

## PERSONAL INFORMATIONS

Emiliano Manzo

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Sesso Maschio | Data di nascita 03/03/1973 | Nazionalità Italiana

POSITION HELD  
TITLE OF STUDY

Chemical Senior Researcher at Institute of Biomolecular Chemistry (CNR-Italy) / Degree in Chemical Sciences

## PROFESSIONAL EXPERIENCE

27/12/2001 to date

## Chemical Researcher

Consiglio Nazionale delle Ricerche Piazzale Aldo Moro ,7, 00185 Roma

The research field is Organic Chemistry and in particular the Chemistry of Natural Products.

-Study and research of marine natural substances and chemical synthesis of marine metabolites with pharmacological activity:

- a) chemical synthesis of secondary metabolites of marine and terrestrial origin aimed at the structural confirmation and the need to have sufficient amount of products to perform the biological activity evaluations;
- b) isolation of new secondary metabolites from natural extracts by chromatographic techniques;
- c) chemical characterization of isolated molecules using spectrometric (LCMS, ESIMS) and spectroscopic methods (NMR, IR, UV, CD).
- d) study of supramolecular aggregates of lipid bioactive substances in aqueous environment with particular attention of the influence on the biological activity.

These studies aimed at identifying and preparing molecules to be proposed as new lead-compounds in the pharmaceutical field.

Dr. Manzo is scientific responsible of funded projects as well as involved in several other CNR projects

Dr. Manzo is tutor for formation of students of Pharmacy, Chemistry and Pharmaceutical Technologies, Chemistry finalized to preparation of Degree and Doctoral theses.

**Attività o settore** Research and pharmacological develop of Natural Substances  
**Research Grant for collaboration in research activities**

04/2001 to 26/12/2001

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.

**BioSEArch S.r.l.:** Italian Company for the Research of drugs from marine organismsa organic  
Identification, synthesis and develop of new lead compounds for pharmaceutical  
application.

PARTICIPATION IN COMPANIES  
AND SPINOFF

## EDUCATION AND FORMATION

03/1998 to 06/03/2001

[Inserire separatamente i corsi frequentati iniziando da quelli più recenti.]

**PhD in Chemical Sciences (XIII Cycle)**

Department of Organic and Biological Chemistry (University of Naples Federico II)-Italy  
Thesis title: "Interactions between carbohydrates and metal ions"

	Synthesis of carbohydrates derivatives focusing the effect of metal cations on the reactivity of mono- and oligosaccharides																
1997	‘Laonigro Prize’ for the best Degree Thesis in Science. organized by ‘Società Chimica Italiana’, <a href="#">Qualification for the profession of chemist</a>																
November/1996																	
19/07/1996	<a href="#">Chemistry Degree (Organic Sector)-110/110 cum laude</a>																
	University of Naples ‘Federico II’																
	Thesis title: “Structural determination of polysaccharides from phytopathogenic bacteria”, supervisor Prof. Michelangelo Parrilli.																
	Isolation and characterization of bacterial polysaccharides																
June/1991	<a href="#">Classical High-School Diploma</a>																
	‘Benedetto Croce’ Classical High School, Torre Annunziata (Naples)																
<b>PERSONAL SKILLS</b>																	
native language	Italian																
Other languages	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2"></th> <th colspan="2">UNDERSTANDING</th> <th colspan="2">SPEAKING</th> <th rowspan="2">WRITTEN</th> </tr> <tr> <th>Ascolto</th> <th>Lettura</th> <th>Interazione</th> <th>Produzione orale</th> </tr> </thead> <tbody> <tr> <td>English</td> <td>B1</td> <td>B1</td> <td>B1</td> <td>B1</td> <td>B1</td> </tr> </tbody> </table> <p>Livelli: A1/A2: Utente base - B1/B2: Utente intermedio - C1/C2: Utente avanzato  Quadro Comune Europeo di Riferimento delle Lingue</p>		UNDERSTANDING		SPEAKING		WRITTEN	Ascolto	Lettura	Interazione	Produzione orale	English	B1	B1	B1	B1	B1
	UNDERSTANDING		SPEAKING		WRITTEN												
	Ascolto	Lettura	Interazione	Produzione orale													
English	B1	B1	B1	B1	B1												
communication skills	<ul style="list-style-type: none"> <li>▪ Ability to work in a team got in multiple situations within collaboration between different figures and in various time modes</li> </ul>																
Organization and management skills	<ul style="list-style-type: none"> <li>▪ Capacity to work in stressful situations, mainly related to the responsibility and management of scientific projects and the related deadlines for work activities</li> </ul>																
Other Professional skills	<p>-THE RESEARCH ACTIVITY OF DR. MANZO INCLUDES NUMEROUS INTERNATIONAL COLLABORATIONS (CANADA, USA, EGYPT, MOROCCO, INDIA, AUSTRALIA, CHINA) IN THE CONTEXT OF BILATERAL PROJECTS OF THE CNR AND/OR THE MINISTRY OF FOREIGN AFFAIRS.</p> <p>-DR. MANZO OBTAINED THE NATIONAL SCIENTIFIC QUALIFICATION-MIUR FOR UNIVERSITY ASSOCIATE PROFESSOR (SECTOR 03 / C1-ORGANIC CHEMISTRY).</p> <p>-DR. MANZO IS A MEMBER OF THE EDITORIAL BOARD OF THE INTERNATIONAL JOURNAL ‘MARINE DRUGS’ AND HE IS TUTOR FOR UNDERGRADUATES AND DOCTORAL STUDENTS OF THE DEGREE COURSES IN PHARMACY, CHEMISTRY, AND CHEMISTRY AND PHARMACEUTICAL TECHNOLOGIES.</p> <p>-DR. MANZO IS AUTHOR OF OVER 90 PUBLICATIONS ON INTERNATIONAL JOURNALS, 50 COMMUNICATIONS PRESENTED AT INTERNATIONAL CONFERENCES AND SIX PATENTS</p>																
Digital skills	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="5">AUTOVALUTAZIONE</th> </tr> <tr> <th>Elaborazione delle informazioni</th> <th>Comunicazione</th> <th>Creazione di Contenuti</th> <th>Sicurezza</th> <th>Risoluzione di problemi</th> </tr> </thead> </table>	AUTOVALUTAZIONE					Elaborazione delle informazioni	Comunicazione	Creazione di Contenuti	Sicurezza	Risoluzione di problemi						
AUTOVALUTAZIONE																	
Elaborazione delle informazioni	Comunicazione	Creazione di Contenuti	Sicurezza	Risoluzione di problemi													

