

## CLEMENTINA SANSONE



Born in Torre del Greco (Naples, Italy) on 28/06/1982

Tel.: +390815833221

Fax: +39 081 7641355

e-mail: clementina.sansone@szn.it

Skype: clementina sansone

**Current Position:** Researcher, permanent staff

**Current Affiliation:**

Section Integrated Marine Ecology, Stazione Zoologica Anton Dohrn, Napoli (Italy)

### Education/Training/Experience

<b>Institute and Location</b>	<b>Degree / Function</b>	<b>Year</b>	<b>Field of Study</b>
Second University of Naples, Italy	Bachelor Degree	2003	Biological sciences
Second University of Naples, Italy	Master Degree	2005	Cell Biology
Bioprogress S.p.a., Consorzio farmaceutico e biotecnologico, Strada Paduni, Frosinone, Italy	Research contract	2005-2007	Biotechnology
Department of Life Science Second University of Naples, Italy	PhD in Resources from the Environment	2007-2010	Environmental Biotechnology
Second University of Naples, Italy	Tutor	2010-2011	Botany
Stazione Zoologica Anton Dohrn-Villa Comunale, Naples, Italy	Technologist	2012-2014	Marine Biotechnology
Stazione Zoologica Anton Dohrn-Villa Comunale, Naples, Italy	Postdoc	2015-2016	Marine Biotechnology
Stazione Zoologica Anton Dohrn-	Postdoc	2016-	Marine Biotechnology

Villa Comunale, Naples, Italy		2017	
Stazione Zoologica Anton Dorhn-Villa Comunale, Naples, Italy	Researcher	2017	Marine Biotechnology
BioSEArch Srl (Spin-off)	Member	2016	Marine Biotechnology

## Students' Supervision

Co-tutor of a PhD student (University of Naples). Internal Supervisor 3 undergraduate students' theses (Second University of Naples). Member of examining committees for undergraduate and graduate courses at the Second University of Naples (Botany).

## Publications

### *List of publications of the last 10 years:*

#### Peer-reviewed publications:

- F Dell'Anno, C Sansone, A Ianora, A Dell'Anno. Biosurfactant-induced remediation of contaminated marine sediments: Current knowledge and future perspectives. *Marine environmental research* 137, 196-205, 2018
- Christian Galasso, Ida Orefice, Alfonso Toscano, Tomás Vega Fernández, Luigi Musco, Christophe Brunet, **Clementina Sansone**, Paola Cirino. Food Modulation Controls Astaxanthin Accumulation in Eggs of the Sea Urchin *Arbacia lixula*. *Marine Drugs* 16 (186), 2018
- **Clementina Sansone**, Genoveffa Nuzzo, Christian Galasso, Raffaella Casotti, Angelo Fontana, Giovanna Romano, Adrianna Ianora. The Marine Dinoflagellate *Alexandrium andersoni* Induces Cell Death in Lung and Colorectal Tumor Cell Lines. *Marine Biotechnology*, 2018
- Filomena Sannino, **Clementina Sansone**, Christian Galasso, Sara Kildgaard, Pietro Tedesco, Renato Fani, Gennaro Marino, Donatella Pascale, Adrianna Ianora, Ermenegilda Parrilli, Thomas Ostenfeld Larsen, Giovanna Romano, Maria Luisa Tutino. *Pseudoalteromonas haloplanktis* TAC125 produces 4-hydroxybenzoic acid that induces pyroptosis in human A459 lung adenocarcinoma cells. *Scientific reports* 8 (1), 1190, 2018
- C Galasso, C Corinaldesi, **C Sansone**. Carotenoids from Marine Organisms: Biological Functions and Industrial Applications. *Antioxidants* 96 (6(4)), 4, 2017.
- Emiliano Manzo, Adele Cutignano, Dario Pagano, Carmela Gallo, Giusi Barra, Genoveffa Nuzzo, **Clementina Sansone**, Adrianna Ianora, Konrad Urbanek, Daniela Fenoglio, Francesca Ferrera, Cinzia Bernardi, Alessia Parodi, Giuseppe Pasquale, Antonio Leonardi, Gilberto Filaci, Raffaele De Palma, Angelo Fontana. A new marine-derived sulfoglycolipid triggers dendritic cell activation and immune adjuvant response. *Scientific Reports* 7 (6286), 3, 2017
- Paola Cirino, Christophe Brunet, Martina Ciaravolo, Christian Galasso, Luigi Musco, Tomás Vega Fernández, **Clementina Sansone**, Alfonso Toscano. The Sea Urchin *Arbacia lixula*: A Novel Natural Source of Astaxanthin. *Marine Drugs* 187, 2017.

