

Curriculum vitae

Raffaella Casotti

Staff Scientist at Stazione Zoologica Anton Dohrn since 2000 (Senior Scientist since 2016)
Contract Professor of the University of Naples Federico II (Environmental Impact Assessment) from 2010 to 2016

Research interests: Microbial ecology, microbial plastisphere, bacterial diversity, biological oceanography, phytoplankton ecology, physiology, ecotoxicology, flow cytometry

Education and Training

Doctorate in Environmental Sciences, University of Messina, Italy
MSc in Natural Sciences at the University of Naples "Federico II"

Visiting Investigator at the Woods Hole Oceanographic Institution, Woods Hole, USA 1988-1990
Contract and Graduate Fellow at the Station Biologique de Roscoff, France 1991-1993
Research Fellow (art. 23) at the Stazione Zoologica "Anton Dohrn" of Naples 1994-1996

Management and Responsibilities

SZN Representative in the Italian Oceanographic Commission since 2020 and member of Working Group since 2012
Member of the EMBRC Working Group for Omic Observatories of EMBRC (EMOBON) since 2020
Member of the Operational Committee of the European Marine Omics Biodiversity Observation Network (EMOBON) since 2021
Co-Chair of the Consultation event of EuroSea "omics & eDNA in regional ocean observation" November 2020 (to be repeated in February 2023)
Chair-elected of the Gordon Research Conference in Marine Microbes, Il Ciocco (LU) 2012
Vice Chair of the Gordon Conference on Marine Microbes in Tilton (USA) 2010

Member of the Board of the PhD Program in Veterinary Sciences of the Università degli Studi Federico II since 2014
Member of the Comitato di Indirizzo of the Scuola di Scienze Biologiche e Biotecnologiche of the University of Urbino-Carlo Bo since 2017

Member of the Expert Evaluators List of the European Commission (H2020 Advisory Group), of the French Agence National de la Recherche (ANR), of the Italian REPRISE, of the Dutch Research Foundation Flanders (FWO), this last from January 2023.

Member of the Evaluation Committee of the French Institut Méditerranéen d'Océanologie (MIO) in 2022

Member of the Scientific Committee and Evaluation Board of the List of Expert Cytometrists of the Italian Society of Cytometry (GIC) since 2014

Member of the Consiglio Direttivo of the Italian Society of Cytometry (GIC) 2001-2013
Member of the Consiglio di Presidenza of the Associazione Italiana di Oceanografia e Limnologia 2012-2014
Outreach officer for the Research Mode Project "ROSEMEB" within the Network of Excellence MARBEF, 2009-2014
Member of the Task Force of the European Marine Biology Resource Center (EMBRC) for project proposals

Member of the Editorial Boards of the journals *Marine Ecology* from 2009 to 2020; *PLoS One* since 2018; *Journal of Marine Science and Engineering* since 2020

Project Evaluator for the European Commission (FP5, FP6, FP7 (Marie Curie, Integrated Projects and CSA), H2020 (RI))
Project Evaluator for the French Research Agency (ANR), the German one (EVAL-INCO), the Royal Dutch Research Foundation, the Rumanian Research Agency (2016) and the CNR (ship requests), MIUR (PRIN projects), the "Caixa" Foundation (Spain), EuroMarine (projects).
Member of the Selection Committee for the public call for Researcher (T.I.) at the INOGS 2016
Member of the Selection Committee for the public call for Technologist (T.I.) at SZN 2012

Member of the Selection Committee for 8 trainees for the PON EMSO MedIT (written and oral exams) 2014

