

## PERSONAL INFORMATION

### Valeria Di Dato



+39 3383208634

✉ valeria.didato@szn.it

💬 **Skype** baleries2

**Nationality** Italian

## PERSONAL STATEMENT

I am a Doctor in Cellular and Molecular Biology and Pathology with strong research experience in molecular biology applied to in-vitro and in-vivo model systems of both mammalian and marine organisms. Actually, my research interest is focused on the discovery of unknown pathway for secondary metabolites produced by marine microalgae, particularly diatoms, one of the most represented group of unicellular microorganisms composing the phytoplankton. I apply a system biology approach to understand the molecular biology of this microorganism and their interconnection in the complex microorganism represented by the oceans. Among my research line, the principal one is focused on the unveiling the role of prostaglandin metabolism in the physiology and highly plastic environmental adaptation capability of diatoms.

## CURRENT JOB POSITION

**Permanent Researcher (Since 01/02/2020)**

Stazione Zoologica Anton Dohrn Napoli, Department of Marine Biotechnology,

Villa Comunale, 80121 Naples (Italy)

[www.szn.it](http://www.szn.it)

System biology approach to unveil diatom biology and derive biotechnological application from them.

Business or sector Scientific research activities; ERC sector: LS1-4, 8-9.

## WORK EXPERIENCE

---

### 01/09-30/09 2021 Visiting Scientist to

#### Hellenic Centre for Marine Research (HCMR), Crete, Greece:

- Genome sequencing of *Thalassiosira rotula* in dormant status to unveil the epigenetic modification involved in the transition from the normal status to the dormant one. Utilization of the Minlon Nanopore Technology.
- Collaboration with Dr. Frederic Verret, Dr. Natassa Gioti, Dr. Jon and Dr. Panagiotis Kasapidi.

#### Funding:

**Assemble Plus Transnational Access Program-Sixth Call.**

**Project: "Diatom resting stage as source of secondary metabolites".**

**Business or sector** Scientific research activities; ERC sector: LS1-4, 8-9.

### 14/06-12/07 2021 Visiting Scientist to

#### Centro de Ciências do Mar do Algarve (CCMAR) ProtMar, recombinant protein and biosensors platform, Faro, Portugal

- *Skeletonema marinoi* cyclooxygenase 1 (COX-1) recombinant expression and purification.
- Collaboration with Prof. Deborah Power, Dr. Liliana Anjos and Prof. Eduardo Pino Melo.

#### Funding:

**Assemble Plus Transnational Access Program-Sixth Call.**

**Project: "*Skeletonema marinoi* cyclooxygenase characterization".**

### 01/09-30/09 2020 Visiting Scientist to

#### Centro de Ciências do Mar do Algarve (CCMAR) ProtMar, recombinant protein and biosensors platform, Faro, Portugal

- *Skeletonema marinoi* cyclooxygenase 1 (COX-1) recombinant expression and purification.
- Collaboration with Prof. Deborah Power, Dr. Liliana Anjos and Prof. Eduardo Pino Melo.

#### Funding:

**Assemble Plus Transnational Access Program-Eighth Call.**

**Project: "*Skeletonema marinoi* cyclooxygenase kinetic studies for biotechnology application".**

**01/11/2019–31/01/2020    Research Fellowship**

**Stazione Zoologica Anton Dohrn Napoli, Department of Marine Biotechnology,  
Villa Comunale, 80121 Naples (Italy)**

**[www.szn.it](http://www.szn.it)**

**Bioinformatic analysis of marine microalgae (diatoms) transcriptomes to identify  
biologically active secondary metabolites. Advise Project.**

Bioinformatic and molecular analysis of transcriptomes sequenced from dinoflagellates with specific focus on secondary metabolites (prostaglandins pathway).

- Bioinformatic approach using annotation, statistical and alignment software. Analysis of meta-transcriptomic and meta-genomic data.

Tutor of graduate intern/Master student/PhD student.

[Business or sector](#) Scientific research activities; ERC sector: LS1-4, 8-9.

**01/02/2013–31/08/2019    Temporary Associated Researcher**

**Stazione Zoologica Anton Dohrn Napoli, Department of Marine Biotechnology,  
Villa Comunale, 80121 Naples (Italy)**

**[www.szn.it](http://www.szn.it)**

**Bioinformatic analysis of marine microalgae (diatoms) transcriptomes to identify  
biologically active secondary metabolites.**

Bioinformatic and molecular analysis of transcriptomes sequenced from the centric and pennate diatom genera with specific focus on secondary metabolites (prostaglandins, polyketides, terpenes pathway) using bioinformatic approaches, cell culture, molecular biology and biochemistry technique.

[Business or sector](#) Scientific research activities; ERC sector: LS1-4, 8-9.

**06/07-06/10 2017 Visiting Scientist to**

**University of the Western Cape (UWC)/ Institute for Microbial Biotechnology and Metagenomics (IMBM), Bellville, Cape Town, Republic of South Africa.**

- Genome sequencing of *Thalassiosira rotula* with the Illumina MiSeq technology and bioinformatics analysis.
- Cloning of a polyketide cyclase enzyme found following the genome sequencing and analysis.
- Start collaboration with Prof. Marla Tuffin and Dr. Leonard Van Zyl.

**Funding:**

**REA-MSCA-H2020-RISE, Marie Skłodowska-Curie Research and Innovation Staff Exchange, Staff Member, Marie Skłodowska-Curie fellow, in the context of the Ocean Medicine project.**

[Business or sector](#) Scientific research activities; ERC sector: LS1-4, 8-9.

**19/11-23/12 2017 Visiting Scientist to**

**Hellenic Centre for Marine Research (HCMR), Photobioreactor Facility, Crete, Greece:**

- Growth of *Skeletonema marinoi* under stressing temperatures, i.e. 15°C and 25°C.
- Start collaboration with Dr. Frederic Verret, Prof. Kriton Kalanditis and Dr. Panagiotis Kasapidi.
- **Centro de Ciências do Mar do Algarve (CCMAR) ProtMar, recombinant protein and biosensors platform, Faro, Portugal:**
  - *Skeletonema marinoi* cyclooxygenase 1 (COX-1) cloning and recombinant expression.
  - Start collaboration with Prof. Deborah Power, Liliana Anjos and Mr. Carlos Lopes.

**Funding:**

**European Marine Biological Research Infrastructure Cluster (EMBRIC) Transnational Access Program- First Call.**

**Project: “Chemical mediation by Prostaglandin in marine environment”.**

[Business or sector](#) Scientific research activities; ERC sector: LS1-4, 8-9.

**17/09-05/10 2018 Visiting Scientist to**

**ECIMAT-University of Vigo, Spain:**

- Growth of 2 *Skeletonema marinoi* strains under stress conditions: low/high temperature, light and CO<sub>2</sub>
- Start collaboration with Prof. Cristina Sobrino and Dr. Antonio Fuentes Lema.

Funding:

**Assemble Plus Transnational Access Program-First Call.**

[Business or sector](#) Scientific research activities; ERC sector: LS1-4, 8-9.

**22/10-14/12 2018 Visiting Scientist to**

• **Helmholtz Centre for Infection Research (HZI), Department of Chemical Biology, Braunschweig, Germany:**

- LC-MS technology to measure the prostaglandins release, outside the cells, by *Skeletonema marinoi* cultures growth in stress conditions.
- Start collaboration with Dr. Federica Fiorini and Prof. Mark Brönstrup.

