

## **CURRICULUM VITAE**

### 1. Personal information

#### **MARIANNA PAULETTO**

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Nationality: Italian

Date of birth: 21/02/1985

### 2. Education

**DOCTORAL DEGREE** in Veterinary science at the Department of Comparative Biomedicine and Food Science, University of Padova (Italy). Date of dissertation defense: 08/04/2014

**MASTER DEGREE** in Food Biotechnology at the University of Padova (Italy)  
Faculty of Agriculture, Medicine and Veterinary Medicine (15/09/2009)

**FIRST DEGREE** in Healthcare Biotechnology at the University of Padova (Italy)  
Faculty of Medicine and Surgery, Pharmacy, Veterinary Medicine (12/07/2007)

**HIGH SCHOOL DEGREE** at the Liceo "F. Corradini", indirizzo classico, Thiene (Italy) (July, 2004)

### 3. Research activity and training

*11/06/2018 – present*

**Assistant Professor** (fixed term – Italian RTDa position) at the Department of Comparative Biomedicine and Food Science, University of Padova (Italy). SSD VET/07

*01/01/2018 – 31/05/2018*

**Research** fellow at the Department of Comparative Biomedicine and Food Science, University of Padova (Italy).

*01/01/2016 – 31/12/2017*

**Senior research** fellow at the Department of Comparative Biomedicine and Food Science, University of Padova (Italy).

*08/05/2017 – 12/05/2017*

**Workshop attendance:** “Introductory Population Genomics: From Data to Inference” (Berlin, Germany)

*01/01/2014 – present*

**Referee** for the following scientific journals: BMC genomics, Fish and Shellfish Immunology, Gene, Journal of Experimental Biology, Marine genomics, Molecular Ecology, Peer J.

01/01/2014 – 31/12/2015

**Junior research fellow** at the Department of Comparative Biomedicine and Food Science, University of Padova (Italy).

01/01/2011 – 31/01/2013

**PhD student** at the Department of Comparative Biomedicine and Food Science, University of Padova (Italy).

03/11/2012 – 13/05/2013

**Visiting student** at the IFREMER - Technopôle Brest-Iroise (Britanny, France).

06/06/2011 – 15/06/2011

**Visiting student** at the commercial bivalve hatchery SCALPRO AS (Norway)

11/04/2011 – 16/04/2011

**Visiting student** at IMARES (Institute for Marine Resources & Ecosystem Studies), part of Wageningen University (The Netherlands)

01/12/2009 – 31/12/2010

**Fellow** at the Istituto Zooprofilattico Sperimentale delle Venezie, Legnaro (Italy).

#### 4. Funded projects

**Principal Investigator** of the EC-Funded AQUAEXCEL2020 “MeditGen” project (December 2017 - 8<sup>th</sup> call – proposal identification code: AE080035).

#### 5. Publications

*Peer reviewed publications (21)*

1. **PAULETTO M**, Lopparelli RM, Pegolo S, Armani M, Zorzan E, Giantin M, Bertotto D, Gallochio F, Zancanella V, Capolongo F, Binato G, Mutinelli F, Dacasto M. Significance of the goby *Zosterisessor ophiocephalus* as a sentinel species for Venice Lagoon contamination: Combining biomarker responses and bioaccumulation. *Sci Total Environ* 2019 Jan 4; 660: 959-973. doi: 10.1016/j.scitotenv.2019.01.033.
2. **PAULETTO M**, Manousaki T, Ferraresso S, Babbucci M, Tsakogiannis A, Louro B, Vitulo N, Quoc VH, Carraro R, Bertotto D, Franch R, Maroso F, Aslam ML, Sonesson, AK, Simionati B, Malacrida G, Cestaro A, Caberlotto S, Sarropoulou E, Mylonas CC, Power DM, Patarnello T, Canario AVM, Tsigenopoulos C, Bargelloni L. Genomic analysis of *Sparus aurata* reveals the evolutionary dynamics of sex-biased genes in a sequential hermaphrodite fish. *Commun Biol*. 2018 Aug 17;1:119. doi: 10.1038/s42003-018-0122-7.
3. **PAULETTO M**, Di Camillo B, Miner P, Huvet A, Quillien V, Milan M, Ferraresso S, Pegolo S, Patarnello T, Bargelloni L. Understanding the mechanisms involved in the high sensitivity of

