

## Curriculum vitae Dr Daniela Bertotto

Laurea in Natural Sciences, University of Padova;  
PhD in Veterinary Sciences

### Activities, grants, positions

- 1993-1998 Studies on fishing, ecology and biology of *Atherina boyeri* in the Venice Lagoon at the Chioggia Hydro biological Station (University of Padova) with Dr A. Marconato and Prof. M.B. Rasotto;
- 1994 ERASMUS fellowship at Fisheries Research Laboratory of Crete University and at the Institute of Marine Biology of Crete (IMBC, Greece). Studies on age and growth of anchovy (*Engraulis encrasicolus*) of the Ionian Sea;
- July-September 1996 Collaboration with Prof. M. B. Rasotto in a study on mating behaviour of Mediterranean parrotfish *Sparisoma cretense* in Lampedusa island (Agrigento, Italy);
- 1997 Collaboration with ICRAM (Central Institute for Sea Applied Research) in the project "Studies on trawling fishing within three miles from Chioggia coast";
- 1999 collaboration with the Regional Company Veneto Agricoltura (Legnaro, PD, Italy) in the project on common sole (*Solea solea*), carried on by the CNR Institute of Marine Biology of Venezia at the Experimental Fish Farm "Pellestrina".
- 1999-2001 CNR fellowship on "Reproduction of new fish species for the diversification of national aquaculture";
- 2000-2003 Collaboration with the Fish Farm (ITTIMA srl, Società Ittica Maremmana di Orbetello, Grosseto) on shi drum (*Umbrina cirrosa*) reproduction. Project funded by ARSIA Regione Toscana: decreto n. 430 del 19.09.2000;
- 2001 Collaboration with ISMAR-CNR in the European project on genetic mapping of European sea bass *Dicentrarchus labrax* (BASSMAP Q5RS-2001-01701);
- 2001-2003 CNR research fellow on "Chromosome manipulation of marine fishes for enhancing productivity and to safe the genetic biodiversity of wild populations" funded by MIPAF (Ministero per le Politiche Agricole nell'ambito del V Piano Triennale della Pesca e l'Acquacoltura);
- 2003-2004 CNR research fellow on "Controlled reproduction of Adriatic common sole" funded by MIPAF (Ministero per le Politiche Agricole nell'ambito del VI Piano Triennale della Pesca e l'Acquacoltura);
- 2002 Collaboration with "Marine Biology and Mariculture Laboratory of the Gorgona Island (Toscana, Italy)" on meagre (*Argyrosomus regius*) reproduction;
- November 2005 Research Assistant (VET/02- Veterinary Physiology) at the Department of Experimental Veterinary Sciences of Veterinary Faculty of the University of Padova. She is involved in studies on stress physiology of aquaculture species (cortisol in plasma and "in toto" animals both in developing and in adult fishes);
- February 2015 to today Associate professor, VET/02 (Veterinary Physiology), Department of Comparative Biomedicine and Food Science (BCA), University of Padova
- 2021 National Scientific Habilitation (ASN) for full professor role.

### Research activity

The research activity concerns fish reproduction and stress indicators in fish, molluscs, mammals and birds in order to evaluate animal welfare in natural and rearing systems. As regard fish reproduction, research aims to set up spawning protocols in captivity to support application of breeding programs and chromosome set manipulation to improve and diversify fish productions also for restocking purposes. The identification and application of stress indicators in fish and molluscs aim to improve welfare in aquaculture and to evaluate critical condition in the wild. The research team integrate competences of anatomy and physiology by means of different analytical approaches (histology, immunohistochemistry, radioimmunoassay, biomolecular analysis etc) to evaluate influences of environmental and farming condition on farmed and wild fish. The Radioimmunoassay (RIA) laboratory team has great experience in set up of protocols to evaluate steroids in different biological matrices (blood, tissues, whole animals etc.) in animals of veterinary interest. The research team have strong relationships with some local fish farmers and are completely devoted on studies and activities on the Aquaculture Sector for research and technology transfer to the productive sector. Services to farmers are provided in order to improve and standardize the production cycle of new species for the aquaculture and improve fish welfare. Since 2005, the research activity also concerns terrestrial animals of veterinary interest (pig, horse, rabbit and poultry) to assess stress conditions in order to increase animal welfare in farming systems.