Responsibilities at SZN

Coordinator of the Core Facility “Management and Ecology of Temperate and Polar Coastal Areas”, the Fishery Service, the Stabulario and the Service of Taxonomy and Identification of Marine Phytoplankton of the SZN 2012-2014
Coordinator of the PhD Program of the SZN 2012- 2017
Member of the Seminar Committee of SZN 2012-2014
Member of SZN “Struttura Tecnica per il Piano della Performance” 2012-2014
Responsible for Management of R/V Vettorina 2012-2014
Scientific Manager of the Agreement between SZN and Istituto Nazionale di Oceanografia e di Geofisica Sperimentale 2017
Scientific Manager of the Agreement between SZN and Università degli Studi di Urbino Carlo Bo since 2017
Scientific Manager of the Agreement between SZN and Università Politecnica delle Marche 2014-2017
SZN Representative for project proposals in the framework of the “Marine Observatory” 2016
Member of 11 Testing Committee (Commissioni di Collaudo di beni e servizi) of SZN (10 as President) 2014-2016
Member of 4 Tender Committee (2 as President) 2014-2017
Scientific Manager of the Agreement between SZN and Istituto Zooprofilattico Sperimentale del Mezzogiorno for the project “Prevalenza e caratterizzazione molecolare di ceppi di Clostridium difficile isolati da molluschi eduli lamellibranchi di diversa origine” 2014
SZN Responsible for the Commessa “TERNA1-Attuazione del piano di monitoraggio ambientale nell’area marina interessata della realizzazione dell’elettrodotto 150 kV “Nuova Stazione Elettrica Capri-CP Torre Annunziata Centro” 2014-2019.
Coordinator of the internal Program 5 of SZN “Meccanismi che regolano i processi biologici e l’ecologia del plancton” 2014
Responsabile Unico del Procedimento for the EMSO MedIT Project 2014
Scientific Manager of the Agreement between SZN and Istituto Nazionale di Geofisica e Vulcanologia (INGV) for projects EMSO MedIT and IRMA 2013-2016
SZN Representative in the event “Napoli-Shanghai” organized by the Consolato Generale d’Italia at Shanghai 2013
RUP for the International Course in Microbial Ecology” 2012
Member of 25 Selecting Committee for Assegni di Ricerca, Boursaries or Contratti di Collaborazione della SZN (13 as President) 2011-2020
Scientific Manager of the Agreement between SZN and the National Science Council of Taiwan 2008-2016

Organization of Courses and Scientific Meetings

2016 Chair of the Session “Agriculture, soil, forest microbiology, Environmental, marine, aquatic, Geomicrobiology” of the VI International Conference on Environmental, Industrial and Applied Microbiology, Barcelona (Spain)
Co-Coordinator and Teacher of the “International Course in Microbial Ecology” within the Project INCOMMET, Naples 2012
Chair-elected of the Gordon Research Conference “Marine Microbes, Il Ciocco (LU) 24-28 Giugno 2012.
Co-Coordinator and Teacher of the Course on Environmental applications of Cytometry at the National School of the Italian Society of Cytometry 2001-2013
Co-coordinator and Teacher of the Summer Course in “Plankton Bloom Dynamics . An integrative approach using molecular and genomic tools” Barcelona (Spain) 2007
Member of the Scientific Committee of the Advanced Course “Chemical ecology and bioassay methods” within the Network of Excellence “MARBEF” Tjarno (Sweden) 2006
Coordinator and Teacher of the Advanced Course “The Role of Flow cytometry in Marine Biodiversity and Ecosystem Functioning” within the Network of Excellence “MARBEF”, Naples 2004
Member of the Scientific Committee of the XVIII Conferenza Nazionale di Citometria, Rome 2001

Professional Affiliations

American Society of Limnology and Oceanography (ASLO) since 1989
American Geophysical Union (AGU) since 1989
International Society for Analytical Cytology (ISAC) 2006-2012
Associazione Italiana di Limnologia e Oceanografia (AIOL)
Società Italiana di Citometria (GIC) since 2000
Marie Curie Fellowship Association (MCFA) since 2000
Società Italiana di Biologia Marina (SIBM) 1987-2005

Mentoring, examinations and referee

Supervisor of 8 PhD candidates (6 for the Open University, 2 of the University of Messina), co-supervisor of 1 from University of Naples Federico II; Supervisor of 6 MSc thesis
Examiner of 2 Doctorates in France, 1 in China, 2 in the UK, 5 in Australia and 1 Habilitation à Diriger la Recherche in France. Panel Chair of 3 English PhD theses (Open University).