	independent	Independent	Independent	independent	Independent
▪ Excellent knowledge of the main IT applications (Microsoft Office: Word, Excel, PowerPoint, Outlook Express) and ability to use Internet. Expert in the use of specific software: ChemDraw, Topspin, SciFinder, Thermo Xcalibur.					
Driving license	A2, B				
Scientific Publications on International Journals ( <u>H-Index: 23</u> )					
	<ul style="list-style-type: none"> <li>▪ Genoveffa Nuzzo*, Giuseppina Senese, Carmela Gallo, Federica</li> <li>▪ Albiani, Lucia Romano, Giuliana d'Ippolito, Emiliano Manzo*, Angelo Fontana "Antitumor potential of immunomodulatory Natural Products" (Review) Marine Drugs (ISSN: 16603397), 2022, 19(7), 355; doi.org/10.3390/md19070355</li> <li>▪ Carmela Gallo, Emiliano Manzo, Giusi Barra, Laura Fioretto, Marcello Ziaoco, Genoveffa Nuzzo, Giuliana d'Ippolito, Francesca Ferrera, Paola Contini, Daniela Castiglia, Claudia Angelini, Raffaele De Palma and Angelo Fontana 'Sulfavant A as the first synthetic TREM2 ligand discloses a homeostatic response of dendritic cells after receptor engagement' Cellular and Molecular Life Sciences, 2022, in press</li> <li>▪ Genoveffa Nuzzo, Carmela Gallo, Fabio Crocetta, Lucia Romano,</li> <li>▪ Giusi Barra, Giuseppina Senese, Mario dell'Isola, Dalila Carbone, Valentina</li> <li>▪ Tanduo, Federica Albiani, Guido Villani, Emiliano Manzo, Giuliana</li> <li>▪ d'Ippolito, Angelo Fontana "Identification of the marine alkaloid Lepadin A as potential inducer of Immunogenic Cell Death" Biomolecules (ISSN: 2218273X), 2022, 12 (2), 246; doi.org/10.3390/biom12020246</li> <li>▪ Laura Fioretto, Marcello Ziaoco, Carmela Gallo, Genoveffa Nuzzo, Giuliana d'Ippolito, Pietro Lupetti, Eugenio Paccagnini, Mariangela Gentile, Marina DellaGreca, Marie-Sousai Appavou, Luigi Paduano, Raffaele De Palma, Angelo Fontana, Emiliano Manzo "Direct evidence of the impact of aqueous self-assembly on biological behavior of amphiphilic molecules: the case study of molecular immunomodulators Sulfavants" Journal of Colloid and Interface Science (ISSN: 0021-9797), 2021, 611, 129-136; doi.org/10.1016/j.jcis.2021.12.054</li> <li>▪ Alejandro Moreiras Figueruelo, Genoveffa Nuzzo, Christian Galasso,</li> <li>▪ Clementina Sansone, Fabio Crocetta, Valerio Mazzella, Carmela Gallo, Giusi</li> <li>▪ Barra, Angela Sardo, Antonella Iuliano, Emiliano Manzo, Giuliana d'Ippolito,</li> <li>▪ Marte Albrightsen, Jeanette H. Andersen, Adrianna Ianora, Angelo Fontana "Probing Therapeutic Potential of Marine Phyla by SPE Extraction" Marine Drugs (ISSN: 16603397), 2021, 19 (11), 640; doi.org/10.3390/md19110640</li> <li>▪ Emiliano Manzo "Synthesis of Marine Natural Products and Molecules Inspired by Marine Substances II" Marine Drugs (ISSN: 16603397), 2021, 19(9), 518; doi: 10.3390/md19090518 (pubblicato come parte dello Special Issue 'Synthesis of Marine Natural Products and Molecules Inspired by Marine Substances II')</li> <li>▪ Marco Vastano, Nunzia Esercizio, Mariamichela Lanzilli, Zhaohui Xu,</li> <li>▪ Simone Landi, Lucio Caso, Carmela Gallo, Genoveffa Nuzzo, Emiliano Manzo,</li> <li>▪ Angelo Fontana, Giuliana d'Ippolito "Improvement of CO<sub>2</sub> and acetate coupling into lactic acid by genetic manipulation in the hyperthermophilic bacterium Thermotoga neapolitana" Microorganisms (ISSN: 16603397), 2021, in press</li> <li>▪ Adelaide Cupo, Simone Landi, Salvatore Morra, Genoveffa Nuzzo,</li> <li>▪ Carmela Gallo, Emiliano Manzo, Angelo Fontana, Giuliana d'Ippolito "Autotrophic vs heterotrophic cultivation of the marine diatom Cyclotella cryptica for EPA production" Marine Drugs (ISSN: 16603397), 2021, in press</li> <li>▪ Nunzia Esercizio, Mariamichela Lanzilli, Marco Vastano, Simone</li> <li>▪ Landi, Zhaohui Xu, Carmela Gallo, Genoveffa Nuzzo, Emiliano Manzo, Angelo</li> <li>▪ Fontana, Giuliana d'Ippolito "Fermentation of Biodegradable Organic Wastes by the Family Thermotogaceae" Resources, 2021, 10(4), 34; doi: 10.3390/resources10040034</li> <li>▪ Emiliano Manzo "Synthesis of Marine Natural Products and Molecules Inspired by Marine Substances" Marine Drugs (ISSN: 16603397), 2021, 19, 208; doi: 10.3390/md19040208 (pubblicato come parte dello Special Issue 'Synthesis of Marine Natural Products and Molecules Inspired by Marine Substances')</li> <li>▪ Ennio Russo, Ana Margarida Campos , Giuliana d'Ippolito, Emiliano Manzo, Ylenia Carotenuto,</li> </ul>				

