

Dr Athanasios Exadactylos (PhD) - Professor on Aquatic Animal Genetics  
**- Head of Hydrobiology-Ichthyology Laboratory (Hi\_Lab)**  
**- Head of MSc 'Sustainable Management of Aquatic Environment' (SMAE)**  
**- Deputy Head of Animal Breeding & Genetics Research Institute (UTH-IASON)**  
 University of Thessaly (UTH), School of Agricultural Sciences (SAS), Department of Ichthyology and Aquatic Environment (DIAE)  
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 Tel (Residence): +30-2310-268909, Mob: +30-6977629129, e-mail: [exadact@uth.gr](mailto:exadact@uth.gr)

- **Degrees:**
  - 1993-1997 PhD in Flatfish Population Genetics, University of Liverpool, School of Biological Sciences, Port Erin Marine Lab, Isle of Man, UK
  - 1987-1993 Higher Diploma in Agriculture (*Integrated Master*), Department of Agriculture, School of Geotechnical Sciences, Aristotle University of Thessaloniki, Thessaloniki, Hellas
- **Academic positions held:**
  - 2019- Professor on Aquatic Animal Genetics, UTh, SAS, DIAE, Volos, Hellas
  - 2015-2019 Associate Professor on Aquatic Animal Genetics, UTh, SAS, DIAE, Volos, Hellas
  - 2007-2015 Assistant Professor on Aquatic Animal Genetics, UTh, SAS, DIAE, Volos, Hellas
  - 2003-2007 Lecturer on Aquatic Animal Genetics, UTh, SAS, DIAE, Volos, Hellas
  - 2002-2003 Teaching & Research Fellow, UTh, School of Technological Sciences, Department of Agriculture Crop and Animal Production, Volos, Hellas
  - 2002-2003 Teaching & Research Fellow, UTh, School of Health Sciences, Department of Veterinary Sciences, Karditsa, Hellas
  - 2002-2003 Teaching & Research Fellow, Technological Institute of Thessaloniki, Department of Fisheries Technology and Aquaculture, Thessaloniki, Hellas
  - 2000-2002 Teaching & Research Fellow, University of the Aegean, Department of Environmental Studies, Laboratory of Ecosystems Management, Lesvos, Hellas
  - 1999-2000 Teaching & Research Fellow, Technological Institute of Larissa, School of Agricultural Technology, Department of Animal Production, Larissa, Hellas
  - 1995-1997 Research Fellow, University of Liverpool, School of Biological Sciences, Port Erin Marine Lab, Isle of Man, UK
- **Lecturing (C=Compulsory, E=Elective):**
  - Undergraduate
    1. Biochemistry (C)
    2. Molecular biology-Biotechnology (C)
    3. Genetics of aquatic organisms (C)
    4. Conservation management of coastal zones-Marine parks & wetlands (C)
    5. Introduction to agricultural sciences (C)
    6. Genetic engineering (E)
    7. Evolution (E)
    8. Bioethics (E)
    9. Marine mammals conservation genetics (E)
    10. Scientific research methodology (E)
  - Postgraduate
    1. Conservation genetics of aquatic organisms-Biodiversity-Marine mammals (C)
    2. Conservation biology (C)
    3. Hydrobiology (C)
    4. Environmental sustainability of fisheries & aquaculture (C)
    5. Conservation management of natural & artificial aquatic ecosystems-Biostatistics (C)
    6. Hygiene of aquatic resources (E)
    7. Fish food authenticity, quality & safety control (E)
    8. Biotechnology of aquatic organisms (E)
    9. Genomics in aquatic animal production (C)
- **Distinctions:**
  - 2022- Academic advisor at National Academic Recognition & Information Center (NARIC)
  - 2020- Deputy Head of Animal Breeding & Genetics Research Institute (UTH-IASON)
  - 2020- Head of MSc Program 'Sustainable Management of Aquatic Environment' (SMAE)
  - 2018- Experts Scientific Committee of the European Cooperation in Science & Technology (COST)
  - 2017- Referee/Certifier for the experts database Hellenic Foundation for Research and Innovation (HFRI)
  - 2016-2020 National Hellenic Aquaculture Council
  - 2015- Head of Hydrobiology-Ichthyology Lab (Hi\_Lab)
  - 2015- Outer International Assessment Board of the Irish Research Council
  - 2015-2020 Head of the Department of Ichthyology and Aquatic Environment (DIAE)
  - 2015-2016 Hellenic Quality Assurance and Accreditation Agency (HQA)
  - 2013- European Commission experts database for the "Horizon 2020" & the 7<sup>th</sup> Research Framework Program (FP7), No. EX2002B070992
  - 2013- Referee/Certifier for the experts database Hellenic Ministry of Education & Research, General Secretariat of Research & Technology (GSRT)
  - 2004 Exchange Scholar of the Hellenic Ministry of Education and Research (Research Institute for Fisheries, Aquaculture and Irrigation-HAKI, Hungary)
  - 2003 Biography recognition from "Marquis Who's Who"
  - 2002 Accepted taxonomic status [basis of record (from synonym) in Exadactylos & Thorpe, 2001] of the flatfish species *Platichthys flesus* (Linnaeus, 1758) in World Register of Marine Species (WORMS) database
  - 1993-1997 Scholar of the National Hellenic Scholarship Foundation
  - 1993 Scholar of the Comett II European Exchange Program
- **Interviews:**
  - 2015-2020 Prime time TV interviews on departmental activities & public awareness issues related to marine life