Referee for several international scientific journals such as Nature, PNAS, Journal of Plankton Research, Cytometry, Limnology and Oceanography, Marine Biology, Aquatic Toxicology, PLoS One, Protist

Current Projects

- 2022-2026 HORIZON-CL6-2022-BIODIV-010-01 (Observing and mapping biodiversity and ecosystems, with particular focus on coastal and marine ecosystems) Project Observing And Mapping Marine Ecosystems-NEXT Generation Tools (OBAMA-NEXT) (319,176.00 euro to SZN). SZN Principal Investigator.
- 2022-2026 HORIZON-CL6-2021-BIODIV-01-03 MARINE BIODIVERSITY ASSESSMENT AND PREDICTION ACROSS SPATIAL AND HUMAN SCALES (BIOcean5D) (€727.937,50 to SZN). Partner, responsible for sampling and data gathering and elaboration
- 2020-2023 Project JPI Ocean “MicroplastiX” (150.000,00 euro to SZN) Integrated approach on the fate of microplastics, towards healthy marine ecosystems. SZN Principal Investigator and Co-Coordinator of WP3
- 2020-2022 Italian Project “SNAPSHOT”. SZN Project Manager and coordinator of activities. Member of the writing team
- 2020-2024 H2020 “AtlantECO”. Partner, Responsible for estimates of microplastics and microbial communities estimates in the Atlantic Ocean
- 2020- 2023 H2020-BG-2018-2020 Project “TechOceans” “Technologies for Ocean Sensing” (163.400,00 euro to SZN). Partner, responsible for testing of new cytometric and genomic sensors
- 2018- 2022 H2020-BG-2018-2020 Project “EuroSea” “European Contribution to the Future of the Seas and Oceans Flagship Initiative” (220.000,00 euro to SZN). Partner, Responsible for networking of ocean observatories and Member of the Gender and Diversity Board

Past Projects

- 2018-2021 Project PON “Place” ARS01_00891 “Conversione di Piattaforme Offshore per usi multipli ecosostenibili – PlaCE”. (700.000,00 euro to SZN). Responsible for water column sampling of marine bacteria and phytoplankton through flow cytometry
- 2018-2020 Progetto Bandiera MicroMare – (100.000,00 euro). Co-PI Scientific Responsible for the analyses of bacterial communities on microplastics in the Gulf of Naples and their effects on the sea urchins
- 2015 French ENVIMED MENAPHY project (Training- travel support). Responsible for training in high frequency flow cytometry
- 2015 Contratto IZP ME2 (Istituto Zooprofilattico Per il Mezzogiorno) “Prevalenza e caratterizzazione molecolare di ceppi di *Clostridium difficile* isolati da molluschi eduli lamellibranchi di diversa origine” (4.250 €). Coordinator for sampling and analyses
- 2015 –Giunta Regionale della Campania - Finanziamento di 1 Assegno di Ricerca (24.500 euro). Recruitment and training of a trainee on the characterization of bacterial communities through CARD-FISH and flow cytometry
- 2014-2019 Commessa TERNA (476.410,00 euro to SZN) for environmental monitoring. SZN Project Manager and Coordinator for sampling and analyses
- 2014-2015 Convenzione di Ricerca STRATEGIA MARINA (100,000.00 euro). Project Management and Coordination of sampling and data acquisition and report elaboration
- 2013 Project CEFA (Funzionamento degli ecosistemi costieri in un Oceano Antartico in cambiamento) National Program in Antarctic Research. Responsible of Operational Unit SZN
- 2013 Premiale MIUR “IRMA” (Implementation and Remote connection of a platform for the real time monitoring of MARine microorganisms” Fondi MIUR (388.100,00 €). Science and Project Manager
- 2013-2014 Project SZN n.5 “Meccanismi che regolano i processi biologici e l’ecologia del plancton (87.349,00). Project Manager and Responsible for bacterial communities characterization in the Gulf of Naples
- 2013-2016 PON3 PAC00044 EMSO MED IT (2.006.180,00 € to SZN). SZN Project Manager and Science Manager, WP2 Coordinator
- 2013-2016 Progetto Bandiera Nazionale RITMARE (2012-2015 SP3_WP2_AZ1_UO2 and SP3_WP3_AZ1_UO3 (200.000 € 85.700,00+114.300,00 per il I periodo). Coordinator of 2 Unità Operative of the for 1) application of

