



# Mariano Martelli

## WORK EXPERIENCE

01/02/2024 – CURRENT Trieste, Italy

**RESEARCH FELLOWSHIP** ICGB- INTERNATIONAL CENTRE FOR GENETIC ENGINEERING AND BIOTECHNOLOGY

Understanding the role of onco-miR-30d in breast cancer and investigating the mechanism by which it suppresses the immune response favouring tumorigenesis. Onco-miR-30d ablation promotes the activation of cGAS/sting/IFN-I signalling in Breast cancer. MiR-30d inhibition may restore an immunologically "hot" tumor microenvironment and improve the efficacy of chemo- and immune-therapies.

03/2023 – 07/2023 Ferrara, Italy

**INTERN** UNIVERSITY OF FERRARA, SECTION OF ENDOCRINOLOGY AND INTERNAL MEDICINE

Analysis and understanding of next-generation sequencing (NGS) data in order to correlate specific mutational signatures potentially implicated in bronchial carcinoids with a prognostic marker.

06/2020 – 09/2020 Ferrara, Italy

**INTERN** UNIVERSITY OF FERRARA, SECTION OF ENDOCRINOLOGY AND INTERNAL MEDICINE

Evaluation of the different sensitivity of typical and atypical bronchial carcinoids in response to Everolimus treatment.

## EDUCATION AND TRAINING

10/2020 – 07/2023 Ferrara

**MASTER'S DEGREE IN BIOMOLECULAR SCIENCE AND EVOLUTION** University of Ferrara

**Final grade** 110 / 110 cum Laude |

**Thesis** Bronchial carcinoids: from the mutational background to the applicability of a clinical prognostic score

10/2017 – 10/2020 Ferrara, Italy

**BACHELOR'S DEGREE IN BIOLOGICAL SCIENCES** University of Ferrara

**Thesis** The role of Caspase 3 and TGF-  $\beta$  in bronchial carcinoids

09/2012 – 07/2017 Tricarico, Italy

**SCIENTIFIC HIGH SCHOOL DIPLOMA** Scientific Institute "Carlo Levi"

## PUBLICATIONS

**TGF-  $\beta$  increase caspase activation and migration in typical bronchial carcinoids**

[Endocrine Abstracts, 2021] P. Borges de Souza, I. Gagliardi, M. Martelli, M.R. Ambrosio & M.C. Zatelli

## CONFERENCES AND SEMINARS

25/10/2024 – 26/10/2024 ABCD Congress, Reggio Emilia

**The mutant p53 target miR-30d dampens the Cgas /STING/IFN-I pathway to suppress immune surveillance in breast cancer**

19/09/2024 – 20/09/2024 ICGB, Trieste

**Exploring Cancer- Immune Cell Interaction: Key Concepts and Methodologies**

10/07/2024 – 11/07/2024 ICGB, Trieste

**29th ICGB Symposium**

## ● TECHNICAL SKILLS AND COMPETENCE

### TECHNICAL SKILLS AND COMPETENCE

- Manipulation of cell cultures and 3D models (organoids)
- Transfection, transduction, and treatments of cell lines and organoids
- Basics of fluorescence microscopy and immunofluorescence techniques
- Genetic engineering techniques ( PCR, cloning and bacterial transformation)
- Protein Electrophoresis and Western Blotting
- DNA and RNA extraction to assess gene expression (PCR and RTqPCR)
- Basics of cytofluorimetry
- Immunohistochemistry
- Cellular assays (ELISA, Luciferase assay and ATP-lite)

## ● LANGUAGE SKILLS

Mother tongue(s): **ITALIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
<b>ENGLISH</b>	B1	B2	B1	B1	B1
<b>FRENCH</b>	A1	A2	A1	A1	A2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

## ● DIGITAL SKILLS

Mastery of the office package (Word, Excel, PowerPoint ) | Data analysis and statistical analysis | good ability of bibliographic research (PubMed, Science, Cancers) | Use of scientific databases (ClinVar, dbSNP) | Use of programs for simulation of in silico experiments (APE, AmplifX)

## ● COMMUNICATION AND INTERPERSONAL SKILLS

### Relational and organisational skills

Leadership; Problem solving; Teamwork; Determination; Works well under pressure; Work planning; Empathy; Flexibility; Ability to focus on goals.

## ● VOLUNTEERING

2022 Ferrara

**AIRC-Foundation for Cancer Research**

2013 – 2017 Tricarico

**Volunteer Association "Don Pancrazio Toscano"**

2013 – 2017 Tricarico

**FAI, Italian Environmental Fund**

2013 – 2017 Tricarico

**Unicef**

## ● DRIVING LICENCE

Driving Licence: B

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