

TOMASO PATARNELLO

- Place and date of birth: **Lecce, 20/2/1961**
- Degrees: **Bachelor in Biological Sciences** (12/06/1984)
University of Padova
PhD in Evolutionary Biology (November 1988)
University of Padova,
- Present position: **Full Professor of Animal Biology**
(from November 2002)
University of Padova,
Faculty of Veterinary Medicine (until 2015)
- Current academic appointment: **Vice-Rector (Pro-Rettore)**
Campus and off-town University activities
(from October 2015)
- Current non-academic appointments: **Board member** (Consigliere di Indirizzo e Programmazione)
of “**Fondazione Cassamarca**” bank foundation
(from September 2018)
- Board member of CoRILA** (Consortium for coordination of
research activities focused on Venice lagoon system)
- Previous appointments: **Director of the Department**
*of Comparative Biomedicine
and Food Science*
University of Padova
(January 2012 - September 2015)
- Director of the Department**
*of Public Health, Comparative Pathology
and Veterinary Hygiene*
(June 2008 - December 2011)
- President of the Bachelor Degree Course in
Biotechnology**
(September 2008 - December 2011)
- President of the Master Degree Course in
Food Biotechnology**
(September 2005 - December 2008)
- Previous academic positions: **Visiting Professor**
Univerisdade Estadual Paulista
São Paulo (Brazil)
(September 2014 – September 2017)
- Associate Professor of Zoology**
Department of Biology – University of Padova
(November 1998 - October 2002)
- Assistant Professor of Genetics**
Department of Biology – University of Padova
(May 1991 – October 1998)
- Visiting research fellow**
Hopkins Marine Station,
Stanford University, California, (USA)
(1992)

Post Doctoral fellow
Department of Ecology and Evolution
State University of New York (USA);
(1990-1991)

Major scientific interests

1. Genomics and transcriptomics of marine animals with particular emphasis on Southern Ocean species;
2. Evolution in extreme environments;
3. Adaptation of marine species to climate change and anthropogenic impact;
4. Sea-food traceability and sea-food contamination.

Bibliometric indexes to January 2021

- Number of publications with IF: **146** (Scopus)
- H-index: **40** (Scopus), **42** (ISI), **52** (Scholar)
- Sum of the Times Cited: **6845** (Scopus), **6606** (ISI), **10195** (Scholar)

Membership

Member of the "Istituto Veneto di Scienze Lettere ed Arti" (Venetian Academy of Science)

Member of the "Accademia Galileiana"

Member of several national and international scientific associations

Administrative appointments

Vice-Rector

The role of Vice-Rector with responsibility for "Campus and off-town activities" involved the direct relationship with Regional authorities, Municipalities, hospital Directors and bank Foundations that, in various, ways collaborate with the University of Padua.

Department Director

As Director of Department, I was responsible for all activities carried out by academic and non-academic staff belonging to the Department. The Department direction imply also administrative duties among which the approval annual budget. During the direction of the Department of Public Health, Comparative Pathology, and Veterinary Hygiene (2008-2011), employees were 37 Faculties and 15 units of Technical-Administrative staff; the annual budget was between 1.5 and 1.9 million of Euro. During the direction of the Department of Comparative Biomedicine and Food Science (2011-20125) there were more than 100 employees (permanent and temporary staff), including 40 Faculties and 25 units of Technical-Administrative staff; the annual budget was between 2.5 and 3.0 million euros.

Research grants

- 1995 - EU grant - AIR3 Title: "A comprehensive genetic study of cultured and wild stocks of gilthead sea-bream (*Sparus aurata*) and genetic assessment of several related species as candidates for aquaculture"; 141.500 Euro
- 1996 - Telethon grant - "Phylogenetic footprints of the dystrophin gene muscle promoter"; 80.000 euro
- 1996 - EU grant - MAST3 Title: " Impact of a Climatic Gradient on the Physiological Ecology of a Pelagic Crustacean"; 141.000 Euro

1996 – EU grant - FAIR Title: “The use of molecular markers for the study of population structure of European anchovy (*Engraulis encrasicolus*) in the Mediterranean and adjacent seas”. 75.500 Euro

