenyl-substituted derivatives as novel anti-Flaviviridae inhibitors”, graduate student Rita Fadda, A.A. 2010-2011.

Thesis Supervisor, Master's Degree in Cellular and Molecular Biology:

1. Thesis title: “Evaluation of the antiviral activity and study of the mechanism of action of new potent inhibitors of respiratory syncytial virus (RSV)”, graduate student Silvia Paderi, A.A. 2012-2013.

Thesis Co-Supervisor Five-Year Degree in Biological Sciences:

1. Thesis title: “Structure-activity relationship and biological evaluation of substituted 5 H-Pyridophenoxazin-5-one, endowed with potent antiproliferative activity”, graduate student Gabriele Pinna Spada, A.A. 2001-2002;
2. Thesis title: “SAR studies and biological evaluation of pyridoisquinolinediones and dihydrothienoquinolinediones endowed with potent antiproliferative activity”, graduate student Giuseppina Sanna, A.A. 2002-2003.

Thesis Co-Supervisor, Master's Degree in Experimental and Applied Biology:

1. Thesis title: “Synthesis and anti-HIV-1 activity of 6-(3-cyanobenzoyl) and [(3-cyanophenyl)fluoromethyl]-5-ethyl-uracils substituted in position 1”, graduate student Giorgia Plaisant, A.A. 2014-2015.

Co-supervisor of thesis, Master's Degree in Cellular and Molecular Biology:

1. Thesis title: “Synthesis and evaluation of the antiviral activity of a new series of derivatives of imidazo[4,5-g]quinoline and pyrido[2,3-g]quinoxalinone”, graduate student Alessandra Serra, A.A. 2015/2016;
2. Thesis title: “Antiviral activity of benzimidazole derivatives. New anti-CVB-5, anti-RSV and Sb-1 agents”, graduate student Annalisa Sarritzu, A.A. 2016-2017.

Thesis Supervisor Doctoral Program in “Chemotherapy of Viral Infections” XIX cycle:

1. Thesis title: “Synthesis of variously substituted 3-phenoxyethyl quinoxalin-2-ones and quinoxalines capable of potentiating in vitro the antiproliferative activity of anticancer drugs in multi-drug resistant cell lines”, PhD student Dr. Bernardetta Busonera, A.A. 2003-2006.

Supervisor of the PhD Thesis in “Development and Evaluation of Antiviral Drugs” XXI cycle:

1. Thesis title: “Antiviral activity and SAR studies of new inhibitors of RNA and DNA viruses”, PhD student Dr. Laura Casula, A.A. 2005-2008;
2. Thesis title: “Development and experimentation of anti-HCV drugs”, PhD student Dr. David Collu, A.A. 2005-2008.

Supervisor of the PhD Thesis in “Development and Evaluation of Antiviral Drugs” XXII cycle:

1. Thesis title: “Selection and development of new inhibitors against RNA + viruses”, PhD student Dr. Cristina Ibba, A.A. 2006-2009;
2. Thesis title: “Microbicides as topical agents to prevent sexual HIV transmission”, PhD student Dr. Barbara Secci, A.A. 2006-2009.

Thesis Supervisor Doctorate in “Molecular and Translational Medicine” XXXIII cycle:

1 Thesis title: “Gut Microbiota alterations associated with obesity and impact of a weight-loss intervention based on a hypocaloric balanced diet”, PhD student Dr. Silvia Pisanu, A.A. 2017-2020.

Participation in the Teaching Board or assignment of teaching assignments in the context of PhDs accredited by the Ministry

