

# PROFESSIONAL SCIENTIFIC CURRICULUM VITAE

## PERSONAL INFORMATION:

First Name: Mariachiara

Surname: Gani

## EDUCATION AND TRAINING:

15<sup>th</sup> May 2024-present

### Research Fellow

Laboratory of Prof. Eros Di Giorgio, University of Udine, Udine (Italy)

Project: "EVALUATION OF THE ANTITUMOR POTENTIAL OF PROTAC-BASED COMPOUNDS"

1<sup>st</sup> February 2023–31<sup>st</sup> January 2024

### Research Fellow

Laboratory of Prof. Luigi E. Xodo, University of Udine, Udine (Italy)

Project: "NITROGEN METABOLISM IN PANCREATIC CANCER CELLS"

1<sup>st</sup> November 2019–23<sup>rd</sup> June 2023

### PhD Student in Biomedical Sciences and Biotechnology

University of Udine, Udine (Italy)

Project: "ROLE OF ROS/RNS INDUCED BY CANCER DRUGS IN THE RESISTANCE AND RECURRENCE OF PANCREATIC CANCER"

**September-November 2022:** Stage in the laboratory of Professor Jordi Muntanè Relat at IBiS Institute, Seville, to perform some experiments related to the PhD project (mostly focused on protein S-nitrosylation)

2016–22<sup>nd</sup> March 2019

### Master Degree in Functional Genomics

University of Trieste, Trieste (Italy)

Thesis: "EFFECTS OF PHOTODYNAMIC THERAPY IN MESOTHELIAL AND MESOTHELIOMA CELL LINES"

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2013–22<sup>nd</sup> December 2016

### BA Degree in Biotechnology

University of Trieste, Trieste (Italy)

Thesis: "EPIDEMIOLOGY OF TICK-BORNE ENCEPHALITIS (TBE)  
AND PROSPECTS FOR AN EFFECTIVE VACCINATION"  
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2008–2013

High School Education

ISIS Michelangelo Buonarroti, Monfalcone (Italy)

#### ORAL COMMUNICATION AT INTERNATIONAL CONGRESSES:

- XXXIV Annual Conference of the Italian Society of Photobiology, held at the University of Salento–Lecce (Italy) from 28<sup>th</sup> to 30<sup>th</sup> June, 2023. **Title of the oral communication:** "Can Photodynamic Therapy (PDT) treatment overcome drug resistance in pancreatic cancer cells?". **Winner of a Fellowship to attend the Conference.**
- XXXIII Annual Conference of the Italian Society of Photobiology, held at the Akademie Cusanus of Bressanone (Italy) from 18<sup>th</sup> to 19<sup>th</sup> July, 2022. **Title of the oral communication:** "The Role of Nitric Oxide in the bystander effect in photooxidized prostate cancer cells".
- 19<sup>th</sup> Congress of the European Society for Photobiology, held in Salzburg and the World Wide Web from August 30<sup>th</sup> to September 3<sup>rd</sup>, 2021. **Title of the oral communication:** "Can NO induced by photooxidative stressed tumor cells influence tumor microenvironment?".
- XXXII Annual Conference of the Italian Society of Photobiology, held virtually at University of Insubria–Varese (Italy) from 23<sup>rd</sup> to 24<sup>th</sup> June, 2021. **Title of the oral communication:** "RKIP as a potential target to improve photodynamic therapy in cancer cells".