• **Centro de Ciências do Mar do Algarve (CCMAR) ProtMar, recombinant protein and biosensors platform, Faro, Portugal:**

In collaboration with Prof. Deborah Power, Dr. Liliana Anjos, Mr. Carlo Lopes, pursuance of the expression and purification of the recombinant *Skeletonema marinoi* COX-1 protein, started during the first call.

**Funding:**

**European Marine Biological Research Infrastructure Cluster (EMBRIC) Transnational Access Program- Second Call.**

**Project: "Prostaglandin involvement into the temperature and light stress tolerance in diatoms".**

[Business or sector](#) Scientific research activities; ERC sector: LS1-4, 8-9.

**10/2012–12/2012 Researcher Collaborator**

University of Naples, School of agriculture, Department of soil, plant, ambient and animal production science.

133 Via Università, 80055 Portici (Italy)

[www.unina.it](http://www.unina.it)

DNA extraction from buffalo blood samples in a project of genotyping, characterization and conservation of autochthonous species.

[Business or sector](#) Scientific research activities; ERC sector: LS1-4, 8-9.

**01/10/2011–30/05/2012 Special education teaching professional**

Institution C.N.O.S. – FAP, Salesian Institution

8, Via Don Bosco, 80141 Naples (Italy)

<http://www.istitutosalesianovda.it/>

Hygiene, anatomy, chemistry and cosmetology teacher.

[Business or sector](#) Education

**2010–2011 College / University teaching professional**

University of "Naples Federico II", Faculty of Biotechnological Science

Corso Umberto I, 80138 Naples (Italy)

[www.unina.it](http://www.unina.it)

Medical Genetics Teaching assistant for bachelor under graduated student:

- Organization and evaluation of course tests.
- Organization and evaluation of practice exercise.
- Examiner of final exams.

[Business or sector](#) Education

**01/02/2011–30/04/2011 Scholarship**

University of Naples 'Federico II', Faculty of Science, Biology Department, Physiology and Hygiene Section.

40 Corso Umberto I, 80138 Naples (Italy)

[www.unina.it](http://www.unina.it)

*Fine tuning of quantitative Real Time PCR technique with selected marker related to lipid metabolism on samples derived from neural and gastrointestinal tissue of rat fed on normal or high lipid content diet.*

[Business or sector](#) Scientific research activities; ERC sector: LS1-4, 8-9.

01/01/2009–31/12/2010

### Temporary Associate Researcher

University of Naples "Federico II", Department of Biochemistry and Medical Biotechnology/CEINGE Biotecnologie avanzate Sc. a r.l., Laboratory of Human Genetics and Cancer

40 Corso Umberto I/486 Via Gaetano Salvatore, 80138/80145 Naples (Italy)

[www.unina.it/www.ceinge.unina.it](http://www.unina.it/www.ceinge.unina.it)

Study of the metastasis inducing gene H-Prune into epithelial carcinomas (mammary and prostate) and into paediatric central and peripheral nervous system tumours (neuroblastoma and medulloblastoma):

- Design, delineation and execution of experiment aimed at the study of primary tumours proliferation and metastasis development both in-vivo (murine models) and in-vitro (human and murine cells) using cell culture, molecular biology, biochemistry and immunohistochemistry technique.

**Business or sector** Scientific research activities; ERC sector: LS1-4, 8-9.

01/01/2009–30/03/2009

### Researcher Collaborator

Ceinge - Biotecnologie Avanzate s.c. a r.l.

486 Via Gaetano Salvatore, 80145 Naples (Italy)

<http://www.ceinge.unina.it/>

Angelini pharma project: "A preclinical animal model of inhibition of prostate cancer metastases by targeting CCL2 in Athymic/Nude mice: a proof of concept".

- Design, delineation and execution of experiment aimed at the study of primary tumours proliferation and metastasis development both in-vivo (murine models) and in-vitro (human and murine cells) using cell culture, molecular biology, biochemistry and immunohistochemistry technique.

**Business or sector** Scientific research activities; ERC sector: LS1-4, 8-9.

01/10/2008–31/12/2008

### Researcher Collaborator

Ceinge - Biotecnologie Avanzate s.c. a r.l.

486 Via Gaetano Salvatore, 80145 Naples (Italy)

<http://www.ceinge.unina.it/>

European project "European Embryonal Tumor Pipeline, EET pipeline":

- Design, delineation and execution of experiment aimed at the study of primary tumours proliferation and metastasis development both in-vivo (murine models) and in-vitro (human and murine cells) using cell culture, molecular biology, biochemistry and immunohistochemistry technique.

**Business or sector** Scientific research activities; ERC sector: LS1-4, 8-9.

01/04/2008–30/09/2008

**Researcher Collaborator**

Santa Lucia Foundation/Laboratory of Behavioural Neuroscience-Ceinge, Biotecnologie Avanzate-Napoli

306-354 Via Ardeatina, 00179 Rome (Italy)

<http://www.santalucia.it/>

**Study of the role of Dopaminergic receptors in dystonic disease by using a model of DYT1 dystonia.**

- Behavioural tests, biochemistry and immunohistochemistry technique.

**Business or sector** Scientific research activities; ERC sector: LS1-4, 8-9.

04/04/2005–31/12/2007

**Post Doctoral Fellow**

IGBMC - CNRS UMR 7104 - Inserm U 964. Department of Molecular Neurobiology/Department of Physiological Genetics of Nuclear Signalling

1 rue Laurent Fries, 67404 Illkirch CEDEX (France)

<http://www.igbmc.fr>

**Dopaminergic receptor study in relation to drug of abuse, and role of the Nuclear Receptors in the energy homeostasis.**

- Behavioural tests, cell culture, molecular biology, biochemistry and immunohistochemistry technique.

**Business or sector** Scientific research activities; ERC sector: LS1-4, 8-9.

01/11/2004–31/03/2005

**Researcher Collaborator**

Biogem S.c.a.r.l.

Via Camporeale Area P.I.P, 83031 Ariano Irpino (Av) (Italy)

<http://www.biogem.it>

**Identification of novel regulatory elements in the murine Pax8 gene using bioinformatics, molecular and transgenic mouse approaches.**

- cell culture, molecular biology, biochemistry and immunohistochemistry technique..

**Business or sector** Scientific research activities; ERC sector: LS1-4, 8-9.



## Resume of PostDoc Experiences in Italy

---

- Biogem scarl/Ceinge: 4 Months;
- Ceinge, lab di Neuroscienze/Fondazione Santa Lucia: 6 Months;
- Ceinge, Lab di Genetica umana/Angelini: 30 Months (2 years and 6 months);
- Federico II University, department of Biology: 3 Months;
- Federico II University, department of Agronomy: 3 Months;
- Stazione Zoologica Anton Dohrn Napoli: 7 years.

