

Angela Sardo



Born in Naples (Italy) on 17/08/1980

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Current Position: Technologist

Current Affiliation:

Marine Biotechnology Department (BIOTECH)

Education/Training/Experience

Institute and Location	Degree / Function	Year	Field of Study
University Parthenope, Naples, Italy	Master (Laurea)	1998-2004	Environmental sciences
University Federico II, Naples, Italy	Ph.D.	2004-2007	Science and Engineering of the Sea
Stazione Zoologica Anton Dohrn, Naples	Postdoc	2008-2011	Effects of toxic dinoflagellates on marine organisms
National Research Council (CNR), Institute of Biomolecular Chemistry	Postdoc	2012-2019	Microalgae for Biotechnological Applications; Green Chemistry
Stazione Zoologica Anton Dohrn, Naples, Italy	Technologist	2019-present	Microalgae for Biotechnological Applications

Appointments and awards

2019: Award Certificate: in appreciation for the paper “Tomographic Flow Cytometry by Digital Holography” (outstanding paper of Light: Science & Applications)

Congress attendance

- 3rd International Conference of Algal Biomass, Biofuels & Bioproducts, June 2013
- IV Convegno Annuale - Istituto di Chimica Biomolecolare, September 2017 Pozzuoli (NA).
- ICOD (International Conference on *Ostreopsis* Development), april 2011
- V Convegno CoNISMa "Il Mare – Centralità di interessi nel XXI secolo – Capacità scientifiche e risorse nel competere", Viareggio, November 2006

Partecipation in projects:

1. 2018-2019: Biological routes for CO₂ conversion into chemical building blocks - BioRECO2VER - Grant Agreement n. 760431 - Project ID 760431. Funded dy EU: H2020-EU.2.1.4. - INDUSTRIAL LEADERSHIP - Leadership in enabling and industrial technologies – Biotechnology.
2. 2018: Heterotrophic cultivation of microalgae (Studi metabolici finalizzati alla coltivazione eterotrofa di microalghe per la produzione di farine algali). Funded by MIUR.
3. 2017-2018: Cosmeceutici e Nutraceutici da Risorse Biologiche Antartiche (CAN FARE) (PNRA16_00043). Funded by: MIUR
4. 2017: Insieme nel reale e nel virtuale per la chimica sostenibile. Funded by MIUR.
5. 2016-2017: Evaluation of Diatom Resistance to Cement Flue Gas (Studio dell’impiego di diatomee marine per il confinamento della silice e dei componenti climalteranti di gas di scarico prodotti da cementifici). Funded by ITALCEMENTI S.p.A.
6. 2014: Characterization and biosynthetic origin of bioactive natural products in marine invertebrates and associated microorganisms from the northeastern Brazilian coast (bilateral project CNR- Universidade Federal do Cearà).
7. 2012-2015: PON01_02740 “Sfruttamento Integrato di Biomasse Algali in Filiera Energetica di Qualità”. Funded by MIUR.
8. 2011: Sviluppo di modelli di sorveglianza di sicurezza alimentare sui prodotti ittici di provenienza extracomunitaria prevalentemente asiatici. Funded by Istituto Zooprofilattico Sperimentale del Mezzogiorno.
9. 2009, 2011: Monitoraggio *Ostreopsis ovata*. Funded by ARPA CAMPANIA.
10. 2008-2009: Una nuova tossina nelle acque della Campania e del Mediterraneo, l’ovatossina: strategie analitiche e di protezione della salute e dalla sicurezza alimentare. Funded by Istituto Zooprofilattico Sperimentale del Mezzogiorno.

Publications

Author of 16 publications on ISI-journals (h index: 8) and 2 book chapters

List of publications of the last 10 years:

Peer-reviewed publications:

Sardo A, Accornero, A., Giovinazzi, F (2008). Luminescent bacteria as indicators of water quality: preliminary results from the Campania coastal waters. *Chemistry and Ecology*, S1:1-8.

Furlan, M., Antonioli, M., Zingone, A., Sardo, A., Blason, C., Pallavicini, A. & Fonda Umani, S. (2013). Molecular identification of *Ostreopsis cf. ovata* in filter feeders and putative predators. *Harmful Halgae*, 21-22: 20-29.

Nuzzo, G., Gallo, C., d'Ippolito, G., Cutignano, A., Sardo, A. & Fontana, A (2013). Composition and quantitation of microalgal lipids by ERETIC ¹H NMR method. *Marine Drugs* 11(10): 3742-3753.

Nuzzo, G., Cutignano, A., Sardo, A. & Fontana, A (2014). Antifungal amphidinol 18 and its 7-sulfate derivative from the marine dinoflagellate *Amphidinium carterae*. *Journal of Natural Products* 77(6): 1524-1527.