- Member of the Teaching Board in the PhD in “Development and Testing of Antiviral Drugs”, XXII cycle, year 2006, duration 3 years.
from 15-02-2007 to 14-02-2010
- Member of the Teaching Board in the PhD in “Development and Testing of Antiviral Drugs”, XXIII cycle, year 2007, duration 3 years.
from 15-01-2008 to 14-01-2011
- Member of the Teaching Board in the PhD in “Development and Testing of Antiviral Drugs”, XXIV cycle, year 2008, duration 3 years.
from 01-02-2009 to 31-01-2012
- Member of the Teaching Staff in the Doctorate in “Development and Testing of Antiviral Drugs”, XXVI cycle, year 2010, duration 3 years.
from 01-02-2011 to 31-01-2014
- Member of the Teaching Staff in the Doctorate in “Development and Testing of Anti-Infective Drugs”, XXVII cycle, year 2011, duration 3 years.
from 01-03-2012 to 28-02-2015
- Member of the Teaching Staff in the Doctorate in “Development and Testing of Anti-Infective Drugs”, XXVIII cycle, year 2012, duration 3 years.
from 01-01-2013 to 01-01-2016
- Member of the Teaching Board in the Doctorate in “Molecular Medicine”, XXIX cycle, A.A. 2013/2014, duration 3 years.
from 01-01-2014 to 01-01-2017
- Member of the Teaching Board in the Doctorate in “Molecular and Translational Medicine”, XXX cycle, A.A. 2014/2015, duration 3 years.
from 01-11-2014 to 01-11-2017
- Member of the Teaching Board in the Doctorate in “Molecular and Translational Medicine”, XXXI cycle, A.A. 2015/2016, duration 3 years.
from 01-10-2015 to 01-10-2018
- Member of the Teaching Board in the Doctorate in “Molecular and Translational Medicine”, XXXII cycle, A.A. 2016/2017, duration 3 years.
from 01-10-2016 to 01-10-2019
- Member of the Teaching Board in the Doctorate in “Molecular and Translational Medicine”, XXXIII cycle, A.A. 2017/2018, duration 3 years.

from 01-10-2017 to 01-10-2020

- Member of the Teaching Board in the Doctorate in “Molecular and Translational Medicine”, XXXIV cycle, A.A. 2018/2019, duration 3 years.
from 01-10-2018 to 01-10-2021

- Member of the Teaching Board in the Doctorate in “Molecular and Translational Medicine”, XXXV cycle, A.A. 2019/2020, duration 3 years.
from 01-10-2019 to 01-10-2022

- Member of the Teaching Board in the Doctorate in “Molecular and Translational Medicine”, XXXVI cycle, A.A. 2020/2021, duration 3 years.
from 01-10-2020 to 01-10-2023

- Member of the Teaching Board in the Doctorate in “Molecular and Translational Medicine”, XXXVII cycle, A.A. 2021/2022, duration 3 years.
from 01-10-2021 to 01-10-2024

- Member of the Teaching Board in the Doctorate in “Molecular and Translational Medicine”, XXXVIII cycle, A.A. 2022/2023, duration 3 years.
from 01-10-2022 to today

- Member of the Teaching Board in the Doctorate in “Molecular and Translational Medicine”, XXXIX cycle, A.A. 2023/2024, duration 3 years.
from 01-10-2023 to today

- Member of the Teaching Board in the Doctorate in “Molecular and Translational Medicine”, XL cycle, A.A. 2024/2025, duration 3 years.
from 01-10-2024 to today

Management Activities

Professor Loddo declares that she has carried out the following formally assigned management tasks:

- from 2009-2015 she was a Member of the Steering Committee of the Degree Course in Industrial Biotechnology, Faculty of Biology and Pharmacy, University of Cagliari.
- From 01-01-2006 to today she has been a Member of the Scientific Commission for the allocation of Supplementary Funds for Research, University of Cagliari.

Scientific Activity

The research activities, conducted in the context of national and international collaborations with numerous groups of Pharmaceutical Chemists, have had the following structure:

- Design and *in vitro* evaluation of the cytotoxicity and antiviral activity (in a variety of virus-cell systems) of new natural and synthetic compounds;
- Development of lead compounds with more potent and selective antiviral activity;
- *In vitro* selection of drug-resistant mutants to the most potent and selective compounds emerged in the screening;

- Determination of the cross-resistance of said mutants to known inhibitors or those emerged in the screening;
- Determination of the antiviral effect in combination of inhibitors belonging to different chemical classes or directed at different targets;
- Definition of the molecular bases of drug resistance to the new inhibitors through in vitro selection of resistant mutants, starting from wt strains propagated in the presence of increasing doses of the leads under study;
- Confirmation of the target in enzymatic studies and definition of the mechanism of action;
- In vitro evaluation on a large number of cell lines from human hematological and solid tumors of the antiproliferative activity of compounds found to be cytotoxic at submicromolar concentrations in antiviral activity assays.

