

PERSONAL INFORMATION

Marco Borra



WORK EXPERIENCE

- | | |
|--------------------------|--|
| 15/03/2023 to present | Scientific Attaché, Italian Embassy in Paris
MAECI Foreign Affairs and International Cooperation Ministry |
| 19/01/2023 | Appointed as Italian representative in the EMBRC-ERIC General Assembly
MUR Research and University Ministry |
| 24-25/10/2022 | Invited speaker to the EVENT ON SMART SPECIALIZATION FOR SUSTAINABLE BLUE ECONOMY, Crete, GR
DG MARE European Commission |
| 2022 | Scientific Coordinator PNRR-IR Research Project “EMBRC*-UP” (15 partners – 20.5M€ total budget admitted)
Stazione Zoologica “Anton Dohrn”, Napoli. |
| 2022 | Appointed as member of the enlarged group for Horizon Europe - Cluster 6 “Food, Bioeconomy, Natural Resources, Agriculture and Environment”
APRE - Agenzia per la Promozione della Ricerca Europea |
| 2021 | Appointed as Member of the Directive Council of the Italian National Cluster Blue Growth
Stazione Zoologica “Anton Dohrn”, Napoli |
| 15/11/2021 | Invited speaker at ESFRI Exchange of Experience (EoE) Workshop on Horizon EU Preparatory Phase and Funding
European Strategy Forum on Research Infrastructures |
| 12/07/2021 to 14/03/2023 | Appointed as Coordinator of the Italian National node for the European Consortium EMBRC-ERIC
European Marine Biological Resource Centre - ERIC |
| 15/12/2020 | Invited rapporteur - MSPglobal National Meeting
MIT-UNESCO-IOC-MAECI |

- 03/11/2020 Invited speaker MSPglobal SEMINAR - International cooperation in the context of MSP and Blue Economy in the Western Mediterranean
UNESCO
- 26/08/2020 Scientific Coordinator PON PRIMA Research and marine infrastructure strengthening Human Capital (1.6M€ total budget admitted)
Stazione Zoologica "Anton Dohrn", Napoli.
- 28/05/2020 – 15/03/2023 Appointed member of the *Organismo Paritetico per l'Innovazione* (OPI)
Stazione Zoologica "Anton Dohrn", Napoli.
- 20/06/2019 Scientific Coordinator PON PRIMA Research and marine infrastructure strengthening (15.2M€ total budget admitted)
Stazione Zoologica "Anton Dohrn", Napoli.
- 09/05/2019 Scientific Coordinator for Stazione Zoologica Anton Dohrn (co-proponent) PON InSea Iniziative in supporto al consolidamento e potenziamento dell'infrastruttura EMSO e delle sue attività (15.8M€ total budget admitted)
Stazione Zoologica "Anton Dohrn", Napoli
- 04/06/2019 Invited speaker at Euromediterranean investment Fom, Napoli, Palazzo Piacentini, Sala delle Assemblee, Intesa Sanpaolo, Via Toledo 177
FEBAF – Italian Banking Insurance and Finance Federation
- 29/03/2019 Appointed as Italian National Expert for the MSPglobal initiatives
COI – UNESCO – MAECI - MIT
- 01/10/2018 Scientific Technical Expert (ETS) for the MIUR (Italian Ministry of Research) as Rapporteur of the evaluation committee for the PON 2014-2020 grants
Italian Ministry of Research
- 03/09/2018 -03/09/2021 Head, Research Infrastructures for marine biological resources Department
Stazione Zoologica "Anton Dohrn", Napoli.
- 12/12/2017 to 31/05/2021 Head, Grant and Innovation Office (GIO),
Stazione Zoologica "Anton Dohrn", Napoli.
- 23/11/2017 to 10/07/2019 Appointed as Stazione Zoologica Representative for the coordination of the technical secretary of the Italian National Cluster Blue Growth
Stazione Zoologica "Anton Dohrn", Napoli
- 01/10/2017 to present Senior Technologist (II level) at the Molecular Biology Service. Permanent position
Stazione Zoologica "Anton Dohrn", Napoli.

- 24/05/2017 Appointed as Italian representative in the United Nation Conference *“Our oceans, our future: partnering for the implementation of Sustainable Development Goal 14”* giving a talk on *“G7 Science and Technology Cooperation: The Future of the Ocean”* in the JPI Ocean side event *“G7 Science and Technology Cooperation: the Future of the Ocean”*
United Nation NY.
- 17/05/2017 Appointed member of the Comitato ordinatore per la programmazione dell'organizzazione e reclutamento del nuovo Dipartimento di Biotecnologie marine Stazione Zoologica Anton Dohrn.
- 10/04/2017 Delegato a seguire tutte le attività inerenti la valutazione tecnico estimativa dell'agenzia delle Entrate e relative anche alla gestione delle pratiche necessarie Stazione Zoologica Anton Dohrn.
- 10/04/2017 Delegato a rappresentare la Stazione Zoologica Anton Dohrn per la gestione delle attività legate alla valorizzazione/funionalizzazione dell'ex Turtle Point e aree adiacenti nella zona ex Italsider di Bagnoli INVITALIA - Stazione Zoologica Anton Dohrn.
- 2017 co-author of the European Marine Biological resource Centre (EMBRC-ERIC) Business Plan
European Marine Biological Resource Centre - ERIC.
- 11/2016 to present Member of the steering Board of the OCSE *“Fostering Innovation in the Ocean Economy”* project
Organisation for Economic Co-operation and Development - OECD – Paris
- 17/10/2016 to present Appointed as Italian representative in the working group *“Promote increased G7 political cooperation by identifying additional action needed to enhance future routine ocean observation”* in the framework of *“The future of the Seas and Oceans”* actions of the next G7
G7
- 07/2016 Member of the Organizing Committee for the two day workshop *“Next Challenges in nucleic Acid Sequencing”* – Stazione Zoologica 13-14/07/2016
Stazione Zoologica “Anton Dohrn”, Napoli.
- 18/05/2016 to present In charge of international cooperation and strategic partnership for the SZN
Stazione Zoologica “Anton Dohrn”, Napoli.
- 01/12/2014 to 02/01/2015 Appointed Adjunct Coordinator to the Service and Technological Research Section, Research infrastructure for marine biological resources, with special regards to the Implementation of the EMBRC-ERIC
Stazione Zoologica “Anton Dohrn”, Napoli.
- 11/2014 Invited speaker at International Conference on Mediterranean Sea Marine Research: Scientific Priorities and Societal Challenges - 18th-20th November 2014, Hammamet (Tunisia)
- 24/04/2014 to 12/07/2021t Appointed Italian Liaison Officer for the European Consortium EMBRC
European Marine Biological Resource Centre - ERIC.
- 2012 to 3/09/2017 Technologist at the Molecular Biology Service, Permanent position

