

# Curriculum Vitæ

**Name: Marco Borra**

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**Place and date of birth:** Napoli, Italy - 10/01/1972

## 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 Bremen; 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"

## Technical seminar and trainings

- 2006** Course “Ist Automation school for Biotechnolgy Research” – organised by the Foundation for Biotechnolgy; Naples, Italy, May 4, 2006
- 2006** Technical seminar ‘2006 Molecular Biology Seminar Tour’ organised by Applied Biosystems; IGB.;Napoli, Italy, May 26, 2006
- 2008** Technical seminar ‘SOLIDTM 3 Technology for Ultra High Throughput Sequencing’ organised by Applied Biosystems; SUN.;Napoli, Italy, December 2, 2008
- 2009** Technical seminar ‘Real Time PCR’ organised by Applied Biosystems; Biogem S.C.A.R.L.; Ariano Irpino, Italy, April 1, 2009.
- 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
- 2010** Course “Genomic Approaches to Evolution and Development”, February 7 - 11 2010, EMBL Heidelberg
- 2010** Technical seminar “Gene expression analysis and HRM” organised by Biorad; Università degli Studi di Napoli, Italy, May 25, 2010
- 2010** Technical seminar “Sequencing simplified” organised by Illumina; Hotel Marriott, Roma Italy, June 23, 2010
- 2010** Technical seminar “the next generation of molecular diagnostic test, systems, and services” organised by Illumina; Hotel Hilton, Milano Italy, September 13, 2010
- 2010** Technical seminar “Real time studies from sample prep to analysis” organised by Appried Biosystems Sala del Consiglio, Dipartimento di Biologia Strutturale e Funzionale, Università degli Studi di Napoli Federido II Complesso Monte S. Angelo Napoli Italy, September 20, 2010
- 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
- 2012** Technical seminar Illumina MiSeq System” organised by Illumina; CNR Napoli Italy, January 25, 2012
- 2013** Technical seminar “Smarter decision sooner working towards more biological relevance in drug discovery” organised by Tecan; CNR Napoli Italy, May 21, 2013
- 2013** Ion Torrent user group meeting organised by Life technologies; Bologna Italy, June 5-6, 2013
- 2013** Ion Torrent Proton Workflow training - Life technologies; Darmstadt Germany, November 27-29, 2013
- 2013** Ion Torrent Proton Workflow training - Life technologies; Stazione Zoologica Napoli, Italy, December 10-12, 2013
- 2014** Ion RNA library construction training - Life technologies; Darmstadt Germany, March 11-13, 2014

**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

**2014** Ion Torrent world tour organised by Life technologies; Bologna Italy, September 30/October 1, 2014

**2014** Biorad ddPCR workshop; Naples Italy, October 16, 2014

- ❖ Good knowledge of written and spoken French
- ❖ Good knowledge of written and spoken English
- ❖ Excellent knowledge of computer science.

### **Professional experiences**

**1999 – 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.

**2003 – 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.

**2005:** Advisor, for the robotic automation of molecular biology protocols on Beckman Coulter “BFX” platform, for the Beckman Coulter S.P.A. Cassina dè Pecchi, 20060, Milano

**2005:** Advisor, for the robotic automation of molecular biology protocols on Beckman Coulter “BFX” platform, for the laboratory of the Prof. T. Russo at CEINGE advanced biotechnology, via Comunale Margherita 80100 Napoli (Italy).

**2005:** Visitor scientist, Prof. Jonathan Rast lab at the Sunnybrook and Women's College Health Sciences Centre, Department of Medical Biophysics, University of Toronto for a training and a scientific collaboration regarding Real-Time PCR technology; Micro and Macro Array screening; Bioinformatic analysis and Lab Automation.

**2006:** Advisor, for the robotic automation of enzymatic assays on Beckman Coulter “BFX” platform, for the laboratory of the Prof. Altamura at Istituto di Ricerche in Biologia Molecolare (IRBM/Merck) “P. Angeletti”, via Pontina 00040 Pomezia, Roma (Italy).

**2006:** Advisor, for High Throughput screening and robotic automation of molecular biology assay, for Millipore Italia.

**2006 – 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. G. Persico at CNR / IGB Institute of genetics and biophysics “Adriano Buzzati Traverso”, Via Pietro Castellino 111 - 80131 Napoli (Italy).