Contracts for scientific activity

Feb-Nov 2001 Project “Design, synthesis and evaluation of new anti-HIV agents”, MIUR ex 40%, carried out at the Department of Experimental Biology, Section of, Microbiology, University of Cagliari.

Jan-Aug 2002 Project “*In vitro* evaluation of the antiviral activity of potential therapeutic agents for Flaviviridae infections”, MIUR ex 40%, carried out at the Department of Experimental Biology, Section of Microbiology, University of Cagliari.

Apr-May 2003 Project “Pathogenesis, Immunity and Vaccines for AIDS”, National Research Program on AIDS”, carried out at the Department of Experimental Biology, Section of Microbiology, University of Cagliari.

Organization or participation as a speaker at scientific conferences

Loddo R., Bolognese A., Mazzoni O., Mascia V., Busonera B., and La Colla P. Synthesis, biological evaluation and molecular modeling of 5H-pyrido[3,2-a] phenoxazin-5-one, a new Actinomycin D analog with potent antiproliferative activity. 8th IBN SINA International Conference. Luxor, Egypt. from 16-02-2002 to 19-02-2002

Direction or participation in the activities of a research group characterized by collaborations at national or international level

- Member of the operational unit within the integrated project C.E. – (V° P.Q.) – “Flavitherapeutics” – Research, Selection and Mechanism of Action of Potential Therapeutic Agents Against Flaviviridae (Hepatitis C virus, Dengue virus, West Nile virus). Project duration: 3 years. Total man-months: 18. from 01-01-2002 to 31-12-2004

- Member of the operational unit within the integrated project C.E. – (VI° P.Q.) – “SHIVA” – Selection and Development of Microbicides for Mucosal Use to Prevent Sexual HIV Transmission/Acquisition. Project duration: 5 years. Total man-months: 17. from 01-03-2004 to 28-02-2009

- Member of the operational unit within the integrated project C.E. – (VI° P.Q.) – “Vizier” – Comparative Structural Genomics of Viral Enzymes Involved in Replication. Project duration: 4 years.

from 01-11-2004 to 30-04-2009

- Member of the operational unit within the project DM28142 “Development of methodologies for the modeling and study of drugs and biopharmaceuticals”, Technological Laboratories of the District of Biomedicine and Technologies for Health. Project duration: 40 months.
from 01-01-2006 to 30-04-2009

- Member of the operational unit within the integrated project C.E. – (VI° P.Q.) – “Europrise” – European Vaccines and Microbicides Enterprise. Project duration: 5 years
from 01-01-2007 to 30-06-2012

- Management of the activities of a research group, within the project L.R. n. 7/2007 - RAS basic and oriented research call. “Design, synthesis and evaluation of the anti-Flaviviridae activity of new synthetic molecules”, characterized by the following collaborations at national level:
 - Department of Engineering and Architecture, University of Trieste, Prof. Sabrina Priel
 - Department of Chemistry and Pharmaceutical Technologies, University "La Sapienza", Rome, Prof. Nicoletta Desideri
 - Department of Chemistry and Pharmacy, University of Sassari, Prof. Antonio Carta.Project code: CRP-59584. Project duration 3 years.
from 01-10-2013 to 30-09-2016

Responsibility for scientific studies and research entrusted by qualified public or private institutions

- National AIDS RESEARCH Program. Project “Completion of the mode of action study of an HIV NCp7 inhibitor and evaluation, in cell-based assays and cervical explants, of its efficacy as a microbicide, alone and in combination with the NNRTI MC1220”. Agreement No. 40H47 between the Istituto Superiore di Sanità and the University of Cagliari. Scientific coordinator for the University of Cagliari: Dr. Roberta Loddo
from 01-12-2010 to 30-06-2013.

- Research and Material Transfer Agreement between ATEA Pharmaceuticals and the University of Cagliari. Budget: € 76,512.00. Duration: 24 months. Role: Principal investigator.
from 01-05-2017 to 01-05-2019.