- 2014 Departmental interview on molecular genetics research infascture from UTH Liaison Office, Talk about my University series-Thessaly TV
- 2013 Personal interview on aquatic genetic diversity issues from EMPLOY, Occupational guidance-Career & Educational Consultants, Inc.
- 2008 Panel TV interview on the comparative advantages of intensive snail-farming in Greece
- **Professional experience:**
    - 2010- Contracted researcher for environmental & ichthyological essays/projects
    - 2001-2003 Agriculturist surveyor in the Hellenic Agricultural Insurance Co
    - 1992-1993 Field trial experiments in Imperial Chemical Industries (ICI), Agrochemicals and Environmental Sections (Zeneca Agrochemicals), Cambridge, UK
  - **Member/Representative:**
    - 2016-2020 Member of UTh Senate Board
    - 2015-2020 Committee of UTh External Evaluation Progress
    - 2013-2015 Committee of UTh Erasmus Office
    - 2009-2013 Committee of monitoring/structuring postgraduate studies in UTh
    - 2008-2013 Committee of UTh strategic planning
    - 2008-2011 Administrative Board of the Hellenic Geotechnical Chamber
    - 2007-2008 Instructional-Educational seminars on Environmental Education in Secondary High Schools within the Framework Operational Program EPEAEK II
    - 2006-2007 Instructional-Educational seminars on Fish Genetics for the fishermen of Pagasitikos Gulf, (KEGE) Volos
    - 2006-2007 Member of UTh Senate Board
    - 2005-2006 Exams supervisor on the Vocational Program "Hellenic Educators Certification on Information Communication Technology" within the Framework Operational Program EPEAEK II "Information Technology"
    - 2005-2009 Monitoring Committee of National Operational Fisheries Project, Ministry of Rural Development & Food
    - 2005-2008 Member of the General Secretariat at Region of Thessaly
    - 2004-2008 Casting Director of the Geotechnical Chamber of Central Hellas
    - 2003- General Assembly and Scientific Committees of DIAE
    - 2003- Operational Director of the Hydrobiology-Ichthyology (Hi\_Lab) Laboratory, undergoing research on molecular, population, quantitative genetics (genomics, proteomics, electrophoresis, PCR techniques, microarrays, gene expression-qPCR, NGS) for undergraduates, postgraduates, PhD candidates & post-doc theses
    - 2001-2002 Instructional-Educational seminars on Aquatic Ecosystems Conservation Biology-Genetics issues for the Hellenic Coast Guard, Lesvos
    - 1992-1993 Occupational Training Program on "Ecosystem Management Protection", Hellenic Community Development Society, Central Macedonia Prefecture, General Youth Secretariat, European Community Fund of Thessaloniki
  - **Chairing/Organizing Committee:**
    - 2021 4<sup>th</sup> International Congress on Applied Ichthyology, Oceanography & Aquatic Environment-HydroMediT, Mytilene
    - 2018 13<sup>th</sup> European Wildlife Disease Association (EWDA) Conference, Larissa
    - 2018 5<sup>th</sup> Hellenic Conference on Economics of Natural Resources & the Environment, ENVECON, Volos
    - 2018 3<sup>rd</sup> International Congress on Applied Ichthyology and Aquatic Environment-HydroMediT, Volos
    - 2016 4<sup>th</sup> Hellenic Conference on Natural Resources & Environmental Economics, ENVECON, Volos
    - 2016 2<sup>nd</sup> International Congress on Applied Ichthyology and Aquatic Environment-HydroMediT, Messolonghi
    - 2015 9<sup>th</sup> International Fair for Livestock & Poultry (ZOOTECHNIA), Thessaloniki
    - 2014 1<sup>st</sup> International Congress on Applied Ichthyology and Aquatic Environment-HydroMediT, Volos
    - 2011 4<sup>th</sup> International Hydrobiology-Fisheries Conference, Volos
    - 2009 9<sup>th</sup> National Annual Meeting on Green Technology-Ecology, Karditsa
    - 2008 3<sup>rd</sup> International Hydrobiology-Fisheries Conference, Arta
    - 2007 23<sup>rd</sup> Annual Scientific Conference of the Hellenic Zootechnical Society, Volos
    - 2007 International Forum on novelties in the Aquaculture industry, Patras Science Park (PSP)
    - 2007 Annual Meeting on "Sustainable development on mari/bivalve-culture enterprises", Vistonida Lake
    - 2007 Annual Meeting for Postgraduate Studies on Fisheries-Aquaculture-Aquatic Environment, Nea Moudania
    - 2006 1<sup>st</sup> National cities and towns' environmentally viable development Conference, Mount Pelion
    - 2005-2007 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> on Fisheries Management-Sustainability of fisheries resources, Sporades Islands
    - 2005 2<sup>nd</sup> National Hydrobiology-Fisheries Conference, Volos
    - 2004 4<sup>th</sup> National Meadowland Conference, Volos
  - **Research Interests:**
    - i. Molecular population genetics/genomics (molecular markers-microsatellites, mtDNA, SNPs, Next Generation Sequencing of DNA & RNA)
    - ii. Conservation biology-genetics, biogeography (gene flow, gene pool, extinction vortices, population dynamics, population bottlenecks, founder effects)
    - iii. Genetic pollution (species invasions, species enhancements)
    - iv. Ecotoxicology-Genotoxicity (DNA damage/repair, resistance on selected gene loci)
    - v. Quantitative developmental genetics (gene expression-qPCR, growth rates and heterozygosity, fitness correlated traits)
  - **Scientific Collaboration:**
    - i. Technische Universitat, Biotechnologisches Zentrum, Dresden, Germany
    - ii. University of Aberdeen, UK
    - iii. Scottish Association for Marine Science (SAMS), UK
    - iv. University of Oxford, Department of Physics, UK
    - v. University of Bergen, Department of Biology, Norway
    - vi. International Council for the Exploration of the Sea (ICES), Copenhagen, Denmark
    - vii. Durham University, School of Biological and Biomedical Sciences, UK
    - viii. University of Valencia, Marine Zoology Unit, Cavanilles Institute of Biodiversity and Evolutionary Biology, Spain
    - ix. University of Ghent, Faculty of BioScience Engineering, Belgium
    - x. University of the Algarve, Centre of Marine Sciences (CCMAR), Portugal
    - xi. University of Sussex, School of Life Sciences, UK
    - xii. Smithsonian Tropical Research Institute, Panama