2000 - EU grant - STUDIES Title: “Fishery and population structure of Scomber spp. in the Mediterranean and S. Iberian Atlantic waters”; 50.600 Euro

2000 – EU grant – FPV Title: “Functional analysis of introns and gene regulatory sequences aimed at targeted modulation of gene expression”; 245.000 Euro

2001 - EU grant – FPV Title: “BRIDGEMAP - Bridging genomes: an integrated genomic approach towards genetic improvement of aquacultured fish species”. 300.000 Euro

2003 - EU grant - Marine Genomics Europe (network of excellence)

2004 - NSF (USA) grant - Time/Space patterns of Microsatellite DNA variation in relation to Patch structure of Southern Ocean Krill, *Euphasia Superba*, 50,000 USD

2004 - EU grant – FP VI Title: “AQUAFIRST - Combined genetic and functional genomic approaches for stress and disease resistance marker assisted selection in fish and shellfish”, 100.000 Euro

2007 - EU grant – FP VI Title: “SEACASE - Sustainable extensive and semi-intensive coastal aquaculture in Southern Europe”, 65.000 Euro

2008 - EU grant – FP VII Title: “ FishPopTrace - The Structure of Fish Populations and Traceability of Fish and Fish Products”; 230.000 Euro

2009 - NSF (USA) grant – “Population analysis of the Antarctic silverfish *Pleuragramma antarcticu*”; 60.000 USD

2012 - EU grant – FP VII Title: “A Coast to Coast Network of protected areas: from the shore to the deep sea”; 100.000 euro.

2013 - CNPq grant (Brazil) - Gene expression profiling of marine-estuarine bivalves from Brazil: applications of basic sciences as a tool in environmental monitoring, 102.000 USD

2014 - PNRA grant - “Response of Antarctic notothenioids to thermal stress: an integrated molecular approach to investigate the effects of increasing temperatures in *Trematomus bernacchii* and *Chionodraco hamatus*”. MIUR, 96.000 Euro.

2017 - PNRA grant. How key components of the coastal Antarctic food web respond to global change: an “omic” approach. MIUR, 80.000 euro (P.I. Prof. M. Gerdol UniTS, 20.000 euro granted to UniPD unit).

2017 - PNRA grant - Journey to the cold and back: comparative genomics and transcriptomics in Antarctic and sub-Antarctic notothenioids. MIUR, 138.000 euro.

Awards

1990 – Research Fellowship (one year) granted by Fondazione "A. Gini"

1989 – International award "G. Gatto" granted by the Italian Academy of Science “Accademia Nazionale dei Lincei”;

1985 – PhD Fellowship (three years) granted by the Italian Ministry of University and Research - Dottorato in Biologia Evoluzionistica

Project evaluator for the following International research agencies:

Austrian Research Council
 Belgian Federal Office for Scientific, Technical and Cultural Affairs
 European Commission EU-DGXIV (Fishery and Aquaculture),
 European Commission, EU-DGXIV (Marine Science and Technology),
 European Commission, EU-DG Research
 European Science Foundation (ESF)
 National Science Foundation (USA)
 Natural Environment Research Council (NERC), UK

International collaborations

- *AGRIFISH Unit, Institute for the Protection and the Security of the Citizen (IPSC), Directorate General Joint Research Centre (EC-DG-JRC), Commission of the European Communities*
- *Centro de Ciências de Mar (CCMAR), Universidade de Algarve, Faro, Portugal*
- *CNRS “Recombinaisons Génétiques”, Rennes, France*
- *CNRS Génome & Populations, Université Montpellier, France*
- *CNRS Région Bretagne et Pays de la Loire, France*
- *Consejo Superior De Investigaciones Científicas, CSIC, Spain*