Author and co-author of more than 90 original scientific documents (65 Scopus publications; H-index 22).

Links:

<https://orcid.org/0000-0002-1370-8679>

<https://scholar.google.it/citations?user=EvJRLu4AAAAJ&hl=it>

[https://www.researchgate.net/profile/Bertotto\\_Daniela](https://www.researchgate.net/profile/Bertotto_Daniela)

Referee since 2003 for international peer reviewed journals in fish welfare and reproduction topics (Aquaculture; Fish and Shellfish Immunology; Fish Physiology and Biochemistry; General and Comparative Endocrinology; Journal of Animal Physiology and Animal Nutrition; Italian Journal of Animal Science; Central European Journal of Biology; Animals).

Member of the editorial board of Animals.

Teaching activity

- Fish reproduction in aquaculture in Marine Biology Master Degree (University of Padova)
- Fish welfare in "Pharmacology, toxicology and welfare in aquaculture" course in Marine Biology Master Degree (University of Padova)
- Animal Physiology in "General Physiology and Pathology" course in the First graded course in Hygiene and Safety of Food products (University of Padova).
- Fish physiology in Specialization Course on "Breeding, hygiene, pathology of aquatic species and control of derived products" (University of Padova).

Supervisor and co-supervisor of PhD students:

- Francesco Pascoli (PhD in Veterinary Sciences, XXIV cycle, University of Padova) (supervisor)
- Isabella Fontana (joint PhD program Veterinary Sciences of the University of Padova and Experimental Epidemiology Applied to Zoonoses of the University of São Paulo-Brazil; XXIV cycle) (supervisor)

- Maria Rita Pastore (PhD in Veterinary Sciences, XXIX cycle, University of Padova) (co-supervisor)
- Sara Faggion (PhD student in Animal and Food Science, XXXI cycle, University of Padova) (co-supervisor)
- Martina Bortoletti PhD in Veterinary Sciences, XXXIV cycle, University of Padova) (co-supervisor)
- Sophia Schumann (MSCA PhD student, Biosciences XXXVI) (co-supervisor)
- Elisa Fonsatti ((PhD in Veterinary Sciences, XXXVII) (co-supervisor)
- Andrea Meloni (PhD in Veterinary Sciences, XXXVIII) (supervisor)

Supervisor of more than 35 students of first or second-cycle degrees.

Scientific responsible of:

- University of Padova project (2008)
- Junior researcher grant at the University of Padova (2012)
- Research contracts with public Institutions (IZSve-Italian health authority and research organization for animal health and food safety (2013, 2016)
- Research contracts/projects with private aquaculture companies (2013-2015; 2015- 2018; 2020-2022; 2022-2023).

Participant to:

- CARIPARO funded project 2009-2010. Genomic technologies for the 21st century aquaculture industry: an integrated approach to improve fish growth and health (GenTechAqua).
- University of Padova projects (2010; 2012;2013;2018)
- PSR project funded by the Veneto region (2014-2015)
- Projects with public Institutions (Italian health authority and research organization for animal health and food safety, IZSve) (2015-2017)
- Fish-photoCAT-Photocatalytic water remediation for sustainable fish farming. PRIMA project (Partnership for Research and Innovation in the Mediterranean Area; 2020-2024; Horizon 2020)
- AQUAFAANG: Advancing European Aquaculture by Genome Functional Annotation (2019-2023; Horizon 2020)
- Functional ontogeny and physiology of the digestive system in juvenile diploid and triploid salmon (*Salmo salar*). Norwegian Research Council-RFFNord.
- MSCA RIBES (River flow regulation, fish BEhaviour and Status) European Training Network (ETN)-GRANT Grant agreement ID: 860800-2020-2023; Horizon 2020)

Collaborations

From 1999 to 2010 collaboration with TEA s.r.l. (Trieste, Italy), company involved in the design, construction, hands-on operation and management of fish hatcheries, nurseries and farms especially for the sea bass and the sea bream productions;

From 1999 to 2012 collaboration with Dr A. Coloni of the Reproduction and Pathobiology Departments of Israel Oceanographic & Limnological Research, National Centre for Mariculture;

From 2005 to today collaborations with National and International Universities (Bologna, Milano, Udine and Marche Universities; University of Tromsø -Department of Arctic and Marine Biology; University Politecnica of Valencia, Spain...).