Stazione Zoologica "Anton Dohrn", Napoli.

11/2012 **Member of the Organizing Committee and faculty of the International course in methods in microbial ecology. Stazione Zoologica "A. Dohrn" (Italy) November 05-09, 2012**

Stazione Zoologica "Anton Dohrn", Napoli.

05/2012 **Member of the Organizing Committee of the ASSEMBLE Workshop on "Functional Genomics of Marine Model Organisms" Stazione Zoologica "A. Dohrn" (Italy) May 22-23, 2012**

Stazione Zoologica "Anton Dohrn", Napoli.

01/08/2011 to 31/07/2012 **Research Fellowship**

Stazione Zoologica "Anton Dohrn", Napoli.

01/08/2010 to 31/07/2011 **Research Fellowship**

Stazione Zoologica "Anton Dohrn", Napoli.

01/08/2009 to 31/07/2010 **Research Fellowship**

Stazione Zoologica "Anton Dohrn", Napoli.

01/03/2009 to 01/05/2009 **Technologist - Gene Expression Core (GECO) Lab – biogem s.c.a.r.l. Ariano Irpino (Italy) collaboration contract on the project "Qualificazione del personale nelle principali tecnologie richieste per lo studio delle caratteristiche genotipiche di organismi animali e vegetali"**

Biogem Scarl, Ariano Irpino.

06/2008 **Invited teacher at Marine Genomics Network of excellence (NoE) Training Course "Quantification of gene expression by qPCR", June 23 – 27 2008**

European Molecular Biology Laboratory EMBL Heidelberg Germany

05/2008 **Invited speaker at MGE Final General Assembly – Title of the talk "TP: Integration of resources increases opportunities and generate results: the Naples Technology Platform experience" – Faro (Portugal) - May 13-16, 2008**

05/2008 **Invited speaker at Sigma-Aldrich Technical Seminar "LNA and Quantitative PCR" – Title of the talk "WGA applied on qPCR: more reactions less extractions" - May 7, 2008**

Stazione Zoologica "Anton Dohrn", Napoli.

04/2008 **Invited teacher at 9th Advanced Phytoplankton Course sponsored by University of Tromso (Norway); MARBEF Network of Excellence and Stazione Zoologica Anton Dohrn Napoli. Session of Molecular Phylogeny - April 17, 2008**

Stazione Zoologica "Anton Dohrn", Napoli.

02/2008 **Invited speaker at Sigma-Aldrich OnLine Webex qPCR Seminar Series – Title of the talk "qPCR in "non-molecular" model organisms. The example of *Octopus vulgaris*" - February 7, 2008**

Sigma-Aldrich

- 11/2008 Correspondent at EMBL Heidelberg as expert for the GEAR consortium for the internationalization and the definition of the best-practices, organization and development of service for research - September 11/12, 2008
GEAR Consortium.
- 2007 to 2008 Member of the Training and Education Council of the Marine Genomics Network of excellence
Università della Calabria.
- 2006 to 2007 Co-Supervisor of PhD Thesis in Animal Biology at “Università della Calabria”, Department of Cellular Biology. PhD student Maria Sirakov Title: Identificazione e caratterizzazione di FoxP nel sistema nervosa centrale di *Octopus vulgaris* (Mollusca, Cephalopoda)
Stazione Zoologica “Anton Dohrn”, Napoli.
- 2007 Teacher at Università degli Studi di Napoli “Federico II”; Master in Biotechnology applied to marine species reproduction and repopulation
Università degli Studi di Napoli “Federico II.
- 2007 Member of the Organizing Committee for the Marine Genomics Network of excellence (NoE) “PhD and Post-doc Workshop” - Crete (Gr) 08-11/oct/2007
- 2007 Invited teacher at Corso di Laurea in Biologia generale ed applicata; Facoltà di Scienze MM.FF.NN Università degli Studi di Napoli Federico II - SZN-Naples, Italy, July 21, 2007,
Università degli studi di Napoli Federico II
- 2007 Invited teacher at Marine Genomics Network of excellence (NoE) Summer Course “Evo-Devo meets Marine Genomics - comparative functional analysis of gene regulatory networks in marine species” - SZN-Naples, Italy, July 2-13, 2007
Marine Genomics Network of Excellence.
- 2007 Invited teacher at Marine Genomics Network of excellence (NoE) Training Course “Quantification of gene expression by qPCR” - EMBL Heidelberg Germany, April 23 – 26 2007
Marine Genomics Network of Excellence / European Molecular Biology Laboratory EMBL Heidelberg .
- 2006 to 2009 Post-doctoral position as Technologist at the Molecular Biology Service, Stazione Zoologica “A. Dohrn”, Napoli. Responsible of the Lab Automation. Working on Real-Time PCR; Sequencing; library screening; Microsatellites; SNiP’S. Position founded by Marine Genomics Network of excellence (NoE) for the Technology platform # 22 (Founded by: 2006 “Marine Genomics NoE”; 2007 “Prurigenes” and 2008 “Crescendo”)
Stazione Zoologica “Anton Dohrn”, Napoli.
- 2006 to 2007 Advisor, for the robotic automation of molecular biology protocols on Beckman Coulter “BFX” platform within the “GenUfita” project, for the laboratory of the

