

CURRICULUM VITAE GIUSEPPINA TOMMONARO

General Information

Place and Date of birth: Procida (NA, Italy), April 11th, 1970; Nationality: Italian

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ORCID ID: 0000-0002-9613-1843; **Web of Science Researcher ID:** AAX-9587-2021

Researcher full time at Institute of Biomolecular Chemistry, CNR, Via Campi Flegrei, 34-80078, Pozzuoli (NA)

Work Experience

- From 1995 up to 2007: Research activity on isolation, characterization and biological activity of natural products at ICB with fellowships
- Since 2008 to date: Researcher, 3° Liv. - Permanent position, for National Council Research of Italy at the Institute of Biomolecular Chemistry (ICB-CNR)
- 2011 to date: Member of Scientific Board of the International PhD Programme "Environment, Resources and Sustainable Development" (<http://www.ersd.uniparthenope.it/>) at the "Parthenope" University of Naples,
- 2011: Appointment for "Analysis of risk in biotechnological processes" – Course at Parthenope University of Naples; A.A. 2011/2012.
- 2012: Appointment for "Analysis of risk in biotechnological processes" – Course at Parthenope University of Naples. A.A. 2012/2013.

EMPLOYMENT AND RESEARCH EXPERIENCE: Permanent position of Research Scientist (CNR) (2008 to date) Laboratory of Natural Products, Institute of Biomolecular Chemistry (CNR) Via Campi Flegrei, 34-80078 Pozzuoli, Na (Italy). **Visiting Researcher:** Department of Extremophilic Bacteria, Institute of Microbiology, Bulgarian Academy of Sciences BAS, Sofia, Bulgaria (2007, 2008, 2012); Plymouth Marine Laboratory-PML, Plymouth, UK (2009); Department of Biochemistry and Molecular Biology, II Faculty of Pharmacy, Complutense University, Madrid, Spain (2013); Department of Bioengineering, Marmara University, Istanbul Turkey (2014); Hasselt University, Environmental Biology Department. **Research activity:** Chemistry of natural compounds; Biological activity assays (antimicrobial, cytotoxicity, AChE inhibition, antioxidant); Marine organisms; Sponge- and plant- associated microorganisms; Quorum sensing; Nutritional capacities evaluation of vegetables; design of "green" strategies in agriculture. **Teaching activity:** "Analysis of risk in biotechnological processes" – Course at "Parthenope" University of Naples (Academic years 2011-2012 and 2012-2013).

RELEVANT PREVIOUS PROJECTS OR ACTIVITIES

- Responsible of ICB Research Unit for the project PON "ALIFUN: Functional and Innovative Foods in the Mediterranean Diet "; Prog. ARS01_00783 AGRIFOOD -ALIFUN, 2021-2023
- Principal Investigator (PI) of a Bilateral Project CNR/TUBITAK 2016-2017. "Investigation of extremophilic QS and QQ metabolites to combat bacterial virulence"
- Scientific Responsible of a research contract between ICB and PolyEur Company for the nutritional analysis on "Prodotti di IV gamma" (2016). (Prot. ICB N. 0005257 15/12/2015)