***Total months in scientific institution, out of SZN, in Italy: 46 Months (3.8 years)***

## Resume of Experiences and PostDoc time outside Italy

---

- Brown University, Providence, Rhode Island, USA: 2 weeks (student)
- IGBMC, Strasbourg, France: 32 Months (2 Years and 8 months) (PostDoc)
- HCMR, Crete, Greece: 1 Month and half (PostDoc and Permanent researcher)
- CCMAR, Faro, Portugal: 3 Months (PostDoc and Permanent researcher)
- ECIMAT, Vigo, Spain: 4 weeks (PostDoc)
- HZI, Braunschweig, Germany: 4 weeks (PostDoc)
- University of the western Cape, Cape Town, South Africa: 3 Months (PostDoc, Marie Sklodowska-Curie fellow)

***Total months in scientific institution out of Italy: 42 Months (3.5 years)***

## EDUCATION AND TRAINING

---

### 2012–2013 **Perfected in Hygiene, Security and Quality**

**University of Naples "Federico II", Naples (Italy)**

Occupational hygiene and worker risk and hazard prevention in biological and chemical laboratory. Physiology of the biological, physical and chemical risk on human health.

### 2010–2011 **Perfected in Alimentary Hygiene, Nutrition and Wellness**

**University of Naples "Federico II", Naples (Italy)**

Methodology and technique in nutritional field to make personal diets and alimentary educational programs. Mechanisms of body weight regulation and body composition. Metabolic syndrome and metabolic alteration of ectopic adipose tissue accumulation.

### 2000–2001 **Perfected in Hygiene and Alimentary Technologies**

**University of Naples Federico II, Naples (Italy)**

Hygiene and Aliments Technology, Nutritional physiology, Alimentary microbiology, biotechnology, aliments chemistry.

### 11/2001–11/2004 **PhD**

**Excellent**

**University of Naples Federico II/Stazione Zoologica Anton Dohrn Napoli, Naples (Italy)**

XVI Cycle, PhD in Cellular and Molecular Biology and Pathology.

- **Study of a CRE-like element in the 5' upstream region of the rat NIS gene.**
- **Identification of novel regulatory elements in the murine Pax8 gene using bioinformatics, molecular and transgenic mouse approach.**
  - Bioinformatics, cell culture, molecular biology, biochemistry and immunohistochemistry technique.

**Business or sector** Scientific research activities; ERC sector: LS1-4, 8-9.

**01/07/2000–30/10/2001 Master Graduate Internship**

Stazione Zoologica Anton Dohrn Napoli, Department of Biochemistry and Molecular Biology  
1 Villa Comunale, 80121 Naples (Italy)

[www.szn.it](http://www.szn.it)

Sea urchin embryo symmetry axes development.

- *molecular biology, biochemistry and immunohistochemistry technique; sea urchin embryo culture, sea urchin/frog egg injection and fixation techniques.*

[Business or sector](#) Scientific research activities; ERC sector: LS1-4, 8-9.

**01/04/2000–30/06/2000 Master Graduate Internship**

University of Naples "Federico II", Department of Neuroscience and Behavioural Sciences,  
Section of Pharmacology, Faculty of Medicine

5 Via Pansini, 80131 Naples (Italy)

[www.unina.it](http://www.unina.it)

K<sup>+</sup> gated channel study.

- Dissection and Isolation of *Xenopus laevis*'s oocytes, microinjection of Potassium channel mRNA into *Xenopus laevis*'s oocytes, Patch Clamp and Voltage Clamp techniques, Cell culture techniques, molecular biology and biochemistry.

[Business or sector](#) Scientific research activities; ERC sector: LS1-4, 8-9.

**01/10/1994–30/03/2000 Master Degree in Biological Sciences**

**110/110 cum  
Laudae**

University of Naples, Faculty of Natural, Mathematics and Physical Sciences, School of  
Biology

Corso Umberto I, 80138 Naples (Italy)

[www.unina.it](http://www.unina.it)

**01/1998–03/2000 Master Undergraduates training**

University of Naples, Faculty of Biological Sciences, Department of Physiology/Stazione Zoologica Anton Dohrn Napoli/Laboratory of Neurobiology  
1 Villa Comunale, 80121 Naples (Italy)

[www.szn.it/www.unina.it](http://www.szn.it/www.unina.it)

Effects of proteins synthesis inhibition on learning and memory of a passive avoidance task in *Octopus vulgaris* (Mollusca Cephalopoda).

- *Training of Octopus vulgaris by passive avoidance task, after injection of protein synthesis inhibitors, Protein synthesis measurement, Behavioural study of Octopus vulgaris muscular and epidermis changes following external stimuli.*

Business or sector Scientific research activities; ERC sector: LS1-4, 8-9.

**01/10/1998–30/10/1998 Visiting Student**

Brown University, Laboratory of Neurobiology  
02912 Providence, Rhode Island (United States)

<https://www.brown.edu/>

Learning of *Molecular biology technique applied to Neuroscience*

Business or sector Education

**1989–1994 high school diploma (scientific studies)**

**41/60**

Evangelista Torricelli High School  
1 Via S. Aloia, 80049 Somma Vesuviana (Italy)

<http://www.liceotorricellisommavesuviana.gov.it>

- Humanistic study
- English
- Geography, Religion, Philosophy and Story
- Mathematics and Physics
- Natural Sciences, chemistry and Astronomic Geography
- Graphic arts and art history
- Sports activity

## PERSONAL SKILLS

**Mother tongue(s)** Italian

**Other language(s)**

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
French	B2	B2	A2	A2	A1

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

**Communication skills**

Excellent social and communicative capabilities in multicultural and multi-ethnic milieu acquired in working environments where it is fundamental as a team to get the prefixed goals. Both in Italy and outside, like in France, Greece, Portugal and South Africa, I was working in very good research institute where a multi-ethnic environment gave me the opportunity to know, understand and learn other culture and their way to live and to approach. In addition, as a volunteer of non-profit organisation such as WWF, Red Cross, Emergency, I learn how to cooperate with other colleagues and how to relate with people. Those abilities have been reinforced by my sailing practice where it is work in collaboration and be part of a team is fundamental to get the arrival lane. Strong interest and passion for literature, music, photography and dance (modern-jazz; tango). The latter has been acquired from specific course that I followed, I am following and teaching.

Strong interest and predisposition to sport and nature that I am improving by specific course (sailing, scuba diving, artistic gymnastic, artistic skating, tennis, swim, horse riding, dance).

**Organisational / managerial skills**

Both as researcher and as Emergency, Red Cross, WWF voluntary, and boy scout, I developed very good organizational expertise by participating in writing project, workshop and summer school proposal and then following their development by myself and by coordinating the peoples working on.

**Job-related skills**

Precise handling and execution of bioinformatics, molecular biology and biochemistry, cells culture, in-vivo animal's proof of concept technique.

**Digital competence**

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Independent user	Independent user	Independent user

[Digital competences - Self-assessment grid](#)

**Driving licence** A, B, C, D

## ADDITIONAL INFORMATION

---

### Certifications

- CERTIFIED BY THE BOARD OF ITALIAN BIOLOGIST;
- PADI ADVANCED OPEN WATER SCUBA DIVING LICENCE;
- UNLIMITED NAUTICAL LICENSE FOR SAILING AND MOTOR BOATS.

### Tutoring and Teaching activity

#### Tutor of:

- University of Naples “Federico II” Bachelor degree students.
- Ghent University - IMBRSea Professional Practice Students:

- Carlos Roman Baena, Academic Year: 2021/2022

Project Title: “Discovery of dinoflagellates pharmacological potential against telomerase activity in human tumors”.