Prof.ssa G. Persico

CNR - IGB Institute of genetics and biophysics "Adriano Buzzati Traverso", Via Pietro Castellino 111 - 80131 Napoli (Italy).

- 2006 **Advisor, for High Throughput screening and robotic automation of molecular biology assay**
Millipore Italia.
- 2006 **Advisor, for the robotic automation of enzymatic assays on Beckman Coulter "BFX" platform, for the laboratory of the Prof. Altamura**
Istituto di Ricerche in Biologia Molecolare (IRBM/Merck) "P. Angeletti", via Pontina 00040 Pomezia, Roma (Italy).
- 2005 **Visitor scientist, Prof. Jonathan Rast lab for a training and a scientific collaboration regarding Real-Time PCR technology; Micro and Macro Array screening; Bioinformatic analysis and Lab Automation**
Sunnybrook and Women's College Health Sciences Centre, Department of Medical Biophysics, University of Toronto
- 2005 **Advisor, for the robotic automation of molecular biology protocols on Beckman Coulter "BFX" platform, for the laboratory of the Prof. T. Russo**
CEINGE advanced biotechnology, via Comunale Margherita 80100 Napoli (Italy)
- 2005 **Advisor, for the robotic automation of molecular biology protocols on Beckman Coulter "BFX" platform**
Beckman Coulter S.P.A. Cassina dè Pecchi, 20060, Milano.
- 2003 to 2005 **PhD student at Molecular Biology Service, Stazione Zoologica "A. Dohrn", Napoli working at the PhD project and collaborating with all the other activities of the service with particular regards to the robotic automation protocol and the development of high throughput project**
Stazione Zoologica "Anton Dohrn", Napoli.
- 1999 to 2003 **Training in the Marine Botany Laboratory at Stazione Zoologica "A. Dohrn", Napoli working at the degree thesis project and collaborating to numerous other projects**
Stazione Zoologica "Anton Dohrn", Napoli.

EDUCATION AND TRAINING

EDUCATION

- 1976-1983 **Student at French school of Naples A. Dumas**
- 1991 **Secondary School (Classical Studies) final exams at Liceo Ginnasio Statale "Vittorio Emanuele II", via S. Sebastiano 61, Napoli**
- 2002 **Bachelor's degree in Biological sciences at the faculty of "Mathematics Physics and Natural Sciences" University "Federico II" of Naples. (equivalent to a MSc).**
Final year thesis in the Marine Botany laboratory (Director Dr. Donato

Marino; Stazione Zoologica “A. Dohrn”, Naples). Supervisor: Prof. G. Pinto (University “Federico II”, Naples). Research Project title: “Morphological and molecular characterization of a new species of Phaeocystis (Prymnesiophyta) of the mediterranean sea”

- 2002 State Examination to become a Qualified Biologist. Affiliated since 09/09/2002 to Italian National Biologist Order
- 2004 Course “Ist Biomek Summit” – organised by Beckman Coulter; Geneva, Switzerland. September 5; 6 2004
- 2004 Course ‘Bioinformatics - Introduction to sequence and genome analysis’ organised by the Network of Excellence – Marine Genomics Europe; Bremen, Germany, October 18-22, 2004
- 2004 Course ‘Integrated science for SNP Genotyping and Gene Expression’ organised by Applied Biosystems; Naples, Italy, December 14, 2004
- 2005 Course ‘Microarrays - Introduction’ organised by the Network of Excellence – Marine Genomics Europe in Bremenhaven; Germany, March 4-5, 2005
- 2005 PhD in Animal Biology (specialization in Cellular Biology) at “Università della Calabria”, Department of Cellular Biology, in collaboration with the Biochemistry and Molecular Biology Lab (Dr. Ina Arnone) and Molecular Biology Service (Coordinator Dr. Elio Biffali) at Stazione Zoologica “A. Dohrn”, Napoli
Project and PhD. Thesis title: “Search of novel regulators controlling Epithelial Mesenchyme Transition (EMT) using differential array hybridization in the sea urchin embryo”

TRAINING, Management and safety

- 04/2021 Legal Course “*Formazione obbligatoria anticorruzione e trasparenza*”. Studio Avv. Ubaldi - SZN
- 03/2019 Safety course “Formazione Dirigenti” Accordo Stato-Regioni del 21/12/2011 punto 6 “Formazione dei Dirigenti” con riferimento al comma 7 dell’ art. 37 del D.Lgs. 81/08 - SZN
- 06/2018 Strategic Management Course “*Una bussola per navigare. Il management strategico delle organizzazioni di ricerca. La scienza e l’arte della pianificazione*”; external experts - SZN Napoli, Italy, June, 2018