- **Clementina Sansone**, Christian Galasso, Ida Orefice, Genoveffa Nuzzo, Elvira Luongo, Adele Cutignano, Giovanna Romano, Christophe Brunet, Angelo Fontana, Francesco Esposito, Adrianna Ianora: The green microalga *Tetraselmis suecica* reduces oxidative stress and induces repairing mechanisms in human cells. Scientific Reports 01/2017; 7., DOI:10.1038/srep41215
- G. Romano, M. Costantini, **C. Sansone**, C. Lauritano, N. Ruocco, A. Ianora: Marine microorganisms as a promising and sustainable source of bioactive molecules. Marine environmental research 05/2016;, DOI:10.1016/j.marenvres.2016.05.002
- Adele Cutignano, Genoveffa Nuzzo, Adrianna Ianora, Elvira Luongo, Giovanna Romano, Carmela Gallo, **Clementina Sansone**, Susanna Aprea, Francesca Mancini, Ugo D'Oro and Angelo Fontana. Development and Application of a Novel SPE-Method for Bioassay-Guided Fractionation of Marine Extracts. Mar. Drugs 2015, 13, 5736-5749; doi:10.3390/md13095736.
- **Sansone C.**, Alessandra Braca, Elena Ercolesi, Giovanna Romano, Anna Palumbo, Raffaella Casotti, Maria Francone, Adrianna Ianora (2014). Diatom-Derived Polyunsaturated Aldehydes Activate Cell Death in Human Cancer Cell Lines but Not Normal Cells. PLOS ONE, ISSN: 1932-6203, doi: 10.1371/journal.pone.0101220
- Ciniglia C, **Sansone C.**, Panzella L, Napolitano A, D'ischia M (2012). Effects of walnut husk washing waters and their phenolic constituents on horticultural species. Environmental Science And Pollution Research International, vol. 19; p. 3299-3306, ISSN: 1614-7499
- Ciniglia C, Pinto G, **Sansone C.**, Pollio A (2010). Acridine orange/Ethidium bromide double staining test: A simple In-vitro assay to detect apoptosis induced by phenolic compounds in plant cells. Allelopathy Journal, vol. 26; p. 301-308, ISSN: 0971-4693

#### *Websites or online articles*

**Sansone C.**, Alessandra Braca, Elena Ercolesi, Giovanna Romano, Anna Palumbo, Raffaella Casotti, Maria Francone, Adrianna Ianora (2014). Diatom-Derived Polyunsaturated Aldehydes Activate Cell Death in Human Cancer Cell Lines but Not Normal Cells. [ISSN 1929-8536] <https://globalmedicaldiscovery.com>.

#### **Book Chapters:**

Ciniglia C, **Sansone C.**, Petriccione M. E Aliotta G (2009). Uso della microtomografia a raggi x nell'analisi di campioni vegetali. In: Livio Paolillo, Italo Giudicianni. La Diagnostica Nei Beni Culturali Moderni Metodi Di Indagine. p. 181-184, ISBN/ISSN: 978-88-95122-17-5.

Aliotta G. e **Sansone C.** "Origini dell'Agricoltura in Campania", IN: "le piante e l'uomo in Campania, Regione Campania, Aprile 2009.

#### **Patents**

**Clementina Sansone**, Adrianna Ianora, Christian Galasso, Giovanna Romano. N. SIB BI5072R, "Tetraselmis suecica green microalga crude extract and its uses", 07/12/2017

Paola Cirino, Alfonso Toscano, **Clementina Sansone**, Christophe Brunet “Method for improving astaxanthin production by the sea urchins in culture through the food and preparation method thereof”. 2017

## **Other**

### **Start-up training and competition:**

June – September: ‘Start Cup Campania’ team leader to improve business skills applied to innovative ideas, with final competition that involved several work team;

### **International competition for talents**

7 September, 2016: ‘Falling Walls Lab 2016’, to present in three minutes an ideas of innovative research to a multidisciplinary committee

### **Job Related skills**

- Cell culture techniques: in vivo and in vitro to test crude extracts and fractions from marine organisms for antiproliferative, antioxidant, anti-inflammatory, antiaging activity.
- Mutagenicity and genotoxicity assays on cells, such as Comet Assay, Tunel Assay and Vicia faba test. Technical capabilities in the field of applied molecular biology: Western blot, Southern blot, Northern blot. Techniques for the isolation of nucleic acids, PCR, cloning of bacterial cells, Design and cloning of siRNA. Molecular biology techniques such as PCR, isolation of nucleic acids, RAPD, PCR array.
- Identification and design of signalling pathways involved in cell responses to stress induced by chemicals and / or pharmacological and environmental factors using molecular approaches.
- Knowledge in the use of diagnostic kits in immunoassay. Elisa test.
- Technical skills in qualitative and quantitative chemistry, with good working knowledge of equipment such as HPLC, GC, IR spectrometers, Massa and UV, NMR.
- Excellent skills in the techniques of bacterial fermentation in bioreactors, with full autonomy in the use and maintenance of this.
- Knowledge of bacterial and microalgae techniques: Total Count, Isolation and identification of contaminants in the air, water, environment and drugs. Determination of antimicrobial susceptibility. Identification of a specific strain using the API gallery.
- Knowledge of all procedures (SOP) and the rules of conduct of a GMP laboratory of Microbiology