- *Danish Institute for Fisheries Research, Technical University of Denmark, Silkeborg, Denmark (DIFRES, DTU)*
- *Department of Aquatic Sciences, University of Algarve, Porto, Portugal*
- *Department of Biochemistry and Molecular Biology, Universidad Complutense de Madrid (UCM)*
- *Department of Cell Biology, University of Malaga, Spain*
- *Department of Ecology and Evolutionary Biology, Yale University, New Haven, USA*
- *Department of Marine Food Sciences and Technology, French Research Institute for the Exploitation of the Sea, Nantes, France (IFREMER).*
- *Department of Marine Science University of Connecticut Groton, USA*
- *Department of Marine Sciences, University of South Florida, St. Petersburg, Florida, USA*
- *Institute of Marine Biology, Biologische Anstalt, Helgoland, Germany*
- *Institut Français de Recherche pour l'Exploitation de la Mer, FREMER, Brest, France*
- *Institut Français de Recherche pour l'Exploitation de la Mer, FREMER Tremblade, France*
- *Institut National de la Recherche Agronomique, INRA-Rennes, France*
- *Institut National de la Recherche Agronomique, INRA-CRJJ, France*
- *Institute of Marine Biology of Crete, Greece*
- *Katholieke Universiteit Leuven (K.U.Leuven), Belgium*
- *Max-Planck-Institut für Entwicklungsbiologie, Tübingen, Germany*
- *Molecular Biology and Biotechnology Laboratory of ANFACO-CECOPESCA (Spanish National Association of Fish and Seafood Processors - Spanish National Centre of Fish Processing Technology), Vigo, Spain.*
- *Molecular Ecology and Fisheries Genetics Laboratory (MEFGL), University of Wales Bangor, UK*
- *Museo Nacional de Ciencias Naturales, Madrid, Spain*
- *National Agricultural Research Foundation Fisheries Research Institute, Kavala, Greece*
- *National Agricultural Research Foundation-Fisheries Research Institute (NAGREF)*
- *National Center for Mariculture, Eilat, Israel*
- *National University of Ireland, Galway, Ireland*
- *Plymouth Marine Laboratory, UK*
- *Roslin Institute, Edinburgh, LT, UK*
- *Russian Federal Research Institute for Fisheries and Oceanography (VNIRO), Moscow, The Russian Federation.*
- *State University of New York, Department of Ecology and Evolution, USA*
- *The Marine Genomics Europe (MGE) Consortium*
- *The Natural Environment Research Council, UK*
- *The Scottish Association for Marine Science, Oban, UK*
- *The University of Aberdeen, UK*
- *Université Pierre e Marie Curie -Paris VI, Laboratoire d'Océanographie Biochimique et d'Ecologie, Villeranche, France*
- *University of Aarhus (DJF), Denmark*
- *University of Bergen (UiB), Norway*
- *University of Bremen (UNI.HB), Germany*
- *University of Konstanz, Department of Biology, Germany*
- *Uppsala University, Sweden*
- *Wageningen University, The Netherlands,*
- *YIBS-Molecular Systematics and Conservation Genetics, Yale University, USA*

Teaching activity

	Title	Degree
1998 – 2021	Zoology	Veterinary Medicine
	Animal Biology	Biotechnology (Bachelor course)
	Animal Biology	Food Hygiene and Food Safety (Bachelor course)
	Animal Biology	Animal Science and Technology (Bachelor course)
	Phylogenetic Reconstruction	Food Biotechnology (Master Course)
	Applied Biotechnology	PhD in Veterinary Sciences
1991-1997	Genetics	Biology (Master Course)

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The full list of publications is available at the following link:

https://scholar.google.com/citations?hl=it&user=YMall1YAAAAAJ&view_op=list_works&sortby=pubdate

Publications

Ferraresso, S., Bargelloni, L., Babbucci, M., Cannas, R., Follesa, M.C., Carugati, L., Melis, R., Cau, A., Koutrakis, M., Sapounidis, A., Crosetti, D., Patarnello, T. 2020. Fshr: a fish sex-determining locus shows variable incomplete penetrance across flathead grey mullet populations. **iScience**, 24 (1), art. no. 101886. DOI: 10.1016/j.isci.2020.101886.