TRAINING

- 10/2014 Biorad ddPCR workshop; Naples Italy, October 16, 2014

- 10/2014 Ion Torrent world tour organised by Life technologies; Bologna Italy, September 30/October 1, 2014
- 06/2014 Freedom EVOware standard 2.6 corso di formazione con prove teoriche e pratiche sui sistemi di automazioni robotiche TECAN-TECAN Italia; Milano, July 21-23, 2014
- 03/2014 Ion RNA library construction training - Life technologies; Darmstadt Germany, March 11-13, 2014
- 12/2013 Ion Torrent Proton Workflow training - Life technologies; Stazione Zoologica Napoli, Italy, December 10-12, 2013
- 11/2013 Ion Torrent Proton Workflow training - Life technologies; Darmstadt Germany, November 27-29, 2013
- 05/2013 Technical seminar "Smarter decision sooner working towards more biological relevance in drug discovery" organised by Tecan; CNR Napoli Italy, May 21, 2013
- 01/2012 Technical seminar "Illumina MiSeq System" organised by Illumina; CNR Napoli Italy, January 25, 2012
- 09/2011 Seminar "La competizione europea sui fondi per Università e Ricerca. Un gap italiano da colmare" organised by Rappresentanza di Milano della Commissione Europea sala blu palazzo rappresentanza commissione europea corso Magenta 59, September 27, 2011
- 09/2010 Technical seminar "Real time studies from sample prep to analysis" organised by Applied Biosystems Sala del Consiglio, Dipartimento di Biologia Strutturale e Funzionale, Università degli Studi di Napoli Federico II Complesso Monte S. Angelo Napoli Italy, September 20, 2010
- 09/2010 Technical seminar "the next generation of molecular diagnostic test, systems, and services" organised by Illumina; Hotel Hilton, Milano Italy, September 13, 2010
- 06/2010 Technical seminar "Sequencing simplified" organised by Illumina; Hotel Marriott, Roma Italy, June 23, 2010
- 05/2010 Technical seminar "Gene expression analysis and HRM" organised by Biorad; Università degli Studi di Napoli, Italy, May 25, 2010
- 02/2010 Course "Genomic Approaches to Evolution and Development", February 7 - 11 2010, EMBL Heidelberg
- 06/2009 Technical seminar "From whole-Genome to Whole-Solution, disease Analysis Tools for the Next Generation" organised by Illumina; Hotel Hilton, Milano, Italy, June 18, 2009
- 04/2009 Technical seminar 'Real Time PCR' organised by Applied Biosystems; Biogem S.C.A.R.L.; Ariano Irpino, Italy, April 1, 2009

- 12/2008 Technical seminar 'SOLIDTM 3 Technology for Ultra High Throughput Sequencing' organised by Applied Biosystems; SUN Napoli, Italy, December 2, 2008
- 05/2006 Technical seminar '2006 Molecular Biology Seminar Tour' organised by Applied Biosystems; IGB; Napoli, Italy, May 26, 2006
- 05/2006 Course "1st Automation school for Biotechnology Research" – organised by the Foundation for Biotechnology; Naples, Italy, May 4, 2006

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C1
Replace with name of language certificate. Enter level if known.					
French	C2	C2	C2	C2	C1
Replace with name of language certificate. Enter level if known.					

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

Digital skills

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

Levels: Basic user - Independent user - Proficient user
[Digital competences - Self-assessment grid](#)

Excellent knowledge of computer science

Driving licence A and B

ADDITIONAL INFORMATION

Publications

- Zingone, Adriana; Borra, Marco; Brunet, Christophe; Forlani, Gandi; Kooistra, Wiebe HCF; Procaccini, Gabriele; PHYLOGENETIC POSITION OF CRUSTOMASTIX STIGMATICA SP. NOV. AND DOLICHOMASTIX TENUILEPIS IN RELATION TO THE MAMIELLALES (PRASINOPHYCEAE, CHLOROPHYTA) 1. Journal of Phycology, 38,5,1024-1039, 2002, Wiley Online Library