- Donation by ATEA Pharmaceuticals of an amount equal to € 34,000, to be used for the activation of a research contract lasting two years.
from 05-30-2017 to 05-30-2019.

- Renewal of the Research and Material Transfer Agreement between ATEA Pharmaceuticals and the University of Cagliari. Budget: € 30,387.00. Duration: 6 months. Role: Principal investigator.
from 06-01-2019 to 12-31-2019.

- Donation by ATEA Pharmaceuticals of an amount equal to € 13,300, to be used for the renewal of the research contract.
from 06-01-2019 to 12-31-2019.

- Renewal of the Research and Material Transfer Agreement between ATEA Pharmaceuticals and the University of Cagliari. Budget: € 106,899. Duration: 12 months. Role: Principal investigator.
from 01-01-2020 to 31-12-2020.

- Donation by ATEA Pharmaceuticals of an amount equal to € 17,000, to be used for the renewal of the research contract.
from 01-01-2020 to 31-12-2020.
- Renewal of the Research and Material Transfer Agreement between ATEA Pharmaceuticals and the University of Cagliari. Budget: € 106,899. Duration: 12 months. Role: Principal investigator.
from 01-01-2021 to 31-12-2021.
- Donation by ATEA Pharmaceuticals of an amount equal to € 19,300, to be used for the renewal of the research contract.
from 01-01-2021 to 31-12-2021.
- Donation by ATEA Pharmaceuticals of an amount equal to € 19,300, to be used for the renewal of the research contract.
from 01-01-2022 to 31-12-2023.

Scientific responsibility for international and national research projects, admitted to funding on the basis of competitive calls that include peer review

- Autonomous Region of Sardinia – Regional Law 7 August 2009 n.7 - Scholarships for young researchers. “Study of RNA Virus Inhibitors”. Project code: CRP1-574. Duration: 24 months. Role: Co-scientific manager.
from 15-01-2010 to 15-01-2012
 - Fondazione Banco di Sardegna 2010: “Design, synthesis and evaluation of the antiviral activity of new inhibitors directed at different targets of the RNA virus multiplication cycle”. Duration: 24 months. Role: Project Manager.
from 01-03-2010 to 01-02-2012
 - National AIDS RESEARCH Program. Project “Completion of the mode of action study of an HIV NCp7 inhibitor and evaluation, in cell-based assays and cervical explants, of its efficacy as a microbicide, alone and in combination with the NNRTI MC1220”. Duration: 30 months. Role: Project Manager.
from 01-12-2010 to 30-06-2013
 - Fondazione Banco di Sardegna 2011. “Creation of a collection and database of non-redundant antiviral ligands of new non-nucleoside inhibitors (NNI) of influenza virus replication”. Duration: 24 months. Role: Project Manager.
from 01-03-2011 to 01-02-2013
- Fondazione Banco di Sardegna 2013. "Design, synthesis and evaluation of the anti-HIV-1 activity of new classes of synthetic molecules". Duration: 18 months. Role: Project Manager.
from 01-04-2013 to 31-10-2014
- Regional Law no. 7/2007 - RAS basic and oriented research call. Year 2012. "Design, synthesis and evaluation of the anti-Flaviviridae activity of new synthetic molecules". Duration: 36 months. Role: Project Manager. Project code: CRP-59584
from 01-10-2013 to 30-09-2016

- Fondazione Banco di Sardegna 2014. "Implementation of new inhibitors of Dengue virus infections: SAR studies and mechanism of action". Duration: 18 months. Role: Project Manager.
from 01-05-2014 to 30-11-2015
- Master & Back Program 2010/2011 – Re-entry Paths approved with Det. n. 638/ARL of 21/06/2011. Joint Application Autonomous Region of Sardinia and University of Cagliari: Prot. n. 19235 of 04/10/2011 Code: PRR-MAB-A2011-19235. "Evaluation of the memory effect of MC1220". Role: Scientific Manager.
from 10-12-2012 to 28-02-2015
- Fondazione Banco di Sardegna 2013. "Design, synthesis and evaluation of the anti-HIV-1 activity of new classes of synthetic molecules". Duration: 18 months. Role: Project Manager.
from 01-04-2013 to 31-10-2014
- Regional Law no. 7/2007 - RAS basic and oriented research call. Year 2012. "Design, synthesis and evaluation of the anti-Flaviviridae activity of new synthetic molecules". Duration: 36 months. Role: Project Manager. Project code: CRP-59584
from 01-10-2013 to 30-09-2016
- Fondazione Banco di Sardegna 2014. "Implementation of new inhibitors of Dengue virus infections: SAR studies and mechanism of action". Duration: 18 months. Role: Project Manager.
from 01-05-2014 to 30-11-2015