#### Academic roles

- Member of the teacher staff of the PhD School in Veterinary Sciences, University of Padova.
- Coordinator of the Degree Board for Graduation of the First graded course in Hygiene and Safety of Food products, University of Padova.
- Member of the Teaching Commission of Biology Degree Courses, University of Padova.
- Referee for inclusion and disability for Department of Comparative Biomedicine and Food Science since 2012.

#### Member of:

- European Aquaculture Society (EAS)
- Marine Biology Italian Society (SIBM)
- Italian Society of Veterinary Physiology (SOFIVET)

#### Publications

- . Guérineau, C., Lööke, M., Ganassin, G., Bertotto, D., Bortoletti, M., Cavicchioli, L., Furlati, S., Mongillo, P., Marinelli, L. (2022) Enrichment with classical music enhances affiliative behaviours in bottlenose dolphin. *Applied Animal Behaviour Science*, 254, art. no. 105696. DOI: 10.1016/j.applanim.2022.105696
- . Trocino, A., Menegon, F., Zomeño, C., Pasqualin, D., Cunial, G., Xiccato, G., Pirrone, F., Bertotto, D., Bortoletti, M., Dorigo, F., Lavazza, A., Di Martino, G. A pilot study about on-farm assessment of health and welfare in rabbits kept in different housing systems (2022) *Frontiers in Veterinary Science*, 9, art. no. 936643. DOI: 10.3389/fvets.2022.936643
- . Piva, E., Schumann, S., Dotteschini, S., Brocca, G., Radaelli, G., Marion, A., Irato, P., Bertotto, D., Santovito, G. Antioxidant Responses Induced by PFAS Exposure in Freshwater Fish in the Veneto Region (2022) *Antioxidants*, 11 (6), art. no. 1115. DOI: 10.3390/antiox11061115
- . Bortoletti, M., Maccatrozzo, L., Peruzzi, S., Strand, J.E.T., Jobling, M., Radaelli, G., Bertotto, D. Dietary effects on biomarkers of growth, stress, and welfare of diploid and triploid Atlantic salmon (*Salmo salar*) during parr-smolt transformation (2022) *Aquaculture Reports*, 24, art. no. 101123. DOI: 10.1016/j.aqrep.2022.101123
- . Aidos, L.; Cafiso, A.; Serra, V.; Vasconi, M.; Bertotto, D.; Bazzocchi, C.; Radaelli, G.; Di Giancamillo, A. How Different Stocking Densities Affect Growth and Stress Status of *Acipenser baerii* Early Stage Larvae (2020) *Animals*, 10, 1289. DOI: 10.3390/ani10081289
- . Aidos, L., Cafiso, A., Bertotto, D., Bazzocchi, C., Radaelli, G., Di Giancamillo, A. How different rearing temperatures affect growth and stress status of Siberian sturgeon *Acipenser baerii* larvae (2020) *Journal of Fish Biology*, 96 (4), pp. 913-924. DOI: 10.1111/jfb.14280