- Caputo G, Di Benedetto M, Salvatore G, Mithbaokar P. M, Paino G, Staibano S, Borra M, Maharajan V. Maternal cocaine alters the expression patterns of apoptotic protein Bak in postnatal mouse brain. Italian Journal of Anatomy and Embryology Vol 109 n.1 al fasc. 3. July September 2004
- Zingone, Adriana; Natale, Fortuna; Biffali, Elio; Borra, Marco; Forlani, Gandi; Sarno, Diana; Diversity in morphology, infectivity, molecular characteristics and induced host resistance between two viruses infecting *Micromonas pusilla*. Aquatic microbial ecology, 45,1,1-14, 2006.
- Caputi, Luigi; Borra, Marco; Andreakis, Nikos; Biffali, Elio; Sordino, Paolo; SNPs and Hox gene mapping in *Ciona intestinalis*. BMC genomics,9,1,39, 2008, BioMed Central
- De Gregoris, Tristano Bacchetti; Borra, Marco; Biffali, Elio; Bekel, Thomas; Burgess, J Grant; Kirby, Richard R; Clare, Anthony S; Construction of an adult barnacle (*Balanus amphitrite*) cDNA library and selection of reference genes for quantitative RT-PCR studies. BMC molecular biology, 10,1,62, 2009, BioMed Central
- Tomasello, Agostino; Di Maida, Germana; Calvo, Sebastiano; Pirrotta, Maria; Borra, Marco; Procaccini, Gabriele; Seagrass meadows at the extreme of environmental tolerance: the case of *Posidonia oceanica* in a semi - enclosed coastal lagoon. Marine Ecology, 30,3,288-300, 2009, Wiley Online Library
- Sirakov, Maria; Zarrella, Ilaria; Borra, Marco; Rizzo, Francesca; Biffali, Elio; Amone, Maria Ina; Fiorito, Graziano; Selection and validation of a set of reliable reference genes for quantitative RT-PCR studies in the brain of the Cephalopod Mollusc *Octopus vulgaris*. BMC Molecular Biology, 10,1,70, 2009, BioMed Central
- Lauritano, Chiara; Borra, Marco; Carotenuto, Ylenia; Biffali, Elio; Miralto, Antonio; Procaccini, Gabriele; Ianora, Adrianna; First molecular evidence of diatom effects in the copepod *Calanus helgolandicus*. Journal of Experimental Marine Biology and Ecology, 404,1,79-86, 2011, Elsevier
- Tesson, Sylvie VM; Borra, Marco; Kooistra, Wiebe HCF; Procaccini, Gabriele; Microsatellite primers in the planktonic diatom *Pseudo-nitzschia multistriata* (Bacillariophyceae). American journal of botany,98,2,e33-e35, 2011, Botanical Society of America
- Lauritano, Chiara; Borra, Marco; Carotenuto, Ylenia; Biffali, Elio; Miralto, Antonio; Procaccini, Gabriele; Ianora, Adrianna; Molecular evidence of the toxic effects of diatom diets on gene expression patterns in copepods. PLoS One,6,10,e26850, 2011, Public Library of Science
- Saied, Almokhtar; Maffucci, Fulvio; Hochscheid, Sandra; Dryag, Salih; Swayeb, Bashir; Borra, Marco; Ouerghi, Atef; Procaccini, Gabriele; Bentivegna, Flegra; Loggerhead turtles nesting in Libya: an important management unit for the Mediterranean stock. Marine Ecology Progress Series ,450,207-218, 2012
- Anna Italiano, Davide Di Cioccio, Marco Borra, Elio Biffali, Gabriele Procaccini, Adriana Zingone. AFLP reveals intraspecific variations in geographically diverse *Ostreopsis cf. ovata* populations. ISSHA (International Society for the Study of Harmful Algae) 2013
- Guida, Maurizio; Marra, Marialuisa; Zullo, Fulvio; Guida, Marco; Trifuoggi, Marco; Biffali, Elio; Borra, Marco; De Mieri, Giovanna; D'Alessandro, Raffaella; De Felice, Bruna; Association between exposure to dioxin-like polychlorinated biphenyls and miR-191 expression in human peripheral blood mononuclear cells. Mutation Research/Genetic Toxicology and Environmental Mutagenesis,753,1,36-41, 2013, Elsevier
- Sirakov*, Maria; Borra*, Marco; Cambuli, Francesca Maria; Plateroti, Michelina; Defining suitable reference genes for RT-qPCR analysis on intestinal epithelial cells. Molecular biotechnology,54,3,930-938, 2013, Humana Press Inc - * equal contribution
- Bošnjak, Ivana; Pleić, Ivana Lepen; Borra, Marco; Mladineo, Ivona; Quantification and in situ localisation of *abcb1* and *abcc9* genes in toxicant-exposed sea urchin embryos. Environmental