Angelo Fontana, Genoveffa Nuzzo "Implementation in lipid extraction and analysis from phytoplankton: Skeletonema marinoi as case study" Marine Chemistry, 2021, 232, 103964; doi: 10.1016/j.marchem.2021.103964

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- Genoveffa Nuzzo, Emiliano Manzo, Marcello Ziaco, Laura Fioretto, Margarida Campos, Carmela Gallo, Giuliana d'Ippolito, Angelo Fontana "UHPLC-MS method for the analysis of the molecular adjuvant Sulfavant A" Applied Sciences, 2021, 11(4), 1451; doi: 10.3390/app11041451.
- Mariamichela Lanzilli, Marco Vastano, Nunzia Esercizio, Genoveffa Nuzzo, Carmela Gallo, Emiliano Manzo, Angelo Fontana, Giuliana d'Ippolito "Effect of Cultivation Parameters on Fermentation and Hydrogen Production in the Phylum Thermotogae" International Journal of Molecular Sciences, 2021, 22(1), 341; doi: 10.3390/ijms22010341
- Carmela Gallo, Giusi Barra, Marisa Saponaro, Emiliano Manzo, Laura Fioretto, Marcello Ziaco, Genoveffa Nuzzo, Giuliana d'Ippolito, Raffaele De Palma, Angelo Fontana "A new bioassay platform design for the discovery of lead compounds with anticancer and immunomodulant activity" Marine Drugs (ISSN: 16603397), 2020, 18(2), 604; doi: 10.3390/md18120604.
- Marcello Ziaco, Laura Fioretto, Genoveffa Nuzzo, Angelo Fontana, Emiliano Manzo\* "A short gram-scale synthesis of Sulfavant A" Organic Process Research & Development (ACS) (ISSN): 1083-6160, 2020, in press; doi: 10.1021/acs.oprd.0c00393.
- Rosa Maria Vitale, Stefano Thellung, Francesco Tinto, Agnese Solari, Monica Gatti, Genoveffa Nuzzo, Efstathia Ioannou, Vassilios Roussis, Maria Letizia Ciavatta, Emiliano Manzo\*, Tullio Florio\*, Pietro Amodeo\* "Identification of the hydantoin alkaloids parazoanthines as novel CXCR4 antagonists by computational and in vitro functional characterization" Bioorganic Chemistry (ISSN): 00452068, 10902120 , 2020, in press
- Emiliano Manzo,\* Laura Fioretto, Carmela Gallo, Marcello Ziaco, Genoveffa Nuzzo, Giuliana D'Ippolito, Assunta Borzacchiello, Antonio Fabozzi, Raffaele De Palma, Angelo Fontana "Preparation, Supramolecular Aggregation and Immunological Activity of the Bona Fide Vaccine Adjuvant Sulfavant S" Marine Drugs (ISSN): 16603397), 2020, 18 (9), 451; doi: 10.3390/md18090451
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- Genoveffa Nuzzo, Simone Landi, Nunzia Esercizio, Emiliano Manzo, Angelo Fontana, Giuliana d'Ippolito "Capnophilic lactic fermentation from *Thermotoga neapolitana*: a resourceful pathway to obtain almost enantiopure L-lactic acid". *Fermentation*, 2019, 5 (2), 34; doi: 10.3390/fermentation5020034
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- Emiliano Manzo,\* Carmela Gallo, Laura Fioretto, Genoveffa Nuzzo, Giusi Barra, Dario Pagano, Irene Russo Krauss, Luigi Paduano, Marcello Ziacò, Marina Della Greca, Raffaele De Palma, Angelo Fontana "Diasteroselective colloidal self-assembly affects the immunological response of the molecular adjuvant Sulfavant". *ACS Omega*, 2019, 4 (4), 7807-7814. doi: 10.1021/acsomega.8b03304
- Genoveffa Nuzzo, Bruno Gomes, Carmela Gallo, Pietro Amodeo, Clementina Sansone, Otilia Pessoa, Emiliano Manzo, Rosa Vitale, Adrianna Ianora, Evelyne Santos, Leticia Costa-Lotufo, Angelo Fontana \* "Potent Cytotoxic Analogs of mphidinolides from the Atlantic Octocoral *Stragulum bicolor*". *Marine Drugs*, 2019, 17 (1), 58; doi: 10.3390/MD17010058
- - Genoveffa Nuzzo, Carmela Gallo, Giuliana D'Ippolito, Emiliano Manzo, Nadia Ruocco, Ennio Russo, Ylenia Carotenuto , Maria Costantini , Valerio Zupo , Angela Sardo and Angelo Fontana "UPLC-MS/MS Identification of Sterol Sulfates in Marine Diatoms". *Marine Drugs*, 2019, 17 (1), 10. doi: 10.3390/MD17010010
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- Francesco Tinto, Dario pagano and Emiliano Manzo\* "Synthesis of parazoanthine B and analogs". *Tetrahedron*, 2015, 71, 4379-4384
- - Emiliano Manzo,\* Giuliana D'Ippolito, Dario Pagano, Francesco Tinto and Angelo Fontana. "Design and synthesis of fluorescent galactolipid probes". *Tetrahedron Letters*, 2014, 55, 3521-3524
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Chemical Weapons: A Defensive Trojan Horse Stratagem in Chromodorid Nudibranchs". PLoS One, 2013, 8(4): e62075. DOI: 10.1371/journal.pone.0062075; PMID:23620804

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- 3- Brevetto Italiano IT MI2010A001770, anno 2010: "Processo per la sintesi di analoghi del funicone". Autori: E. Manzo, M.L.Ciavatta, R. Nicoletti.
- 4-Estensione internazionale PCT del brevetto italiano "Process for the synthesis of funicone analogs". International application: PCT/IB2011/054262PCT (2012); pubblicazione n°: WO 2012042482 A1 20120405. Autori: E. Manzo, M.L.Ciavatta, R. Nicoletti.
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#### Books Chapters

- Research Project entitled " Valorizzazione di risorse naturali non tradizionali della Campania: studio chimico di invertebrati marini " approved, funded according to the S.R. N.5 of 28/3/2002 and reported on 20/7/2005 (prot. 2003.0692449).

- In 2005-2006 Dr. Manzo was Responsible of External module-CNR PM.P06.007.001 'Chemical genetics and genomics of protein-ligand interaction' relating to the job order PM.P06.007 'Chemical genetics and genomics of protein-ligand interaction'

- In 2007-2008 Dr. Manzo was the responsible of the external module - "Structural characterization and synthetic methods of focused libraries" -PM.P06.012.003.

- In 2009 Dr. Manzo was the responsible of the Research Project approved entitled "Study of secondary metabolites active by microorganisms present on invertebrates of marine origin: observation of the Campania ecosystem"

- Within the framework of the National Operational Program (PON) ERDF Research and Competitiveness 2007-2013 for the regions of the Convergence objective, Dr. Manzo was responsible for the part relating to the chemical synthesis of bioactive molecules within the project funded by the title 'Research and Development of bioregulators active on the epigenetic mechanisms of inflammatory processes in chronic and degenerative diseases (BIAM-EPI)' - Dec. Admission prot. MIUR n ° 706 / ric of 14/10/2011

- Dr. Manzo was the Italian Responsible within the 'Bilateral Agreement CNR / TUBITAK - Biennial Program 2014-2015' 'Chemical and ecological study of the turkish coasts benthic invertebrates'. ProtoC. MMCNT-CNR-Central Administration No. 17716 of 6/3/2014.