- xiii. University of Oxford, Department of Zoology, UK  
 xiv. Wageningen University, Institute for Marine Resources and Ecosystem Studies (IMARES), Netherlands  
 xv. NUI Galway, School of Natural Sciences, Ryan Institute, Ireland

#### PHD THESIS (01)

1. **Exadactylos A** (1997) Population Genetics of the Dover sole, *Solea solea* (Linnaeus, 1758) (Teleostei: Soleidae). PhD Thesis. University of Liverpool, School of Biological Sciences, Port Erin Marine Laboratory, IoM-UK: 221p

11 citations

#### INVITED CHAPTERS IN SCIENTIFIC BOOKS (07)

2. Kotsanopoulos KV, **Exadactylos A** (2022) Methods and techniques for verifying authenticity and detecting adulteration. In: Kotsanopoulos KV (Ed) Authenticity of foods of plant origin. Taylor & Francis Group, Routledge and CRC Press: pp. 32-82
3. Conides A, Klaoudatos D, Kalamaras M, Neofitou N, **Exadactylos A**, Papaconstantinou C, Klaoudatos S (2020) Capture fisheries and aquaculture exploitation in the Aegean Sea Archipelago. In: Barceló D, Kostianoy AG (Eds) The handbook of environmental chemistry. Springer, Berlin, Heidelberg: pp. 1-26
4. Martsikalis PV, Gkafas GA, Palaiokostas C, **Exadactylos A** (2019) Genomics era on breeding aquaculture stocks. In: Lembo G, Mente E (Eds) Organic aquaculture: Impacts and Future Developments. Springer Nature, Switzerland: pp. 65-77
5. Malandrakis EE, Danis T, Iona A, **Exadactylos A** (2017) Abiotic stress of seagrasses: Recent advances in transcriptomics, genomics and systems biology. In: Kumar M, Ralph P (Eds) Systems biology of marine ecosystems. Springer Cham: pp. 119-132
6. **Exadactylos A** (2015) Molecular approach of seagrasses response related to tolerance acquisition to abiotic stress. In: Çalişkan M, Oz GC, Kavakli IH, Özcan B (Eds) Molecular approaches to genetic diversity. InTech-Open Access Publisher, Rijeka, Croatia: pp. 75-91
7. **Exadactylos A** (2008) Aspects on population and aquaculture genetics of crustaceans. In: Mente E (Ed) Reproductive biology of Crustaceans. Science Publishers Inc, Enfield, New Hampshire, USA: pp. 91-167
8. **Exadactylos A**, Arvanitoyannis IS (2006) Aquaculture biotechnology for enhanced fish production for food consumption. In: Ray RC (Ed) Microbial biotechnology in agriculture and aquaculture, Volume II. Science Publishers Inc, Enfield, New Hampshire, USA: pp. 453-510