#### POSTER PRESENTATION AT INTERNATIONAL WORKSHOPS:

- III International Conference "Therapeutic Applications of Nitric Oxide in Cancer and Inflammatory-related Diseases", held in Udine from 4<sup>th</sup> to 5<sup>th</sup> September, 2023. **Participation with a poster entitled:** "The role of NO/RNS in the acquired resistance of pancreatic cancer cells to gemcitabine".
- VIII International Workshop on Nitric Oxide and Cancer with special focus on Metabolism and Aging, held in Copenhagen (Denmark) from 8<sup>th</sup> to 10<sup>th</sup> June, 2022. **Participation with a poster entitled:** "The role of nitric oxide in the acquired resistance of pancreatic cancer cells treated with Gemcitabine".
- VII International Workshop on Nitric Oxide and Cancer, held in Galway (Ireland) from 27<sup>th</sup> to 28<sup>th</sup> May, 2021. **Selected for poster talk with the title:** "Can NO released by photooxidative stressed tumor cells affect the bystander cells?".
- **Collaboration for poster presentation:**  
VII International Workshop on Nitric Oxide and Cancer, held in Galway (Ireland) from 27<sup>th</sup> to 28<sup>th</sup> May, 2021. **Title:** "New iNOS inhibitors as promising agents against the progression of prostate and breast cancer" (Authors: Maccallini C, Gallorini M, Rapozzi V, Gani M, Cataldi A, Amoroso R).

#### ATTENDANCE AT OTHER INTERNATIONAL CONGRESSES:

- Second International Conference "Therapeutic Applications of Nitric Oxide in Cancer and Inflammatory-related Diseases" (on-site and virtual), held in Seville from 3<sup>rd</sup> to 5<sup>th</sup> March, 2022.

#### OTHER ACADEMIC EXPERIENCE:

- 2023-2024 Teaching assistant for a 10 hours OFA course (Obblighi Formativi Aggiuntivi) in Chemistry and Propedeutical Biochemistry [MM0037]. University of Udine, Italy.

#### COURSES:

- Practical workshop and exam on Modules 3.2, 6.2 and 8 (rodents) for specific training for personnel involved in animal testing for scientific purposes. Lodi, Italy, 2024.
- Courses and final exams on Modules 1, 2, 3.1, 4, 5, 6.1, 7, 9, 10, 11, DM 5 AGOSTO 2021 (rodents and lagomorphs). Online, 2024.
- Training course for animal testing activities, organized by OPBA (Organismo Preposto al Benessere Animale), in collaboration with Animal Facility, Department of Life Sciences, University of Trieste, Italy. 20 hours of course, with final exam, 2021.
- Percorso formativo 24 CFU per l'accesso ai concorsi per l'insegnamento nella scuola secondaria, A.A. 2020-2021. University of Udine, Italy.
- English course for Academic Purposes (40 hours, with final exam), 2019. Centro linguistico (CLAV), University of Udine, Italy.

#### PUBLICATIONS:

- Makuch S, Kupczyk P, Woźniak M, Makarec A, Lipińska M, Klyta M, Sulecka-Zadka J, Szeja W, Gani M, Rapozzi V, Ziółkowski P, Smoleński P. In Vitro and In Vivo Antipsoriatic Efficacy of Protected and Unprotected Sugar-Zinc Phthalocyanine Conjugates. *Pharmaceutics*. 2024 Jun 20; 16(6):838. doi: 10.3390/pharmaceutics16060838.
- Contribution with a chapter entitled "Role Of Nitric Oxide In Gemcitabine Resistance In Pancreatic Cancer Cells" in the Book "Therapeutic Applications of Nitric Oxide in Cancer and Inflammatory Disease: Third International Conference on Therapeutic Application of Nitric Oxide in Cancer and Inflammatory Disorders", Elsevier. Authors: Mariachiara Gani, Eros Di Giorgio, Raffaella Picco, Luigi E. Xodo and Valentina Rapozzi. Editors: Benjamin Bonavida, Luigi E. Xodo and Valentina Rapozzi.
- Gani M, Xodo LE, Rapozzi V. Bystander effect in photosensitized prostate cancer cells with a different grade of malignancy: The role of nitric oxide. *Nitric Oxide*. 2022 Nov 1;128:25-36. doi: 10.1016/j.niox.2022.08.002.

- Rapozzi V, Moret F, Menilli L, Guerrini A, Tedesco D, Naldi M, Bartolini M, Gani M, Zorzet S, Columbaro M, Milani C, Martini C, Ferroni C, Varchi G. HSA-Binding Prodrugs-Based Nanoparticles Endowed with Chemo and Photo-Toxicity against Breast Cancer. *Cancers (Basel)*. 2022 Feb 10;14(4):877. doi: 10.3390/cancers14040877.