- continuous flow cytometry for marine plankton monitoring in the Gulf of Naples and the Northern Adriatic Sea 2) bacterial communities characterization by coupling flow cytometry, CARD-FISH, metagenomics and metatranscriptomics 2013-2015
- 2012-2015 FP7 EC CSA INCOMMET (Improving National Capacities in Observation and Management of Marine Environment in Tunisia) (36.427€ to SZN). Responsible for training in flow cytometry and TOK through stages at SZN. Member of Steering Committee. SZN Project manager
- 2012-2015 Contratto ISCHIA GAS (since 2012) (Monitoring of Posidonia prairies in Ischia) (372.400 €). Sampling coordinator, SZN project manager
- 2012-2016 EC CBC- ENPI S&T Med Project (Sustainability and Tourism in the Mediterranean Area) (480.137 € to SZN). Project Manager and Science Manager for SZN. Coordinator of WP7 (Sites Monitoring)
- 2010 Progetto Premiale MIUR “MICGEN” MICRobial GENomics – Fondi MIUR (10.000,00 € circa). Scientific responsible for bacterial metagenomics, project manager
- 2003-2006 ISMAR – OBASI (45.000,00 euro). Partner, Coordinator of the sampling and data collection, fund management

Public Engagement

- 2022 Tutor for the Marine Biology Course PTOF of Liceo Genovesi di Napoli with the Lega Navale Italiana, Sezione di Napoli
- 2022 Organizer of the cycle of seminars “La Scienza ci lega” at the Lega Navale Italiana, Sezione di Napoli
- 2020 Presenter at the Comitato “Le Monachelle”
- 2019 Presenter at the Museo Virtuale of Ercolano
- 2018 Presenter at “Futuro Remoto - Rigenerazioni”, Naples
- 2016 Presenter at “Futuro Remoto - Il Mare”, Naples
- 2014 Presenter at the Event “La Scienza è donna” Città della Scienza
- 2014 Collaborator for video material (videobrochure) of the SZN
- 2013 Partner for the Meeting “Mare Nostrum” of the Rotary Club Napoli Castel Sant’Elmo
- 2013 Collaborator for video material of the Exposition “Fridtjof Nansen, Esploratore e Scienziato” Città della Scienza
- 2013 Collaborator for the Event “Ecologicamente: la Fiera dei Beni Comuni” in Naples
- 2012 Member of the Comitato “Scienza e Società” of SZN for the meeting on the “Guarigione”
- 2012 - Tutor for the Progetto PON “L’ambiente marino Azione C3 FSE 2010-764- Programmazione dei Fondi Strutturali Europei 2007/2013-Iniziativa “LE(g)ALI AL SUD: UN PROGETTO PER LA LEGALITA’ IN OGNI SCUOLA” Gennaio-Aprile 2012
- 2011 Project TWIST - Gender Day of Città della Scienza. Public Presentation
- 2010 member of the Comitato di Redazione of SZN
- 1999- Expert Trainer at the Istituto Professionale “G.Falcone” di Sava (TA)

Scientific Publications (*corresponding author) Google Scholar H index 33; 4245 citations