- Dr. Manzo was Scientific responsible for the collaboration project with GW-pharmaceuticals- March 2015-February 2016: "Alternative methods for the preparation of deuterated CBD, CBDV, THCV and their oxidation metabolites". ProtoC. ICB No. 939 of 23/02/2015.

- Dr. Manzo was Scientific responsible for the collaboration project with GWpharmaceuticals April 2016-March 2017: "Alternative methods for the preparation of deuterated CBD, CBDV, THCV and their oxidation metabolites - continuation" ProtoC. ICB No. 1346 of 04/21/2016.

- Dr. Manzo was Scientific responsible for the collaboration project with GWpharmaceuticals July 2017-June 2018: "Alternative methods for the preparation of deuterated CBD, CBDV, THCV and their oxidation metabolites - continuation II" ProtoC. ICB No. 1346 of 04/21/2016

- Dr. Manzo was Italian scientific director of the collaboration project with Nicolas Flamand Associate Professor, Dept. of Medicine, Université Laval, Québec, Canada. July 2018-June 2020 "Defining the endocannabinoidome and the microbiota in asthma and its severity"

- Dr. Manzo was Scientific manager of the collaboration project with the company AbbVIE S.r.l. for 'Identification and / or comparative spectroscopic analysis by Nuclear Magnetic Resonance and Mass Spectrometry of AbbVIE drugs' (ICB Protocol No. 4780 of 14/12/2018)

- Dr. Manzo is Scientific responsible of the part related to the optimization of 'lead compounds' (WP4: Lead Optimization) of the ADVISE (Antitumor Drugs and Vaccines from the Sea-ADVISE) project funded by the 2014-2020 POR of the Campania Region (DD n. 403 of 12-11-2018 and DD no. 411 of 16.11.2018). Duration 01/06/2019 - 31/12/2021.

- Dr. Manzo is National Scientific Coordinator and Referent for the Institute of Biomolecular Chemistry (year 2019-2020) related to the research topic: Design, synthesis also with sustainable chemistry methods, identification, isolation, characterization and functional study of molecules of interest for the sciences of life (ICB-CHIBIO) (protocol n ° 0003777/2019 of 25/10/2019)

- Comunicazione poster al "VI Congresso Nazionale sulla Chimica dei Carboidrati" (Tirrenia 1998), "Analisi della distribuzione dei gruppi acetilici nella frazione lipopolisaccaridica di *Pseudomonas Caryophyllii*".
- Comunicazione poster al "Primo Simposio Italo-Giapponese di Chimica Organica" (Napoli-1999), "O-chain structure of

#### Communications at International Congress

lipopolysaccharides from three phytopathogenic *Xanthomonas* strains".