- Julia Oyón Diaz de Cerio, Academic Year: 2021/2022

Project Title: “Discovery of dinoflagellates pharmacological potential against telomerase activity in human tumors”.

- Dilara Diken, Academic Year: 2022/2023

Project Title: “The diatom cyclooxygenase gene: functional studies”.

- Ingrid Margarita Cavazos Contreras, Academic Year: 2022/2023

Project Title: “Gene expression studies of diatoms pathways for secondary metabolites with biotechnological applications”

- Gabriel Ecker-Eckhofen, Academic Year: 2022/2023

Project Title: “Discovery of dinoflagellates pharmacological potential against telomerase activity in human tumors”.

- Master degree students:

- Viviana Vastolo:

Master Degree in: “Medical Biotechnology” – Università degli Studi di Napoli, “Federico II” - Academic Year: 2009/2010 - Thesis title: “Study of the therapeutic efficacy of an anticoagulant agent in the breast cancer treatment”.

- Heethaka Krishanta Sameera De Zoysa:

Master Degree in: “Biology and Ecology of the Marine Environment and Sustainable use of Marine Resources” – Università degli Studi di Napoli, “Federico II”/SZN - Academic Year: 2019/2020 – Thesis title: “The study of the role of eicosanoids in diatoms through a molecular biology approach”.

- Julia Oyón Diaz de Cerio:

Master Degree in: “Marine Biological Resources” - Ghent University-International Master in Marine Biological Resources (IMBRsea) – Academic year: 2022-2023 - Thesis title: “Marine microalgae pharmacological potential against epithelial-mesenchymal transition and telomerase activity”

- **Graduate Intern:**

- Roberta Barbarinaldi:

Master Degree in “Biology of the Marine Productions” from Università degli Studi di Napoli, “Federico II” – Year:2017 - Internship topic: “Molecular approach for the study of marine microalgae physiology”.

- Federica Di Costanzo:

Master Degree in “Biology” from Università degli Studi della Campania, “Luigi Vanvitelli” – Year:2018 - Internship topic: “Development of culturing methods for metabolic studies of marine microalgae physiology”.

- Anna Perna:

Master Degree in “Medial, Veterinary and Pharmaceutical Biotechnology” from Università degli Studi di Napoli, “Federico II” – Year:2018 - Internship topic: “Development of molecular methods for metabolic studies of marine microalgae physiology”.

- Krishanta Sameera de Zoysa:

Master Course in “Biology and Ecology of the Marine Environment and Sustainable Use of Marine Resources” – Università degli Studi di Napoli “Federico II”/SZN – Year: 2019 – Internship topic: “Study of the prostaglandin pathway expression in the diatom *Skeletonema marino*”.

- **PhD student.**

- Daniela De Martino:

Università degli Studi di Napoli, “Federico II”/SZN – XXV cycle – PhD Course: Genetic and Molecular Medicine – Thesis Title: “An attempt to define the therapeutic use of Dipyridamole in triple-negative breast-cancer patients – a proof of concept in animal model” – 28 March 2013

- Federica Di Costanzo:

Università degli Studi di Napoli, “Federico II”/SZN – XXXIV cycle – PhD Course: Biology – Thesis Title: “Utilization of ‘omics’ approach to identify biosynthetic pathways for compound with antimicrobial activity in marine microalgae”. Thesis Deposited.

- Sebastiano Scibelli:

SZN (Stazione Zoologica Anton Dohrn Napoli)-Open University (Milton Keynes, England) PhD Program, XXIII cycle, 2021-2024.

### **Teaching:**

- **Special education technical school: chemistry and cosmetology, anatomy and hygiene, Institution: C.N.O.S.-FAP Napoli.**
- **Università degli studi di Napoli “Federico II”, Academic Year 2010/2011, supplementary teaching activities: Medical Genetics.**

### Attività di terza missione

- Università degli studi di Napoli “Federico II”, Napoli, Italy. Academic Year 2010/2011, supplementary teaching activities: Medical Genetics.
- Dissemination activity at Rotary e-Club Vesuvio, Torre del Greco – Napoli – Italy, 09 November 2019: Plastic free water project – Less Plastic, More Mediterranean.
- “Essere 4.0 – Storie di rivoluzioni, scienza e tecnologia, da Leonardo da Vinci ad oggi”, XXXIII Edizione di Futuro Remoto, 21-24 Novembre 2019, Città della Scienza, Napoli, Italy.
- “Intelligenze”, XXXVII Edizione di Futuro Remoto, 21-26 novembre 2023, Città della Scienza, Napoli, Italy.
- Il Dipartimento di Biotecnologie Marine Ecosostenibili della SZN incontra le scuole, 13-14 Dicembre 2022, SZN Molosiglio, Napoli, Italy, Valeria Di Dato lesson: “Il DNA ed il suo tesoro nascoto”

### Honours, awards and acknowledgment

- **Aldo Fasolo SZN Award 2015**  
Best publication of the year made by a young scientist with a non-permanent position.
- **Marie Sklodowska-Curie Research and Innovation Staff Exchange, Staff Member.**
- **SZN PhD Board Member.**

### Events Organization

- Genomic for a blue economy workshop (Co-organizer).

Workshop aims: identify the state-of-the-art of methods, potential challenges, and future directions in the characterization of marine natural compounds and their applications as biotechnological and pharmaceutical products.

**Stazione Zoologica Anton Dohrn Napoli, 11-12 December 2019.**

- ISSSB2022, International Summer School on Systems Biology 2022 (Proponent and Organizer).

The systems biology approach to discover marine life: from a big eye to a microscopic picture.

**Stazione Zoologica Anton Dohrn Napoli, 10-14 October 2022.**



- Editorial board member** • **Marine Drugs Special Issue Guest Editor: “Lipid-Derived Secondary Metabolites from Phytoplankton: Chemical and Functional Diversity”;**
- **Phycology Special Issue Guest Editor: “Stress Response in Diatoms: Insights into Metabolic Pathway Modulation by Omics Approaches”.**
- Reviewer board member** • **Plos One Scientific Journal Reviewer.**
- **MDPI Scientific Editorial Journals Reviewer Board Member..**
- Reviewer Activity** • **NewPhytologist**
- **MDPI Journals**
- **Plos One**
- **Journal of Marine Science**
- **J Food Chem & Nanotechnol**
- Grant reviewer** • **University of Roma “Tor Vergata”, ‘Beyond Borders’ Research Project Grants.**
- **Evaluation of research and professional activity of research-oriented institutes of the Czech Academy of Sciences for the period 2015–2019 (PHASE I).**