- Zingone A., **Casotti R.**, Ribera D’Alcalà M., Scardi M., Marino D. (1995) “St. Martin’s summer”: the case of autumn phytoplankton bloom in the Gulf of Naples (Mediterranean Sea). *Journal of Plankton Res.* 17(3): 575-593.
- ***Casotti R.**, Ribera D’Alcalà M., Bowler C. (1997) A molecular approach to the study of photoadaptation in phytoplankton. Genetic transformation of marine diatoms. *Biol. Mar. Medit.* 4(1), pp. 24-29.
- Ribera D’Alcalà M., Carrada G.C., **Casotti R.**, Modigh M., Saggiomo V. E Vescia S. 1985. Osservazioni sulla distribuzione verticale di ossigeno e clorofilla a nelle acque esterne al Golfo di Napoli. *Nova Thalassia* 7(3): 129-135.
- Carrada G.C., **Casotti R.**, Modigh M. E Saggiomo V. 1991. Presence of *Gymnodinium catenatum* (Dinophyceae) in a coastal Mediterranean lagoon. *J. Plankton Res.* 13(1): 229-238.
- Rousseau V., Vaultot D., **Casotti R.**, Cariou V., Baumann M., Güntel J. e Lenz J. 1994-The life cycle of *Phaeocystis* (Prymnesiophyceae): evidence and hypotheses. *J. Marine Systems* 5: 23-39.
- Vaultot D., Partenski F. e **Casotti R.** 1993- Application of flow cytometric and microfluorometric DNA measurements to phytoplankton studies. *ICES Marine Sciences Symposia*, 197: 286.
- Marie D., **Casotti R.**, Simon N., Partenski F. e Vaultot D. 1993- Flow cytometric measurements of *Prochlorococcus* and bacteria cell concentration, cell scatter, pigment fluorescence and cell cycle. In: *Prochlorococcus workshop*, Station Biologique de Roscoff, 40-44.
- Cariou V., **Casotti R.**, Birrien J.-L. and Vaultot D. 1994- The initiation of *Phaeocystis* colonies. *Journal of Plankton Research* 16, 5: 457-470.