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- Comunicazione poster al Convegno dell'ICB (Istituto di Chimica Biomolecolare) "La Chimica Biomolecolare nel CNR", tenutosi a Roma il 20 e 21 giugno 2002, "Analisi dei componenti lipofilici isolati dal nudibranco *Phyllidia coelestis*"
- Comunicazione poster al "3rd European Conference on Marine Natural Products", Elmau Castle, Bavaria, September 2002, "Lipophilic components from the Genus *Phyllidia*"
- Comunicazione poster al MARBEF 2004 (Marine biodiversity and Ecosystem Functioning - Palma de Mallorca, Spain 17-18 May 2004) dal titolo: "A look at Secondary Metabolites of Opisthobranchs Molluscs".
- Tre comunicazioni poster al XI International Symposium on "Marine Natural Products" MANAPRO 2004 – Sorrento:
  - "Chemical study on an atlantic population of the Aeolidacean mollusc *Cratena Peregrina*"
  - "Pregane derivatives from the Alcyonacean *Carijoa* sp."
  - "Isocyanide terpene metabolites of *Phyllidiella Pustulosa*, a nudibranch from the South China Sea"
- Partecipazione alla "Il Scuola delle Sostanze Naturali e di Chimica Bioorganica- Luigi Minale". Napoli, 29 giugno -2 luglio 2005- Stazione Zoologica "A.Dohrn"
- Comunicazione orale al IV European Conference on Marine Natural Products (ECMNP) a Parigi (settembre 2005)."Chemical Studies on Indo-Pacific opistobranch molluscs: recent results"
- Tre comunicazioni poster allo stesso IV ECMNP - Parigi (settembre 2005):
  - 1) Chemical Studies on Indo-Pacific opistobranch molluscs: recent results
  - 2) New ppupehenone-like derivatives from a chinese sponge
  - 3) New caulerpenine-like derivatives from the indo-pacific sacoglossan *Elysia Expansa*.
- Comunicazione poster al NAT VII- VII Convegno Nazionale sulle Sostanze Naturali, Maratea 7-10 Giugno 2006:
  - "Nuovi sesqui- e tri-terpeni dalla spugna *Lipostrathethya ana*".
- Comunicazione poster al XIII Congresso Nazionale della Società Italiana di Patologia Vegetale- Universita' degli studi di Foggia, 12-15 settembre 2006: "Antagonism toward Rhizoctonia Solani and production of a brevioxime related compound by *Penicillium Sizovae*" Autori: M.L.Ciavatta, M.P.Lopez Gresa, A.Carella, E.Manzo, R.Nicoletti.
- Comunicazione poster al International Symposium on "New frontiers in Marine Natural Product Research (NFMNPR)" – GOA (INDIA)- Febbraio 23-24, 2007: "Recent Results of chemical studies of Indo-Pacific marine organisms" Autori: M.L.Ciavatta, E.Manzo, M.Gavagnin, E.Mollo, G.Villani, M.P.L.Gresa, S.Wahidulla, L.D'Souza, G.Cimino, C.G.Naik.
- Due comunicazioni poster al 5th European Conference on Marine Natural Products (V ECMNP)-Ischia-Settembre 2007:
  - 1)"Bioactive norditerpene metabolites from the Indian marine gorgonian *Acanthogorgia turgida*".
  - 2)"New Hexahydrobenzopyran derivatives isolated from the marine-derived fungus *Eutypella scoparia obx*". Autori: Maria Letizia Ciavatta, M.Pilar Lopez-Gresa, Rosario Nicoletti, Emiliano Manzo, Ernesto Mollo, Margherita Gavagnin, Yue-Wei Guo, Guido Cimino.
- Comunicazione al 5th European Conference on Marine Natural Products- Ischia-2007: "The contribution of chemical ecology to an understanding of functional morphology and evolution" Autori: Angelo Fontana, Guido Cimino, Ernesto Mollo, Emiliano Manzo, Margherita Gavagnin, Yue-Wei Guo, Marianna Carbone.
- Comunicazione poster al International PSE Symposium on Natural Products in Cancer Therapy. Napoli-Settembre-2008: "Phytochemical Study of the Endemic Algerian Plant *Launaea arborescens*" Autori: Fatma Bitam, Maria Letizia Ciavatta, Emiliano Manzo, Ammar Dibi, Margherita Gavagnin.
- Comunicazione al 7th Joint Meeting of the Association-Francophone-pour-l'Enseignement-et-la-Recherche-en- Pharmacognosie/American-Society-of-Pharmacognosy/Society-for-Medicinal-Plant-Research/Phytochem-Society-of-Europe/Societa-Italiana-di-Fitochimica- Ischia-2007: "Wars in the sea: chemical weapons from microalgae, macroalgae and seagrasses" Autori: Guido Cimino, Marianna Carbone, M.L.Ciavatta, Adele Cutignano, Giuliana D'Ippolito, Angelo Fontana, Margherita Gavagnin, Bruna Laratta, Emiliano Manzo, Ernesto Mollo.
- Comunicazione poster al IV Congresso delle Societa' Europee de Malacologia. Ponte del Gada-Sao Miguel- Azzorre- 1-6 Settembre 2008: "Chemo-ecological studies on opistobranchs from the Azores". Autori: Guido Villani, Maria Letizia Ciavatta, Marianna Carbone, Margherita Gavagnin, Emiliano Manzo, Francesco Castelluccio, Juan Lucas Cervera, Manuel Antonio Malaquias, Roncalo P. Calado and Vinicius Padula.
- Comunicazione al 1st Euro-Mediterranean Conference on Marine Natural Products- Sharm el Sheik (Egitto)-2008: "Recent studies on opistobranchs and diatoms". Autori: Angelo Fontana, Guido Cimino, Ernesto Mollo, Maria Letizia Ciavatta, Emiliano Manzo, Margherita Gavagnin, Giuliana D'Ippolito, Marianna Carbone.
- Comunicazione poster al ASLO-Aquatic Sciences Meeting 2009, 25-30 January 2009, Nizza. "New antiproliferative compounds in a non-neurotoxic strani of the dinoflagellate *Alexandrium tamarense*". Autori: Romano G., Cutignano A., Manzo E., d'Ippolito G., Fontana A., Ianora A., Miraldo A.
- Comunicazione poster al NAT VIII Congresso Giornate di Chimica delle Sostanze Naturali- Forte dei Marmi (LU) 22-25 Maggio 2009. "Structure and Biological Activity of Aromatic Cyclic Peroxides and Related Keto-compounds from a Pacific Sponge".
- Comunicazione orale al VI ECMNP European Conference on Marine Natural Products - Oporto (Portogallo) 19-23 Luglio 2009: "Synthesis of an isocyanide glyceryl-like lipid isolated from *Actinocyclus papillatus*".
- Due comunicazioni poster allo stesso congresso:

