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## **CURRENT POSITION**

10/12/2018 – date

BIOMEDICAL SCIENTIST – ARNAS G.BROTZU Hospital;

A.A 2023/2024 – A.A. 2024/2025

Lecturer in immunology techniques course of studies in BIOMEDICAL LABORATORY TECHNIQUES, MED/46. Faculty of Medicine. University of Cagliari Docente a contratto presso Università degli studi di Cagliari

## **RESEARCH AND WORK EXPERIENCE**

March 2015 – October 2015

Research scientist. Project "Development of microbiological techniques to evaluate the antimicrobial activity of natural products"; with the task of developing microbiological tests such as Challenge test, D-value test, cellular cytotoxicity test (MTT, NRU) on finished cosmetic products. University of Sassari, Department of Biomedical Sciences, Microbiology and Virology Section

November 2015 – October 2016

Research scientist. Project " Evaluation of the antimicrobial activity of natural products and cosmetics"; with the task of developing microbiological tests such as Challenge test, D-value test, cellular cytotoxicity test (MTT, NRU) on finished cosmetic products. University of Sassari, Department of Biomedical Sciences, Microbiology and Virology Section

November 2016 – October 2017

Research scientist. Project "Validation of diagnostic systems in a clinical environment"; within the project aimed at studying the pathogenicity mechanisms of protozoa pathogenic to humans such as *Trichomonas vaginalis* and its symbiotic relationships with *Mycoplasma hominis*. Development of protocols for molecular diagnostics. University of Sassari, Department of Biomedical Sciences, Microbiology and Virology Section

2018 – date

Biomedical scientist – ARNAS G. Brotzu Hospital

The research activity has produced 8 full publications published in international peer reviewed journals (Scopus database, Author ID: 57203412349; Citations: 105; h-index: 5), and communications at international and national scientific conferences and conventions.

## **EDUCATION**

24 November 2014

Degree in Biomedical Laboratory Techniques (L/SNT3) at the University of Sassari, final mark 110/110 cum laude, Thesis title "VNTR-MIRU genotyping: a method for studying the transmission of Mycobacterium tuberculosis". Supervisor: Professor Paola Molicotti

27 April 2017

Master's Degree in Health, Medical and Veterinary Biotechnology (LM/09) at the University of Sassari, final mark 110/110 cum laude, Thesis title: "Study of the symbiosis between Trichomonas vaginalis and Candidatus Mycoplasma girerdii" Supervisor: Professor PierLuigi Fiori

12 April 2022

PhD in Life Science and Biotechnologies at the University of Sassari, Thesis title: "Study of antiviral activity of diazadispiroalkane compounds against alpha- and beta- coronaviruses." Supervisors: Professor PierLuigi Fiori, Professor Aldo Manzin

## **TEACHING EXPERIENCE, QUALIFICATION**

A.A 2023/2024

Teaching Tutor for the professional teaching of Introduction to the Biomedical Laboratory (MED/46). Course in Biomedical Laboratory Techniques, Faculty of Medicine and Surgery, University of Cagliari.

A.A 2023/2024 – A.A. 2024/2025

Teaching Tutor for professional teaching in Clinical Microbiology (MED/07). Course in Medicine and Surgery, even and odd channels, Faculty of Medicine and Surgery, University of Cagliari.

Lecturer in immunology techniques course of studies in BIOMEDICAL LABORATORY TECHNIQUES, MED/46. Faculty of Medicine. University of Cagliari.

## PUBLICATIONS

1. Thi Trung Thu T, Margarita V, Cocco AR, **Marongiu A**, Dessì D, Rappelli P, Fiori PL. **Trichomonas vaginalis Transports Virulent Mycoplasma hominis and Transmits the Infection to Human Cells after Metronidazole Treatment: A Potential Role in Bacterial Invasion of Fetal Membranes and Amniotic Fluid.** J Pregnancy. 2018 Aug 2;2018:5037181. doi: 10.1155/2018/5037181. PMID: 30174955; PMCID: PMC6098910.
2. Dessì D, Margarita V, Cocco AR, **Marongiu A**, Fiori PL, Rappelli P. **Trichomonas vaginalis and Mycoplasma hominis: new tales of two old friends.** Parasitology. 2019 Aug;146(9):1150-1155. doi: 10.1017/S0031182018002135. Epub2019 Jan 8. PMID: 30616707.
3. Margarita V, **Marongiu A**, Diaz N, Dessì D, Fiori PL, Rappelli P. **Prevalence of double-stranded RNA virus in Trichomonas vaginalis isolated in Italy and association with the symbiont Mycoplasma hominis.** Parasitol Res. 2019 Dec;118(12):3565-3570. doi: 10.1007/s00436-019-06469-6. Epub 2019 Nov 7. PMID: 31701295.
4. Madeddu S, **Marongiu A**, Sanna G, Zannella C, Falconieri D, Porcedda S, Manzin A, Piras A. **Bovine Viral Diarrhea Virus (BVDV): A Preliminary Study on Antiviral Properties of Some Aromatic and Medicinal Plants.** Pathogens. 2021 Mar 29;10(4):403. doi: 10.3390/pathogens10040403. PMID: 33805453; PMCID: PMC8066157.
5. 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 (Basel). 2022 Jan 31;15(2):181. doi: 10.3390/ph15020181. PMID: 35215294; PMCID: PMC8878107.
6. Sanna G, **Marongiu A**, Firinu D, Piras C, Franci G, Galdiero M, Pala G, Palmas V, Angius F, Littera R, Perra A, Orrù G, Campagna M, Costanzo G, Meloni F, Coghe F, Chessa L, Manzin A. **Neutralizing Antibodies Responses against SARS-CoV-2 in a Sardinian Cohort Group Up to 9 Months after BNT162b2 Vaccination.** Vaccines (Basel). 2022 Mar 29;10(4):531. doi: 10.3390/vaccines10040531. PMID: 35455280; PMCID: PMC9024419.
7. Firinu D, Fenu G, Sanna G, Costanzo GA, Perra A, Campagna M, Littera R, Locci C, **Marongiu A**, Cappai R, Melis M, Orrù G, Del Giacco S, Coghe F, Manzin A, Chessa L. **Evaluation of humoral and cellular response to third dose of BNT162b2 mRNA COVID-19 vaccine in patients treated with B-cell depleting therapy.** J Autoimmun. 2022 Jul;131:102848. doi:10.1016/j.jaut.2022.102848. Epub 2022 Jun 13. PMID: 35714496; PMCID: PMC9189114.
8. 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. PMID: 38244064; PMCID: PMC10799790.