Mezzelani, M., Nardi, A., Bernardini, I., Milan, M., Peruzza, L., d'Errico, G., Fattorini, D., Gorbi, S., Patarnello, T., Regoli, F. 2020. Environmental pharmaceuticals and climate change: The case study of carbamazepine in *M. galloprovincialis* under ocean acidification scenario. **Environment International**, 146, art. no. 106269. DOI: 10.1016/j.envint.2020.106269

Iori, S., Rovere, G.D., Ezzat, L., Smits, M., Ferraresso, S.S., Babbucci, M., Marin, M.G., Masiero, L., Fabrello, J., Garro, E., Carraro, L., Cardazzo, B., Patarnello, T., Matozzo, V., Bargelloni, L., Milan, M. 2020. The effects of glyphosate and AMPA on the mediterranean mussel *Mytilus galloprovincialis* and its microbiota. **Environmental Research**, 182, art. no. 108984. DOI: 10.1016/j.envres.2019.108984

Bargelloni, L., Babbucci, M., Ferraresso, S., Papetti, C., Vitulo, N., Carraro, R., Pauletto, M., Santovito, G., Lucassen, M., Mark, F.C., Zane, L., Patarnello, T. 2019. Draft genome assembly and transcriptome data of the icefish *Chionodraco myersi* reveal the key role of mitochondria for a life without hemoglobin at subzero temperatures. **Communications Biology**, 2 (1), art. no. 443. DOI: 10.1038/s42003-019-0685-y

Milan, M., Smits, M., Dalla Rovere, G., Iori, S., Zampieri, A., Carraro, L., Martino, C., Papetti, C., Ianni, A., Ferri, N., Iannaccone, M., Patarnello, T., Brunetta, R., Ciofi, C., Grotta, L., Arcangeli, G., Bargelloni, L., Cardazzo, B., Martino, G. 2019. Host-microbiota interactions shed light on mortality events in the striped venus clam *Chamelea gallina*. **Molecular Ecology**, 28 (19), pp. 4486-4499. DOI: 10.1111/mec.15227

Lind, A.L., Lai, Y.Y.Y., Mostovoy, Y., Holloway, A.K., Iannucci, A., Mak, A.C.Y., Fondi, M., Orlandini, V., Eckalbar, W.L., Milan, M., Rovatsos, M., Kichigin, I.G., Makunin, A.I., Johnson Pokorná, M., Altmanová, M., Trifonov, V.A., Schijlen, E., Kratochvíl, L., Fani, R., Velenský, P., Reháč, I., Patarnello, T., Jessop, T.S., Hicks, J.W., Ryder, O.A., Mendelson, J.R., III, Ciofi, C., Kwok, P.-Y., Pollard, K.S., Bruneau, B.G. 2019. Genome of the Komodo dragon reveals adaptations in the cardiovascular and chemosensory systems of monitor lizards. **Nature Ecology and Evolution**, 3 (8), pp. 1241-1252. DOI: 10.1038/s41559-019-0945-8.

Milan, M., Maroso, F., Dalla Rovere, G., Carraro, L., Ferraresso, S., Patarnello, T., Bargelloni, L., Cardazzo, B., Fariselli, P. 2019. Tracing seafood at high spatial resolution using NGS-generated data and machine learning: Comparing microbiome versus SNPs. **Food Chemistry**, 286, pp. 413-420. DOI: 10.1016/j.foodchem.2019.02.037

Pauletto, M., Di Camillo, B., Miner, P., Huvet, A., Quillien, V., Milan, M., Ferraresso, S., Pegolo, S., Patarnello, T., Bargelloni, L. 2018. Understanding the mechanisms involved in the high sensitivity of *Pecten maximus* larvae to aeration. **Aquaculture**, 497, 189-199.

Papetti, C., Babbucci, M., Harms, L., Lucassen, M., Dettai, A., Auvinet, J., Heindler, F.M., Patarnello, T., Negrisolo, E. 2018. The Evolution of Mitochondrial Genomes of Notothenioid fish. **Integrative and Comparative Biology**, 58, E392.