- 1)"Natural products from marine phanerogams". Autori: Fatma Bitam, Maria Letizia Ciavatta, Marianna Carbone, Emiliano Manzo, Ernesto Mollo, Guido Villani and Margherita Gavagnin.
- 2)"New antimicrobial 2-amino-alken-3-ols from the mediterranean colonial ascidian *Pseudodistoma crucigaster*". Autori: Maria Letizia Ciavatta, Genoveffa Nuzzo, Emiliano Manzo, Guido Villani, Anna Zanfardino, Mario Varcamonti and Margherita Gavagnin.
- Comunicazione poster al XV International Congress on Marine Corrosion and Fouling - Newcastle University. 25-29 Luglio 2010. "Are alkylpyridine-based compounds suitable biocides for antifouling paints?". Autori: Daniela Blihoghe, Marco Faimali, Emiliano Manzo, Alexandre Villela, Adele Cutignano and Angelo Fontana
- Comunicazione al XIII International Symposium on Marine Natural Products, Phuket- Thailand, 17-22 Ottobre 2010. "Design of pro-apoptotic compounds inspired by diatom oxylipins". Autori: Adele Cutignano, Emiliano Manzo, Giovanna Romano, Giuliana D'Ippolito and Angelo Fontana.
- Comunicazione al XIII International Symposium on Marine Natural Products, Phuket- Thailand, 17-22 Ottobre 2010. "Chemistry and chemical ecology of South China Sea opistobranchs and their dietary organisms". Autori: Yue-Wei Guo, Margherita Gavagnin, Ernesto Mollo, Emiliano Manzo and Guido Cimino.
- Comunicazione poster al IV Congress of European Microbiologists (FEMS 2011), tenutosi il 26-30 Giugno 2011 a Ginevra (Svizzera): "Methoxyvermystatin production by *Penicillium pinophilum* isolate LT4"; Autori: Maria Letizia Ciavatta, Emiliano Manzo, R. Contillo, R. Nicoletti.
- Comunicazione poster al XVI European Carbohydrates Symposium, tenutosi il 3-7 luglio 2011 a Sorrento (Napoli): "Synthetic strategies for the preparation of bioactive glycoglycerolipids".
- Comunicazione orale al "NatPharma: Nature Aided Drug Discovery" (NADD-2011), organizzato dal NeaNAT group, tenutosi il 5-8 Giugno 2011 a Napoli : "Synthetic Strategies For the Preparation Of Bioactive Glycoglycerolipids".
- Comunicazione poster al "NatPharma: Nature Aided Drug Discovery" (NADD-2011), organizzato dal NeaNAT group, tenutosi il 5-8 Giugno 2011 a Napoli : "Fulvynes A-I, Selective Antimicrobial Oxygenated Polyacetylenes from the Mediterranean Sponge *Reniera Fulva*" Genoveffa Nuzzo, Maria Letizia Ciavatta, Guido Villani, Emiliano Manzo, Anna Zanfardino, Mario Varcamonti, Margherita Gavagnin.
- Comunicazione poster al "Trends in Natural Product Research" (Young scientists meeting-2011), tenutosi il 12-15 Giugno 2011 a Creta : "Fulvynes A-I, Selective Antimicrobial Oxygenated Polyacetylenes from the Mediterranean Sponge *Reniera Fulva*"; Autori: Genoveffa Nuzzo, Maria Letizia Ciavatta, Guido Villani, Emiliano Manzo, Anna Zanfardino, Mario Varcamonti and Margherita Gavagnin.
- Comunicazione poster al "XXIV Congresso Nazionale della Società Chimica Italiana", tenutosi il 11-16 Luglio 2011 a Lecce : "Exploring the Chemistry of Marine Mollusks: from Chemical Weapons to New Pharmaceutical Leads"; Autori: Marianna Carbone, Ernesto Mollo, Emiliano Manzo, Maria Letizia Ciavatta, Guido Cimino and Margherita Gavagnin.