- Vaulot, D., Birrien, J.-L., Marie, D., **Casotti R.**, Veldhuis, M., Kraay, G. and Chrétiennot-Dinet, M.-J. 1994- Morphology, ploidy, pigment composition, and genome size of cultured strains of *Phaeocystis* (Prymnesiophyceae). *Journal of Phycology* 30:1022-1035.
- Brunet C., Davoult D. and **Casotti R.** 1996- Physiological reactions to a change in light regime in cultured *Skeletonema costatum* (Bacillariophyta): implications for estimations of phytoplankton biomass. *Hydrobiologia* 333:87-94.
- Falciatore A., **Casotti R.** e Bowler C. 1996- Transfer of foreign genes in marine diatoms. EC-Science, Research Development: "Marine Organisms: Research Issues for Biotechnology": 31-43.
- Bohm E., Buongiorno Nardelli B., Brunet C., **Casotti R.**, Conversano F., Corato F., D'Acunzo E., D'Ortenzio F., Iudicone D., Lazzara L., Mangoni O., Marcelli M., Marullo S., Massi L., Mori G., Nardello I., Nuccio C., Ribera d'Alcala' M., Saggiomo V., Santoleri R., Scardi M., Sparnocchia S., Tozzi S., Zoffoli S. 1999- SYMPLEX Experiment: first results on oceanic mesoscale dynamics and related primary production from AVHRR and SeaWiFS satellite data and field experiments. *SPIE* Vol. 3496: 137-148.
- Falciatore A., **Casotti R.**, Leblanc C., Abrescia C e Bowler C. 1999- Transformation of a non-selectable reporter gene in marine diatoms. **Marine Biotechnology**, vol.1 n.3 pp. 239-251
- ***Casotti R.**, Brunet C., Aronne B e Ribera d'Alcalà M. 2000-. Mesoscale features of phytoplankton and planktonic bacteria in a coastal area as induced by external water masses. *Mar. Ecol. P.S.* 195: 15-27.
- Casotti R.** 2000. La citometria a flusso in Ecologia Marina: applicazioni e prospettive. *Lettere GIC* 9(3): 85-92.
- ***Casotti R.**, Brunet and Graziano A. (2001) Ultraplankton of the Gulf of Naples by flow cytometry. In: Faranda F.M., Guglielmo L., Spezie G. (eds) *Structures and processes in Mediterranean ecosystems*. Springer-Verlag, Berlin. pp: 171-180.
- Jacquet S., Partensky F., Marie D., **Casotti R.** and Vaulot D. (2001) Cell cycle regulation by light in *Prochlorococcus* strains. **Appl. Environ. Microbiol.** 67: 782-790.
- ***Casotti R.**, Landolfi A., Brunet C., D'Ortenzio F., Mangoni O., Ribera d'Alcalà M. and Denis M. 2003. Composition and dynamics of the phytoplankton of the Ionian Sea (Eastern Mediterranean). **J. Geophys. Res.** 108(C9), 8116, doi: 10.1029/2002JC001541.
- Brunet C., **Casotti R.**, Aronne B. And Vantrepotte V. (2003) Measured photophysiological parameters used as tools to estimate vertical water movements in the coastal Mediterranean. **J. Plankton Research**, 25(11): 1413-1425
- Ianora, A., A. Miralto, S.A. Poulet, Y. Carotenuto, I. Buttino, G. Romano, **R. Casotti**, G. Pohnert, T. Wichard, L. Colucci D'Amato, G. Terrazzano and V. Smetacek (2004) Aldehyde suppression of copepod recruitment in blooms of a ubiquitous planktonic diatom. **Nature** 429: 403-407.
- Casotti R.**, Brunet C, Bastianini M, D'Ortenzio F, Mazza S, Ianora A and Miralto A. 2004. Apoptosis and cell lysis rates during a diatom bloom in the North Adriatic Sea. **Rapp. Comm. int. Mer Médit.** 37: 329.
- ***Casotti R.**, Mazza S, Brunet C, Vantrepotte V, Ianora A, Miralto A. (2005) Growth autoinhibition and genotoxicity of the diatom aldehyde 2-trans-4-trans decadienal on *Thalassiosira weissflogii* (Bacillariophyceae). **J. Phycol.** 41: 7-20.
- Paffenhöfer, G.-A., A. Ianora, A. Miralto, J. T. Turner, G. S. Kleppel, M. Ribera d'Alcala, **R. Casotti**, G. Caldwell, G. Pohnert, A. Fontana, D. Müller-Navarra, S. Jonasdóttir, V. Armbrust, U. Bamstedt, S. Ban, M. Bentley, M. Boersma, M. Bundy, I. Buttino, A. Calbet, F. Carlotti, Y. Carotenuto, G. d'Ippolito, B. Frost, C. Guisande, W. Lampert, R. Lee, S. Mazza, M.G. Mazzocchi, J. Nejtgaard, S.A. Poulet, G. Romano, V. Smetacek, S. Uye, S. Wakeham, S. Watson, and T. Wichard (2005) Colloquium on diatom-copepod interactions. **Mar. Ecol. Prog. Ser.** 286: 293-305
- Vardi, A., F. Formiggini, **R. Casotti**, A. de Martino, F. Ribalet, A. Miralto and C. Bowler (2006) A stress surveillance system based on calcium and nitric oxide in marine diatoms. **Public Library of Sciences – Biology** 4(3): 1-9 (e60).
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- Brunet C, **Casotti R.**, Vantrepotte V, Corato F, Conversano F. (2006). Picophytoplankton diversity and photoadaptation in the Strait of Sicily (Mediterranean Sea) in summer. I. Mesoscale variations. **Aquat. Microb. Ecol.** 44: 127-141
- Dubelaar G, **Casotti R.**, Tarran G, Biegala I. (2007). Phytoplankton and their analysis by flow cytometry. In: Dolezel J, Greilhuber J, Suda J: *Flow Cytometry with Plant Cells*. Wiley-VCH Verlag GmbH & Co. KGaA, Weinheim, pagg. 287-322
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- Brunet C, **Casotti R.**, Vantrepotte V, Corato F, Conversano F. (2007). Vertical variability and diel dynamics of picophytoplankton in the Strait of Sicily (Mediterranean Sea) in summer. **Marine Ecol. P.S.** 346: 15-26
- *Ribalet F, Berges JA, Ianora A, **Casotti R.** (2007) Growth inhibition of cultured marine phytoplankton by toxic algal-derived polyunsaturated aldehydes. **Aquatic Toxicology** 85(3): 219-227
- *Ribalet F, Intertaglia L, Lebaron P, **Casotti R.** (2008) Differential effect of three polyunsaturated aldehydes on the growth of thirty three marine bacterial strains. **Aquatic Toxicology** 86: 249-255
- *Ianora A, **Casotti R.**, Bastianini M, Brunet C, d'Ippolito G, Acri F, Fontana A, Cutignano A, Turner J, Miralto A. Low reproductive success for copepods during a bloom of the non-aldehyde producing diatom *Cerataulina pelagica* in the North Adriatic Sea. (2008) **Marine Ecology: an evolutionary perspective** 29: 399-410