- . Bortoletti, M., Molinari, S., Fasolato, L., Ugolotti, J., Tolosi, R., Venerando, A., Radaelli, G., Bertotto, D., De Liguoro, M., Salviulo, G., Zboril, R., Vianello, F., Magro, M. Nano-immobilized flumequine with preserved antibacterial efficacy (2020) *Colloids and Surfaces B: Biointerfaces*, 191, art. no. 111019. DOI: 10.1016/j.colsurfb.2020.111019
- . Carminato, A., Pascoli, F., Trocino, A., Locatello, L., Maccatrozzo, L., Palazzi, R., Radaelli, G., Ballarin, C., Bortoletti, M., Bertotto, D. Productive results, oxidative stress and contaminant markers in european sea bass: Conventional vs. organic feeding (2020) *Animals*, 10 (7), art. no. 1226, pp. 1-16. DOI: 10.3390/ani10071226
- . Fontana, I., Delphino, M.K.V.C., Sesterhenn, P.M., Bertotto, D., Gonçalves, V.S.P., Ferreira, F. A sampling plan for phycotoxins surveillance in bivalve mollusc farms along the Santa Catarina coast, Brazil (2020) *Aquaculture*, 518, art. no. 734732. DOI: 10.1016/j.aquaculture.2019.734732
- . Nordio D., Khtikian N., Andrews S., Bertotto D., Leask K., Green T. Adaption potential of *Crassostrea gigas* to ocean acidification and disease caused by *Vibrio harveyi* (2020) *ICES Journal of Marine Science*, fsaa080, DOI:10.1093/icesjms/fsaa080
- . Trocino, A., White, P., Bordignon, F., Ferrante, V., Bertotto, D., Birolo, M., Pillan, G., Xiccato, G. Effect of feed restriction on the behaviour and welfare of broiler chickens (2020) *Animals*, 10 (5), art. no. 830. DOI: 10.3390/ani10050830
- . Pauletto, M., Lopparelli, R.M., 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 (2019) *Science of the Total Environment*, 660, pp. 959-973. DOI: 10.1016/j.scitotenv.2019.01.033
- . Magro, M., Baratella, D., Bonaiuto, E., De Almeida Roger, J., Chemello, G., Pasquaroli, S., Mancini, L., Olivotto, I., Zoppellaro, G., Ugolotti, J., Aparicio, C., Fifi, A.P., Cozza, G., Miotto, G., Radaelli, G., Bertotto, D., Zboril, R., Vianello, F. Stealth Iron Oxide Nanoparticles for Organotropic Drug Targeting (2019) *Biomacromolecules*, 20 (3), pp. 1375-1384. DOI: 10.1021/acs.biomac.8b01750
- . Pinedo-Gil, J., Martín-Diana, A.B., Bertotto, D., Sanz-Calvo, M.Á., Jover-Cerdá, M., Tomás-Vidal, A. Effects of dietary barley on rainbow trout exposed to an acute stress challenge (2019) *Aquaculture*, 501, pp. 32-38. DOI: 10.1016/j.aquaculture.2018.10.070
- . Gratta, F., Birolo, M., Sacchetto, R., Radaelli, G., Xiccato, G., Ballarin, C., Bertotto, D., Piccirillo, A., Petracci, M., Maertens, L., Trocino, A. Effect of feed restriction timing on live performance, breast myopathy occurrence, and muscle fiber degeneration in 2 broiler chicken genetic lines (2019) *Poultry Science*, 98 (11), pp. 5465-5476. DOI: 10.3382/ps/pez352
- . Trocino, A., Zomeño, C., Birolo, M., Di Martino, G., Stefani, A., Bonfanti, L., Bertotto, D., Gratta, F., Xiccato, G. Impact of pre-slaughter transport conditions on stress response,

carcass traits, and meat quality in growing rabbits (2018) *Meat Science*, 146, pp. 68-74. DOI: 10.1016/j.meatsci.2018.07.035

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. Locatello, L., Bertotto, D., Cerri, R., Parmeggiani, A., Govoni, N., Trocino, A., Xiccato, G., Mordenti, O. Sperm quality in wild-caught and farmed males of the European eel (*Anguilla anguilla*) (2018) *Animal Reproduction Science*, 198, pp. 167-176. DOI: 10.1016/j.anireprosci.2018.09.016

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. Trocino A., Filiou E., Zomeño C., Birolo M., Bertotto D., Xiccato G. (2018). Behaviour and reactivity of female and male rabbits housed in collective pens: effect of floor type and stocking density at different ages. *World Rabbit Sci.* 26: 135–147. doi:10.4995/wrs.2018.7747

. Radaelli, G., Piccirillo, A., Birolo, M., Bertotto, D., Gratta, F., Ballarin, C., Vascellari, M., Xiccato, G., Trocino, A. Effect of age on the occurrence of muscle fiber degeneration associated with myopathies in broiler chickens submitted to feed restriction (2017) *Poultry Science*, 96 (2), pp. 309-319. DOI: 10.3382/ps/pew270

