

PERSONAL INFORMATION

Family name, First name: Santinelli, Chiara

EDUCATION

January 2004 Ph.D in Evolutionary Biology (Marine Ecology). Pisa University, Italy. Supervisor Dr. Alfredo Seritti.

July 2000 Master Degree in Biological Science (Summa cum Laude). Pisa University, Italy

CURRENT POSITION

01/02/2010 to present Permanent position as researcher at the National Research Council (CNR), Biophysics Institute, Department of Earth and Environment (DTA), Italy

PREVIOUS POSITION

2005 to 2010 Temporary position as researcher at the National Research Council (CNR), Biophysics Institute, Department of Earth and Environment (DTA), Italy

01/09/04-01/12/04 Fellowship at CNR, Marine Science Institute, Italy

01/04/04-01/07/04 Fellowship at CNR, Biophysics Institute, Italy

PRIMARY EXPERTISE

- Marine biogeochemical cycles
- Dynamics of dissolved organic matter (DOM) in the Mediterranean Sea
- Optical properties (absorption and fluorescence) of chromophoric DOM (CDOM)
- Impact of climate change on DOM and CDOM dynamics
- Relationship between thermohaline circulation and dissolved organic carbon (DOC) distribution in different areas of the Mediterranean Sea
- Role of DOC in carbon export and sequestration in the Mediterranean Sea

PUBLICATIONS

Author of 20 peer review papers, 1 book chapter, 15 papers on national papers, books and congress proceedings and 27 presentations to national and international conferences as first author. SCOPUS: citations: 249, H-index 9; ISI web of science: citations 253 - H index 10.

INTERNATIONAL INVITED PRESENTATIONS

October 2012 "Dissolved organic matter dynamics in the Mediterranean Sea. An intriguing aspect of the marine carbon cycle". Seminar at the Dep. of Marine Chemistry and geochemistry, Woods hole Oceanographic Institution (WHOI), MA, US.

June 2009 "DOC dynamics in meso and bathypelagic layers of the Mediterranean Sea", seminar at the *Centre d'Océanologie* di Marsiglia, France.

April 2009 "Il ruolo degli oceani nel ciclo del carbonio", oral presentation in the framework of the European Project Carboschools, Pistoia.

AWARDS

2015 Mary Sears Visitor Award, to work at the Department of Marine Chemistry and geochemistry (Prof. D. Repeta), Woods hole Oceanographic Institution, WHOI, Woods Hole, MA, US.

May 2015 "Invited Professor" at the "Laboratoire PROTEE", Université de Toulon, France (2 weeks)

- September-October 2012** Mary Sears Visitor Award, to work at the Department of Marine Chemistry and geochemistry (Prof. D. Repeta), Woods hole Oceanographic Institution, WHOI, Woods Hole, MA, US (5 weeks).
- October 2011** “Invited scientist” at the Department of Marine Chemistry and geochemistry (Prof. D. Repeta), Woods hole Oceanographic Institution, WHOI, Woods Hole, MA, US (2 weeks).
- October 2010** “Invited scientist” at the Department of Marine Chemistry and geochemistry (Prof. D. Repeta), Woods hole Oceanographic Institution, WHOI, Woods Hole, MA, US (1 week).
- June 2009** “Invited Professor” at the Laboratoire Microbiologie Géo chimie et Ecologie Marine (LMGEM), Centre d’Océanologie de Marseille, France (5 weeks).
- 06/10/04** Young Researcher Award, XIV Congress of the Italian Society of Ecology “Conservazione e gestione degli ecosistemi”.
- 11/06/04** 37° CIESM congress, best Poster prize.
- 10/09/03** Young Researcher Award, XIII Congress of the Italian Society of Ecology “Ecologia quantitativa: metodi sperimentali, modelli teorici, applicazioni”.

COMMISSIONS OF TRUST

- 17 December 2015** Participation in the committee for the evaluation of the PhD thesis «*Etude de l'exportation de carbone organique à l'échelle de la Méditerranée à l'aide de la modélisation couplée Physique-Biogéochimie*», PhD in Oceanography, Aix-Marseille University
- 6 November 2015** Participation in the committee for the evaluation of the PhD thesis «*Insights on the microbial carbon pump in the global ocean with spectroscopic techniques*», University of Granada
- April 2014** Experienced review of scientific projects in the framework of the post-doctoral fellowship programme, IdEx Bordeaux, University of Bordeaux, France
- 17-19/01/2011** Participation in the scientific evaluation of MIO (Institut Méditerranéen d'océanographie) of Marseille, as expert of AERES (Agence Française d'Évaluation de la Recherche)

INSTITUTIONAL RESPONSIBILITIES

- January 2012** to present Italian National representative in the international SOLAS (Surface Ocean - Lower Atmosphere Study) Project (Invited).
- 2009-2011** Supervisor of 1 Research Fellowship

Reviewer for the following journals: Biogeoscience, Deep-Sea Research, Journal of Marine Systems, Journal of Plankton Research, Marine Chemistry, Progress in Oceanography.

PARTICIPATION IN PROJECTS:

- 2016** Italian responsible for the project “ADORE: Atmospheric input of Dissolved ORganic mattEr to the Mediterranean Sea”, funded in the framework of the Galileo program, Università Italo-Francese.
- 2015-2016** Eurofleets2 Regional Call 3, funds to carry out two cruises in the Adriatic Sea.
- 2012-2016** Italian flagship project RITMARE “Italian Research for the sea”, funded by the Italian Ministry of University and Research. Responsible of
- 2012-2016** European Project PERSEUS “Policy-oriented marine Environmental Research in the Southern European Seas”. FP7, “Oceans of Tomorrow” (287600).

