

**Carmela Gallo, PhD.**

Birth date: March, 1 1987

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## • EDUCATION

2015 PhD in Applied Biology

Faculty of Biology/ Department of Biology, University of Naples Federico II/ Naples, Italy

PhD Supervisor: Angelo Fontana, Giuliana d'Ippolito

2011 Master's Degree in Biology 110/110, cum laude

Faculty of Biology/ Department of Biology, University of Naples Federico II/ Naples, Italy

## • CURRENT POSITION

09/2020 –Today

Researcher, Institute of Biomolecular Chemistry (ICB)- CNR / Pozzuoli, Italy

## • PREVIOUS POSITIONS

2015 – 2020 Postdoctoral fellow in the field of “Antigens and adjuvants for vaccines and immunotherapy”  
Institute of Biomolecular Chemistry (ICB) - CNR / Pozzuoli, Italy; The research activity has been carried out at the University of Campania, Clinical Immunology and Allergology, Dept. of Internal and Experimental Clinic, c/o II Policlinic, Naples, Italy with the supervision of the prof. Raffaele de Palma

2012 –2015 PhD student scholarship

Department of Biology, University of Naples Federico II/ Naples, Italy; Institute of Biomolecular Chemistry (ICB)- CNR / Pozzuoli, Italy

2011- 2012 Internship

Department of Biology, University of Naples Federico II/ Naples, Italy; Institute of Biomolecular Chemistry (ICB)- CNR / Pozzuoli, Italy

## • FELLOWSHIPS AND AWARDS

2019 Young Investigator Award 2019 for “Chemistry in the Life Sciences”, Department of Chemical Science and Materials Technology (DSCTM), CNR, Italy

2016 Scholarship granted by CNR in the program “Short-term Mobility” 2016 for the development of the project “The BRET technology and its application to screening assays” – Thematic Area: Chemical sciences and material technology; prof. Simon J Davis Lab, Weatherall Institute of Molecular Medicine of the University of Oxford, United Kingdom.

## • REPRESENTATIVE PUBLICATIONS:

1. 1. **C. Gallo\***†, G. Barra\*, M. Saponaro, E. Manzo, L. Fioretto, M. Ziaco, G. Nuzzo, G. d’Ippolito, R. De Palma, A. Fontana\*. A New Bioassay Platform Design for the Discovery of Small Molecules with Anticancer Immunotherapeutic Activity. *Marine Drugs*, 2020, 18(12), 604; <https://doi.org/10.3390/md18120604>
2. **C. Gallo\***, S. Landi\*, G. d’Ippolito, G. Nuzzo, E. Manzo, A. Sardo, A. Fontana. Diatoms synthesize sterols by inclusion of animal and fungal genes in the plant pathway. *Scientific Reports*, 2020; 10:4204; <https://doi.org/10.1038/s41598-020-60993-5>
3. E. Manzo\*, **C. Gallo\***, L. Fioretto, G. Nuzzo, G. Barra, D. Pagano, I. Russo Krauss, L. Paduano, M.

Ziaco, M. DellaGreca, R. De Palma, A. Fontana. Diasteroselective Colloidal Self-Assembly Affects the Immunological Response of the Molecular Adjuvant Sulfavant. *ACS Omega*, 2019; 4, 7807–7814.

4. E. Manzo\*, **C. Gallo\***, R. Sartorius, G. Nuzzo, A. Sardo, P. De Berardinis, A. Fontana, A. Cutignano. Phosphatidylmonogalactosyldiacylglycerols (PGDG) from the Marine Diatom *Thalassiosira weissflogii*: Inspiration for a Novel Synthetic Toll-Like Receptor 4 Agonist. *Marine Drugs*, 2019; 17, 103.
5. G. Nuzzo\*, B. de Araújo Gomes\*, **C. Gallo\***, P. Amodeo, C. Sansone, O. D. L. Pessoa, E. Manzo, R. M. Vitale, A. Ianora, E. A. Santos, L. V. Costa-Lotufo, A. Fontana. Potent Cytotoxic Analogs of Amphidinolides from the Atlantic Octocoral *Stragulum bicolor*. *Marine Drugs*, 2019; 17, 58. Impact Factor rivista: 4.379
6. M.G. Adelfi\*, R.M. Vitale\*, G. d’Ippolito\*, G. Nuzzo\*, **C. Gallo\***, P. Amodeo, E. Manzo, D. Pagano, S. Landi, G. Picariello, M.I. Ferrante, A. Fontana. Patatin-like lipolytic acyl hydrolases and galactolipid metabolism in marine diatoms of the genus *Pseudo-nitzschia*. *Biochimica et Biophysica Acta (BBA) - Molecular and Cell Biology of Lipids*, 2019, 1864(2):181-190.
7. G. Barra, A. Lepore, M. Gagliardi, D. Somma, M.R. Matarazzo, F. Costabile, G. Pasquale, A. Mazzoni, **C. Gallo**, G. Nuzzo, F. Annunziato, A. Fontana, A. Leonardi, R. De Palma. Sphingosine Kinases promote IL-17 expression in human T lymphocytes. *Scientific Reports*, 2018; 8: 1-13; ISSN: 2045-2322 (online).
8. **C. Gallo**, d’Ippolito G., Nuzzo G., Sardo A., Fontana A. Autoinhibitory sterol sulfates mediate programmed cell death in a bloom-forming marine diatom. *Nature Communications*, 2017; 8 (1).
9. -Manzo E., Fioretto L., Pagano D., Nuzzo G., **C. Gallo**, De Palma R., Fontana A. Chemical Synthesis of Marine-Derived Sulfoglycolipids, a New Class of Molecular Adjuvants. *Marine Drugs*, 2017; 15: 288:298.
10. -Manzo, E., Cutignano, A., Pagano, D., **Gallo**, C., Barra, G., Nuzzo, G., Sansone, C., Ianora, A., Urbanek, K., Fenoglio, D., Ferrera, F., Bernardi, C., Parodi, A., Pasquale, G., Leonardi, A., Filaci, G., De Palma, R., Fontana, A. A new marine-derived sulfoglycolipid triggers dendritic cell activation and immune adjuvant response. *Scientific Reports (Nature)*, 2017; 7: 1-10.
11. Cutignano A., Nuzzo G., Ianora A., Luongo E., Romano G., **C. Gallo**, Sansone C., Aprea S., Mancini F., D’Oro U., A. Fontana. Development and Application of a Novel SPE-Method for Bioassay-Guided Fractionation of Marine Extracts. *Marine Drugs*, 2015; 13: 57368-5749.

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