



## BRIEF CURRICULUM VITAE

### 1. Personal data

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Marital status:	Married, 2 children
Nationality:	Greek

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### 2. Education

- 1985:** University of Athens, Department of Biology. B.Sc in Biology
- 1986:** School of Public Health and Hygiene, Athens. M.Sc in Public Health.
- 1990:** University of Athens, Department of Biology. Ph.D in Biology
- 1991:** University of Kuopio, Department of Applied Zoology and Department of Biochemistry & Biotechnology. Post-doctoral fellowship from the Finnish Ministry of Education.
- 2010:** Sabbatical leave. Host: University of Helsinki, Neuroscience Center and Institute of Biomedicine/Anatomy (March - July 2010). Host Professor: Dr. Pertti Panula.

### 3. Professional Experience

- 2016-today:** Professor in "Biology - Physiology of Marine Organisms" at the University of Crete, Department of Biology, Greece.
- 2011-2016:** Associate Professor in "Biology - Physiology of Marine Organisms" at the University of Crete, Department of Biology, Greece.
- 2005-2011:** Assistant Professor in "Biology - Ecology of Marine Organisms" at the University of Crete, Department of Biology, Greece.
- 2002-todate:** Docent in "Aquaculture – Biotechnology of Broodstock Management" at the University of Kuopio (now University of Eastern Finland), Faculty of Natural and Environmental Sciences, Finland.
- 2000-2005:** Lecturer in "Biology – Ecology of Marine Organisms" at the University of Crete, Department of Biology, Greece.

**1993-2000:** Researcher at the Department of Aquaculture, Institute of Marine Biology of rete (now Institute of Marine Biology, Biotechnology and Aquaculture, Hellenic Centre for Marine Research), Greece. Head of the Fish Physiology Laboratory and in charge of Broodstock Management.

#### 4. Main Research interests

1. **Reproduction.** How environmental factors (mainly photoperiod and temperature) and hormonal mechanisms (sex steroids, cortisol and thyroid hormones) regulate early development, sex differentiation and gonadal maturation in teleost fish.
2. **Adaptation Physiology, stress and welfare.** Environmental adaptation, pigmentation physiology, stress biology and welfare.
3. **Ongoing research:** Molecular and neuroendocrine regulation of allostatic mechanisms in teleost fish; fish welfare.

#### 5.1 Research and Technological Projects

Participation [coordinator (CO) or principle investigator (PI)] in **25** European, Bilateral or National competitive R&D projects.

1. Effects of electromagentic fields on the physiology and quality of cultured marine fish species (**CO**). Ministry of Development, General Secretariat of Research & Technology.
2. Gapping and fillet production in gilthead sea-bream, *Sparus aurata* (**PI**). Ministry of Agricultural Development and Food, EPAL-ESPA 2014-2020.
3. Optimization of skin coloration in red porgies through innovative nutritional approaches. (**CO**). Ministry of Agricultural Development and Food, EPAL-ESPA 2014-2020.
4. Developemnt and evaluation of an innovative industrial system for the humane slaughter of Mediterranean mariculture fish species (**CO**). Ministry of Agricultural Development and Food, EPAL-ESPA 2014-2020.
5. Juvenile size variability for sustainable production of the greater amberjack, *Seriola dumerili* (**PI**). Ministry of Agricultural Development and Food, EPAL-ESPA 2014-2020.
6. Consumer driven Production: Integrating Innovative Approaches for Competitive and Sustainable Performance across the Mediterranean Aquaculture Value Chain (PerformFISH) (2017 – 2022). Grant agreement ID: 727610. Horizon 2020.
7. Advanced selective breeding for robustness, disease and stress resistance in European sea bass (*Dicentrarchus labrax*) through the use of Next Generation Sequencing techniques for genetic improvement (RobustBass) (**PI**). COFASP 3rd Call.
8. Development and evaluation of a humane slaughter method for Mefiterranean mariculture finifish (**PI**). Ministry of Agricultural Development and Food, EPAL 2007-2013.
9. Improvement of Hellenic mariculture competitiveness through the development of an innovative genetic selection programme for European sea bass, *D. labrax* (**CO**). Ministry of Agricultural Development and Food, EPAL 2007-2013.
10. A new integrative framework for the study of fish welfare based on the concepts of allostasis, appraisal and coping styles (COPEWELL) (**PI**). EU Seventh Framework Programme, Call: FP7-KBBE-2010-4, Grant agreement no: 265957.
11. Reproduction and effective rearing of meagre (*Argyrosomus regius*), a new candidate species towards increased mariculture competitiveness (**PI**). Hellenic Republic, Ministry of Education, Lifelong learning and relegious affairs, General

Secretariat of Research & Technology, Operational Programmes «COMPETITIVENESS AND ENTREPRENEURSHIP» AND REGIONS IN TRANSITION, National Strategic Reference Framework NSRF 2007-2013, National Action «COOPERATION 2011 - Partnerships of Production and Research Institutions in Focused Research and Technology Sectors».