. Mongillo, P., Bertotto, D., Pitteri, E., Stefani, A., Marinelli, L., Gabai, G. Peripheral leukocyte populations and oxidative stress biomarkers in aged dogs showing impaired cognitive abilities (2015) *Age*, 37 (3), 11 p. DOI: 10.1007/s11357-015-9778-9

. Trocino, A., Piccirillo, A., Birolo, M., Radaelli, G., Bertotto, D., Filiou, E., Petracchi, M., Xiccato, G. Effect of genotype, gender and feed restriction on growth, meat quality and the occurrence of white striping and wooden breast in broiler chickens (2015) *Poultry Science*, 94 (12), pp. 2996-3004. DOI: 10.3382/ps/pev296

- . Mongillo, P., Prana, E., Gabai, G., Bertotto, D., Marinelli, L. Effect of age and sex on plasma cortisol and dehydroepiandrosterone concentrations in the dog (*Canis familiaris*) (2014) *Research in Veterinary Science*, 96 (1), pp. 33-38. DOI: 10.1016/j.rvsc.2013.10.010
- . Messina, M., Sánchez-Gurmaches, J., Navarro, I., Gutierrez, J., Bertotto, D., Tibaldi, E., Tulli, F. Feeding frequency differently affects post prandial patterns of plasma glucose, insulin and insulin-like growth factor I in European sea bass (*Dicentrarchus labrax*) (2014) *Turkish Journal of Fisheries and Aquatic Sciences*, 14 (4), pp. 921-928. DOI: 10.4194/1303-2712-v14\_4\_11
- . Trocino, A., Filiou, E., Tazzoli, M., Bertotto, D., Negrato, E., Xiccato, G. Behaviour and welfare of growing rabbits housed in cages and pens (2014) *Livestock Science*, 167 (1), pp. 305-314. DOI: 10.1016/j.livsci.2014.05.035
- . Boscolo Papo, M., Bertotto, D., Quaglio, F., Vascellari, M., Pascoli, F., Negrato, E., Binato, G., Radaelli, G. Histopathology and stress biomarkers in the clam *Venerupis philippinarum* from the Venice Lagoon (Italy) (2014) *Fish and Shellfish Immunology*, 39 (1), pp. 42-50. DOI: 10.1016/j.fsi.2014.04.016
- . Boscolo Papo, M., Maccatrozzo, L., Bertotto, D., Pascoli, F., Negrato, E., Poltronieri, C., Binato, G., Gallina, A., Radaelli, G. Expression of CYP4 and GSTr genes in *Venerupis philippinarum* exposed to benzo(a)pyrene (2014) *Annals of Anatomy*, 196 (4), pp. 241-246. DOI: 10.1016/j.aanat.2013.11.003
- . Boscolo Papo, M., Bertotto, D., Pascoli, F., Locatello, L., Vascellari, M., Poltronieri, C., Quaglio, F., Radaelli, G. Induction of brown cells in *Venerupis philippinarum* exposed to benzo(a)pyrene (2014) *Fish and Shellfish Immunology*, 40 (1), pp. 233-238. DOI: 10.1016/j.fsi.2014.07.006
- . Maradonna, F., Gioacchini, G., Falcinelli, S., Bertotto, D., Radaelli, G., Olivotto, I., Carnevali, O. Probiotic supplementation promotes calcification in *Danio rerio* larvae: A molecular study (2013) *PLoS ONE*, 8 (12), art. no. e83155, . DOI: 10.1371/journal.pone.0083155
- . Negrato, E., Di Martino, G., Vascellari, M., Radaelli, G., Capello, K., Pascoli, F., Bertotto, D., Bonfanti, L. Expression of heat shock protein 70 in the liver of extensively and intensively kept heavy pigs (2013) *Animal*, 7 (8), pp. 1362-1366. DOI: 10.1017/S1751731113000517
- . Pascoli, F., Negrato, E., Poltronieri, C., Radaelli, G., Bertotto, D. Seasonal effect on hematological and innate immune parameters in sea bass (*Dicentrarchus labrax*) (2013) *Trends in Veterinary Sciences: Current Aspects in Veterinary Morphophysiology, Biochemistry, Animal Production, Food Hygiene and Clinical Sciences*, pp. 3-8. DOI: 10.1007/978-3-642-36488-4\_1
- . Negrato, E., Vascellari, M., Capolongo, F., Binato, G., Da Dalt, L., Boscolo Papo, M., Gioacchini, G., Carnevali, O., Bertotto, D., Radaelli, G., Pascoli, F. Expression of 8-OHdG in