## Conferences International Meetings:

### Communications

- Cimmino F., Scopettuolo N., Carotenuto M., **Di Dato V.**, Iolascon A., Zollo M.: "A systematic screening identify new drugs impairing Medulloblastoma tumorigenesis". **101st AACR Annual Meeting, April 17-21, 2010 in Washington, DC.**
- **Di Dato V.**, De Martino D., Vastolo V., Navas L., Garrone B., Mangano G., Biondi G., Guglielmotti A. and Zollo M.: "Targeting Monocyte Chemotactic Proteins (MCPs) with synthesis inhibitors induces cancer tumor regression in vivo". **Tumor Immunology: Basic and Clinical Advances special conference, November 30-December 3, in Miami Beach, Florida.**
- **Valeria Di Dato**, Francesco Musacchia, Giuseppe Petrosino, Shrikant Patil, Marina Montesor, Remo Sanges and Mariella Ferrante : "Comparison of three Pseudo-nitzschia species through transcriptome sequencing". **The 16th International Conference on Harmful Algae (ICHA), 27–31 October 2014, Wellington City, New Zealand.**
- Laura Vitale, Antonio Fuentes-Lema, Cristina Sobrino, Giovanna Romano, **Valeria Di Dato** : "Prostaglandins biosynthetic pathway in diatoms: expression profile of COX-1 under high CO2 concentrations". **2nd edition of the Lipids in the Ocean 2021 Conference, 05-07 July 2021, Aveiro, Portugal.**
- Federica Di Costanzo, **Valeria Di Dato**, Giovanna Romano: "Analysis of phytosterols biosynthetic pathway in the diatom *Thalassiosira rotula*". **2nd edition of the Lipids in the Ocean 2021 Conference, 05-07 July 2021, Aveiro, Portugal.**
- Federica Di Costanzo, **Valeria Di Dato**, Ida Orefice, Giovanna Romano: "Biotechnological potential of marine microalgae". **8th European Bioremediation Conference, June 12 - 17, 2022, Crete, Greece.**
- Magnabosco C. Di Costanzo F., Romano G. Zingona A. **Di Dato V.**, De Luca P., Sarno D., Orefice I., Cozza R.: "Droplet digital PCR to assess the occurrence and infer the role of prostaglandin in natural diatom assemblage in Ionian coastal waters". **XXVII Congresso AIOL, Napoli, Italia 26-30 giugno 2023**
- Di Costanzo, F., **Di Dato, V.** & Romano, G.: "Omic approaches for the identification of biosynthetic pathways for bioactive compounds in the diatom *Thalassiosira rotula*". **8th European Phycological Congress, "Scientific Opportunities for a Global Algal Revolution", 20-26 August 2023, Brest, France.**
- Pietro Tedesco, Fortunato Palma Esposito, Chiara Melchiorre, Laura Vitale, Carmine Buonocore, Vincenza Casella, Costanza Ragozzino, Alessandro Coppola, Antonella Consiglio, Giuseppe Velardi, Luca Graziano, Giulia Varola, Sabrina Carrella, **Valeria Di Dato**, Valerio Funari, Eugenio Rastelli, Gerardo Della Sala, Daniela Coppola, Giovanna Romano, Donatella de Pascale. "Bioprospecting of Marine Bacteria: Unveiling Hidden Potential for Biotechnological Application". **EMBR-ERIC1° Bioprospecting International Meeting September 11th-12th, 2023, Naples, Italy.**
- Christophe Brunet, Clementina Sansone, Sergio Balzano, Chiara Lauritano, Angela Sardo, **Valeria Di Dato**, Giovanna Romano, Lucia Barra, Valerio Zupo, Maria Costantini, Sabrina Carella, Ida Orefice, Fortunato Palma Esposito, Massimo Perna, Arianna Smerilli, Mariano Amoroso. "Microalga Bioprospecting: the Contribution of BluBio Department of SZN". **EMBR-ERIC1° Bioprospecting International Meeting September 11th-12th, 2023, Naples, Italy.**

### Poster Presenter:

- **Di Dato V.**, Carlier P., Maldonado H. & Fiorito G. : "Passive avoidance in *Octopus vulgaris*: individual and social learning". Napoli Social Learning Conference 1-5 July, 1998, Napoli.
- **Di Dato V.**, Di Lauro R. and Chiusano M. L. : "Evolutionary sequence conservation in regulatory regions: analysis of the PAX8 gene". Bioinformatics Italian Society Meeting. Padova, Italy. March 26-27, 2004.
- **Di Dato V.**, De Menna M., Rossi G., Macchia P., De Vita G., Di Lauro R. : "New putative regulatory regions of the murine pax8 gene: a mix of comparative and experimental approaches". European Thyroid Association Meeting. Istanbul, Turkey. September 18-22, 2004.

- **Valeria Di Dato**, Shrikant Patil, Francesco Musacchia, Marina Montresor, Remo Sanges and Mariella Ferrante: "Transcriptomics-enabled exploration of the diatom genus *Pseudo-nitzschia*". Embo Workshop : 'The Molecular Life of Diatoms', 2013 June 25-28, Paris, France.
- **Di Dato Valeria**, Orefice Ida, Amato Alberto, Cutignano Adele, Ianora Adrianna, Romano Giovanna: "Animal-like prostaglandins in the marine microalga *Skeletonema marinoi*." BioProsp17, the 8<sup>th</sup> international conference on Marine Biotechnology, 2017 march 8-10, Tromso, Norway.
- Rosa Maria Sepe, Ida Orefice, Giovanna Romano, Marina Montresor, **Valeria Di Dato**: "Exploring diatom resting stages in Calabrian marine waters: biological diversity, chemical cues and biotechnological potential." EMBRC-ERIC 1° Bioprospecting International Meeting September 11th-12th, 2023, Naples, Italy.
- Laura Vitale, Antonio Fuentes-Lema, Cristina Sobrino, Giovanna Romano, **Valeria Di Dato**: "Prostaglandins Biosynthetic Pathway in Diatoms Under Abiotic Stresses". EMBRC-ERIC 1° Bioprospecting International Meeting September 11th-12th, 2023, Naples, Italy.

#### **Oral Presenter:**

- **Valeria Di Dato**, Ida Orefice, Angela Amoresano, Carolina Fontanarosa, Adrianna Ianora, Giovanna Romano: "Hormone discovery in phytoplankton microalgae". Embo| EMBL Symposium: A New Age of Discovery for Aquatic Microeukaryotes, 26-29 January 2016, EMBL Heidelberg, Germany.
- **Valeria Di Dato**, Ida Orefice, Alberto Amato, Carolina Fontanarosa, Angela Amoresano, Adele Cutignano, Adrianna Ianora and Giovanna Romano: "Animal-like prostaglandins in marine microalgae (eicosanoids metabolites in *Skeletonema marinoi*)". BMTL2017, Bringing Maths to Life, 7-9 June 2017, Naples, Italy.
- **Valeria Di Dato**, Federica Di Costanzo, Giovanna Romano: "Variation of prostaglandin metabolism along the growth of the diatom *Thalassiosira rotula*". Lipids in the ocean. Structure, function, ecological role and applications, 17-22 November 2018, Brest, France.
- **Di Dato, V.**, Di Costanzo, F., Orefice, I., Sepe, R.M., Magnabosco, C., Montresor, M1, Aiese Cigliano, R. & Romano, G.: "Prostaglandins in marine diatoms". 8th European Phycological Congress, "Scientific Opportunities for a Global Algal Revolution", 20-26 August 2023, Brest, France.