Sousa, T.S., Nuzzo, G., Torres, M.C.M., Lopes, N.P., Cutignano, A., Jimenez, P.C., Santos, E.A., Gomes, B.A., Sardo, A., Pessoa, O.D.L., Costa-Lotufo, L.V. & Fontana, A. (2015). Amphidinolide P from the Brazilian Octocoral *Stragulum bicolor*. *Revista Brasileira de Farmacognosia - Brazilian Journal of Pharmacognosy* 25: 600-604.

Carella, F., Sardo, A., Mangoni, O., Di Cioccio, D., Urciuolo, G., De Vico, G. & Zingone, A. (2015). Quantitative histopathology of the Mediterranean mussel (*Mytilus galloprovincialis* L.) exposed to the harmful dinoflagellate *Ostreopsis cf. ovata*. *Journal of Invertebrate Pathology* 127: 30–140.

d'Ippolito, G., Sardo, A., Paris, D., Vella, F.M., Adelfi, M.G., Botte, P., Gallo, C. & Fontana, A. (2015). Potential of lipid metabolism in marine diatoms for biofuel production. *Biotechnology for Biofuels*, 8:28.

Cutignano, A., Luongo, E., Nuzzo, G., Pagano, D., Manzo, E., Sardo, A. & Fontana, A. (2016). Profiling of complex lipids in marine microalgae by UHPLC/tandem mass spectrometry. *Algal Research* 17: 348-358.

- Cutignano, A., Nuzzo, G., Sardo, A. & Fontana, A. (2017). The Missing Piece in Biosynthesis of Amphidinols: First Evidence of Glycolate as a Starter Unit in New Polyketides from *Amphidinium carterae*. *Marine Drugs*, 15(6):157.
- Merola, F., Memmolo, P., Miccio, L., Savoia, R., Mugnano, M., Fontana, A., d'Ippolito, G., Sardo, A., Iolascon, A., Gambale, A. & Ferraro, P (2017). Tomographic Flow Cytometry by Digital Holography. *Light: Science & Applications*, 6: e16241.
- Gallo, C., d'Ippolito, G., Nuzzo, G., Sardo, A. & Fontana, A. (2017). Autoinhibitory sterol sulfates mediate programmed cell death in a bloom-forming marine diatom. *Nature Communication*, 8(1):1292.
- Botte, P., d'Ippolito, G., Gallo, C., Sardo, A. & Fontana, A (2018). Combined exploitation of CO₂ and nutrient replenishment for increasing biomass and lipid productivity of the marine diatoms *Thalassiosira weissflogii* and *Cyclotella cryptica*. *Journal of Applied Phycology*, 30 (1): 243-251.
- Galasso, C., Nuzzo, G., Brunet, C., Ianora, A., Sardo, A., Fontana, A. & Clementina Sansone (2018). The Marine Dinoflagellate *Alexandrium minutum* Activates a Mitophagic Pathway in Human Lung Cancer Cells. *Marine Drugs*, 16: 502.
- Nuzzo, G., Gallo, C., d'Ippolito, G., Manzo, E., Ruocco, N., Russo, E., Carotenuto, Y., Costantini, M., Zupo, V., Sardo, A. & Fontana, A. (2019). UPLC–MS/MS Identification of Sterol Sulfates in Marine Diatoms. *Marine Drugs*, 17(1): 10.
- Manzo, E., Gallo, C., Sartorius, R., Nuzzo, G., Sardo, A., De Berardinis, P., Fontana, A. & Cutignano, A. (2019). Immunostimulatory Phosphatidylmonogalactosyldiacylglycerols (PGDG) from the Marine Diatom *Thalassiosira weissflogii*: Inspiration for a Novel Synthetic Toll-Like Receptor 4 Agonist *Marine Drugs*, 17: 103.
- Vella, F.M. (1st author), Sardo, A. (1st author), Gallo, C., Landi, S., Fontana, A., d'Ippolito, G. (2019). Annual outdoor cultivation of the diatom *Thalassiosira weissflogii*: productivity, limits and perspectives. *Algal Research*, 42: 101553.

Book Chapters:

- d'Ippolito, G, Nuzzo, G., Sardo, A., Manzo, E., Gallo, C. & Fontana, A. (2018). Chapter Four - Lipoxygenase and lipoxygenase products in marine diatoms. *Methods in Enzymology*, Vol. 605: 69-100.

Gallo, C., Nuzzo, G., d'Ippolito, G., Manzo, E., Sardo, A. & Fontana, A (2018). Chapter Five - Sterol Sulfates and Sulfotransferases in Marine Diatoms. *Methods in Enzymology*, Vol. 605: 101-138.

Other publications:

Sardo, A. Accornero, A. & Giovinazzi, F. Batteri bioluminescenti e qualità delle acque costiere: studio di alcuni tratti di costa campana. *Annali della Facoltà di Scienze e Tecnologie dell'Università "Parthenope" di Napoli*, LXIX, pp. 7-18.