12. Biotechnology for the exploitation of microalgae (BIOEXPLORE) (PI). Hellenic Republic, Ministry of Education, Lifelong learning and religious affairs, General Secretariat of Research & Technology, Operational Programmes «COMPETITIVENESS AND ENTREPRENEURSHIP» AND REGIONS IN TRANSITION, National Strategic Reference Framework NSRF 2007-2013, National Action «COOPERATION 2011 - Partnerships of Production and Research Institutions in Focused Research and Technology Sectors».
13. On farm assesment of stress level in fish (FASTFISH) (PI). EU Research Framework FP6-2004-SSP-4, Specific Tergated Research project (2006-2008).
14. Optimization of the production of Mediterranean fish of economical importance for aquaculture (PI). Ministry of Development, General Secretariat of Research and Technology, EPAN (2003-2006).
15. Innovative methods for the sustainable management of biological marine resources (PI). Prefecture of Crete, ETPA 2000-06 (2003-2006).
16. Environmental, nutritional and neuroendocrine regulation of skin coloration in the red porgy (*Pagrus pagrus*), towards the development of natural hue in cultured populations (CO). EU Research Framework QLRT-1999-31629 (2001-2003).
17. Gene technology in aquaculture: Development of molecular tools and gene mapping in sea bream, *Sparus aurata* (PI). Ministry of Development, General Secretariat of Research and Technology (1999-2000).
18. Evaluation of stress response during transportation of *Pagrus pagrus* fry. Development of a protocol for high survival rates (CO). Agriculture Insurance, Agricultural Bank of Greece (1997-1998).
19. Environmental and hormonal control of spawning in the sharpsnout sea bream *Diplodus puntazzo* (CO). Bilateral Co-operation Greece-Italy, Ministry of Development, General Secretariat of Research and Technology (1997-1998).
20. Common dentex, a prime new species for aquaculture. Development of methods for reliable egg production (CO). EU Research Framework FAIR (PL 95.407) (1995-1998).
21. Sexual cycles and growth performance in the common sea bream, *Pagrus pagrus*, in rearing conditions: applications to spawners breeding and spawning induction (PI). EU Research Framework AIR 2 (CT93-1589) (1993-1996).
22. Hormonal induced spawning in carps: effect of carp hypophysate homogenates, human chorionic gonadotropin and LH-RH analogues (PI). Ministry of Agriculture and General Secretariat of Research and Technology (1991-1992)
23. Investigation into the use of sex steroids as indexes of spawning condition in rainbow trout. Ministry of Agriculture and General Secretariat of Research and Technology (1989-1991).
24. Role of gonadal steroids (estradiol, testosterone) on the reproductive performance of two rainbow trout strains. Ministry of Development, General Secretariat of Research and Technology (1987-1988).
25. Hormonal regulation of the reproductive cycle of rainbow trout. Ministry of Agriculture (1986-1987).

## 5.2 Research and Technological Networks

1. COST Action FA1301: A network for improvement of cephalopod welfare and husbandry in research, aquaculture and fisheries (CephsInAction) (Member of the Management Committee).
2. COST Action FA0801: Critical success factors for fish larval production in European Aquaculture: a multidisciplinary network (LARVANET) (Member of the Management Committee).
3. COST 867: Welfare of fish in European aquaculture. European network for fish welfare research - a communication platform for the next 5 years on a pan-European level that will support other ongoing fish welfare activities (Member of the Management Committee).
4. Aqua-Flow II: European network for the dissemination of aquaculture RTD information (**National Network Leader**). EU Research Framework QLRT (1999-30105, concerted action) (2001-2003).
5. Aqua-Flow I: European network for the dissemination of aquaculture RTD information (National Network Leader, since June 2000). EU Research Framework FAIR (CT97-3837, concerted action) (1988-2000).
6. Development of a network between the Scientific Community and the aquaculture Industry (Project Leader). Ministry of Development, General Secretariat of Research and Technology (2000-2001).
7. AQUA-TNET 2008-11. European thematic network in the field of aquaculture, fisheries and aquatic resources management.
8. AQUA-TNET 2005-08. European thematic network in the field of aquaculture, fisheries and aquatic resources management. The network was funded under the European Commission Socrates Erasmus programme.

## 5.3 Educational and Training Projects

1. Erasmus Mundus Joint Master Degree “AquaCulture, Environment and Society PLUS (ACES+) (Coordinator), 2019-2022.
2. Erasmus Joint Master Degree in Aquaculture, Environment and Society (ACES) (Programme Manager), 2015-2018.
3. Summer course “Care and use of laboratory animals: mice, rats & zebrafish”. (2015-2019). A two weeks FELASA Accredited Course (ref. 051/15), for Functions A+B+C+D.
4. “Care and use of laboratory animals. Science, philosophy and society”. A two-weeks (80 h) Lifelong Learning Programme Erasmus, Intensive Programmes (IP). Funded by the Hellenic National Agency, L.L.P.-I.K.Y. Crete, Greece 5-16 May 2014.
5. Workshop “Fish welfare training course for aquaculture specialists”. Athens, 12-13 February 2014.

## 6. Supervision of students

➤ Supervision of Ph.D. students:	<b>7</b>
➤ Supervision of M.Sc. Thesis:	<b>25</b>
➤ Supervision of (undergraduate) Diploma Thesis:	<b>27</b>
➤ Placements/internships:	<b>46</b>

## **7. Publications**

- Peer-review journals: **76**
- Proceedings or Regular Publications of Societies: **7**
- International or National Conferences
  - Extended Abstracts: **63**
  - Abstracts: **47**
- Editor: **1**
- Book chapters: **4**
- Popular articles in aquaculture magazines: **4**

## **8. Publication record (<https://scholar.google.com/>)**

Citations	<b>3,082</b>
h-index	<b>32</b>
i-10-index	<b>60</b>