#### **National Meetings:**

##### **Oral Presenter**

- **Di Dato V.**, Di Lauro R.: "Identificazione di nuovi elementi regolatori nella regione al 5' del gene murino di Pax8 usando un'approccio post-genomica". Genoma: funzione e struttura. Cortona, Arezzo, Italy. April 10-12, 2003.
- **Di Dato V.**, De Menna M., Rossi G., Macchia P., De Vita G., Di Lauro R. : "New putative regulatory regions of the murine pax8 gene: a mix of comparative and experimental approaches". Federazione Italiana Scienze della Vita. Riva Del Garda, Trento, Italy. September 30- October 03, 2004.
- I. Orefice, **V. Di Dato**, G. Romano: "Induzione di stadi di resistenza nella diatomea marina *Thalassiosira rotula*". RIUNIONE SCIENTIFICA ANNUALE DEL GRUPPO DI ALGOLOGIA DELLA SOCIETA' BOTANICA ITALIANA (SBI), Amendolara, Cosenza, Italy, 11-12 novembre 2022.

#### **Workshops**

- Welter M., **Di Dato V.** and Borrelli E. : "Dopamine signaling and drugs oabuse: the role of the D2 receptors in behavioural and cellular responses to addictive drugs". GenAddict workshop. Barcelona, Spain. January 13<sup>th</sup> 2006
- *Role of locally-synthesized steroids in synaptic plasticity and neuroprotection, International workshop.* Strasbourg, France. October 20<sup>th</sup>, 2006
- EMBRIC Transnational Access Workshop. Pasteur Institute, Paris, France. January 25-26<sup>th</sup>, 2018.
- EMBRIC Transnational Access Workshop. Pasteur Institute, Paris, France. January 28-29<sup>th</sup>, 2019
- *Sample preservation and storage: associated issues for lipid extraction and analysis.* Lipids in the

- ocean. Structure, function, ecological role and applications, 17 November 2018, Brest, France.
- *Numerical tools for lipid composition data analysis*. Lipids in the ocean. Structure, function, ecological role and applications, 18 November 2018, Brest, France.
  - *Marine Lipids for medical and biotechnological applications ; targeted vs non targeted approaches*. Lipids in the ocean. Structure, function, ecological role and applications, 19 November 2018, Brest, France.
  - WestMED Hackathon '22, 'WestMED in my country' campaign, Malta, 30 June 2022.
  - The 100 Diatom Genomes project. 8th European Phycological Congress, "Scientific Opportunities for a Global Algal Revolution", 23 August 2023, Brest, France.
  - EMBRC-ERIC BIOPROSPECTING WG 1° WORKSHOP - 1° *Bioprospecting International Meeting September 11th-12th, 2023, Naples, Italy*.

### **Invited speaker**

- **HCMR, Hellenic Center for Marine Research, Crete, Greece.** 30 November 2017  
Talk title: Animal-like prostaglandins in marine microalgae (Eicosanoid metabolites in *Skeletonema marinoi*).
- **CCMAR, Centro de Ciências do Mar do Algarve, Faro, Portugal.** 12 December 2017  
Talk title: Animal-like prostaglandins in marine microalgae (Eicosanoid metabolites in *Skeletonema marinoi*).
- **EMBRIC Transnational Access Workshop.** Pasteur Institute, Paris, France. January 25-26th, 2018.  
Talk title: Chemical mediation by Prostaglandins in the marine environment.
- **HZI, Helmholtz Centre for Infection Research, Braunschweig, Germany.** 25 October 2018  
Talk title: Prostaglandin involvement into the temperature and light stress tolerance in diatoms.
- **CCMAR, Centro de Ciências do Mar do Algarve, Faro, Portugal.** 7 December 2018  
Talk title: Prostaglandin involvement into the temperature and light stress tolerance in diatoms.
- **EMBRIC Transnational Access Workshop.** Pasteur Institute, Paris, France. January 28-29th, 2019  
Talk title: Prostaglandin involvement into the temperature and light stress tolerance in diatoms.
- **CCMAR, Centro de Ciências do Mar do Algarve, Faro, Portugal.** 23 September 2020  
Talk title: *Skeletonema marinoi* cyclooxygenase characterization, an insight into animal-like prostaglandins in marine microalgae.
- **Assemble 2021: Marine biological research at the frontier, Online Conference.** 18-29 January 2021  
Talk title: Metabolism of Prostaglandins, animal hormone-like molecules, in marine microalgae.
- **CCMAR, Centro de Ciências do Mar do Algarve, Faro, Portugal.** 02 July 2021  
Talk title: Fundamental pathways in metazoans: unexplored pathways in diatoms, new frontiers in genomics of marine micro-organisms.
- **HCMR, Hellenic Center for Marine Research, Crete, Greece.** 22 September 2021  
Talk title: Fundamental pathways in metazoans: unexplored pathways in diatoms, new frontiers in genomics of marine micro-organisms.
- **Blue Planet economy 2022. Sessione tecnica Acquacoltura e bioeconomia Blue circolare e sostenibile.** Roma, Italia. 20 October 2022  
Talk title: Enhance the industrial use of Microalgae fostering collaboration and knowledge exchange between Mediterranean and Atlantic area.

## Publications

1. Chun, JT; **Di Dato, V**; D'andrea, B; Zannini, M; Di Lauro, R.  
The CRE-like element inside the 5'-upstream region of the rat sodium/iodide symporter gene interacts with diverse classes of b-Zip molecules that regulate transcriptional activities through strong synergy with Pax-8.  
**Mol Endocrinol.** 2004 Nov;18(11):2817-29. Epub 2004 Aug 19.
2. Nitsch R, **Di Dato V**<sup>\*</sup>, di Gennaro A, de Cristofaro T, Abbondante S, De Felice M, Zannini M, Di Lauro R.  
Comparative genomics reveals a functional thyroid-specific element in the far upstream region of the PAX8 gene.  
**BMC Genomics.** 2010 May 14;11:306. doi: 10.1186/1471-2164-11-306.
3. Alotaibi H, Yaman E, Salvatore D, **Di Dato V**, Telkoparan P, Di Lauro R, Tazebay UH.  
Intronic elements in the Na<sup>+</sup>/I<sup>-</sup>-symporter gene (NIS) interact with retinoic acid receptors and mediate initiation of transcription.  
**Nucleic Acids Res.** 2010 Jun;38(10):3172-85. doi: 10.1093/nar/gkq023. Epub 2010 Jan 31.
4. Napolitano F, Pasqualetti M, Usiello A, Santini E, Pacini G, Sciamanna G, Errico F, Tassone A, **Di Dato V**, Martella G, Cuomo D, Fisone G, Bernardi G, Mandolesi G, Mercuri NB, Standaert DG, Pisani A.  
Dopamine D2 receptor dysfunction is rescued by adenosine A2A receptor antagonism in a model of DYT1 dystonia.  
**Neurobiol Dis.** 2010 Jun;38(3):434-45. doi: 10.1016/j.nbd.2010.03.003. Epub 2010 Mar 19
5. Castelletti D, Fiaschetti G, **Di Dato V**, Ziegler U, Kumps C, De Preter K, Zollo M, Speleman F, Shalaby T, De Martino D, Berg T, Eggert A, Arcaro A, Grotzer MA..  
The quassinoid derivative NBT-272 targets both the AKT and ERK signaling pathways in embryonal tumors.  
**Mol Cancer Ther.** 2010 Dec;9(12):3145-57. doi: 10.1158/1535-7163.MCT-10-0539. Epub 2010 Oct 1.
6. Liguori L, Andolfo I, de Antonellis P, Aglio V, **Di Dato V**, Marino N, Orlotti NI, De Martino D, Capasso M, Petrosino G, Schramm A, Navas L, Tonini GP, Eggert A, Iolascon A, Zollo M.  
The metallophosphodiesterase Mpped2 impairs tumorigenesis in neuroblastoma.  
**Cell Cycle.** 2012 Feb 1;11(3):569-81. doi: 10.4161/cc.11.3.19063. Epub 2012 Feb 1.
7. Zollo M, **Di Dato V**<sup>\*</sup>, Spano D, De Martino D, Liguori L, Marino N, Vastolo V, Navas L, Garrone B, Mangano G, Biondi G, Guglielmotti A.  
Targeting monocyte chemotactic protein-1 synthesis with bindarit induces tumor regression in prostate and breast cancer animal models.  
**Clin Exp Metastasis.** 2012 Aug;29(6):585-601. doi: 10.1007/s10585-012-9473-5. Epub 2012 Apr 7.
8. Virgilio A, Spano D, Esposito V, **Di Dato V**, Citarella G, Marino N, Maffia V, De Martino D, De Antonellis P, Galeone A, Zollo M.