Zosterisessor ophiocephalus from the Venetian lagoon, Italy (2013) *European Journal of Histochemistry*, 57 (1), pp. 46-53. DOI: 10.4081/ejh.2013.e8

. Trocino, A., Xiccato, G., Majolini, D., Tazzoli, M., Bertotto, D., Pascoli, F., Palazzi, R. Assessing the quality of organic and conventionally-farmed European sea bass (*Dicentrarchus labrax*) (2012) *Food Chemistry*, 131 (2), pp. 427-433.

. Pascoli, F., Lanzano, G.S., Negrato, E., Poltronieri, C., Trocino, A., Radaelli, G., Bertotto, D. Seasonal effects on hematological and innate immune parameters in sea bass *Dicentrarchus labrax* (2011) *Fish and Shellfish Immunology*, 31 (6), pp. 1081-1087. DOI: 10.1016/j.fsi.2011.09.014

. Petochi, B.T., Di Marco, P., Donadelli, V., Longobardi, A., Corsalini, I., Bertotto, D., Finoia, M.G., Marino, G. Sex and reproductive stage identification of sturgeon hybrids (*Acipenser naccarii* × *Acipenser baerii*) using different tools: Ultrasounds, histology and sex steroids (2011) *Journal of Applied Ichthyology*, 27 (2), pp. 637-642. DOI: 10.1111/j.1439-0426.2011.01715.x

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. Poltronieri, C., Laurà, R., Bertotto, D., Negrato, E., Simontacchi, C., Guerrera, M.C., Radaelli, G. Effects of exposure to overcrowding on rodlet cells of the teleost fish *Dicentrarchus labrax* (L.) (2009) *Veterinary Research Communications*, 33 (7), pp. 619-629. DOI: 10.1007/s11259-009-9211-x

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- . Poltronieri, C., Negrato, E., Bertotto, D., Majolini, D., Simontacchi, C., Radaelli, G. Immunohistochemical localization of constitutive and inducible Heat Shock Protein 70 in carp (*Cyprinus carpio*) and trout (*Oncorhynchus mykiss*) exposed to transport stress (2008) *European Journal of Histochemistry*, 52 (3), pp. 191-198.
- . Negrato, E., Marin, M.G., Bertotto, D., Matozzo, V., Poltronieri, C., Simontacchi, C. Sex steroids in *Tapes philippinarum* (Adams and Reeve 1850) during gametogenic cycle: Preliminary results (2008) *Fresenius Environmental Bulletin*, 17 (9 B), pp. 1466-1470.
- . Radaelli, G., Poltronieri, C., Bertotto, D., Funkenstein, B., Simontacchi, C. Cellular localization of insulin-like growth factor-II protein in the sea bass (*Dicentrarchus labrax*) from hatching to adult (2008) *Histology and Histopathology*, 23 (5), pp. 523-530.
- . Simontacchi, C., Poltronieri, C., Carraro, C., Bertotto, D., Xiccato, G., Trocino, A., Radaelli, G. Alternative stress indicators in sea bass *Dicentrarchus labrax*, L. (2008) *Journal of Fish Biology*, 72 (3), pp. 747-752. DOI: 10.1111/j.1095-8649.2007.01717.x
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- . Poltronieri, C., Maccatrozzo, L., Simontacchi, C., Bertotto, D., Funkenstein, B., Patruno, M., Radaelli, G. Quantitative RT-PCR analysis and immunohistochemical localization of HSP70 in sea bass *Dicentrarchus labrax* exposed to transport stress (2007) *European Journal of Histochemistry*, 51 (2), pp. 125-136.
- . Segato, S., Fasolato, L., Bertotto, D., Libertini, A., Balzan, S., Corato, A., Novelli, E. Effect of triploidy on quality traits of shi drum (*Umbrina cirrosa* L.) until the second rearing year (2007) *Aquaculture Research*, 38 (1), pp. 59-65. DOI: 10.1111/j.1365-2109.2006.01630.x
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