1 citation

16 citations

11 citations

6 citations

15 citations

19 citations

#### INVITED SCIENTIFIC CHAPTERS EDITED IN GREEK (11)

9. **Exadactylos A** (2021) The ways of change: Drift and Selection. Emlen DJ, Zimmer C. *Evolution: Making sense of life* - 3<sup>rd</sup> Edition, Broken Hill Publishers Ltd: pp. 241-299
10. **Exadactylos A** (2021) Genetics. Lucas JS, Southgate PC, Tucker CS. *Aquaculture: Farming aquatic animals and plants* 2019 - 3<sup>rd</sup> Edition, Konstadaras Publishing: pp. 187-228
11. **Exadactylos A** (2017) Mapping, Sequencing, Annotation and Databases. Lesk AM. *Introduction to Genomics* 2012 - 2<sup>nd</sup> Edition, Utopia Publishing: pp. 70-103
12. **Exadactylos A** (2017) Genomes are the Hub of Biology. Lesk AM. *Introduction to Genomics* 2012 - 2<sup>nd</sup> Edition, Utopia Publishing: pp. 36-69
13. **Exadactylos A** (2017) Introduction to Genomics. Lesk AM. *Introduction to Genomics* 2012 - 2<sup>nd</sup> Edition, Utopia Publishing: pp. 1-35
14. **Exadactylos A** (2016) Gene Regulation in Development and Evolution. Watson JD, Baker TA, Bell SP, Gann A, Levine M, Losick R, Inglis CSHLP. *Molecular Biology of the Gene* 2014 - 7<sup>th</sup> Edition, Utopia Publishing: pp. 734-781
15. **Exadactylos A** (2016) The Origin and Early Evolution of Life. Watson JD, Baker TA, Bell SP, Gann A, Levine M, Losick R, Inglis CSHLP. *Molecular Biology of the Gene* 2014 - 7<sup>th</sup> Edition, Utopia Publishing: pp. 1-17
16. **Exadactylos A** (2012) Phylogenetic Reconstruction. Barton NH, Briggs DEG, Eisen JA, Goldstein DB, Patel NH. *Evolution* 2007 - 1<sup>th</sup> Edition, Utopia Publishing: pp. 1037-1109
17. **Exadactylos A** (2012) Models of Evolution. Barton NH, Briggs DEG, Eisen JA, Goldstein DB, Patel NH. *Evolution* 2007 - 1<sup>th</sup> Edition, Utopia Publishing: pp. 1111-1149
18. **Exadactylos A** (2010) Site-Specific Recombination and Transposition of DNA. Watson JD, Baker TA, Bell SP, Gann A, Levine M, Losick R, Inglis CSHLP. *Molecular Biology of the Gene* 2007 - 6<sup>th</sup> Edition, Utopia Publishing: pp. 421-487
19. **Exadactylos A** (2010) Nucleic Acids Convey Genetic Information. Watson JD, Baker TA, Bell SP, Gann A, Levine M, Losick R, Inglis CSHLP. *Molecular Biology of the Gene* 2007 - 6<sup>th</sup> Edition, Utopia Publishing: pp. 27-57

#### PUBLISHED PAPERS IN SCI REFEREED JOURNALS (42)

20. Konstantinidis I, Gkafas GA, Papathanasiou V, Orfanidis S, Küpper FC, Arnaud-Haond S, **Exadactylos A** (2022) Biogeography pattern of the marine angiosperm *Cymodocea nodosa* in the eastern Mediterranean Sea related to the quaternary climatic changes. *Ecology and Evolution* 12 (5): e8911 [**5y-IF: 3.252**]
21. Alevra AI, **Exadactylos A**, Mente E, Papadopoulos S (2022) The protective role of melatonin in sperm cryopreservation of farm animals and human: Lessons for male fish cryopreservation. *Animals* 12 (6): 791 [**5y-IF: 2.942**]
22. Tsioli S, Koutalianou M, Gkafas GA, **Exadactylos A**, Papathanasiou V, Katsaros C, Orfanidis S, Küpper FC (2022) Responses of the Mediterranean seagrass *Cymodocea nodosa* to combined temperature and salinity stress at the ionic, transcriptomic, ultrastructural and photosynthetic levels. *Marine Environmental Research* 175: 105512 [**5y-IF: 4.368**]
23. Komnenou A, Gkafas GA, Kofidou E, Sarantopoulou J, **Exadactylos A**, Tounta E, Koentzopoulos K, Dendrinis P, Karamanlidis AA, Gulland F, Papadopoulos E (2021) First report of *Uncinaria hamiltoni* in orphan eastern Mediterranean monk seal pups in Greece and its clinical significance. *Pathogens* 10 (12): 1581 [**5y-IF: 4.066**]
24. Kampouris TE, Asimaki A, Klaoudatos D, **Exadactylos A**, Karapanagiotidis IT, Batjakas IE (2021) Nutritional quality of the European spiny lobster *Palinurus elephas* JC Fabricius, 1787 (Achelata, Palinuridae) and the non-indigenous northern brown shrimp *Penaeus aztecus* Ives, 1891 (Dendrobranchiata, Penaeidae). *Foods* 10: 2480 [**5y-IF: 4.957**]
25. Imsiridou A, Karnezi S, Minos G, **Exadactylos A** (2021) Comparison of European sardine (*Sardina pilchardus*, Walbaum 1792) Greek haplotypes with those found in the global distribution of the species. *Applied Ecology and Environmental Research* 19 (5): 4025-4035 [**5y-IF: 0.797**]
26. Kavouras M, Malandrakis EE, Blom E, Tsilika K, Danis T, Panagiotaki P, **Exadactylos A** (2021) Malpigmentation of common sole (*Solea solea*) during metamorphosis is associated with differential synaptic-related gene expression. *Animals* 11 (8): 2273 [**5y-IF: 2.942**]
27. Malea L, Nakou K, Papadimitriou A, **Exadactylos A**, Orfanidis S (2021) Physiological responses of the submerged macrophyte *Stuckenia pectinata* to high salinity and irradiance stress to assess eutrophication management and climatic effects: an integrative approach. *Water* 13: 1706 [**5y-IF: 3.229**]