Science and Pollution Research,20,12,8600-8611, 2013, Springer Berlin Heidelberg

- Vuttariello, Emilia; Borra, Marco; Calise, Celeste; Mauriello, Elvira; Greggi, Stefano; Vecchione, Aldo; Biffali, Elio; Chiappetta, Gennaro; A new rapid methodological strategy to assess BRCA mutational status. *Molecular biotechnology*,54,3,954-960, 2013, Humana Press Inc
- Cecchini, Stefano; Paciolla, Mariateresa; Biffali, Elio; Borra, Marco; Ursini, Matilde V; Lioi, Maria B; Ontogenetic profile of innate immune related genes and their tissue-specific expression in brown trout, *Salmo trutta* (Linnaeus, 1758). *Fish & shellfish immunology*, 35,3,988-992, 2013, Academic Press
- Adelfi, Maria Grazia; Borra, Marco; Sanges, Remo; Montresor, Marina; Fontana, Angelo; Ferrante, Maria Immacolata; Selection and validation of reference genes for qPCR analysis in the pennate diatoms *Pseudo-nitzschia multistriata* and *P. arenysensis*. *Journal of Experimental Marine Biology and Ecology*,451,74-81, 2014, Elsevier
- De Felice, Bruna; Mondola, Paolo; Sasso, Anna; Orefice, Giuseppe; Bresciamorra, Vincenzo; Vacca, Giovanni; Biffali, Elio; Borra, Marco; Pannone, Raimondo; Small non-coding RNA signature in multiple sclerosis patients after treatment with interferon- β . *BMC medical genomics*,7,1,26, 2014, BioMed Central
- Bošnjak, Ivana; Borra, Marco; Iamunno, Franco; Benvenuto, Giovanna; Ujević, Ivana; Bušelić, Ivana; Roje-Busatto, Romana; Mladineo, Ivona; Effect of bisphenol A on P-glycoprotein-mediated efflux and ultrastructure of the sea urchin embryo. *Aquatic toxicology*,156,21-29, 2014, Elsevier
- De Felice, Bruna; Annunziata, Anna; Fiorentino, Giuseppe; Borra, Marco; Biffali, Elio; Coppola, Cinzia; Cotrufo, Roberto; Brettschneider, Johannes; Giordana, Maria Luisa; Dalmay, Tamas; miR-338-3p is over-expressed in blood, CFS, serum and spinal cord from sporadic amyotrophic lateral sclerosis patients. *Neurogenetics*,15,4,243-253, 2014, Springer Berlin Heidelberg
- De Felice, Bruna; Annunziata, Anna; Fiorentino, Giuseppe; Manfellotto, Francesco; D'Alessandro, Raffaella; Marino, Rita; Borra, Marco; Biffali, Elio; Telomerase expression in amyotrophic lateral sclerosis (ALS) patients. *Journal of human genetics*,59,10,555-561, 2014, Nature Publishing Group
- De Felice, Bruna; Mondola, Paolo; Sasso, Anna; Orefice, Giuseppe; Bresciamorra, Vincenzo; Vacca, Giovanni; Biffali, Elio; Borra, Marco; Pannone, Raimondo; Dohm, Zoological Station Anton; ,Small non-coding RNA signature in Multiple Sclerosis patients after treatment with Interferon- β . *BMC Medical genomics*, DOI: 10.1186/1755-8794-7-26 2014.
- Marco Guida, Paolo Losanno Cannavacciuolo, Mara Cesarano, Marco Borra, Elio Biffali ,Giovanna De Mieri, Raffaella D'Alessandro and Bruna De Felice; Microbial diversity of landslide soils assessed by RFLP and SSCP fingerprints. *Journal of Applied Genetics*,55,Issue 3,403-415, 2014, Springer
- De Felice, Bruna; Borra, Marco; Manfellotto, Francesco; Anna, Santangelo; Biffali, Elio; Guida, Marco; Assessment of genetic diversity between wild and cultivated artichokes using SSR markers. *Genetic Resources and Crop Evolution*,63,8,1363-1369, 2016, Springer Netherlands
- D'Agostino, Ylenia; Locascio, Annamaria; Ristatore, Filomena; Sordino, Paolo; Spagnuolo, Antonietta; Borra*, Marco; D'Aniello*, Salvatore; A rapid and cheap methodology for CRISPR/Cas9 zebrafish mutant screening. *Molecular biotechnology*,58,1,73-78, 2016, Springer US *Corresponding
- Maffucci, Fulvio; Corrado, Raffaele; Palatella, Luigi; Borra, Marco; Marullo, Salvatore; Hochscheid, Sandra; Lacorata, Guglielmo; Iudicone, Daniele; Seasonal heterogeneity of ocean warming: a mortality sink for ectotherm colonizers. *Scientific reports*,6, 2016, Nature Publishing Group
- Pepi, Milva; Borra, Marco; Tamburrino, Stella; Saggiomo, Maria; Viola, Alfio; Biffali, Elio; Balestra, Cecilia; Sprovieri, Mario; Casotti, Raffaella; A *Bacillus* sp. isolated from sediments of the Sarno River mouth, Gulf of Naples (Italy) produces a biofilm biosorbing Pb (II). *Science of the Total Environment*,562,588-595, 2016, Elsevier

- Karaa, Sami; Maffucci, Fulvio; Jribi, Imed; Bologna, Marco Alberto; Borra, Marco; Biffali, Elio; Bradaï, Mohamed Nejmeddine; Hochscheid, Sandra; Connectivity and stock composition of loggerhead turtles foraging on the North African continental shelf (Central Mediterranean): implications for conservation and management. *Marine Ecology*, 37, 5, 1103-1115, 2016.
- Pepi, Milva; Heipieper, Hermann J; Balestra, Cecilia; Borra, Marco; Biffali, Elio; Casotti, Raffaella; Toxicity of diatom polyunsaturated aldehydes to marine bacterial isolates reveals their mode of action. *Chemosphere*, 177 (2017) 258-265, 2017 Elsevier.
- Emilia Vuttariello, Marco Borra, Elvira Mauriello, Celeste Calise, Barbara D'Andrea, Anna Capiluongo, Franco Fulciniti, Anna Cipolletta, Mario Monaco, Luciano Pezzullo, and Gennaro Chiappetta; Multiplex PCR approach to simultaneously identify several mutations in fine needle cytology thyroid samples" by, *Oncotarget Journal*, doi: 10.18632/oncotarget.17656 Published 06/05/2017
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- Giorgio Maria Vingiani, Serena Leone, Daniele De Luca, Marco Borra, Alan D.W. Dobson, Adrianna Ianora, Pasquale De Luca, and Chiara Lauritano; First identification and characterization of detoxifying plastic-degrading DBP hydrolases in the marine diatom *Cylindrotheca closterium*: *Science of the Total Environment* accepted 15/03/2022
- Francesco Caruso^{1†}, Pietro Tedesco^{2 †}, Gerardo Della Sala², Fortunato Palma Esposito², Marco Signore¹, Simonepietro Canese³, Teresa Romeo⁴, Marco Borra³, Claudia Gili^{1 *} and Donatella de Pascale², Science and Dissemination for the UN Ocean Decade Outcomes: Current Trends and Future Perspectives – *Frontiers* accepted 05/2022*.
- Maria Eugenia Gulino, Giuseppe Martucciello, Dick Tibboel, Elio Biffali, Patrizia Morbini, Roberta Patti, Marco Borra, and Maria Grazia Scuderi. TITF1 Screening in Human Congenital Diaphragmatic Hernia (CDH) – *Children MDPI* – accepted 07/2022

Meeting and communications

- Italian Botanical Society– annual scientific reunion- Gruppo di lavoro per l'algologia. 10-11 November 2000 Ancona, Italy. Caratterizzazione morfologica e molecolare di una nuova specie di *Phaeocystis* del Mediterraneo M. Borra, A. Zingone, G. Forlani Stazione Zoologica "A. Dohrn"- Napoli (Italy)
- Italian Histochemistry Society– XXIX° National Congress. 23-25 April 2001, Capri, Italy
- Italian Botanical Society– annual scientific reunion - Gruppo di lavoro per l'algologia. 19-21 Ottobre 2001 Sassari, Italy Analisi filogenetica di *Crustomastix* sp. nov. e *Dolichomastix tenuilepis*, due Mamiellales (Prasinophyceae) del Golfo di Napoli A. Zingone, M. Borra, C. Brunet, G. Forlani, W. Kooistra, G. Procaccini Stazione Zoologica "A. Dohrn"- Napoli (Italy)