- 2014-2015** French Project “TRansfer of Atmospheric COntaminants to the MEDiterranean Sea MERMEX TRACOMED”, in the framework of the French Program Envi-Med.
- 2014-2015** French Project “COntaminants MétaIliques dans l’Environnement COtier Méditerranéen (COMECOM-MERMEX), in the framework of the French Program Envi-Med.
- 2012-2013** Italian responsible for the project “*Impact of Chromophoric Dissolved Organic Matter (CDOM) chemical composition on light availability in Mediterranean ecosystem*”, funded in the framework of the international projects of scientific cooperation CNR-CNRS
- 2006-2010** European Integrated Project SESAME “Southern European Seas: Assessing and Modelling Ecosystem changes”. FP6, ‘Sustainable Development, Global Change and Ecosystems’ (GOCE-036949).
- 2006-2009** National project VECTOR: “Climate change impact on Italian coast, marine ecosystem and carbon cycle in the Mediterranean Sea”.

PARTICIPATION IN INTERNATIONAL MEETING (INVITED):

- 10-12 June 2013.** International meeting of the French Project MERMEX (Marine Ecosystems Response in the Mediterranean Experiment), Zagreb, Croatia, (invited).
- 30 Marzo-1 Aprile 2011,** International Workshop of the French Program MISTRALS (Mediterranean Integrated STudies at Regional And Local Scales), Malta (invited).

ORGANISATION OF SCIENTIFIC MEETINGS AND TRAINING

- June 2014 & May 2013** Organization of the Training Visit “Marine Carbon Cycle Dissolved organic matter dynamics and marine ecosystem health.” Biophysics Institute, CNR Pisa, in the framework of the European Project PERSEUS.
- December 2008** Organization of the scientific Workshop *An integrated study of the early-spring carbon flux in the Western Mediterranean Sea*, Preliminary results of the SESAME-IT4 cruise, CNR, Pisa, Italy

TEACHING ACTIVITIES

- 2009 to present** Lecturer of the course in “Oceanography”, Pisa University, Faculty of Mathematics, Physics and Natural Sciences, Marine Biology
- 2007-2009** Lecturer of the course in “Laboratory of Biological Oceanography”, Pisa University, Faculty of Mathematics, Physics and Natural Sciences, Marine Biology
- 2006-2010** Lecturer of the course in “Biological Oceanography”, Pisa University, Faculty of Mathematics, Physics and Natural Sciences, Environmental Science

ADVISOR FOR GRADUATE STUDENTS

- 2012-2014** Scientific responsible of two 1-year internships in the framework of the Project “Giovani sì” of the Tuscany Region, Italy
- 2014-2017** Co-Tutor of a PhD in “Environment and Life”, Trieste University, Italy (Dr. Yuri Galletti).
- 2013-2016** Co-Tutor of a PhD in “Marine Biology”, Pisa University, Italy (Dr. Simona Retelletti Brogi).
- 2007-2010** Co-Tutor of a PhD in “Metodologies for biomonitoring of environmental alteration”, Trieste University, Italy (Dr. Rosario Lavezza).

Advisor for 8 master degree thesis in Marine Biology at Pisa University.

MAJOR INTERNATIONAL COLLABORATIONS

- D. Repeta, Radiocarbon and dissolved organic matter chemical characterization, Department of Marine Chemistry and geochemistry, Woods hole Oceanographic Institution, MA, US.
- D. Hansell, dissolved organic carbon (DOC) in the Med Sea and in the ocean, Marine and Atmospheric Chemistry, RSMAS - University of Miami, FL, US.
- R. Sempéré, DOC and chromophoric DOM (CDOM) in the Med Sea & Elvira Pulido Villena, DOM input from the atmosphere, Institut Méditerranéen d'Océanologie, MIO, Marseille (France)
- C. Garnier, DOM input from the rivers and its interaction with metals, Laboratoire PROTEE, Université de Toulon, France

FIELD EXPERIENCES

2000 - 2011 to present Participation in 21 oceanographic research cruises carried out on board the R/V "URANIA" (CNR), R/V "Dallaporta" (CNR) and "Universitatis" (Conisma), in different areas of the Mediterranean Sea.

Chief scientist of the cruises: "SESAME S-IT4", 26/03/2008 to 07/04/2008, Western Mediterranean Sea, Project EU SESAME. O/V Urania; "VECTOR-AM4", 12-17/09/2007 Southern Adriatic Sea, Project "Vector". O/V Dallaporta

OUTREACH ACTIVITY

2008 to present Lessons about Oceanography, Marine Carbon cycle and Climate Change in primary schools (8-10 years old children)

October 2014 Scientific Proposer and responsible of the laboratory for children, "The time and the sea", Festival della Scienza, Genova.

24 September 2015 & 26 September 2014 Participation in the European Researcher night with the laboratory for children "Discovering the secrets of the oceans with oceanographers"

April 2009 Participation in the "Train the trainer, course in science communication skills for researchers", Rapolano Terme (SI), Italy.

October 2008 Presentation of the Film "Travels on board the Urania", during the "*Festival of Science*", Genova, Italy