- Pecten maximus* larvae to aeration. *Aquaculture* 2018 Dec 1; 497: 189-199. doi: 10.1016/j.aquaculture.2018.07.059.
4. Moreira R, Pereiro P, Balsiero P, Milan M, PAULETTO M, Bargelloni L, Novoa B, Figueras A. Revealing *Mytilus galloprovincialis* transcriptomic profiles during ontogeny. *Dev Comp Immunol*. 2018. doi:10.1016/j.dci.2018.01.016.
  5. Delisle L, Fuhrmann M, Quéré C, PAULETTO M, Pichereau V, Pernet F, Corporeau C. The Voltage-Dependent Anion Channel (VDAC) of Pacific Oysters *Crassostrea gigas* Is Upaccumulated During Infection by the Ostreid Herpesvirus-1 (OsHV-1): an Indicator of the Warburg Effect. *Mar Biotechnol*. 2018. <https://doi.org/10.1007/s10126-017-9789-x>
  6. Lafont M, Petton B, Vergnes A, PAULETTO M, Segarra A, Gourbal B, Montagnani C. Long-lasting antiviral innate immune priming in the Lophotrochozoan Pacific oyster, *Crassostrea gigas*. *Sci Rep*. 2017 Oct 13;7(1):13143. doi: 10.1038/s41598-017-13564-0.
  7. PAULETTO M, Segarra A, Montagnani C, Quillien V, Faury N, Le Grand J, Miner P, Petton B, Labreuche Y, Fleury E, Fabioux C, Bargelloni L, Renault T, Huvet A. Long dsRNAs promote an anti-viral response in Pacific oyster hampering ostreid herpesvirus 1 replication. *J Exp Biol*. 2017 Aug 10. pii: jeb.156299. doi: 10.1242/jeb.156299.
  8. Basso A, Babbucci M, PAULETTO M, Riginella E, Patarnello T, Negrisolo E. The highly rearranged mitochondrial genomes of the crabs *Maja crispata* and *Maja squinado* (Majidae) and gene order evolution in Brachyura. *Sci Rep*. 2017 Jun 22;7(1):4096. doi: 10.1038/s41598-017-04168-9.
  9. PAULETTO M, Milan M, Huvet A, Corporeau C, Suquet M, Planas JV, Moreira R, Figueras A, Novoa B, Patarnello T, Bargelloni L. Transcriptomic features of *Pecten maximus* oocyte quality and maturation. *PLoS One*. 2017 Mar 2;12(3):e0172805. doi: 10.1371/journal.pone.0172805.
  10. Boonmee A, Heude Berthelin C, Kingtong S, PAULETTO M, Bernay B, Adeline B, Suquet M, Sourdain P, Kellner P. Differential protein expression during sperm maturation and capacitation in an hermaphroditic bivalve, *Pecten maximus* (Linnaeus, 1758). *J Molluscan Stud* 2016; 82 (4): 575-584. doi: 10.1093/mollus/eyw028
  11. Pegolo S, Cecchinato A, Mach N, Babbucci M, PAULETTO M, Bargelloni L, Schiavon S, Bittante G. Transcriptomic Changes in Liver of Young Bulls Caused by Diets Low in Mineral and Protein Contents and Supplemented with n-3 Fatty Acids and Conjugated Linoleic Acid. *PLoS One*. 2016 Dec 8;11(12):e0167747. doi:10.1371/journal.pone.0167747.
  12. Babbucci M, Ferrareso S, PAULETTO M, Franch R, Papetti C, Patarnello T, Carnier P, Bargelloni L. An integrated genomic approach for the study of mandibular prognathism in the European seabass (*Dicentrarchus labrax*). *Sci Rep*. 2016 Dec 8;6:38673. doi: 10.1038/srep38673.
  13. Milan M, Matozzo V, PAULETTO M, Di Camillo B, Giacomazzo M, Boffo L, Binato G, Marin MG, Patarnello T, Bargelloni L. Can ecological history influence response to pollutants? Transcriptomic analysis of Manila clam collected in different Venice lagoon areas and exposed to heavy metal. *Aquat Toxicol*. 2016 May; 174:123-33. doi: 10.1016/j.aquatox.2016.02.024.
  14. PAULETTO M, Carraro L, Babbucci M, Lucchini R, Bargelloni L, Cardazzo B (2105). Extending RAD tag analysis to microbial ecology: a comparison between MultiLocus Sequence Typing (MLST) and 2b-RAD to investigate *Listeria monocytogenes* genetic structure. *Mol Ecol Resour*. 2015 Nov 27. doi: 10.1111/1755-0998.12495.
  15. de Sousa JT, Milan M, PAULETTO M, Bargelloni L, Joaquim S, Matias D, Matias AM, Quillien V, Leitão A, Huvet A (2015). A microarray-based analysis of oocyte quality in the European clam *Ruditapes decussatus*. *Aquaculture*, ISSN: 0044-8486, doi: 10.1016/j.aquaculture.2015.04.018.