- 2006 – 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”)
- 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
- 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
- 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
- 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:** Teacher at Università degli Studi di Napoli “Federico II”; Master in Biotechnology applied to marine species reproduction and repopulation.
- 2007 – 2008:** Member of the Training and Education Council of the Marine Genomics Network of excellence
- 2006 – 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).
- 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
- 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
- 2008:** Invited teacher at 9th Advanced Phytoplankton Course sponsored by University of Tromso (Norway); MARBEF Network of Excellence and Stazione Zoologica A Dohrn Napoli. Session of Molecular Phylogeny – Stazione Zoologica A. Dohrn Napoli - April 17, 2008
- 2008:** Invited speaker at Sigma-Aldrich Technical Seminar “LNA and Quantitative PCR” – Title of the talk “WGA applied on qPCR: more reactions less extractions - Stazione Zoologica A. Dohrn, Napoli- May 7, 2008
- 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

- 2008:** Invited teacher at Marine Genomics Network of excellence (NoE) Training Course “Quantification of gene expression by qPCR” - EMBL Heidelberg Germany, June 23 – 27 2008
- 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” March – May 2009
- 2009:** “Assegno di ricerca - Stazione Zoologica “A. Dohrn” (Italy) 12 month starting from 01/08/2009
- 2010:** “Assegno di ricerca - Stazione Zoologica “A. Dohrn” (Italy) 12 month starting from 01/08/2010
- 2011:** “Assegno di ricerca - Stazione Zoologica “A. Dohrn” (Italy) 12 month starting from 01/08/2011
- 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
- 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
- 2012 to present:** Technologist at the Molecular Biology Service, Stazione Zoologica “A. Dohrn”, Napoli.  
Permanent position
- 24/04/2014 to present:** Appointed Italian Liaison Officer for the European Consortium EMBRC
- 2014:** Invited speaker at International Conference on Mediterranean Sea Marine Research: Scientific Priorities and Societal Challenges - 18th-20th November 2014, Hammamet (Tunisia)
- 01/12/2014-02/01/2015:** 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
- 18/05/2016 to present:** In charge of international cooperation and strategic partnership for the SZN
- 07/2016:** Member of the Organizing Committee for the two day workshop “Next Challenges in nucleic Acid Sequencing” – Stazione Zoologica 13-14/07/2016
- 17/10/2016:** 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.
- 11/2016:** Member of the steering Board of the OCSE “*Fostering Innovation in the Ocean Economy*” project

## Meetings 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 *Strongilocentrotus 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

## Papers

- ❖ 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; Arnone, 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- $\beta$ , *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; Dohrn, 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; Ristoratore, 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; Bradai, 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**.
- ❖ 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*, **submitted**

## Posters and technical communications

- ❖ 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
- ❖ M. Di Benedetto, G. Salvatore, P. M. Mithbaokar, **M. Borra**, G. Caputo, M. Russo, S. Staibano, V. Maharajan Expression of apoptotic proteins Bak and Bcl-w in postnatal developing mouse brain 2nd International Meeting on Veterinary Morpho-functional Biotechnologies. July 1-3, 2004 Real Orto Botanico Napoli, Italy
- ❖ 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. 58<sup>o</sup> Meeting of Italian Society of Anatomy 17-18-19 September 2004, Campus Universitario Chieti, Italy.
- ❖ M.I. Arnone, E. Biffali, **M. Borra**, A. Falciatore, P. Sordino, A. Spagnuolo. “The Stazione Zoologica (SZN) Technology Platform”. Marine Genomics Network of excellence (NoE); Rennes 2004
- ❖ Zingone A, Biffali E, **Borra M**, Forlani G, Natale F, Sarno D. Do viruses control phytoplankton blooms? The case of *Micromonas pusilla*. 1st European Workshop on Aquatic Phage Ecology 1-4 February 2005, Chateau de Ripaille, Thonon les Bains, France.
- ❖ **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, 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<sup>®</sup> FX Liquid handler equipped with ORCA<sup>®</sup> robotic arm. 1st European Biomek User Summit 5 - 6 September 2006, Geneva, Switzerland.
- ❖ **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<sup>®</sup> FX Laboratory Automation Workstation equipped with ORCA<sup>®</sup> robotic arm. Marine Genomics Network of excellence (NoE) Newsletter N°18, January 27th 2006
- ❖ **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<sup>®</sup> FX Laboratory Automation Workstation equipped with ORCA<sup>®</sup> robotic arm. T3 Update, Biorobotics On-line application note, Beckman Coulter. 2006
- ❖ 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**
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- Journal of Microbiology

Member of the editorial board of Journal of Coastal Life Medicine (JCLM)