

**PERSONAL INFORMATION**
**ROSALIA EMMA**

✉ rosalia.emma@unict.it

Sex: Female | Date of birth: 28/02/1985 | Nationality: Italian

**EDUCATION AND TRAINING**

From 03/11/2014 to 31/10/2017

**PhD in “Translation Biomedicine”**

Level 8

*Department of Clinical and Experimental Medicine - University of Catania - Italy*

- Research Project: "Asthma and Smoking: Characterization of the Severe Asthma Smoking Phenotype"

From 21/03/2013

**Registration to ONB – Section A**

Ordine Nazionale dei Biologi, Roma

- Registration number: AA\_068244

June / July 2012

**Practice the profession of biologist – Section A**

University of Catania - Italy

AY 2009/2010 – 2010/2011

**Master’s Degree in Health Biology with 110/110 cum laude**

Level 7

University of Catania - Italy

Thesis title: “Study of an innovative flow cytometry method for monitoring allergic patients under sublingual immunotherapy (SLIT)”

AY 2004/2005 – 2007/ 2008

**Bachelor in Biology**

Level 6

University of Catania

Thesis title: “Antiphospholipid Syndrome”

SY 1999/2000 – 2003/2004

**Diploma – Science High School**

Level 4

Liceo Scientifico “Archimede”, via L. Ariosto, 37 – 95024 Acireale (CT)

**RESEARCH ACTIVITY**

From 01/03/2023 to date

**Assistant Professor/Researcher**

*Department of Clinical and Experimental Medicine – University of Catania - Italy*

- Research Topic: Development and scientific validation in real-life of a state-of-the-art wearable device, based on the use of artificial intelligence, that functions as a complex, high-precision, real-time monitoring system of the user's smoking behaviour, and as an integrated cessation support tool in smokers embarking on a smoking cessation pathway. The 'SenseQuit' device is designed as an advanced hardware-software solution that will be used to monitor the gestural ritual associated with smoking behaviour. Sample collection and analysis of biomarkers of exposure, and indicators of health impact (mucociliary clearance test).

Business or sector: Research

From 08/09/2022 to 10/02/2023

**Research Assistant REPLICA project (FSFW COE1- 05)**

*ECLAT S.R.L. (Spin-off University of Catania) - Torre Biologica “F. Latter” – via Santa Sofia n. 89, Catania*

- Helping scientific project managers in the organisation and execution of experiments and multimedia organisation (data and record management in the cloud). Biotechnology and mechanical inhalation laboratory activities, including analysis and editing. Laboratory activities (media and non-media) for scientific support of partners and help for project scientific managers in coordination. Reporting on the status of project objectives and deadlines, and help with coordination/management. Data processing and analysis activities. Drafting and reviewing data, documents, Standard Operating Protocols (SOPs) and publications related to the project.
- Business or sector: Research

From 20/07/2022 to date

**"Visiting Researcher"**

*Department of Biomedical and Biotechnological Sciences (BIOMETEC) – University of Catania - Italy*

- Evaluation of cytotoxicity (NRU test; MTT test), oxidative stress (High Content Screening Analysis), mutagenicity (AMES), genotoxicity (IVM) and inflammatory biomarkers induced by tobacco products and tobacco alternatives (e-cigarettes and heated tobacco). Cellular exposure to smoke or vapour from electronic cigarettes using standardised machines. Data processing and statistical analysis. Drafting and revision of data and scientific articles.
- Business or sector: Research

From 15/07/2020 to 14/07/2022

**Post-Doctoral Research Fellow**

*Department of Biomedical and Biotechnological Sciences (BIOMETEC) – University of Catania - Italy*

- Research Topic: Evaluation of, cytotoxicity, oxidative stress, mutagenicity and inflammatory endpoints in bronchial epithelial cells exposed to tobacco products and alternative nicotine- delivery products.
- Business or sector :Research

From 01/07/2019 to 30/06/2020

**Lab Research Assistant**

*ECLAT S.R.L. (Spin-off University of Catania) – Torre Biologica "F. Latteri" – via Santa Sofia n. 89, Catania - Italy*

- Support activities for the coordination of the research project "Replication Study" COE1-05: design of the dedicated laboratory; research of equipment and tools necessary for the research project; support for the drafting of Standard Operating Procedures.
- Business or sector: Research