16. Avio CG, Gorbi S, Milan M, Benedetti M, Fattorini D, d'Errico G, PAULETTO M, Bargelloni L, Regoli F. Pollutants bioavailability and toxicological risk from microplastics to marine mussels. *Environ Pollut*. 2015 Mar;198:211-22. doi: 10.1016/j.envpol.2014.12.021.
17. Milan M, PAULETTO M, Boffo L, Carrer C, Sorrentino F, Ferrari G, Pavan L, Patarnello T, Bargelloni L. Transcriptomic resources for environmental risk assessment: a case study in the Venice lagoon. *Environ Pollut*. 2015 Feb;197:90-8. doi: 10.1016/j.envpol.2014.12.005.
18. PAULETTO M, Milan M, de Sousa JT, Huvet A, Joaquim S, Matias D, Leitão A, Patarnello T, Bargelloni L. Insights into molecular features of *Venerupis decussata* oocytes: a microarray-based study. *PLoS One*. 2014 Dec 3;9(12):e113925.
19. de Sousa JT, Milan M, Bargelloni L, PAULETTO M, Matias D, Joaquim S, Matias AM, Quillien V, Leitão A, Huvet A. A Microarray-Based Analysis of Gametogenesis in Two Portuguese Populations of the European Clam *Ruditapes decussatus*. *PLoS One*. 2014 Mar 18;9(3):e92202.
20. PAULETTO M, Milan M, Moreira R, Novoa B, Figueras A, Babbucci M, Patarnello T, Bargelloni L. Deep transcriptome sequencing of *Pecten maximus* hemocytes: A genomic resource for bivalve immunology. *Fish Shellfish Immunol*. 2014 Mar;37(1):154-65. doi: 10.1016/j.fsi.2014.01.017. Epub 2014 Jan 31.
21. Milan M, PAULETTO M, Patarnello T, Bargelloni L, Marin MG, Matozzo V. Gene transcription and biomarker responses in the clam *Ruditapes philippinarum* after exposure to ibuprofen. *Aquatic Toxicology* 2013, 15;126:17-29.

#### *Abstracts on international journal (2)*

1. PAULETTO M, Milan M, Babbucci M, Figueras A, Novoa B, Balseiro P, Jacobsen A, Magnesen T, Huvet A, Patarnello T, Bargelloni L. Transcriptomic analysis of *Pecten maximus* hemocytes. In: FISH & SHELLFISH IMMUNOLOGY Volume 34, Issue 6, Pages 1671, JUN 2013.
2. Lopparelli RM, Pegolo S, Armani S, Bertotto D, Giantin M, PAULETTO M, Zancanella V, Zorzan E, Capolongo F, Binato G, Mutinelli F, Dacasto M. Molecular and biochemical biomarkers in environmental monitoring: a study with a benthic fish living in the Venice Lagoon. In: 12th International Congress of the European Association for Veterinary Pharmacology and Toxicology, JOURNAL OF VETERINARY PHARMACOLOGY AND THERAPEUTICS, vol. 35 (Spl.3), p. 64-65, ISSN: 0140-7783, Noordwijkerhout, NL, July 8-12, 2012.

