

Curriculum vitae **SIMONA GAMBINO**

Date and place of birth: 01/10/1992, Palermo, Italy

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EDUCATION

2019-today: PhD in “Applied Life and Health Sciences”, Doctoral School in Life and Health Sciences, University of Verona, Italy. BCR signaling and functional studies on CLL and MCL samples through a flow cytometry approach.

2017: Professional habilitation in biology “Esame di Stato, sezione A”, University of Pavia, Italy. Vote: 177/200.

2015-2017: Master’s degree in Experimental and Applied Biology, curriculum Bioanalysis, University of Pavia, Italy. Thesis title: “Esame dei simbionti endocellulari e intestinali della termite *M. darwiniensis*, mediante metodiche ultrastrutturali e molecolari”. Final mark: 110/110 cum laude.

2011-2015: Bachelor’s degree in Biological Sciences, University of Palermo, Italy. Thesis title: “*M. tuberculosis*: tecniche diagnostiche usate per la sua identificazione”. Final mark: 107/110.

RESEARCH EXPERIENCE

2023-today: Fellowship at the “Department of Engineering for Innovation Medicine, University of Verona”, Verona, Italy. Project title: “Le alterazioni fenotipiche e molecolari nel trattamento con nuovi farmaci nei pazienti affetti da leucemia linfatica cronica e linfoma a cellule del mantello”.

2023: Traineeship for the “Guido Berlucchi Foundation Young Researcher Mobility Programme 2022” at the “INSERM, University of Nantes”, Nantes, France. Establishment of co-culture manipulations and phospho-specific flow cytometry assays in the project “Investigating the immune signals in mantle cell lymphoma ecosystem regulation survival and tumour resistance (MANTLE-FLOW).

2021: Senior biologist at “Servizio di medicina di laboratorio, Azienda socio-sanitaria territoriale (Asst) del Garda”, Desenzano del Garda, Italia. Molecular analysis (i.e. qPCR) on respiratory swab for SARS-CoV2 detection.

2018-2019: Traineeship at “Laboratorio Analisi Cliniche Leonardo da Vinci”, Palermo, Italy. Clinical, serological, microbiological and biochemical analysis on biological samples (blood, feces, urine, etc.).

2018: Erasmus Traineeship post-lauream at the “Centro de Investigaciones Biologicas (CIB)”, Madrid, Spain. Manipulation studies of Gram-positive bacteria (es. *Lactobacillus plantarum*), through microbiological, genetic and molecular techniques.

2016-2017: Master Internship at the Laboratory of parasitology, University of Pavia, Italy. Studies on entomological samples through optical microscope, TEM (Transmission Electron Microscope) and molecular techniques.

2014-2015: **Curricular Internship** at the Laboratory of microbiology, “Villa Sofia” hospital, Palermo, Italy. Bacteriological, serological and molecular techniques on clinical samples (blood, feces, urine, BAL, etc.).

TECHNICAL SKILLS AND COMPETENCES

I am specialized in human and bacterial cell culture, molecular biology techniques (nucleic acids manipulation, RT-PCR, qPCR, cell transfection and bacterial transformation) and flow cytometry (immunophenotyping, phospho-specific flow cytometry, functional assays). Good knowledge of microscopy techniques (i.e. optical microscopy and TEM).

I am competent in the use of bioinformatic tools for flow cytometry (Flowjo, Cytobank and Ryvett software) and statistical data analysis (Graphpad Prism software, ClustVis and Spotfire).

Proficiency of MacOS and Windows informatic systems and their relative writing and computing packages.

Fluency of both written and spoken English, French and Spanish.