- Italian National Biologist Order – XV° International Congress. 03-06 October 2002 Umago, Croazia
- Italian Botanical Society– annual scientific reunion - Gruppo di lavoro per l'algologia. 08-09 November 2002 Chioggia, Italy
- Faculty of Medicine and surgery, Pharmacy, Veterinary Medicine, Agriculture “Scientific days of the Pole of the Sciences and the Technologies for the Life”. Napoli 20-21 may 2004
- 2nd International Meeting on Veterinary Morpho-functional Biotechnologies. July 1-3, 2004 Real Orto Botanico Napoli, Italy
- Marine Genomics Network of Excellence (NoE). Workshop “New Year Genboree in Naples” Genome annotation Strategies with special reference to *Strongylocentrotus purpuratus* 16-20 January 2006, Stazione Zoologica “A. Dohrn”, Naples Italy.
- Marine Genomics International conference, Sorrento (NA) Italy, 28 october – 1 november 2006
- Marine Genomics Europe Exploratory Workshop: Transcriptomics Approaches for the Analysis of Marine Systems, EMBL Heidelberg Germany, February 23 – 25 2007
- Marine Genomics Europe Exploratory Workshop: High-Throughput sequencing applied to marine organisms, a European perspective, Station Biologique de Roscoff, France, April 15 – 17 2007
- Marine Genomics Europe Final General Assembly – Faro (Portugal) - May 13-16, 2008 awards, memberships, references. Remove headings not relevant in the left column.
- M. Di Benedetto, G. Salvatore, P. M. Mithbaokar, M. Borra, G. Caputo, V. Maharajan Expression of apoptotic proteins Bak and Bcl-w in developing mouse brain. ISDN 2004: 15th Biennial Meeting of the International Society for Developmental Neuroscience 4-7 August 2004, Heriot Watt University, Edinburgh, Scotland, UK.
- M. Di Benedetto, G. Salvatore, P. M. Mithbaokar, M. Borra, A. Luongo, V. Maharajan, S. Staibano, G. Caputo Expression of Bak and Bcl-W protein in developing mouse brain. Faculty of Medicine and surgery, Pharmacy, Veterinary Medicine, Agriculture “Scientific days of the Pole of the Sciences and the Technologies for the Life”. Napoli 20-21 may 2004
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- M. Borra. Identification of differentially expressed genes by macroarray screening and screenings by High Throughput sequencing. Marine Genomics Network of excellence (NoE); PhD and Post-docs Workshop, MPI-Berlin, October 2005
- M. Borra, E. Mauriello, R. Pannone, E. Biffali. Stazione Zoologica “A. Dohrn” Napoli High throughput plasmid purification using Millipore Montage Plasmid Miniprep Kit* and Beckman Coulter’s Biomek® FX Laboratory Automation Workstation equipped with ORCA® robotic arm.

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- M. Borra, E. Mauriello, R. Pannone, E. Biffali. Stazione Zoologica "A. Dohrn" Napoli High throughput sequence reaction cleanup using Millipore Montage SEQ96 Sequencing Reaction Cleanup Kit* and Beckman Coulter's Biomek® FX Laboratory Automation Workstation equipped with ORCA® robotic arm. T3 Update, Biorobotics On-line application note, Beckman Coulter. 2006
- M. Borra, E. Mauriello, E. Biffali From clones to sequences: A fully automated way drives you through high throughput plasmid purification, normalization, sequences reactions setup and cleanup with Beckman Coulter's Biomek® FX Liquid handler equipped with ORCA® robotic arm. 1st European Biomek User Summit 5 - 6 September 2006, Geneva, Switzerland
- Adriana Zingone, Fortuna Natale, Elio Biffali, Marco Borra, Gandi Forlani, Diana Sarno, 2006. Diversity in morphology, infectivity, molecular characteristics and induced host resistance between two viruses infecting *Micromonas pusilla*. Marine Genomics International conference, Sorrento (NA) Italy, 28 October – 1 November 2006 Poster honored of the third prize.
- M. Borra. Identification of differentially expressed genes by macroarray screening and screenings by High Throughput sequencing. Marine Genomics Network of excellence (NoE); Marine Genomics Exploratory Workshop: Transcriptomics Approaches for the Analysis of Marine Systems, EMBL Heidelberg Germany, February 23 – 25 2007
- M. Borra, E. Mauriello, F. Campili, E. Biffali. Stazione Zoologica "A. Dohrn" Napoli High throughput genomic DNA purification, PCR and fragments analysis reaction setup on microalgae using Macherey-Nagel Nucleospin 96 Plant Kit* and Beckman Coulter's Biomek® FX* Laboratory Automation Workstation equipped with ORCA® robotic arm. Marine Genomics Network of excellence (NoE) Newsletter N°30, April 2007
- M. Borra, E. Mauriello, E. Biffali From clones to sequences: A fully automated way drives you through high throughput plasmid purification, normalization, sequences reactions setup and cleanup with Beckman Coulter's Biomek® FX Liquid handler equipped with ORCA® robotic arm. Marine Genomics Europe Exploratory Workshop: High-Throughput sequencing applied to marine organisms, a European perspective; Station Biologique de Roscoff, France, April 15 – 17 2007
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- M. Borra. "New techniques on technology platform" Newsletter published by MGE network of excellence. MGE network of excellence is funded by the European Commission under the sixth framework programme contract n° GOCE – CT – 2004 – 505 403 (Editorial coordination: Catherine Boyen, SBR, France Michèle Barbier, SBR, France Marielle Guichoux, SBR, France Anne Saisi, SBR, France) 2008
- Lauritano, C; Borra, M; Carotenuto, Y; Biffali, E; Miralto, A; Procaccini, G; Ianora, A; Stress genes in the copepod *Calanus helgolandicus*, 2010
- Bošnjak, Ivana; Lepen Pleić, Ivana; Borra, Marco; Mladineo, Ivona. Quantification and in situ localization of *ABCB1* and *ABCC9* genes in toxicant-exposed rocky sea urchin (*Paracentrotus lividus*) embryos. Assemble Conference, Access to Marine Resources Generating Knowledge for Science and Society. Olao, Portugal, 23-25.10.2012
- Bošnjak, Ivana; Lepen Pleić, Ivana; Borra, Marco; Iamunno, Franco; Benvenuto, Giovanna; Mladineo, Ivona. The impacts of bisphenol A (BPA) on response genes involved in chemical defense and cell-cycle regulation during rocky (*Paracentrotus lividus*) sea urchin embryonic development. Assemble Conference, Access to Marine Resources Generating Knowledge for