Novel pyrimidopyrimidine derivatives for inhibition of cellular proliferation and motility induced by h-prune in breast cancer.

**Eur J Med Chem.** 2012 Nov;57:41-50. doi: 10.1016/j.ejmech.2012.08.020. Epub 2012 Aug 23.

9. Cimmino, Flora; Scoppettuolo, Maria Nunzia; Carotenuto, Marianeve; De Antonellis, Pasqualino; **Di Dato, Valeria**; De Vita, Gennaro; Zollo, Massimo.  
Norcantharidin impairs medulloblastoma growth by inhibition of Wnt/ $\beta$ -catenin signaling.  
**Journal of neuro-oncology**,106,1,59-70,2012,Springer
10. Carotenuto M, Pedone E, Diana D, de Antonellis P, Džeroski S, Marino N, Navas L, **Di Dato V**, Scoppettuolo MN, Cimmino F, Correale S, Pirone L, Monti SM, Bruder E, Zenko B, Slavkov I, Pastorino F, Ponzoni M, Schulte JH, Schramm A, Eggert A, Westermann F, Arrigoni G, Accordi B, Basso G, Saviano M, Fattorusso R, Zollo M.  
Neuroblastoma tumorigenesis is regulated through the Nm23-H1/h-Prune C-terminal interaction.  
**Sci Rep.** 2013;3:1351. doi: 10.1038/srep01351.
11. Spano D, Marshall JC, Marino N, De Martino D, Romano A, Scoppettuolo MN, Bello AM, **Di Dato V**, Navas L, De Vita G, Medaglia C, Steeg PS, Zollo M.  
Dipyridamole prevents triple-negative breast-cancer progression.  
**Clin Exp Metastasis.** 2013 Jan;30(1):47-68. doi: 10.1007/s10585-012-9506-0. Epub 2012 Jul 4.
12. **Di Dato V<sup>\*</sup>**, Musacchia F, Petrosino G, Patil S, Montresor M, Sanges R, Ferrante MI.  
Transcriptome sequencing of three *Pseudo-nitzschia* species reveals comparable gene sets and the presence of Nitric Oxide Synthase genes in diatoms.  
**Sci Rep.** 2015 Jul 20;5:12329. doi: 10.1038/srep12329.
13. **Di Dato V<sup>+</sup>**, Orefice I, Amato A, Fontanarosa C, Amoresano A, Cutignano A, Ianora A, Romano G.  
Animal-like prostaglandins in marine microalgae.  
**ISME J.** 2017 Jul;11(7):1722-1726. doi: 10.1038/ismej.2017.27. Epub 2017 Mar 28.
14. **Di Dato V<sup>+</sup>**, Di Costanzo F, Barbarinaldi R, Perna A, Ianora A, Romano G.  
Unveiling the presence of biosynthetic pathways for bioactive compounds in the *Thalassiosira rotula* transcriptome.  
**Sci Rep.** 2019 Jul 9;9(1):9893. doi: 10.1038/s41598-019-46276-8.
15. Di Costanzo F, **Di Dato V<sup>+</sup>**, Ianora A, Romano G.  
Prostaglandins in Marine Organisms: A Review.  
**Mar Drugs.** 2019 Jul 23;17(7). pii: E428. doi: 10.3390/md17070428. Review. Marine Antiinflammatory Agents Special Issue.
16. **Valeria Di Dato<sup>+</sup>**, Roberta Barbarinaldi, Alberto Amato, Federica Di Costanzo, Carolina Fontanarosa, Anna Perna, Angela Amoresano, Francesco Esposito, Adele Cutignano,

Adrianna Ianora, Giovanna Romano.

Variation in prostaglandin metabolism during growth of the diatom *Thalassiosira rotula*

**Sci Rep.** 2020 Mar 25;10(1):5374. doi: 10.1038/s41598-020-61967-3.

17. **Di Dato V.\***, Ianora A., Romano G.

Identification of prostaglandin pathway in dinoflagellates by transcriptome data mining.

**Mar Drugs.** 2020 Feb 13;18(2):109. doi: 10.3390/md18020109. Bioinformatics of Marine Natural Products Special Issue.

18. Lydie I E Couturier, Loïc N Michel, Teresa Amaro, Suzanne M Budge, Elisabete da Costa, Marleen De Troch, **Valeria Di Dato**, Patrick Fink, Carolina Giraldo, Fabienne Le Grand, Iván Loaiza, Margaux Mathieu-Resuge, Peter D Nichols, Christopher C Parrish, Fany Sardenne, Marie Vagner, Fabrice Pernet, Philippe Soudant,

State of art and best practices for fatty acid analysis in aquatic sciences.

**ICES Journal of Marine Science**, Volume 77, Issue 7-8, December 2020, Pages 2375–2395, <https://doi.org/10.1093/icesjms/fsaa121c>

19. Federica Di Costanzo, **Valeria Di Dato+**, Leonardo Joaquim van Zyl, Adele Cutignano, Francesco Esposito, Marla Trindade and Giovanna Romano.

Three Novel Bacteria Associated with Two Centric Diatom Species from the Mediterranean Sea, *Thalassiosira rotula* and *Skeletonema marinoi*.

**Int. J. Mol. Sci.** 2021, 22(24), 13199; <https://doi.org/10.3390/ijms222413199>

20. Ida Orefice, **Valeria Di Dato\***, Angela Sardo, Chiara Lauritano, Giovanna Romano.

Lipid mediators in marine diatoms.

**Aquat Ecol** (2022). <https://doi.org/10.1007/s10452-021-09932-8>

21. Ida Orefice, Giovanna Romano, **Valeria Di Dato+**.

The biosynthesis and metabolism of prostaglandins in microalgae.

In ABR: Lipids in Plants and Algae: From Fundamental Science to Industrial Applications Volume 101, Chapter 10, Elsevier

\* First Author

+ Corresponding Author

## Conference Proceedings

1. A systematic screening identifies new drugs impairing medulloblastoma tumorigenesis.

Cimmino, F; Scopettuolo, N; Carotenuto, M; Di Dato, V; Iolascon, A; Massimo, Z.

CANCER RESEARCH, Volume: 70 Supplement: 8 Meeting Abstract: 763, DOI:

10.1158/1538-7445.AM10-763, Published: APR 2010, Document Type: Meeting Abstract.