- Comunicazione poster al IRISET ICEMCE 2013 and ICHEs 2013, tenutosi in Tailandia il 15-16 marzo 2013 "Germacranolide sesquiterpene lactones from the endemic algerian plante launaea arborescens"; Autori: Ammar Dibi, Fatma Bitam, Maria Letizia Ciavatta, Emiliano Manzo, Mohamed Cherif Aberkane, Margherita Gavagnin.
- Comunicazione orale al "XXXV Convegno della Divisione di Chimica Organica della Società Chimica Italiana", tenutosi il 9-13 Settembre 2013 a Sassari: "Synthetic strategies for the preparation of bioactive glycoglycerolipids".
- Comunicazione al "XXXV Convegno della Divisione di Chimica Organica della Società Chimica Italiana", tenutosi il 9-13 Settembre 2013 a Sassari: "Marine microalgae between energy and functional products"; Autori: Angelo Fontana, Adele Cutignano, R. De Palma, G.D'Ippolito, E. Manzo, G. Nuzzo.
- Comunicazione poster al "XXXV Convegno della Divisione di Chimica Organica della Società Chimica Italiana", tenutosi il 9-13 Settembre 2013 a Sassari: "An efficient and versatile chemical synthesis of bioactive glycoglycerolipids"; Autori: Dario Pagano, Emiliano Manzo, Angelo Fontana.
- Comunicazione poster al "XIV International Symposium on Marine Natural Products (MaNaPro)", tenutosi il 15-20 Settembre 2013 a Isla la Toja (Spagna): "Synthetic strategies for the preparation of bioactive glycoglycerolipids"; Autori: Emiliano Manzo, Dario Pagano, Angelo Fontana.
- Comunicazione poster al "XIV International Symposium on Marine Natural Products (MaNaPro)", tenutosi il 15-20 Settembre 2013 a Isla la Toja (Spagna): "An efficient and versatile chemical synthesis of bioactive glycoglycerolipids"; Autori: Dario Pagano, Emiliano Manzo, Angelo Fontana.
- Comunicazione poster al "XIV International Symposium on Marine Natural Products (MaNaPro)", tenutosi il 15-20 Settembre 2013 a Isla la Toja (Spagna): "Bioactive metabolites from marine protists"; Autori: Angelo Fontana, Adele Cutignano, R. De Palma, G.D'Ippolito, E. Manzo, G. Nuzzo, D.Pagano.
- Partecipazione al Convegno "Quo Vadis Synthesis?" svolto a Roma presso l'Università Sapienza in data 19-20 Maggio 2014.
- Comunicazione poster al III convegno dell'Istituto di Chimica Biomolecolare, 28-30 Settembre 2016 in Catania "A NOVEL UHPLC/Q-EXACTIVE MS METHOD FOR LIPIDOMIC ANALYSIS OF MARINE MICROALGAE" Autori: Adele Cutignano, Elvira Luongo, Genoveffa Nuzzo, Dario Pagano, Emiliano Manzo, Angela Sardo, Pierpaolo Botte, Giuliana d'Ippolito, Angelo Fontana
- Comunicazione al "3° Convegno dell'Istituto di Chimica Biomolecolare". Catania (Italia). 28-30 Settembre 2016. ICB settembre 2016 in Catania "
- "An innovative potential bioregulator developed from palmitoylethanolamide" Autori: Petrosino S., Manzo E., Allarà M., Tinto F., Pagano D., Verde R., Schiano Moriello A., De Petrocellis L., Di Marzo V.
- Comunicazione orale, al convegno tenuto a Napoli il 29 settembre 2016 "Biomimicry: La Natura come Modello, Misura e