## PRESENTATIONS:

- 5th International PhD Student Science Symposium - Hue (Vietnam), 27th April 2018: *Trichomonas vaginalis* and its symbionts: different points of view of parasitic-host relationship ALESSANDRA MARONGIU and PIERLUIGI FIORI
- 46° National Congress of the Italian Society of Microbiology (SIM) - Palermo 2018: **Metronidazole resistance in Trichomonas vaginalis: the role of the symbiont M.hominis** ALESSANDRA MARONGIU, MARIELLA DEMONTIS, NICIA DIAZ, VALENTINA MARGARITA, ANNARITA COCCO, PAOLA RAPPELLI
- 46° National Congress of the Italian Society of Microbiology (SIM) - Palermo 2018: **Candidatus Mycoplasma girerdii: a new friend for Trichomonas vaginalis into vaginal microbiome communities** VALENTINA MARGARITA, ALESSANDRA MARONGIU, NICIA DIAZ, MARIA CARMINA PAU, PAOLA RAPPELLI and PIERLUIGI FIORI
- 49° National Congress of the Italian Society of Microbiology (SIM) – Virtual congress 2021: **Significant in vitro anti-HIV activity of a rare biscoumarin extracted from a Cameroonian Hypericum species.** GIUSEPPINA SANNA, SERGE A. T. FOBOFOU, SILVIA MADEDDU, ALESSANDRA MARONGIU, GABRIELE SERRELI, FABRIZIO ANGIUS, SARAH VASCELLARI, VANESSA PALMAS, KATRIN FRANKE, WOLFGANG BRANDT, LUDGER A. WESSJOHANN, ALDO MANZIN

- 5th national congress of the Italian Society for Virology – webinar 5-6 Luglio 2021: **Neutralizing antibodies responses against SARS-CoV-2 in sardinian cohort group**  
G. Sanna, A. Marongiu, G. Franci, M. Galdiero, G. Pala, V. Palmas, R. Littera, M. Vacca, R. Jammoul, A. Perra, F. Sedda, M. Campagna, F. Pes, D. Firinu, M. Erbi, M. Secci, F. Meloni, L. Chessa, A. Manzin
- 6th national congress of the Italian Society for Virology – Napoli 2022: **DEVELOPMENT OF PROTECTIVE IMMUNITY AFTER BNT162B2 THIRD DOSE IN SUBJECTS WITH IMMUNO-MEDIATED INFLAMMATORY DISEASE (IMIDs) AND TREATED WITH ANTI-CD20 DRUGS** G. Sanna, D. Firinu, A. Marongiu, C. Piras, V. Palmas, V. Manca, G. Fenu, M. Melis, R. Littera, A. Perra, M. Campagna, G. Orrù, F. Coghe, S. Del Giacco, L. Chessa, A. Manzin
- 50° National Congress of the Italian Society of Microbiology (SIM) – Napoli 2022: **Neutralization titers and Antibody Response to Heterologous Prime–Boost Vaccination with ChAdOx1 nCoV-19 and BNT162b2 in a Sardinian cohort group.** GIUSEPPINA SANNA, ALESSANDRA MARONGIU , DAVIDE FIRINU, CRISTINA PIRAS , VANESSA PALMAS , VALERIA MANCA , MARTA SERRELI, MARCELLO CAMPAGNA , ANDREA PERRA , STEFANO DEL GIACCO , MARIA C. RUFFI , LUCHINO CHESSA , ALDO MANZIN
- 51° National Congress of the Italian Society of Microbiology (SIM) – Cagliari 2023: **Efficacy of dispirotriperazine PDSTP in a golden syrian hamster model of SARS-COV-2 pneumonia.** GIUSEPPINA SANNA, OLGA RIABOVA, ANNA EGOROVA, ELENA KAZAKOVA, ALEXANDER LEPIOSHKIN, NATALIA MONAKHOVA, ALESSANDRA MARONGIU, VANESSA PALMAS, GIANLUIGI FRANCI, VADIM MAKAROV, ALDO MANZIN

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Cagliari 22/04/2025