


PERSONAL INFORMATION

Laura Grauso



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 081 5538356

Date of birth 14/01/1980

Nationality Italian

WORK EXPERIENCE

02/01/2015–Present

Research contract: "Management and operation of sampling systems to monitor the impact of tourism in coastal marine areas".

Stazione zoologica Anton Dohrn, Napoli (Italy)

Research activity based on the determination of the quality of coastal waters of the Mediterranean Sea through the quantitative analysis of major inorganic nutrients by means of an automatic continuous flow analyzer, and the development and optimization of new analytical methods to increase the sensitivity and efficiency of the analysis.

06/10/2014–31/12/2014

Contract of teaching assistant in Organic Chemistry

Dipartimento di Agraria, Portici (Italy)

Activity of teaching organic chemistry for students of Faculty of Agriculture "Federico II"

19/06/2012–Present

Post-doc contract: "Antigens and adjuvants for vaccines and immunotherapy".

Istituto di Chimica Biomolecolare, Pozzuoli (Italy)

Research activity in marine natural products to obtain new pharmacologically active compounds from marine sponges and dinoflagellates through spectroscopic techniques (NMR, IR; UV and Mass Spectrometry). Quali-quantitative analysis LC-MS and UPLC-MS of secondary metabolites and chemical mediators from several kinds of matrix. Validation of LC-MS methods.

02/08/2011–30/09/2011

Research contract: "Anti malarial lead compounds from natural source: isolation, optimization and biological evaluation"

Dipartimento di Chimica delle Sostanze Naturali, Napoli (Italy)

Research activity in natural products chemistry through spectroscopic techniques NMR, IR, UV and mass spectrometry

01/08/2010–31/01/2011

Post-doc fellowship: "Quali-quantitative analysis of marine biotoxins"

Dipartimento di Chimica delle Sostanze Naturali, Napoli (Italy)

Cell culture of toxic microalgae analysis of their toxic profile through HPLC coupled to mass spectrometry

14/08/2009–14/02/2010

Post-doc MarieCurie fellowship: "Blue for Blue"

P&G Eurocor SA, Bruxelles (Belgium)

Analysis of biopolymers with a potential use for commercial products

01/04/2008–31/07/2009

Post-doc fellowship: "Kit and biosensors high sensitivity to determine algal"

biotoxins in seawater and in fish farming of Friuli Venezia Giulia

Dipartimento di Economia e Merceologia delle Risorse Naturali e della Produzione, Trieste (Italy)

Dipartimento di Chimica delle Sostanze Naturali, Napoli (Italy)

Monitoring of marine biotoxins from mussels contaminated through LC-MS

01/08/2007–31/03/2008

Short-term contract for the Orientall@UniNa II project

Centro di Ateneo per l'Orientamento, la Formazione e la Teledidattica, Napoli (Italy)

Activity of educational guidance for students of Faculty of Pharmacy "Federico II"

EDUCATION AND TRAINING

11/2004–12/2007

PhD in Pharmaceutical Science - XX cycle

Faculty of Pharmacy, Napoli (Italy)

Isolation and structural determination of biologically active natural products

10/1998–07/2004

Master Degree in Pharmaceutical Chemistry and Technology

Faculty of Pharmacy, Napoli (Italy)

PERSONAL SKILLS

Mother tongue(s)

Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	B2	B2	C1

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2: Proficient user
[Common European Framework of Reference for Languages](#)

Communication skills

Years of experience in several different laboratories in Italy and abroad, productively interacting with people of different nationality and culture. Ability to work in a team. Mentoring of undergraduates during their thesis work and of foreign post-docs and graduate students during their short-term visits.

Organisational / managerial skills

Experience in both independent work and team work, as needed by the different environments and projects. Ability to manage the activities according to the capacities and needs of co-workers, while respecting deadlines and targets.

Job-related skills

Mass spectrometry (MS) : LTQ Orbitrap XL FTMS (Thermo Scientific), Q-exactive (Thermo Scientific), API2000 and API 3200 (Applied Biosystem), LCQ Thermo Scientific, Waters® Micromass® Q-ToF micro™ Mass Spectrometer. Nuclear magnetic resonance (NMR): 1D and 2D homo- and heteronuclear techniques on Varian Inova 700 MHz with ColdProbe and Bruker Avance III 600 MHz with CryoProbe
Ultraviolet and Infrared Spectroscopy (UV, FTIR), Circular Dichroism (CD), Evaporative Light Scattering Detector (ELSD)
Chromatographic techniques : Ultra High Performance Liquid Chromatography (UPLC), High Performance Liquid Chromatography (HPLC), Medium Performance Liquid Chromatography (MPLC), Thin Layer Chromatography (TLC), ecc.
Hyphenated techniques : Liquid Chromatography-Mass Spectrometry (LC-MS), Reverse Phase Liquid Chromatography-post column derivatization-fluorescence detection (RPLC-FD), Gas Chromatography-Mass Spectrometry (GC-MS).

Cell culture of microalgae.