28. Kotsanopoulos KV, **Exadactylos A**, Gkafas GA, Martsikalos PV, Parlapani FF, Boziaris IS, Arvanitoyannis IS (2021) The use of molecular markers in the verification of fish and seafood authenticity and the detection of adulteration. *Comprehensive Reviews in Food Science and Food Safety* 20 (2): 1584-1654 [**5y-IF: 15.365**]
- 5 citations
29. Kampouris TE, Gkafas GA, Sarantopoulou J, **Exadactylos A**, Batjakas IE (2021) An American in the Aegean: first record of the American lobster *Homarus americanus* (H. Milne Edwards, 1837) from the eastern Mediterranean Sea. *Bioinvasions Records* 10 (1): 170-180 [**5y-IF: 1.509**]
30. Feidantsis K, Giantsis IA, Vratisistas A, Makri S, Pappa AZ, Drosopoulou E, Anestis A, Mavridou E, **Exadactylos A**, Vafidis D, Michaelidis B (2020) Correlation between intermediary metabolism, *Hsp* gene expression and oxidative stress related proteins in long-term thermal stressed *Mytilus galloprovincialis*. *American Journal of Physiology: Regulatory Integrative and Comparative Physiology* 319: R264-R281 [**5y-IF: 3.645**]
- 8 citations
31. Gkafas GA, de Jong M, **Exadactylos A**, Raga JA, Aznar F, Hoelzel AR (2020) Sex-specific impact of inbreeding on fitness in the striped dolphin. *Proceedings of the Royal Society B-Biological Sciences* 287: 20200195 [**5y-IF: 5.961**]
- 1 citation
32. Karamitros G, Gkafas GA, Giantsis IA, Martsikalos P, Kavouras M, **Exadactylos A** (2020) Model-based distribution and abundance of three Delphinidae in the Mediterranean. *Animals* 10 (2): 260 [**5y-IF: 2.942**]
- 2 citations
33. Psoufakis P, Karapanagiotidis IT, Malandrakis EE, Golomazou E, **Exadactylos A**, Mente E (2020) Effect of fishmeal replacement by hydrolyzed feather meal on growth performance, proximate composition, digestive enzyme activity, hematological parameters and growth-related gene expression of gilthead seabream (*Sparus aurata*). *Aquaculture* 521: 735006 [**5y-IF: 4.723**]
- 13 citations
34. Parlapani F, Syropoulou F, Tsiartsafis A, Ekonomou S, Madesis P, **Exadactylos A**, Boziaris I (2020) HRM analysis as a tool to facilitate identification of bacteria from mussels during storage at 4°C. *Food Microbiology* 85: 103304 [**5y-IF: 5.680**]
- 3 citations
35. Kavouras M, Malandrakis EE, Danis T, Blom E, Anastassiadis K, Panagiotaki P, **Exadactylos A** (2019) *Hox* genes polymorphism depicts developmental disruption of common sole eggs. *Open Life Sciences* 14 (1): pp. 549-563 [**5y-IF: 1.154**]
- 2 citations
36. **Exadactylos A**, Vafidis D, Tsigenopoulos CS, Gkafas GA (2019) High connectivity of the white seabream (*Diplodus sargus*, L. 1758) in the Aegean Sea, eastern Mediterranean basin. *Animals* 9 (11): 979 [**5y-IF: 2.942**]
- 4 citations
37. Gkafas GA, Hatzioannou M, Malandrakis EE, Tsigenopoulos CS, Karapanagiotidis IT, Mente E, Vafidis D, **Exadactylos A** (2019) Heterozygosity fitness correlations and generation interval of the Norway lobster in the Aegean Sea, eastern Mediterranean. *Journal of Biological Research-Thessaloniki* 26: 14 [**5y-IF: 2.988**]
- 3 citations
38. Ekonomou G, Lolas A, Castritsi-Catharios J, Neofitou C, Zouganelis DG, Tsiropoulos N, **Exadactylos A** (2019) Mortality and effect on growth of *Artemia franciscana* exposed to two common organic pollutants. *Water* 11 (8): 1614 [**5y-IF: 3.229**]
- 3 citations
39. Giantsis I, **Exadactylos A**, Feidantsis K, Michaelidis B (2019) First insights towards the population genetic structure and the phylogeographic status of the horse mussel (*Modiolus barbatus*) from the eastern Mediterranean. *Journal of the Marine Biological Association of the United Kingdom* 99 (5): pp. 1111-1118 [**5y-IF: 1.577**]
- 1 citation
40. Kavouras M, Malandrakis EE, Golomazou E, Konstantinidis I, Blom E, Palstra AP, Anastassiadis K, Panagiotaki P, **Exadactylos A** (2019) *Hox* gene expression profiles during embryonic development of common sole. *Animal Biology* 69 (2): pp. 183-198 [**5y-IF: 1.375**]
- 2 citations
41. Tsioli S, Orfanidis S, Papathanasiou V, Katsaros C, **Exadactylos A** (2019) Effects of salinity and temperature on the performance of *Cymodocea nodosa* and *Ruppia cirrhosa*: a medium-term laboratory study. *Botanica Marina* 62 (2): pp. 97-108 [**5y-IF: 1.746**]
- 10 citations
42. Martsikalos PV, Kavouras M, Gkafas GA, Apostolidis AP, Boziaris I, **Exadactylos A** (2018) Morphological and free amino acid profile variability, as a tool for stock identification among farmed rainbow trout, *Oncorhynchus mykiss* of different origin. *Aquaculture Research* 49: pp. 621-630 [**5y-IF: 2.415**]
- 2 citations
43. Konstantinidis I, Gkafas GA, Karamitros G, Lolas A, Antoniadou C, Vafidis D, **Exadactylos A** (2017) Population structure of two benthic species with different larval stages in the eastern Mediterranean Sea. *Journal of Environmental Protection and Ecology* 18 (3): pp. 930-939 [**5y-IF: 0.598**]
- 6 citations
44. Gkafas GA, **Exadactylos A**, Rogan E, Raga JA, Reid RJ, Hoelzel AR (2017) Biogeography and temporal progression during the evolution of striped dolphin population structure in European waters. *Journal of Biogeography* 44: pp. 2681-2691 [**5y-IF: 4.530**]
- 10 citations
45. Malandrakis EE, Dadali O, Kavouras M, Danis T, Panagiotaki P, Miliou H, Tsioli S, Orfanidis S, Küpper FC, **Exadactylos A** (2017) Identification of the abiotic stress-related transcription in little Neptune grass *Cymodocea nodosa* with RNA-seq. *Marine Genomics* 34: pp. 47-56 [**5y-IF: 1.969**]
- 9 citations
46. Golomazou E, Malandrakis EE, Kavouras M, Karatzinos T, Miliou H, **Exadactylos A**, Panagiotaki P (2016) Anaesthetic and genotoxic effect of medicinal plant extracts in gilthead seabream (*Sparus aurata* L). *Aquaculture* 464: pp. 673-682 [**5y-IF: 4.723**]
- 8 citations
47. Malandrakis EE, Dadali O, Golomazou E, Kavouras M, Dailianis S, Chadio S, **Exadactylos A**, Panagiotaki P (2016) DNA damage and differential gene expression associated with physical stress in gilthead seabream (*Sparus aurata*). *General and Comparative Endocrinology* 236: pp. 98-104 [**5y-IF: 2.772**]
- 18 citations
48. Gkafas GA, Orfanidis S, Vafidis D, Panagiotaki P, Küpper FC, **Exadactylos A** (2016) Genetic diversity and structure of *Cymodocea nodosa* meadows in the Aegean Sea, eastern Mediterranean. *Applied Ecology and Environmental Research* 14 (1): pp. 145-160 [**5y-IF: 0.797**]
- 3 citations
49. Gkafas GA, Megalofonou P, Batjakas IE, Apostolidis AP, **Exadactylos A** (2015) Molecular phylogenetic convergence within Elasmobranchii revealed by cytochrome oxidase subunits. *Biochemical Systematics and Ecology* 61: pp. 510-515 [**5y-IF: 1.351**]
- 8 citations
50. Golomazou E, **Exadactylos A**, Malandrakis EE, Karatzinos T, Gkafas GA, Dadali O, Panagiotaki P (2014) Early diagnosis of enteromyxosis in intensively reared sharpnose seabream, *Diplodus puntazzo*. *Aquatic Living Resources* 27 (2): pp. 99-106 [**5y-IF: 1.629**]