Pauletto, M., Manousaki, T., Ferraresso, S., Babbucci, M., Tsakogiannis, A., Louro, B., Vitulo, N., Viet Ha Quoc, Carraro, R., Bertotto, D., Franch, D., Maroso, F., Aslam M., Sonesson, A.K., Simionati, B., Malacrida G., Cestaro, A., Caberlotto, S., Sarropoulou, E., Mylonas, C.C., Power, D.M., Patarnello, T., Canario, A.V.M., Tsigenopoulos, C., Bargelloni, L. 2018. Genomic analysis of *Sparus aurata* reveals the evolutionary dynamics of sex-biased genes in a sequential hermaphrodite fish. (2018) **Communications biology**, 1 (1): 119

Milan, M., Dalla Rovere, G., Smits, M., Ferraresso, S., Pastore, P., Marin, M.G., Bogialli, S., Patarnello, T., Bargelloni, L., Matozzo, V. 2018. Ecotoxicological effects of the herbicide glyphosate in non-target aquatic

- species: transcriptional responses in the mussel *Mytilus galloprovincialis*. **Environmental Pollution**, 237, 442-451.
- Carraro, R., Dalla Rovere, G., Ferraresso, S., Carraro, L., Franch, R., Toffan, A., Pascoli, F., Patarnello, T., Bargelloni, L. 2018. Development of a real-time PCR assay for rapid detection and quantification of *Photobacterium damsela* subsp. piscicida in fish tissues. **Journal of fish diseases**, 41 (2), 247-254. doi: 10.1111/jfd.12703. Epub 2017 Aug 30.
- Milan, M., Carraro, L., Fariselli, P., Martino, M.E., Cavalieri, D., Vitali, F., Boffo, L., Patarnello, T., Bargelloni, L., Cardazzo, B. 2018. Microbiota and environmental stress: how pollution affects microbial communities in Manila clams. **Aquatic Toxicology** 194:195-207, doi: 10.1016/j.aquatox.2017.11.019. Epub 2017 Nov 27.
- Basso, A., Babbucci, M., Pauletto, M., Riginella, E., Patarnello, T., Negrisolo, E. 2017. The highly rearranged mitochondrial genomes of the crabs *Maja crispata* and *Maja squinado* (Majidae) and gene order evolution in Brachyura. **Scientific Reports**, 7 (1), art. no. 4096. DOI: 10.1038/s41598-017-04168-9
- Saavedra, C., Milan, M., Leite, R.B., Cordero, D., Patarnello, T., Leonor Cancela, M., Bargelloni, L. 2017. A microarray study of carpet-shell Clam (*Ruditapes decussatus*) shows common and organ-specific growth-related gene expression differences in gills and digestive gland. **Frontiers in Physiology**, 8, art. no. 943. DOI: 10.3389/fphys.2017.00943
- Paterno, M., Schiavina, M., Aglieri, G., Ben Souissi, J., Boscari, E., Casagrandi, R., Chassanite, A., Chiantore, M., Congiu, L., Guarneri, G., Kruschel, C., Macic, V., Marino, I.A.M., Papetti, C., Patarnello, T., Zane, L., Melià, P. 2017. Population genomics meet Lagrangian simulations: Oceanographic patterns and long larval duration ensure connectivity among *Paracentrotus lividus* populations in the Adriatic and Ionian seas. **Ecology and Evolution**, 7 (8), pp. 2463-2479. DOI: 10.1002/ece3.2844