- Participation at Project PON03PE_00107-1. Development of green technologies for production of BIOchemicals for synthesis and industrial application of POLYmeric materials starting from agriculture biomasses of sustainable crop cultures of Campania Region - BioPoliS. (2014-2016). (Prot. ICB N. 0001926 30/04/2014)
- Participation at Project PON01_01966 “Integrated agro-industrial supply chains with high energy efficiency for the development of Eco-compatible Energy and Bio-chemicals production processes from renewable sources and for the enhancement of the territory (EnerbioChem)” 28/10/2011 prot. n. 881/Ric - Programma Operativo Nazionale (PON) “Ricerca e Competitività 2007 – 2013” Regioni Convergenza. (Prot. ICB N. 0001071 23/03/2012).
- Participation at regional Project funded by Campania Region-Se.S.I.R.C.A. dal titolo “Recovery of waste from industrial lemon processing”. (2013). (Prot. ICB N.0000692 del 24/02/2017).
- Scientific Responsible of a research contract between ICB and “La Vialla” Farm for the nutritional analysis of tomatoes. (Prot. ICB N. 0001543 del 21/03/2013).
- Participation at Project “Integrated knowledge for Sustainability and Innovation of Made in Italy Agri-food (CISIA)” Legge n. 191/2009. (2011-2015). (Prot. ICB N.0000741 27/02/2017).
- Principal Investigator (PI) of a “Progetto di Grande Rilevanza” Italia-Egitto “Biotechnological applications of marine sponge-associated microorganisms”, funded by Ministero degli Affari Esteri, Direzione Generale per la Promozione del Sistema Paese”, Italy 2013-2016. (Prot. MAE N. 0086091 17/04/2013).
- Participation at Project “Biology of plant production systems”, Operative Unit: Biomolecular and pharmacological characterization of metabolites from plants and micro-organisms related to them and nutraceutical enhancement of plants. (2011). (Prot. ICB N. 0000749 27/02/2017).
- Scientific Responsible of a research contract between ICB and De Clemente Conserve S.p.A.for the nutritional analysis of tomatoes. (Prot. ICB N. 0000230 01/02/2010)

Total publications: 87 peer-reviewed papers, **Reviewer of international scientific journals:** *Molecules*, *Marine Drugs*, *Microbial Ecology*, *Cancers*, *Pharmaceutical Biology*, *Natural Product Research*, *Foods*, *American Society for Microbiology*. **Editor of the book:** *Quorum Sensing: Molecular Mechanism and Biotechnological Application*. 2019. Ed. Tommonaro Giuseppina, Publisher: ACADEMIC PRESS LTD-ELSEVIER SCIENCE LTD, 125 LONDON WALL, LONDON EC2Y 5AS, ENGLAND.

Relevant publications: 1) Tramice, A.; Cutignano, A.; Iodice, A.; Poli, A.; Finore, I.; **Tommonaro, G.** (2021). Involvement of a Quorum Sensing Signal Molecule in the Extracellular Amylase Activity of the Thermophilic *Anoxybacillus amylolyticus*. *Microorganisms*, 9, 819. 2) **Tommonaro, G.**; Abbamondi, G.R.; Nicolaus, B.; Poli, A.; D’Angelo, C.; Iodice, C.; De Prisco, R. (2021). Productivity and Nutritional Trait Improvements of Different Tomatoes Cultivated with Effective Microorganisms Technology. *Agriculture*, 11, 112. 3) Basaran TI, Berber D, Gökalsın B, Tramice A, **Tommonaro G**, Abbamondi GR, Erginer Hasköylü M, Toksoy Öner E, Iodice C and Sesal NC (2020) Extremophilic *Natrinema versiforme* Against *Pseudomonas aeruginosa* Quorum Sensing and Biofilm. *Front. Microbiol.* 11:79. doi: 10.3389/fmicb.2020.00079. 4) Giordano A. and **Tommonaro G.** (2019). Curcumin and Cancer. *Nutrients* 2019, 11(10), 2376. 5) Barone D., Cito L., **Tommonaro G.**, Abate A.A., Penon D., De Prisco R., Penon A., Forte I.M., Benedetti E., Cimini A., Indovina P., Nicolaus B., Pentimalli F. and Giordano A. (2018). Antitumoral Potential, Antioxidant Activity and Carotenoid Content of Two Southern Italy Tomato Cultivars Extracts: San Marzano and Corbarino. *Journal of Cellular Physiology*, 233 (2), 1266-1277. 6) **Tommonaro G.**, García-Font N., Vitale R.M., Pejin B., Iodice C., Cañadas S., Marco-Contelles J., Oset-Gasque M.J. (2016). Avarol derivatives as competitive AChE inhibitors, non hepatotoxic and neuroprotective agents for Alzheimer’s disease. *Eur J Med Chem*, 122, 326-338. 7) Abbamondi G.R., **Tommonaro G.**, Weyens N., Thijs S., Sillen W., Gkorezis P., Iodice C., de Melo Rangel W., Nicolaus B., Vangronsveld J. (2016). Plant growth-promoting effects of rhizospheric and endophytic bacteria associated with different tomato cultivars and new tomato hybrids. *Chemical and Biological Technologies in Agriculture*, 3:1.