PUBLICATIONS

1. “B-cell receptor signaling activity identifies patients with mantle cell lymphoma at higher risk of progression”.
Simona Gambino, Francesca Maria Quaglia, Marilisa Galasso, Chiara Cavallini, Roberto Chignola, Ornella Lovato, Luca Giacobazzi, Simone Caligola, Annalisa Adamo, Santosh Putta, Isacco Ferrarini, Stefano Ugel, Massimo Donadelli, Iliara Dando, Mauro Krampera, Carlo Visco and Maria Teresa Scupoli. *Submitted to Blood*.
2. “The rs1001179 SNP and CpG methylation regulate catalase expression in chronic lymphocytic leukemia”.
Marilisa Galasso; Elisa Dalla Pozza; Roberto Chignola; **Simona Gambino**; Chiara Cavallini; Francesca Maria Quaglia; Ornella Lovato; Iliara Dando; Giorgio Malpeli; Mauro Krampera; Massimo Donadelli; Maria Grazia Romanelli; Maria Teresa Scupoli. *Cellular and Molecular Life Sciences*; 2022. DOI: [10.1007/s00018-022-04540-7](https://doi.org/10.1007/s00018-022-04540-7)
3. “Browsing the oldest antioxidant enzyme: catalase and its multiple regulation in cancer”.
Marilisa Galasso, **Simona Gambino**, Maria Grazia Romanelli, Massimo Donadelli, Maria Teresa Scupoli. *Free Radical Biology and Medicine*. DOI: [10.1016/j.freeradbiomed.2021.06.010](https://doi.org/10.1016/j.freeradbiomed.2021.06.010)

CONGRESS ATTENDANCES

1. “Catalase expression in leukemia cells is controlled by genetic and epigenetic mechanisms”.
Galasso M, Dalla Pozza E, Chignola R, **Gambino S**, Cavallini C, Quaglia F.M, Lovato O, Dando I, Malpeli G, Krampera M, Donadelli M, Romanelli M.G, Scupoli M.T. “EHA” Congress. Vienna, Austria. June 2022.
2. “Fluorescent cell barcoding and phospho-specific flow cytometry characterize B-cell receptor signaling profiles associated with different clinical outcome in mantle cell lymphoma”. **S. Gambino**, F.M. Quaglia, C. Cavallini, M. Galasso, B. Rufini, O. Lovato, M. Krampera, C. Visco, M.T. Scupoli. **Oral communication**. “ISCCA” Congress. Catania, Italy. May 2022.
3. “B-cell receptor signaling profiles identify subsets of mantle cell lymphoma patients with different clinical outcomes”. F. M. Quaglia, **S. Gambino**, C. Cavallini, B. Rufini, O. Lovato, M. Krampera, C. Visco, M. T. Scupoli. “SIES” Congress. Rome, Italy. April 2022.

4. "B-cell receptor signaling profiles in mantle cell lymphoma: a barcoding and phospho-specific flow cytometry approach". **S. Gambino**, F.M. Quaglia, C. Cavallini, P. Sindaco, A. Parisi, C. Visco, M.T. Scupoli. "SIE-SIES" Congress. Milan, Italy. October 2021.
5. "Genetic and epigenetic mechanisms regulating catalase expression in chronic lymphocytic leukemia". M. Galasso, E. Dalla Pozza, R. Chignola, **S. Gambino**, C. Cavallini, F.M. Quaglia, O. Lovato, I. Dando, G. Malpeli, M. Krampera, M. Donadelli, M.G. Romanelli, M.T. Scupoli. "SIE-SIES" Congress. Milan, Italy. October 2021.
6. "Catalase expression in leukemia cells is controlled by genetic and epigenetic mechanisms". Marilisa Galasso, E. Dalla Pozza, R. Chignola, **S. Gambino**, C. Cavallini, F.M. Quaglia, O. Lovato, I. Dando, G. Malpeli, M. Krampera, M. Donadelli, M.T. Scupoli, M.G. Romanelli. "SBBM" online meeting. June 2021.
7. "A barcoding and phospho-specific flow cytometry approach to characterized B-cell receptor signaling profiles in mantle cell lymphoma". Cavallini C, **Gambino S**, Quaglia FM, Sindaco P, Parisi A, Visco C, Scupoli MT. "ISCCA" online meeting. May 2021.
8. "Chronic lymphocytic leukemia: catalase expression and its genetic and epigenetic changes". M. Galasso, E. Dalla Pozza, R. Chignola, **S. Gambino**, C. Cavallini, F.M. Quaglia, O. Lovato, I. Dando, G. Malpeli, M. Krampera, M. Donadelli, M.G. Romanelli, M.T. Scupoli. "ISCCA" online meeting. May 2021.
9. "Regulation of catalase gene expression in chronic lymphocytic leukemia patients". M. Galasso, E. Dalla Pozza, **S. Gambino**, I. Dando, C. Cavallini, F.M. Quaglia, M. Krampera, G. Malpeli, M. Donadelli, M.G. Romanelli, M.T. Scupoli. "Under 40 in Hematology" online meeting. November 2020.