Science and Society. Olhao, Portugal, 25-25.10.2012

- Bošnjak, Ivana; Pleić, Ivana Lepen; Borra, Marco; Mladineo, Ivona; Quantification and in situ localization of ABCB1 and ABCC9 genes in toxicant-exposed rocky sea urchin (*Paracentrotus lividus*) embryos. "Assemble Conference, Access to Marine Resources Generating Knowledge for Science and Society" 2012.
- Bošnjak, Ivana; Pleić, Ivana Lepen; Borra, Marco; Iamunno, Franco; Benvenuto, Giovanna; Mladineo, Ivona; The impacts of bisphenol A (BPA) on response genes involved in chemical defense and cell-cycle regulation during rocky (*Paracentrotus lividus*) sea urchin embryonic development. "Assemble Conference, Access to Marine Resources Generating Knowledge for Science and Society", 2012.
- Bošnjak, Ivana; Pleić, Ivana Lepen; Borra, Marco; Benevenuto, Giovanna; Mladineo, Ivona; ,Toxicity of bisphenol A (BPA) on urchin embryo gene expression and morphology,2nd International Symposium "VERA JOHANIDES" 2013
- Bošnjak, Ivana; Borra, Marco; Iamunno, Franco; Ujević, Ivana; Bušelić, Ivana; Mladineo, Ivona; Effect of bisphenol A (BPA) on urchin embryo genes expression and ultrastructure. 5th FEBS Special Meeting: ATP-Binding Cassette (ABC) Proteins: From Multidrug Resistance to Genetic Diseases, 2014

Contribution in books

Stevens, B., C. Jolly et J. Jolliffe (2021), « A new era of digitalisation for ocean sustainability? : Prospects, benefits, challenges », OECD Science, Technology and Industry Policy Papers, n° 111, Éditions OCDE, Paris, <https://doi.org/10.1787/a4734a65-en> .

OECD (2019), Rethinking Innovation for a Sustainable Ocean Economy, OECD Publishing, Paris. <https://doi.org/10.1787/9789264311053-en>

OECD (2021) Blueprint for improved measurement of the international ocean economy: An exploration of satellite accounting for ocean economic activity. OECD Publishing, Paris. <https://dx.doi.org/10.1787/aff5375b-en>

Memberships

- CTLS Association Core Technologies for Life Science – Board of Director Member
- Italian National Order of Biologists
- SIBIOC Society

Agreements

- Responsabile convenzione Marina Militare – Stazione Zoologica Anton Dohrn
- Responsabile Convenzione Autorità Portuale di Salerno – Stazione Zoologica Anton Dohrn

Reviewer

- o PLoS ONE
- o Molecular Ecology
- o Molecular Biotechnology
- o Journal of Microbiology
- o Member of the editorial board of Journal of Coastal Life Medicine (JCLM)
- o Registered in REPRISSE the Register of Scientific Experts set up at the MIUR
- o Member of the European Science Foundation (ESF) College of Expert Reviewers.

ANNEXES

Principali indici scientometrici:

numero totale pubblicazioni ISI	45
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IF totale	92.8
IF medio delle pubblicazioni ISI	2.9
H index (scholar)	18
numero citazioni totale (ISI)	478
numero medio citazioni (ISI) per pubblicazione	14.5
Numero citazioni totali (Scholar)	910
numero medio citazioni (Scholar) per pubblicazione	23.5

A conoscenza di quanto prescritto agli art 46 e seguenti del D.P.R. 28 dicembre 2000 n. 445, sulla responsabilità penale cui può andare incontro in caso di falsità in atti e di dichiarazioni mendaci, nonché di quanto prescritto dall'art. 75 del D.P.R. 28 dicembre 2000 n. 445, sulla decadenza dai benefici eventualmente conseguenti al provvedimento emanato sulla base di dichiarazioni non veritiere, ai sensi e per gli effetti del citato D.P.R. n. 445/2000 art 46 e seguenti, e sotto la propria personale responsabilità dichiaro che tutte le informazioni contenute nel proprio curriculum vitae sono veritiere.

Presto consenso all'utilizzo dei dati personali ai sensi del Decreto legislativo 196/2003 e s.m.i.

Napoli 16/10/2022