- Pauletto, M., Milan, M., Huvet, A., Corporeau, C., Suquet, M., Planas, J.V., Moreira, R., Figueras, A., Novoa, B., Patarnello, T., Bargelloni, L. 2017. Transcriptomic features of *Pecten maximus* oocyte quality and maturation. **PLoS ONE**, 12 (3), art. no. e0172805. DOI: 10.1371/journal.pone.0172805
- Babbucci, M., Ferraresso, S., Pauletto, M., Franch, R., Papetti, C., Patarnello, T., Carnier, P., Bargelloni, L. 2016. An integrated genomic approach for the study of mandibular prognathism in the European seabass (*Dicentrarchus labrax*). **Scientific Reports**, 6, art. no. 38673. DOI: 10.1038/srep38673
- Milan, M., Palazzo, F., Papetti, C., Grotta, L., Marchetti, S., Patarnello, T., Bargelloni, L., Martino, G. 2016. Transcriptomic profiling of *Chamelea gallina* from sites along the Abruzzo coast (Italy), subject to periodic localized mortality events. **Marine Biology**, 163 (9), art. no. 196. DOI: 10.1007/s00227-016-2971-2
- Polgar, G., Zane, L., Babbucci, M., Barbisan, F., Patarnello, T., Rüber, L., Papetti, C. 2016. Corrigendum to "Phylogeography and demographic history of two widespread Indo-Pacific mudskippers (Gobiidae: Periophthalmus)". **Molecular Phylogenetics and Evolution**, 100, p. 268. DOI: 10.1016/j.ympev.2016.04.021
- Montelli, S., Peruffo, A., Patarnello, T., Cozzi, B., Negrisolo, E. 2016. Back to water: Signature of adaptive evolution in cetacean mitochondrial tRNAs. **PLoS ONE**, 11 (6), art. no. e0158129, DOI: 10.1371/journal.pone.0158129
- Milan, M., Matozzo, V., Pauletto, M., Di Camillo, B., Giacomazzo, M., Boffo, L., Binato, G., Marin, M.G., Patarnello, T., Bargelloni, L. 2016. Can ecological history influence response to pollutants? Transcriptomic analysis of Manila clam collected in different Venice lagoon areas and exposed to heavy metal. **Aquatic Toxicology**, 174, pp. 123-133. DOI: 10.1016/j.aquatox.2016.02.024
- Parker, M.L., Fraser, W.R., Ashford, J., Patarnello, T., Zane, L., Torres, J.J. 2015. Assemblages of micronektonic fishes and invertebrates in a gradient of regional warming along the Western Antarctic Peninsula. **Journal of Marine Systems**, 152, pp. 18-41. DOI: 10.1016/j.jmarsys.2015.07.005
- Churcher, A.M., Pujolar, J.M., Milan, M., Huertas, M., Hubbard, P.C., Bargelloni, L., Patarnello, T., Marino, I.A.M., Zane, L., Canário, A.V.M. 2015. Transcriptomic profiling of male European eel (*Anguilla anguilla*) livers at sexual maturity. **Comparative Biochemistry and Physiology - Part D: Genomics and Proteomics**, 16, pp. 28-35. DOI: 10.1016/j.cbd.2015.07.002

