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Publications: 105 Scientific publications, 5 patent, H-index 25

## EDUCATION AND POSITION

2021-today: Senior researcher at CNR, Institute of Biomolecular Chemistry (ICB), Pozzuoli (NA), Italy  
2001-2020: Staff researcher at CNR, Institute of Biomolecular Chemistry (ICB), Pozzuoli (NA), Italy  
2001-2001: Research contract at Department of Organic and Biological Chemistry-University of Naples Federico II; disciplinary sector: CO5X; 'Study and develop of reactions conducted with metal cations in the field of carbohydrates'  
1998-2001: PhD in Chemical Sciences (XIII Cycle), Department of Organic and Biological Chemistry (University of Naples Federico II)-Italy. "Interactions between carbohydrates and metal ions"  
1996: Qualifying exam to practice as a chemist (November).  
1996: Master's degree in Chemistry at University of Naples 'Federico II', 110/110 e lode. Thesis: "Structural determination of polysaccharides from phytopathogenic bacteria"

## RESEARCH ACTIVITY

- chemical synthesis of secondary metabolites of marine and terrestrial origin aimed at structural confirmation and the need to have sufficient amount of product for in-depth studies of biological activity and for pharmacological developments
- isolation of new secondary metabolites from natural extracts using chromatographic techniques
- chemical characterization of the isolated molecules using spectrometric (LCMS, ESIMS) and spectroscopic (NMR, IR, UV, CD) methods
- study of supramolecular aggregates of lipid bioactive substances in an aqueous environment.

## ROLE IN NATIONAL AND INTERNATIONAL RESEARCH PROJECTS

### CNR Coordinator:

- Scientific Responsible ICB-CNR POR 2014-2020 Antitumor Drugs and Vaccines from the Sea (ADVISE)
- WP4 Responsible ICB-CNR POR 2014-2020 Antitumor Drugs and Vaccines from the Sea (ADVISE): 'Lead Optimization'
- WP3 Responsible PRIN 2022 PNRR "The puzzle of TREM2- ligand interaction: deciphering chemical features and biochemical interactions" (TETRIS): preparazione e ottimizzazione chimica dei ligandi TREM2 basati su Sulfavant A
- Scientific Responsible in the frame of contract collaboration with AbbVIE S.r.l.: 'Analisi spettroscopica identificativa e/o comparativa mediante Risonanza Magnetica Nucleare e Spettrometria di Massa su campioni'
- UO Responsible in bilateral project 2018-2020 with Dept. of Medicine, Université Laval, Québec, Canada: "Defining the endocannabinoidome and the microbiota in ashma and its severity"
- Scientific Responsible in the frame of contract collaboration (2016-2018) with GW Pharmaceuticals: "Alternative methods for the preparation of deuterated CBD, CBDV, THCV and their oxidation metabolites"
- UO Responsible in PON PON01\_00117 (2011-2015) 'Antigeni e Adjuvanti per vaccini e immunoterapia'
- Scientific Responsible in the bilateral project CNR-TUBITAK (2014-2015): 'Chemical and ecological study of the turkish coasts benthic invertebrates'
- WP1.1.2 Responsible in PON PON01\_02512 (2011-2015) 'Ricerca e Sviluppo di bioregolatori attivi sui meccanismi epigenetici dei processi infiammatori nelle malattie croniche e degenerative (BIAM-EPI)':'Design e sintesi organica degli addotti e caratterizzazione strutturale mediante NMR degli addotti'
- Scientific Responsible of Campania Project "Valorizzazione di risorse naturali non tradizionali della Campania: studio chimico di invertebrati marini" approved and funded by S.R. N.5 on 28/3/2002.
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## OTHER

- Short Term Mobility (CNR-STM) 2007, "Studio di metaboliti secondari da invertebrati marini" at University of Guam-Marine Laboratory, UOG Station, Mangilao, Guam 96923, 01/10/2007-30/11/2007

-Short Term Mobility (CNR-STM) 2006, "Studio di metaboliti secondari da opistobranchi" at University of Queensland, Brisbane (Australia), 10/10/2006-30/11/2006  
- Tutor of 6 post-Doc, 4 PhD, 16 Master's Degree

#### **TEACHING AND SCIENTIFIC DISSEMINATION ACTIVITY**

-Teaching of Organic Chemistry at the Degree Course in Environmental Sciences - University of Campania 'Luigi Vanvitelli'; I semester, Academic Years 2021/2022, 2022/2023, 2023/2024, 2024/2025.

#### **ROLE in INTERNATIONAL CONFERENCES**

##### **Keynote Oral Presentation:**

-'Keynote Oral Presentation' at 31th International Symposium of the Chemistry of Natural Products and 11th International Congress on Biodiversity, from IUPAC in Naples (15<sup>th</sup>-19<sup>th</sup> of October 2023), entitled 'Sulfur-containing glycolipids, the access key for triggering and study the response of innate immune cells'

#### **PARTICIPATION IN COMPANIES AND SPINOFF**

BioSEArch S.r.l.: Italian Company for the Research of drugs from marine organisms:

Responsibility of operative unit for the synthesis and develop of new lead compounds for pharmaceutical application.