2. Neuroblastoma tumorigenesis is regulated through the Nm23-H1/h-Prune C-terminal interaction.

Carotenuto M, Pedone E, Diana D, de Antonellis P, Džeroski S, Marino N, Navas L, Di Dato V, Scopettuolo MN, Cimmino F, Correale S, Pirone L, Monti SM, Bruder E, Zenko B, Slavkov I, Pastorino F, Ponzoni M, Schulte JH, Schramm A, Eggert A, Westermann F, Arrigoni G, Accordi B, Basso G, Saviano M, Fattorusso R, Zollo M.

Sci Rep (ISSN: 2045-2322, 2045-2322electronic, 2045-2322linking), 2013 Mar 1; 3: 1351-1351. Document Type: Abstract, Conference.

## Citations 14/09/2023 Google Scholar Citations

Number of Publication ISI with IF: 21

Total Impact Factor: 108.602

H index: 16

i10-index: 17

Number of total Citations: 765

### ISI Scientific Productivity:

Year of PhD: 2005

Year of First ISI Publication: 2004

Normalized ISI Scientific Productivity:

From first publication:  $21/18 = 1,1666$

From PhD on the total publication number:  $21/17 = 1,2353$

From PhD on the publication number after PhD:  $20/17 = 1.176$

Last 3 years (2019-2021):  $5/3 = 1,666$

## Projects International Project:

### P.I.:

- **EMBRIC** Transnational Access program 2017, First call, "Chemical mediation by Prostaglandins in the marine environment".
- **EMBRIC** Transnational Access program 2018, Second Call, "Prostaglandin involvement into the temperature and light stress tolerance in diatoms".
- **Assemble plus** first call 2018, "Molecular characterization of a Cyclooxygenase synthesizing animal-like prostaglandins in the diatom specie *Skeletonema marinoi*".
- **Assemble plus** eighth call 2020, "*Skeletonema marinoi* cyclooxygenase kinetic studies for biotechnology application".
- **Assemble plus** sixth call 2019, "Diatom resting stage as source of secondary metabolites".
- **Assemble plus** sixth call 2019, "*Skeletonema marinoi* cyclooxygenase characterization".
- **Easi genomics**, fourth call 2022, "

### Partner as temporary associated researcher:

- **REA-MSCA-H2020-RISE**, Marie Skłodowska-Curie Research and Innovation Staff Exchange, Staff Member, **Marie Skłodowska-Curie fellow** in the frame of the **Ocean Medicine** EU project (<http://www.pharma-sea.eu/pharmasea/other-h2020-projects/ocean-medicine.html>).
- **PharmaSea**, "Exploring the hidden potential: Novel bioactive compounds" (<http://www.pharma-sea.eu>).
- **Tara Oceans and STEFI project** (<http://oceans.taraexpeditions.org/m/science/>).
- **GYPSY** (A forward genetic screen in the marine planktonic diatom *Pseudo-nitzschia multistriata*) ([http://cordis.europa.eu/result/rcn/175665\\_en.html](http://cordis.europa.eu/result/rcn/175665_en.html)).



- **EET Pipeline** (European Embryonal Tumor Pipeline) ([http://cordis.europa.eu/result/rcn/48730\\_en.html](http://cordis.europa.eu/result/rcn/48730_en.html)).
- **TumiC** (An integrated concept of tumor metastasis: implications for therapy) ([http://cordis.europa.eu/project/rcn/86765\\_en.html](http://cordis.europa.eu/project/rcn/86765_en.html)).

**Partner as temporary associated researcher and writer contributor:**

- **Italy-South Africa Joint Proposal 2017**, “Genomics for A Blue Economy” - **writing contribution**.
- **Canada-Italy proposal 2008**, “Paediatric cancers : focus on medulloblastoma” - **writing contribution**.

**National Project:**

**Head of SZN unit:**

**PRIN2022** (call for Research project of National Interest). Sea Inspired STructured hybrid biomateRials based on Self-assembling protein scaffolds, SISTERS

**Partner:**

**Progetti di Ricerca CRIMAC "Centro ricerche ed infrastrutture marine avanzate in Calabria" della Stazione Zoologica Anton Dohrn**

- Droplet digital PCR to assess the occurrence and infer the ROle of prostaglandin in natural Dlatom Assemblage in the Ionian coastal waters, PRODIA.
- Bioluminescent and biofluorescent proteins from Amendolara Bank, BISCA.
- Exploring diatom resting stages in Calabrian marine waters: biological diversity, chemical cues and biotechnological potential, DIRCA.

**Partner as temporary associated researcher:**

**PRIN 2018** (call for Research project of National Interest), Chemical Interactions in Aquatic Organisms, CIAO.

- **PON Innovazione e Ricerca 01\_00117**.
- **P-MIZE+20**, “Plankton Biodiversity and Functioning of the Marginal Ice Zone Ecosystem in a Changing Antarctic Ocean”.
- **LIFE15 ENV**, “Biosensor-based device for real-time PAHs detection in sea, groundwater and human fluids in the SIN Bagnoli-Coroglio”.
- **Premiale FOE 2015**, ExPO, "Exploring the biotechnological Potential of marine Organisms".
- **Progetto Forgiare**, "Nuove terapie translazionali per la cura del cancro".
- **AngeliniPharma**, "A preclinical animal model of inhibition of prostate cancer metastases by targeting CCL2 in Athymic/Nude mice: a proof of concept".
- **PRIN 2010**, “Towards a therapeutic strategy for metastatic breast cancer: validation of newly generated drugs against the pro-metastatic h-prune activity in xenograft and sporadic models of breast cancer in mouse”.
- **AIRC2010**, “miRNAs in paediatric Tumors”.
- **Progetto Pensiero 2009**.
- **Progetto Jacuc2009**, “Modelli animali del gene H-PRUNE e del suo pathway di azione”.
- **Fondazione Guido Berlucci per la ricerca sul cancro**, bando 2009, “Screening of new drugs against molecular pathways involved in medulloblastoma development”.

**I DECLARE THAT EVERYTHING WRITED IN THIS CURRICULUM CORRESPOND TO THE THRUTH.**

**DICHIARAZIONE SOSTITUTIVA DI CERTIFICAZIONE/DI ATTO DI NOTORIETA'**  
(Art. 46 e 47 D.P.R. n. 445 del 28.12.2000)

La sottoscritta VALERIA DI DATO,  
nata il 07/01/1976 a Napoli,  
residente nel Comune di Cercola (Na),  
indirizzo Via Luca Giordano 55, 80040

- consapevole della responsabilità cui può andare incontro in caso di dichiarazione mendace o di esibizione di atto falso o contenente dati non più rispondenti a verità nonché delle sanzioni penali richiamate dall'articolo 76 del D.P.R. n. 445/2000, per le ipotesi di falsità in atti e dichiarazioni mendaci;

- ai sensi degli artt. 46/47 del D.P.R. n. 445 del 28.12.2000;

**DICHIARA**

- che quanto contenuto nel curriculum scientifico e didattico allegato è corrispondente al vero;
- di essere in possesso di tutti i titoli allegati al presente curriculum;
- che le copie di tutti i titoli e di tutte le pubblicazioni allegati corrispondono all'originale.

Luogo

Napoli

data 15/09/2023

Firma del dichiarante  
Valeria Di Dato