- 2 citations
51. Martsikalis P, Gkafas GA, Apostolidis AP, **Exadactylos A** (2014) Genetic structure profile of rainbow trout (*Oncorhynchus mykiss*) farmed strains in Greece. Turkish Journal of Fisheries and Aquatic Sciences 14 (3): pp. 749-757 [**5y-IF: 1.268**]
- 5 citations
52. Malandrakis EE, **Exadactylos A**, Dadali O, Golomazou E, Klaoudatos S, Panagiotaki P (2014) Molecular cloning of four glutathione peroxidase (GPX) homologs and expression analysis during stress exposure of the marine teleost, *Sparus aurata*. Comparative Biochemistry and Physiology-Part B: Biochemistry & Molecular Biology 168 (1): pp. 53-61 [**5y-IF: 2.215**]
- 42 citations
53. **Exadactylos A**, Malandrakis EE, Panagiotaki P, Geffen AJ (2013) The development of size variation in Dover sole, *Solea solea* and turbot, *Scophthalmus maximus*: genetic variability between different geographic and among year class farmed strains. Aquaculture Research 44 (12): pp. 1912-1925 [**5y-IF: 2.415**]
- 7 citations
54. Gkafas GA, Tsigenopoulos CS, Magoulas A, Panagiotaki P, Vafidis D, Mamuris Z, **Exadactylos A** (2013) Population subdivision of saddled seabream *Oblada melanura* in the Aegean Sea revealed by genetic and morphometric analyses. Aquatic Biology 18 (1): pp. 69-80 [**5y-IF: 1.945**]
- 12 citations
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134. Zambounis A, Ekonomou G, Lolas A, Skoufas G, Palaikostas C, Neofitou N, Vafidis D, **Exadactylos A** (2009) Genetic variability of the marine phanerogam *Cymodocea nodosa* in areas of the Aegean Archipelagos. 11<sup>th</sup> Pan-Hellenic Scientific Conference, Hellenic Botanical Society, National and Kapodistrian University of Athens, [Abstract](#)
135. Dadali O, Malandrakis EE, Palaikostas C, Tsigenopoulos CS, Magoulas A, Karapanagiotidis IT, Neofitou N, Zambounis A, Mente E, Panagiotaki P, Vafidis D, **Exadactylos A** (2009) Temporal and spatial genetic diversity of the edible decapod crustacean *Nephrops norvegicus* (Linnaeus, 1758). 11<sup>th</sup> International Congress on the Zoogeography and Ecology of Greece and adjacent regions (ICZEGAR), Heraklion, Crete, Hellas, [Abstract](#)
136. Zambounis A, Lolas A, Skoufas G, Palaikostas C, Neofitou N, Vafidis D, **Exadactylos A** (2009) Haplotype diversity of the seagrass *Cymodocea nodosa* in the Aegean Sea, Hellas. 2<sup>nd</sup> European Congress of Conservation Biology (ECCB), Prague, Czech Republic, [Abstract](#)
137. Malandrakis EE, Gogas A, Chatzipli A, Dadali O, Tsigenopoulos CS, Magoulas A, Panagiotaki P, Lazaridou-Dimitriadou M, Neofitou C, **Exadactylos A** (2008) Genetic diversity of edible snail (*Helix aspersa* M.) populations in southern Hellas and Cyprus. 5<sup>th</sup> Congress of the European Malacological Societies (CEMS), Ponta Delgada, São Miguel Island, Azores, Portugal, [Abstract](#)
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143. Gkafas GA, Nousia M, Tsalavouta M, Tsigenopoulos CS, Magoulas A, Neofitou C, **Exadactylos A** (2006) Genetic polymorphism of *Diplodus sargus* (L), in the Aegean and Ionian Seas revealed by microsatellites. 10<sup>th</sup> International Congress on the Zoogeography and Ecology of Greece and adjacent regions (ICZEGAR), Patras, Hellas, [Abstract](#)
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150. **Exadactylos A**, Geffen AJ, Thorpe JP (1997) Growth rate and heterozygosity in *Solea solea* (L)-Soleidae larvae and juveniles. 9<sup>th</sup> International Congress of European Ichthyologists (CEI9) on Fish Biodiversity, Trieste, Italy, [Abstract](#)
151. **Exadactylos A**, Thorpe JP, Geffen AJ (1996) Evaluating stock differences in *Solea solea* (L) and *Scophthalmus maximus* (L) performance. 3<sup>rd</sup> International Flatfish Symposium, Texel, Netherlands, [Abstract](#)
152. **Exadactylos A**, Thorpe JP (1995) Evaluating biochemical population differences in *Solea solea* (L) performance. International Symposium on Molecular Biology in Fish, Fisheries and Aquaculture, Plymouth, UK, [Poster](#)