Mentore. L'innovazione ispirata dalla natura" nell'ambito della European Biotech Week, dal titolo "Sviluppo di adiuvanti per vaccini da microalge marine"

- Comunicazione orale, al 19th European Carbohydrate Symposium EUROCARB, tenuto a Barcellona dal 2 al 6 luglio 2017, dal titolo "Marine-derived sulfoglycolipids with immunomodulant activities and their development as vaccines in immunotherapy".
- Comunicazione poster al 10th European Conference on Marine Natural Products, 3-7 settembre 2017 in Kolymbari, Creta, Grecia "Isolation of cholestanone derivatives from Dictyonella incisa". Autori: Hajar Heydari, Emiliano Manzo and Belma Konuklugil.
- Comunicazione orale al IV Glycobiology World Congress, tenuto a Roma dal 17 al 19 settembre 2018, dal titolo "Sulfavant, marine derived sulfoglycolipid with immunomodulant activity and its development as vaccines in immunotherapy".
- Comunicazione orale al Kick-off Meeting del progetto ADVISE (Antitumor Drugs and Vaccines from the Sea), tenuto a Napoli il 11-04-2019 presso il Museo della Pace via Depretis 130, dal titolo "Hit discovery, medicinal chemistry e composizione".
- Comunicazione orale al XX European Carbohydrate Symposium (EUROCARB), tenuto a Leiden (Olanda) dal 30 giugno al 4 luglio 2019, dal titolo "Sulfavants, new class of molecular vaccine adjuvants: development in immunotherapy and correlation of the colloidal self-assemplby with immune cell response".
- Comunicazione poster al XX European Carbohydrate Symposium (EUROCARB), tenuto a Leiden (Olanda) dal 30 giugno al 4 luglio 2019, dal titolo "BODIPY-based fluorescent analog of the molecular vaccine adjuvants Sulfavants".

**Personal data** I authorize the use of my personal data in relation to Legislative Decree 30 June 2003, n. 196 "Code regarding the protection of personal data".