Achievement of awards and recognitions for scientific activity, including affiliation to academies of recognized prestige in the sector

- Member of SIMGBM (Italian Society of General Microbiology and Microbial Biotechnology)
from 01-01-2001
- Member of SIV (Italian Society of Virology)

University of Cagliari award contributions (art. 13 of Regional Law no. 7/2007) for calls of national importance

- FIRB 2010 Call: Ministerial Evaluation: 55/60.
- FIRB 2012 Call: Ministerial Evaluation: 87/100.

Scientific Collaborations

Activity has been carried out in collaborations with:

- Nucleic Acid Center, Dept. of Physics and Chemistry, University of Southern Denmark.
- Department of Medical Chemistry, First Faculty of Medicine, The Medical University of Warsaw, Poland.
- Unit Infection Models, Deutsches Primatenzentrum GmbH, Leibniz-Institut für Primatenforschung, Goettingen, Germany.
- Department of Chemistry, University of Al Al-Bayt, Al-Mafraq, Jordan.

- Unité de Retrovirologie, Centre International de Recherches Médicales, Franceville, Gabon.
 - Department of Chemistry, Quaid-i-Azam University, Islamabad, Pakistan.
 - Department of Pharmaceutical Chemistry, King Saud University, Saudi Arabia.
 - Department of Chemistry, Saurashtra University, Rajkot, India.
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- Department of Ingegneria Industriale e dell'Informazione, University of Trieste.
 - Department of Scienze Farmaceutiche, University of Ferrara.
 - Department Farmaceutico, University of Parma.
 - Department of Scienze Farmaceutiche, University of Genova.
 - Department of Chimica e Tecnologie del Farmaco, University "La Sapienza", Roma.
 - Department of Scienze Chimiche, University of Napoli "Federico II".
 - Department of Scienze Farmaceutiche, University of Salerno.
 - Department of Scienze e Tecnologie Molecolari e Biomolecolari Stembio, University of Palermo.
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- Dipartimento di Scienze del Farmaco, Università di Sassari.
 - CNR-ICB, Sassari.
 - Dipartimento di Scienze Chimiche, Università di Cagliari.
 - Dipartimento di Chimica Inorganica ed Analitica, Università di Cagliari.

Stays in other national and international Universities or Research Institutes

In order to develop methods of mutual interest and/or resolve critical aspects of ongoing research activities, Prof. Loddo stayed for short periods of time (3-10 days) at the Laboratories of the following Partners in the SHIVA, VIZIER and EUROPRIZE Projects:

- Department of Pharmacology, Chemotherapy and Medical Toxicology, University of Milan.
- Department of Virology and Immunology, Deutsches Primatenzentrum GmbH, Goettingen.
- Department of Society and Health, Institut de Recherche pour le Développement, Montpellier.
- Université de la Méditerranée, Marseille.
- Department of Cellular and Molecular Medicine, St George University, London.

Participation in Training Courses

- Radiation Protection, held in June 2005 at the Radiation Protection Service, University of Cagliari.
- HIGH Fire Risk, held in May 2006 at the Provincial Fire Department, Cagliari. Updated October 2013.
- Company First Aid Law 626/94, held in March 2007 at the Polyclinic, University of Cagliari. Updated December 2013.
- Training course on "Training on the use of the Semi-Automatic External Defibrillator (AED)", BLS Basic Life Support and Defibrillation, course date 01/07/2021.

Patent Applications

Carta A., La Colla P., **Loddo R.**, Paglietti G. Compounds for the treatment and prevention of infections by Flaviviridae. US Provisional 60/871,352, Dec 21, 2006.

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Book Chapters

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