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153. Neofitou C, Vafidis D, **Exadactylos A**, Podiadis V, Neofitou N (2006) Record of a stranded sperm-whale, *Physeter macrocephalus*, in Magnesia's Perfection seacoast, Hellas. Fisheries News 298: pp. 36-39



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155. *et al.*, **Exadactylos A** (2015) Marine angiosperm tolerance on environmental stress: physiological-cellular-biochemical-molecular mechanisms related to species and habitat diversity, Hellenic Ministry of Education & Research, Thales final report, 191p
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157. *et al.*, **Exadactylos A**, Karapanagiotidis I (2015) Utilization of processed animal proteins (PAP) in fish feed of gilthead sea bream (*Sparus aurata*), EPAL, Hellenic Ministry of Rural Development and Food, 264p
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161. Malandrakis EE, Dadali O, **Exadactylos A**, Panagiotaki P (2012) *Sparus aurata* glutathione peroxidase 1a mRNA, complete cds. Nucleotide Sequence from Genbank, Accession ID: KC201352
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#### SCIENTIFIC EXPERIENCE

- **Editorship in peer-reviewed Journals (14):**
  - i. Frontiers in: (1) Ecology & Evolution / (2) Genetics, Frontiers Media SA-Open Access, Switzerland
  - ii. SpringerPlus, SpringerOpen Journal, GmbH, Germany
  - iii. International Aquatic Research (IAR), IAR Editorial Office-Open Access, Iran
  - iv. Fisheries & Aquaculture Journal (FAJ), Longdom Publishing-Open Access, EU
  - v. Aquatic Research (AR), ScientificWebJournals-Open Access, Turkey
  - vi. Turkish Journal of Maritime and Marine Sciences, Ordu University-Open Access, Turkey
  - vii. International Journal of Oceanography & Aquaculture (IJOAC)-MedWin Publishers, USA
  - viii. British Journal of Applied Science & Technology (BJAST), SCIENCEDOMAIN International-Open Access, UK
  - ix. International Journal of Ornamental Aquatics Research (IJOAR), Greenwave publishing-Open Access, Canada
  - x. Journal of Survey in Fisheries Sciences, Greenwave publishing-Open Access, Canada
  - xi. Journal of Investigative Genomics (JIG), MedCrave Group-Open Access, Hungary
  - xii. International Journal of Agricultural Policy and Research (IJAPR), Journal Issues-Open Access, Nigeria
  - xiii. Journal of Zoology Studies (JoZS), Rich Publication-Open Access, India
- **Refereeing scientific papers (98) under potential publication in peer-reviewed Journals:**
  1. Frontiers in Genetics
  2. Frontiers in Ecology and Evolution
  3. Frontiers in Plant Science
  4. Frontiers in Evolutionary and Population Genetics
  5. Journal of Fish Biology
  6. Journal of the Marine Biological Association of the United Kingdom
  7. Marine Ecology Progress Series
  8. Marine Biology
  9. Zoological Journal of the Linnaean Society
  10. Fisheries Research
  11. Fisheries Science
  12. Aquatic Biology
  13. Biochemical Systematics and Ecology
  14. Marine Environmental Research
  15. Polish Journal of Environmental Studies
  16. African Journal of Biotechnology
  17. TheScientificWorldJOURNAL
  18. International Journal of Agriculture and Biology
  19. Open Journal of Genetics