#### 11. Conferences

##### *Oral presentations at national or international conferences (4)*

1. PAULETTO M. Il genoma dell'orata: una risorsa per l'acquacoltura moderna (The gold sea bream genome: a resource for modern aquaculture). Invited speaker at AQUAFARM (3rd edition), Pordenone, Italy, 13-14 February 2019.
2. PAULETTO M, Di Camillo B, Miner P, Huvet A, Milan M, Ferrareso S, Pegolo S, Patarnello T, Bargelloni L. Understanding the mechanisms involved in high sensitivity to aeration in *Pecten maximus* early larval stages. In: Physiomar 17. Cambridge, UK, 18-21 September 2017.
3. PAULETTO M, Milan M, Babbucci M, Figueras A, Novoa B, Balseiro P, Jacobsen A, Magnesen T, Huvet A, Patarnello T, Bargelloni L. Transcriptomic analysis of *Pecten maximus* hemocytes. In: 1st Conference of Fish and Shellfish Immunology. Vigo, Spain, 25-28 June 2013.

4. PAULETTO M, Milan M, Figueras A, Novoa B, Leitao A, Huvet A, Patarnello T, Bargelloni L. Transcriptomic analysis of *Ruditapes decussatus* oocytes. In: Physiomar 12. Santiago de Compostela, Spain, 4-8 September 2012.

*Chapter in a book (1)*

1. Milan M, Avio CG, Gorbi S, PAULETTO M, Benedetti M, d'Errico G, Fattorini D, Patarnello T, Regoli L, Bargelloni L. Exploring the Effects of Microplastics on the Hepatopancreas Transcriptome of *Mytilus galloprovincialis*. In: *Fate and Impact of Microplastics in Marine Ecosystems (1<sup>st</sup> Edition)*. Editors: Baaztan J, Jorgensen B, Pahl S, Thompson R, Vanderlinden J. January 2017. DOI:10.1016/B978-0-12-812271-6.00058-2

*Poster presentations (4)*

1. Milan M, PAULETTO M, Boffo L, Carrer C, Sorrentino F, Ferrari G, Pavan L, Patarnello T, Bargelloni L. Impiego della trascrittomica nella valutazione del rischio ambientale. In: SIRAM (Società Italiana Ricerca Applicata Molluschicoltura) Chioggia (Italy), 06 November 2015.

2. Milan M, PAULETTO M, Dalla Rovere G, Ferrareso S, Boffo L, Patarnello T, Bargelloni L. Identificazione di marcatori genetici nella vongola filippina *R. philippinarum*. In: SIRAM (Società Italiana Ricerca Applicata Molluschicoltura) Chioggia (Italy), 06 November 2015.

3. Bargelloni L, PAULETTO M, Milan M, Babbucci M, Balseiro P, Blanco A, Huvet A, Jacobsen A, Kamermans P, King J, Leitao A, Magnesen T, Moreira R, Novoa B, Figueras A. Nuove risorse genomiche per specie bivalvi: il progetto Europeo ReProSEED. In: SIRAM (Società Italiana Ricerca Applicata Molluschicoltura) Teramo (Italy), 10 November 2012.

4. PAULETTO M, Milan M, Figueras A, Novoa B, Leitao A, Huvet A, Patarnello T, Bargelloni L. Analisi del trascrittoma di oociti in *R. decussatus*. In: SIRAM (Società Italiana Ricerca Applicata Molluschicoltura) Teramo (Italy), 10 November 2012.

**Autorizzo il trattamento dei dati personali contenuti nel mio curriculum vitae in base art. 13 del D. Lgs. 196/2003**