

**PERSONAL DATA** Mariaconcetta Augusto**EDUCATION****2021- 2025 PhD in Molecular Medicine (XXXVII cycle)**

"Sapienza" University of Rome – Department of Molecular Medicine – Molecular Oncology Laboratory  
(Ph.D. scholarship funded by Istituto Italiano di Tecnologia (IIT))

Final grade: Excellent with honors

Date of completion: 22/01/2025

**January 2023 State Exam for Biologist Certification**

University of Tuscia

**2018 – 2021 Master's Degree in Genetics and Molecular Biology (LM-6)**

"Sapienza" University of Rome – Faculty of Mathematical, Physical and Natural Sciences – Department of Biology and Biotechnology "C. Darwin"

Thesis title: "Un nuovo ruolo di Nbs1 nella ciliogenesi"

Final grade: 110/110 with honors

September 2019-  
February 2020

**Erasmus + project**

Faculty of Biology - University of Barcelona

**2015 – 2018 Bachelor's Degree in Biological Sciences (L-13)**

"Sapienza" University of Rome – Faculty of Mathematical, Physical and Natural Sciences – Department of Biology and Biotechnology "C. Darwin"

Thesis title: "La pressione selettiva esercitata dalla malaria nell'uomo, dalle varianti eritrocitarie ai geni della risposta immune: nuove ipotesi di selezione evolutiva."

Final grade: 110/110 with honors

**2010 – 2015 High School Diploma in Scientific Studies**

Liceo Scientifico Statale "G. Galilei", Lamezia Terme (CZ)

Final grade: 94/100

**RESEARCH EXPERIENCE**

01/01/2025 – 31/12/25

**Early Stage Researcher (Assegnista di Ricerca)**

"Sapienza" University of Rome – Department of Molecular Medicine – Molecular Oncology Laboratory

Research line: Basal cell carcinoma: integration of clinical and molecular data to better classify and manage 'difficult to treat' tumors

01/11/2024 – 31/12/2024

**Fellowship “Istituto Pasteur Italia - Fondazione Cenci Bolognetti”**

“Sapienza” University of Rome – Department of Molecular Medicine – Molecular Oncology Laboratory

Research line: Exploring new functions of the Nijmegen breakage syndrome gene in cerebellar development and carcinogenesis

06/03/2024 – 03/06/2024

**Visiting PhD student**

Department of Molecular Biology and Genetics, Koç University, Istanbul (Turkey).

Research line: Study of the interactome of Nbs1

01/11/2021 – 2024

**Research activity as PhD student in Molecular Medicine**

“Sapienza” University of Rome – Department of Molecular Medicine – Molecular Oncology Laboratory

Research line: Role of Nbs1 in cerebellar development and carcinogenesis

01/09/2020 – 21/07/2021

**Research Intern – Master’s Degree**

“Sapienza” University of Rome – Department of Molecular Medicine – Molecular Oncology Laboratory

Research line: Investigation of the role of Nbs1 in primary ciliogenesis

**PERSONAL SKILLS**

Mother tongue Italian

	Listening	Reading	Spoken interaction	Spoken production	Writing
English	B2	B2	B2	B2	B2
Spanish	B1	B1	B1	B1	B1

**Communication skills**

- Excellent listening skills.
- Ability to communicate effectively.
- Strong predisposition to share ideas and knowledge.
- Good adaptability and teamwork skills as well as autonomy in achieving objectives.
- Good ability to critically analyse and present scientific works.

**Organizational and Managerial skills**

- Good ability to design and conduct experimental work in biological and biotechnological fields.
- Strong sense of responsibility and seriousness.
- Excellent time management.

- Ambition and eagerness to learn.
- Responsible for the correct use and functioning of various technical instruments, relations with specialists and suppliers, and purchase of reagents for experimental procedures.

### Professional and technical skills

Handling mice models and genotyping, Production of primary cultures from murine tissues, Maintenance of cell cultures and immortalized cell lines, Histological slides preparation: paraffin/OCT embedding , Use of microtome and cryostat, H&E and Immunohistochemistry staining, Immunofluorescence, Experienced in operating widefield and confocal microscopy (e.g., Leica, Zeiss, Crest Optics), Transfection of human and murine cells via electroporation or cationic liposomes, Viral infection and virus production, RNA and DNA extraction and purification, Separation of nucleic acids by electrophoresis, PCR, RT-PCR, Real Time PCR, Protein extraction, Western Blot, Immunoprecipitation, Restrictions and cloning, Bacterial transformation and DNA purification techniques, Protein fraction isolation (centrosome), Proliferative Assays (BrdU/EdU), U-ExM

### Digital skills

#### AUTOVALUTATION

- Good command of major operating systems: Microsoft Windows e Mac OS
- Proficiency with Microsoft Office (text files, spreadsheets, presentation software) and Adobe (Acrobat and Photoshop)
- Proficiency with databases and analyses software/tools (PubMed, ImageJ, Graph Pad, PyMol)

### Other skills

Good statistical skills: statistical analysis of experimental data and graphical representation

## ADDITIONAL INFORMATION

### Publications

Petroni M, La Monica V, Fabretti F, **Augusto M**, Battaglini D, Polonara F, Di Giulio S, Giannini G. The Multiple faces of MRN complex: Roles in Medulloblastoma and Beyond. *Cancers (Basel)*. 2023 Jul 13;15 (14):3599.

Riitano G, Capozzi A, Recalchi S, **Augusto M**, Conti F, Misasi R, Garofalo T, Sorice M, Manganelli V. Role of Lipid Rafts on LRP8 Signaling Triggered by Anti-β2-GPI Antibodies in Endothelial Cells. *Biomedicines*. 2023; 11(12):3135.

### Specific formation

December 2023

FELASA Accredited Course F 023/09 according to the Directive 2010/63/EU and related EC Guidelines (EC, 2014).

February 2023

Course in “Single-cell and spatial transcriptomics (theory and bioinformatic pipeline)” (3 CFU) BEMM 2023 course at “Sapienza” University of Rome.

January 2024

Course in “GENOMICA: TECNOLOGIE AVANZATE”. FISV per i giovani ricercatori.

### Conferences

5<sup>th</sup> Brainstorming research assembly for young neuroscientists (Rome 28-29-30 September 2022).  
Poster EBN 17, Augusto et al., "A new role of NBS1 in the regulation of primary cilium".

ABCD National Congress 2023- (Paestum, Salerno 20-23 September 2023). Poster P.B 5, Augusto et al., "A new function of MRN complex in the regulation of primary ciliogenesis".

EMBO Workshop, Centrosome in development, disease and evolution (Istanbul, Turkey. 26-29 September 2023).

### Other conferences

4<sup>th</sup> International Workshop on tumor evolution – "Making the impossible possible: successful tackling of difficult targets in cancer research and clinical development" – Istituto Nazionale Tumori "Regina Elena" (Rome 28-29 September 2022).

Advanced imaging in life sciences workshop 2024. (Koç University, Turkey. 18-19 April 2024).

### Teaching activities

January 2023 – January 2024

Tutoring for incoming and current students of the master's course in "Medical Biotechnologies" at the Faculty of Pharmacy and Medicine, "Sapienza" University of Rome

Data  
7/01/2026

Firma  
Mariaconcetta Augusto