- Sattin, G., Bakiu, R., Tolomeo, A.M., Carraro, A., Coppola, D., Ferro, D., Patarnello, T., Santovito, G. 2015. Characterization and expression of a new cytoplasmic glutathione peroxidase 1 gene in the Antarctic fish *Trematomus bernacchii*. **Hydrobiologia**, 761 (1), pp. 363-372. DOI: 10.1007/s10750-015-2488-6
- Agostini, C., Patarnello, T., Ashford, J.R., Torres, J.J., Zane, L., Papetti, C. 2015. Genetic differentiation in the ice-dependent fish *Pleuragramma antarctica* along the Antarctic Peninsula. **Journal of Biogeography**, 42 (6), pp. 1103-1113. DOI: 10.1111/jbi.12497
- Milan, M., Pauletto, M., Boffo, L., Carrer, C., Sorrentino, F., Ferrari, G., Pavan, L., Patarnello, T., Bargelloni, L. 2015. Transcriptomic resources for environmental risk assessment: A case study in the Venice lagoon. **Environmental Pollution**, 197, pp. 90-98. DOI: 10.1016/j.envpol.2014.12.005
- Souche, E.L., Hellemans, B., Babbucci, M., Macaoidh, E., Guinand, B., Bargelloni, L., Chistiakov, D.A., Patarnello, T., Bonhomme, F., Martinsohn, J.T., Volckaert, F.A.M. 2015. Range-wide population structure of European sea bass *Dicentrarchus labrax*. **Biological Journal of the Linnean Society**, 116 (1), pp. 86-105. DOI: 10.1111/bij.12572
- Pauletto, M., Milan, M., De Sousa, J.T., Huvet, A., Joaquim, S., Matias, D., Leitão, A., Patarnello, T., Bargelloni, L. 2014. Insights into molecular features of *Venerupis decussata* oocytes: A microarray-based study. **PLoS ONE**, 9 (12), art. no. e113925, DOI: 10.1371/journal.pone.0113925
- Churcher, A.M., Pujolar, J.M., Milan, M., Hubbard, P.C., Martins, R.S.T., Saraiva, J.L., Huertas, M., Bargelloni, L., Patarnello, T., Marino, I.A.M., Zane, L., Canário, A.V.M. 2014. Changes in the gene expression profiles of the brains of male European eels (*Anguilla anguilla*) during sexual maturation. **BMC Genomics**, 15 (1), art. no. 799, . DOI: 10.1186/1471-2164-15-799
- Mininni, A.N., Milan, M., Ferrareso, S., Petochi, T., Di Marco, P., Marino, G., Livi, S., Romualdi, C., Bargelloni, L., Patarnello, T. 2014. Liver transcriptome analysis in gilthead sea bream upon exposure to low temperature, **BMC Genomics**, 15 (1), art. no. 765, DOI: 10.1186/1471-2164-15-765.
- Polgar, G., Zane, L., Babbucci, M., Barbisan, F., Patarnello, T., Rüber, L., Papetti, C. 2014. Phylogeography and demographic history of two widespread Indo-Pacific mudskippers (Gobiidae: Periophthalmus). **Molecular Phylogenetics and Evolution**, 73 (1), pp. 161-176. DOI: 10.1016/j.ympev.2014.01.014
- Pauletto, M., Milan, M., Moreira, R., Novoa, B., Figueras, A., Babbucci, M., Patarnello, T., Bargelloni, L. 2014. Deep transcriptome sequencing of *Pecten maximus* hemocytes: A genomic resource for bivalve immunology. **Fish and Shellfish Immunology**, 37 (1), pp. 154-165. DOI: 10.1016/j.fsi.2014.01.017
- Babbucci, M., Basso, A., Scupola, A., Patarnello, T., Negrisol, E. 2014. Is it an ant or a butterfly? Convergent evolution in the mitochondrial gene order of Hymenoptera and Lepidoptera. **Genome Biology and Evolution**, 6 (12), pp. 3326-3343. DOI: 10.1093/gbe/evu265
- Tsigenopoulos, C.S., Louro, B., Chatziplis, D., Lagnel, J., Vogiatzi, E., Loukovitis, D., Franch, R., Sarropoulou, E., Power, D.M., Patarnello, T., Mylonas, C.C., Magoulas, A., Bargelloni, L., Canario, A., Kotoulas, G. 2014. Second generation genetic linkage map for the gilthead sea bream *Sparus aurata* L. **Marine Genomics**, 18 (PA), pp. 77-82. DOI: 10.1016/j.margen.2014.09.008
- Milano, I., Babbucci, M., Cariani, A., Atanassova, M., Bekkevold, D., Carvalho, G.R., Espiñeira, M., Fiorentino, F., Garofalo, G., Geffen, A.J., Hansen, J.H., Helyar, S.J., Nielsen, E.E., Ogden, R., Patarnello, T., Stagioni, M., Tinti, F., Bargelloni, L. 2014. Outlier SNP markers reveal fine-scale genetic structuring across European hake populations (*Merluccius merluccius*) (2014) **Molecular Ecology**, 23 (1), pp. 118-135. DOI: 10.1111/mec.12568
- Leite, R.B., Milan, M., Coppe, A., Bortoluzzi, S., dos Anjos, A., Reinhardt, R., Saavedra, C., Patarnello, T., Cancela, M.L., Bargelloni, L. MRNA-Seq and microarray development for the grooved carpet shell clam, *Ruditapes decussatus*: A functional approach to unravel host -parasite interaction (2013) **BMC Genomics**, 14 (1), art. no. 741. DOI: 10.1186/1471-2164-14-741
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