From 01/04/2014 to 30/06/2014

**"Intuitu Personae" contract**

*Department of Clinical and Molecular Biomedicine – University of Catania - Italy*

- Technical support during the longitudinal visits planned for the Grant Agreement European research project called " U-BIOPRED -Unbiased BIOMarkers in PREDiction of respiratory disease outcomes". In particular: collection of induced sputum from asthmatic patients through aerosol with salt solution; processing of the sputum samples and preparation of slides for cell counts (cytospin); microscopic observation and cell counts, as required in the Working Package n.7 of the project.
- Business or sector: Research

**OTHER WORK EXPERIENCE**

From 01/06/2013 to 31/12/2013

**Voluntarily training**

*Department of Clinical and Molecular Biomedicine – University of Catania - Italy*

- Processing of biological samples (blood, urine and induced sputum). Preparation of cytospin (slides for cell counts), microscopic observation and cell counts. Research in flow cytometry.
- Collaboration with the European project U-BIOPRED (Unbiased BIOMarkers in PREDiction of respiratory disease outcomes).
- Cooperation to research projects conducted by "Centro per la Prevenzione e Cura del Tabagismo" (CPCT) in University of Catania: "Efficacy And Safety Of Smoking Cessation With Varenicline Tartrate in Diabetic Smokers: A Double-Blind, Placebo-Controlled, Randomized Trial" (DIASMOKE); PRE-ELECT (Preliminary study to evaluate nicotine/cotinine levels in subjects who smoke E-Sigarette)

Business or sector: Research

From 02/05/2012 to 31/10/2012

**Post-graduate training**

“S. Marta e S. Venera” Hospital - Acireale

- Sample acceptance from the surgery and internal departments; processing of samples after performing all procedures to optimize instrumentation (controls, calibration, etc). Methods learned: clinical chemistry and immunoassay, protein electrophoresis and immunofixation, physical-chemical examination of urine and urine sediment analysis, coagulation, blood count, serodiagnosis, VDRL and streptozyme test, fecal occult blood research and microbiology.

Business or sector: Clinical Pathology Unit

From 20/09/2010 to 31/10/2011

**Training**

I.R.M.A. s.r.l. Via Paolo Vasta, 158/C 95124 – Acireale (CT)

- Preparation of cell samples from biological fluids for reading in flow cytometry. Methods learned: Basophil Activation Test (CD63/CD203), "PHAGOBURST TEST", lymphocyte typing; interpretation of analytical data and correlation with other biochemical and clinical parameters; courses update in laboratory medicine; "Journal Club" activity.

Business or sector: Flow cytometry Unit

From 01/02/2008 to 31/07/2008

**Training**

ASP Catania distretto 3, via Pasubio – 95125 Catania

- Methods learned: CBC, Protein Electrophoresis, ANA, ENA, nDNA, APCA, anti-citrulline antibodies, H.pylori and anti-HCV antibodies research, coagulation, Waleer Rose Test, Streptozyme test, VDRL, glycated hemoglobin, Bence-Jones, urinalysis with microscopic examination of the sediment.

Business or sector: Clinical Pathology Unit

**PERSONAL SKILLS**

Mother tongue(s)

**ITALIAN**

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B1	B1	B2
	Trinity College (GESE grade 5 – B1) “with distinction”				
French	A1	A1	A1	A1	A1
	DELFA1 with 14/20				

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user  
Common European Framework of Reference for Languages

**OTHER INFORMATION**

<b>GROUP/ASSOCIATION MEMBERSHIP</b>	▪ <b>Ordine Nazionale dei Biologi</b> – Catania – N.: AA_068244 from 21/03/2013 to date
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<b>PARTICIPATION IN EDITORIAL BOARDS OF JOURNALS OF RECOGNISED PRESTIGE</b>	<ul style="list-style-type: none"> <li>▪ <b>Review Editor</b> for the <b>Frontiers in Physiology</b> Journal (Specialty section: Respiratory Physiology and Pathophysiology) - <u>Impact Factor: 4.755</u> - dal 03/07/2018 to date.</li> <li>▪ <b>Review Editor</b> for the <b>Frontiers in Pharmacology</b> Journal (Specialty section: Experimental Pharmacology and Drug Discovery) - <u>Impact Factor: 5.988</u> - dal 03/07/2018 to date.</li> </ul>
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