- Brunet C., **Casotti R.**, Vantrepotte V. (2008). Phytoplankton diel and vertical variability in photobiological responses at a coastal station in the Mediterranean Sea. (2008) **J. Plankton Research** 30(6): 645-654
- D'Alelio D., Amato A., Kooistra W., Procaccini G., **Casotti R.**, and Montresor M. (2008) Internal Transcribed Spacer polymorphism in *Pseudo-nitzschia multistriata* (Bacillariophyceae) in the Gulf of Naples: recent divergence or intraspecific hybridization? **Protist** 160: 9-20
- Legrand C. and **Casotti R.** Climate-induced changes and Harmful Algal Blooms in the Mediterranean: perspectives on future scenarios. In: CIESM workshop monograph series : Phytoplankton responses to Mediterranean environmental changes, Tunis (Tunisia) 7-10 October 2009, ISSN 1726-5886, no 40, 63-66
- *Ribalet F., Vidoudez C., Cassin, D., Pohnert G., Ianora A., Miralto A., and R. **Casotti** (2009) High plasticity in the production of diatom-derived polyunsaturated aldehydes under nutrient limitation: Physiological and ecological implications. **Protist** 160(3): 444-451 doi 10.106/j.protis.2009.01.003
- Casotti R.** La citometria a flusso per lo studio dei microorganismi planctonici. (2010) In: Socal G., Buttino I., Cabrini M., Mangoni O., Penna A., Totti C. (eds.) Metodologie di studio del plancton marino"; Manuali e Linee Guida ISPRA SIBM Roma. Pagg. 311-325
- *Balestra C., Alonso-Saez L., Gasol J. M., **Casotti R.** (2011) Group-specific effects on coastal bacterioplankton of polyunsaturated aldehydes produced by diatoms. *Aquatic Microbial Ecology* 63: 123-131
- Vidoudez C., Casotti R., Bastianini M., Pohnert G. (2011) Quantification of dissolved and particulate polyunsaturated aldehydes in the Adriatic Sea. *Marine Drugs* 9: 500-513
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- Karsenti E., Acinas S.G., Bork P., Bowler C., De Vargas C., Raes J., Sullivan M., Arendt D, Benzoni F, Claverie JM, Follows M, Gorsky G, Hingamp P, Iudicone D, Jaillon O, Kandels-Lewis S, Krzic U, Not F, Ogata H, Pesant S, Reynaud EG, Sardet C, Sieracki ME, Speich S, Velayoudon D, Weissenbach J, Wincker P, and the **Tara Oceans Consortium** (2011). A holistic approach to marine eco-systems biology. *PLOS Biology* Oct;9(10):e1001177. doi: 10.1371/journal.pbio.1001177. Epub 2011 Oct 18.
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- *Ribalet F., Bastianini M., Vidoudez C., Acri F., Berges J., Ianora A., Miralto A., Pohnert G., Romano G., Wichard T, **Casotti R.** (2014). Phytoplankton Cell Lysis Associated with Polyunsaturated Aldehyde Release in the Northern Adriatic Sea. *PLoS One* 9(1): e85947. doi:10.1371/journal.pone.0085947
- Sansone C., Braca A., Ercolesi E., Francone M., Romano G., Palumbo A., **Casotti R.**, Ianora A. (2014) Diatom-derived polyunsaturated aldehydes activate cell death in human cancer cell lines but not normal cells. *PLoS ONE* 9(7): e101220. doi:10.1371/journal.pone.0101220
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