Computer skills

Operating systems: Windows XP, Vista, 7, 8
- Office Suite: Word, Excel, Powerpoint, Publisher.
- ChemOffice: ChemDraw, Chem3D
- Browser Internet: Explorer, Netscape and internet search engines.
- SigmaPlot, GraphPad
- Xcalibur, Analyst

Publications:

1. Ciminiello, P.; Dell'Aversano, C.; Fattorusso, E.; Forino, M.; Grauso, L.; Magno, G.S.; Poletti, R.; Tartaglione, L. Desulfoyessotoxins from Adriatic mussels: A New Problem for Seafood Safety Control *Chemical Research in Toxicology* (2007), 20(1), 95-98.
2. Ciminiello, P.; Dell'Aversano, C.; Fattorusso, E.; Forino, M.; Grauso, L.; Magno, G.S.; Poletti, R.; Santelia, F.U.; Tartaglione, L.; Moutsos, V.I.; Pitsinos, E.N.; Couladouros, E.A. Stereostructural determination by a synthetic and NMR-based approach of three oxazinins isolated from adriatic mussels. *Eur. J. Org. Chem.* (2007), (32), 5434-5439.
3. Ciminiello, Patrizia; Dell'Aversano, Carmela; Fattorusso, Ernesto; Forino, Martino; Grauso, Laura; Tartaglione, Luciana; Guerrini, Franca; Pistocchi, Rossella. Spirolide toxin profile of Adriatic *Alexandrium ostenfeldii* cultures and structure elucidation of 27-hydroxy-13,19-didesmethylspirolide C. *Journal of Natural Products* (2007), 70(12), 1878-1883.
4. Ciminiello, P., Catalanotti, B., Dell'Aversano, C., Fattorusso, C., Fattorusso, E., Forino, M., Grauso, L., Leo, A., Tartaglione, L. Full relative stereochemistry assignment and conformational analysis of 13,19-didesmethyl spirolide C via NMR- and Molecular Modeling-based techniques. A step towards understanding spirolide's mechanism of action. *Organic and Biomolecular Chemistry* (2009), 7, 3674-3681.
5. Ciminiello, P., Dell'Aversano, C., Dello Iacovo, E., Fattorusso, E., Forino, M., Grauso, L., Tartaglione, L., Florio, C., Lorenzon, P., De Bortoli, M., Tubaro, A., Poli, M., Bignami, G. 42-Hydroxy Palytoxin: a new palytoxin analog from Hawaiian *Palythoa* spp. *Chemical Research in Toxicology* (2009), 22 (11), 1851-1859.
6. Ciminiello, P., Dell'Aversano, C., Fattorusso, E., Forino, M., Grauso, L., Tartaglione, L., Guerrini, F., Pistocchi, R. Complex palytoxin-like profile of *Ostreopsis ovata*. Identification of four new ovatoxins by high-resolution liquid chromatography/mass spectrometry. *Rapid Commun. Mass Spectrom.* (2010), 24, 2735-2744.
7. Ciminiello, P., Dell'Aversano, C., Dello Iacovo, E., Fattorusso, E., Forino, M., Grauso, L., Tartaglione, L., Guerrini, F., Pistocchi, R., Pezzolesi, L. Characterization of 27-hydroxy-13-desmethyl spirolide C and 27-oxo-13,19-didesmethyl spirolide C. *Toxicon* (2010), 56, 1327-1333.
8. Ciminiello, P., Dell'Aversano, C., Fattorusso, E., Forino, M., Grauso, L., Tartaglione, L. A 4-decade-long (and still ongoing) hunt for palytoxins chemical architecture. *Toxicon* (2011), 57, 362-367.
9. Ciminiello, P., Dell'Aversano, C., Dello Iacovo, E., Fattorusso, E., Forino, M., Grauso, L., Tartaglione, L., Guerrini, F., Pistocchi, R., Pezzolesi, L., Vanucci, S. Isolation and Structure Elucidation of Ovatoxin-a, the Major Toxin Produced by *Ostreopsis ovata*. *JACS* (2012) 134(3):1869-75.
10. Ciminiello, P., Dell'Aversano, C., Dello Iacovo, E., Fattorusso, E., Forino, M., Grauso, L., Tartaglione, L., High Resolution LC-MSn Fragmentation Pattern of Palytoxin as Template to Gain New Insights into Ovatoxin-a Structure. The Key Role of Calcium in MS Behavior of Palytoxins *Journal of the American Society for Mass Spectrometry* (2012), 23(5), 952-9
11. Ciminiello, P., Dell'Aversano, C., Dello Iacovo, E., Fattorusso, E., Forino, M., Grauso, L., Tartaglione, L. Stereochemical studies on ovatoxin-a. *Chemistry* (2012), 18(52), 16836-43.
12. Corda, D., Mosca, M.G., Ohshima, N., Grauso, L., Yanaka, N., Mariggio, S. The emerging physiological roles of the glycerophosphodiesterase family. *FEBS* (2014), 281, 998-1016.
13. Gorb, S., Giuliani, M. E., Pittura, L., d'Errico, G., Terlizzi, A., Felling, S., Grauso, L., Mollo, E., Cutignano, A., Regoli, F. Could molecular effects of *Caulerpa racemosa* metabolites modulate the impact on fish populations of *Diplodus sargus*? *Marine Environmental Research* (2014), 96, 2-11.
14. Grauso, L., Mariggio, S., Corda, D., Fontana, A., Cutignano, A. An Improved UPLC-MS/MS Platform for Quantitative Analysis of Glycerophosphoinositol in Mammalian Cells. *PLoS ONE* (2015), 10(4), e0123198. doi:10.1371/journal.pone.0123198