



# Giuseppe Molinario

## WORK EXPERIENCE

 IRCCS MATERNAL INFANT BURLO GAROFOLO – TRIESTE, ITALY

**IMMUNOPATHOLOGY AND ADVANCED DIAGNOSTIC LABORATORY TRAINEE** – 24/10/2021 – 31/10/2022

Acquired skills:

- Cellular Biology techniques: cell culture; 3-D cell culture derived (organoids); 2-D monolayer generation
- Molecular Biology techniques: extraction of nucleic acids (DNA and RNA) from epithelial cells, intestinal organoids; extraction of DNA from blood; gene expression analysis (PCR and qRT-PCR); PCR for HLA typing.

 IRCCS MATERNAL INFANT BURLO GAROFOLO – TRIESTE, ITALY

**PHD STUDENT - SCIENCES IN REPRODUCTION AND DEVELOPMENT** – 01/11/2022 – CURRENT

PhD course aimed at learning bioinformatic techniques for transcriptomic analysis of both RNA-Bulk and scRNA-seq using software such as Python and RStudio. Construction and preparation of libraries for bulk, single-cell, and spatial transcriptomic samples.

 TAMPERE UNIVERSITY - CELIAC DISEASE RESEARCH CENTRE – TAMPERE, FINLAND

**VISITING PHD STUDENT** – 01/10/2024 – 31/03/2025

Studied and mastered scRNA-seq techniques, including spatial transcriptomic processing and analysis, and data integration between spatial transcriptomics and scRNA-seq. Gained expertise in H&E/immunofluorescence image processing and visualization.

 IRCCS MATERNAL INFANT BURLO GAROFOLO – TRIESTE, ITALY

**FELLOW RESEARCHER** – 24/11/2025 – CURRENT

## EDUCATION AND TRAINING

22/09/2016 – 02/10/2019 Italy

**BACHELOR'S DEGREE IN BIOLOGICAL SCIENCES** University of Urbino "Carlo Bo"

**Thesis** The role of epigenetics mechanisms in Rett Syndrome

06/10/2019 – 24/10/2022 Italy

**MASTER'S DEGREE IN FUNCTIONAL GENOMICS** University of Trieste

**Thesis** Transcriptional analysis of organoids intestines generated by celiac

01/11/2022 – CURRENT Trieste, Italy

**PHD COURSE IN SCIENCES OF REPRODUCTION AND DEVELOPMENT** University of Trieste - IRCCS Maternal Infant Burlo Garofolo

## 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

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

## ● SKILLS

Social Media | Zoom | Skype | Google Drive | LinkedIn | MS Office (Word Excel PowerPoint) | Internet user | Outlook | Creativity | flexible | Team-work oriented | Good listener and communicator | Organizational and planning skills | Strategic Planning | Bioinformatic | Python | R, RStudio | scRNA-sequencing analysis | Visual Studio Code

## ● PUBLICATIONS

2022

[A Label-Free Proteomic Approach for the Identification of Biomarkers in the Exosome of Endometrial Cancer Serum](#)

Eduardo Sommella, Valeria Capaci, Michelangelo Aloisio, Emanuela Salviati, Pietro Campiglia, Giuseppe Molinaro, Danilo Licastro, Giovanni Di Lorenzo, Federico Romano, Giuseppe Ricci, Lorenzo Monasta, Blendi Ura

## ● DRIVING LICENCE

**Driving Licence:** A1

**Driving Licence:** A

**Driving Licence:** B

## ● CONFERENCES AND SEMINARS

19/06/2023 – 20/06/2023 Trieste

**H2020-MSCA-ITN TRIM-NET**

UNDERSTANDING CELIAC DISEASE AT SINGLE CELL RESOLUTION

17/05/2023 – 20/05/2023 Vienna

**(ESPGHAN 2023) THE 55TH ANNUAL MEETING OF ESPGHAN**

ANTIGEN PROCESSING AND PRESENTATION PATHWAY IS CONSTITUTIVELY AND SPECIFICALLY ALTERED IN INTESTINAL EPITHELIAL CELLS AND ORGANOID FROM CELIAC PATIENTS.

17/05/2023 – 20/05/2023 Vienna

**(ESPGHAN 2023) THE 55TH ANNUAL MEETING OF ESPGHAN**

UNDERSTANDING CELIAC DISEASE AT SINGLE CELL RESOLUTION

17/05/2023 – 20/05/2023 Vienna

**(ESPGHAN 2023) THE 55TH ANNUAL MEETING OF ESPGHAN**

DNA METHYLATION PATTERNS IN EPITHELIAL CELLS FROM ORAL MUCOSA DIFFERENTIATE PATIENTS WITH ACTIVE CROHN'S DISEASE.

15/05/2024 – 18/05/2024 Milano

**(ESPGHAN 2024) THE 56TH ANNUAL MEETING OF ESPGHAN**

INTESTINAL ORGANOID AS MODEL TO STUDY THE INTERACTION WITH GLIADIN PEPTIDES

05/09/2024 – 07/09/2024 Sheffield

**(ICDS 2024) THE 20TH INTERNATIONAL CELIAC DISEASE SYMPOSIUM**

SINGLE CELL TRANSCRIPTOMIC FOR DECIPHERING THE PATHOGENESIS OF CELIAC DISEASE

04/12/2024 – 07/12/2024 Buenos Aires

**(WCPGHAN 2024) THE 7TH WORLD CONGRESS**

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SINGLE CELL TRANSCRIPTOMIC FOR DECIPHERING THE PATHOGENESIS OF CELIAC DISEASE

14/05/2025 – 17/05/2025 Helsinki

**(ESPGHAN 2025) THE 57TH ANNUAL MEETING OF ESPGHAN**

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SINGLE CELL TRANSCRIPTOMIC FOR DECIPHERING THE PATHOGENESIS OF CELIAC DISEASE

14/05/2025 – 17/05/2025 Helsinki

**(ESPGHAN 2025) THE 57TH ANNUAL MEETING OF ESPGHAN**

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PATIENT DERIVED INTESTINAL ORGANOID: AN IN VITRO MODEL TO STUDY GASTROINTESTINAL DISORDERS

10/09/2025 – 12/09/2025 Tampere

**(TCDS 2025) TAMPERE CELIAC DISEASE SYMPOSIUM**

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SINGLE CELL TRANSCRIPTOMIC FOR DECIPHERING THE PATHOGENESIS OF CELIAC DISEASE

● **HONOURS AND AWARDS**

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05/2025

**ESPGHAN Young Investigators Awards 2025 – ESPGHAN - European Society for Paediatric Gastroenterology, Hepatology, and Nutrition**

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