20. Sarsia North Atlantic Marine Science
  21. International Aquatic Research
  22. SpringerPlus
  23. Open Journal of Marine Science
  24. Open Marine Biology Journal
  25. Fisheries & Aquaculture Journal
  26. Journal of Evolutionary Biology Research
  27. Journal of Investigative Genomics
  28. International Journal of Agriculture, Forestry & Fisheries
  29. Acta Advances in Agricultural Sciences
  30. Blue Biotechnology Journal
  31. Journal of Zoology Studies
  32. Research in Zoology
  33. Advances in Bioscience and Bioengineering
  34. International Journal of Biological Sciences and Applications
  35. American Journal of Biology and Life Sciences
  36. International Journal of Agricultural Policy and Research
  37. Geotechnical Scientific Issues
- **Refereeing scientific contributions (81) to Conferences/Symposia/Congresses:**
    1. 4<sup>th</sup> International Congress on Applied Ichthyology, Oceanography & Aquatic Environment-HydroMediT (2021)
    2. 3<sup>rd</sup> International Congress on Fisheries and Aquatic Research (2019)
    3. 3<sup>rd</sup> International Congress on Applied Ichthyology and Aquatic Environment-HydroMediT (2018)
    4. 6<sup>th</sup> Pan-Hellenic Congress in Technology of Animal Production (2017)
    5. 2<sup>nd</sup> International Congress on Applied Ichthyology and Aquatic Environment-HydroMediT (2016)
    6. 3<sup>rd</sup>, 4<sup>th</sup> Hellenic Conference on Natural Resources & Environmental Economics, ENVECON (2015, 2016)
    7. 4<sup>th</sup> International Conference on Education, Research and Innovation-ICERI (2014)
    8. 1<sup>st</sup> International Congress on Applied Ichthyology and Aquatic Environment-HydroMediT (2014)
    9. 4<sup>th</sup> Pan-Hellenic Congress in Technology of Animal Production (2013)
    10. 27<sup>th</sup> Annual Scientific Conference of the Hellenic Zootechnical Society (2012)
    11. 4<sup>th</sup> International Hydrobiology-Fisheries Conference (2011)
    12. 3<sup>rd</sup> Pan-Hellenic Congress in Technology of Animal Production (2011)
    13. 14<sup>th</sup> Pan-Hellenic Conference of Ichthyologists (2010)
    14. 11<sup>th</sup> International Congress on the Zoogeography and Ecology of Greece and adjacent regions, ICZEGAR (2009)
    15. 3<sup>rd</sup> International Hydrobiology-Fisheries Conference (2008)
    16. 23<sup>rd</sup> Annual Scientific Conference of the Hellenic Zootechnical Society (2007)
    17. 10<sup>th</sup> International Congress on the Zoogeography and Ecology of Greece and adjacent regions, ICZEGAR (2006)
    18. 2<sup>nd</sup> Pan-Hellenic Hydrobiology-Fisheries Conference (2005)
    19. 1<sup>st</sup> Pan-Hellenic Hydrobiology-Fisheries Conference (2003)
    20. 7<sup>th</sup> Conference on Environmental Science and Technology, CEST (2001)
  - **Refereeing scientific proposals (102) for research funding grants from:**
    - i. Open Call OC-2018-1, COST Association
    - ii. Marie Skłodowska-Curie Individual Fellowships, EC Research Executive Agency
    - iii. PostDocs, PhDs for the Irish Research Council
    - iv. "Research-Create-Innovate" EPANeK, ESPA 2014-2020, Hellenic Ministry of Education & Research
    - v. EDBM34 Development of Human Resources, Education and Lifelong Learning, Hellenic Ministry of Education & Research
    - vi. ELIDEK, Hellenic Research & Innovation Research Foundation, General Secretariat of Research & Technology (GSRT), Hellenic Ministry of Education & Research
    - vii. AgroETAK, ELGO-DIMITRA, Hellenic Ministry of Rural Development and Food
    - viii. Excellence I, Hellenic Ministry of Education & Research
    - ix. Research support scheme of postdoctoral scientists, Hellenic Ministry of Education & Research
    - x. Scientific knowledge actualization program of graduates from higher educational Institutions, Hellenic Ministry of Education & Research
    - xi. Research Committees of Universities of Thessaly & Patras & Aristotle Technological Institute
    - xii. EPAL II, Hellenic Ministry of Rural Development and Food
    - xiii. HERACLETUS II, Hellenic Ministry of Education & Research
  - **Research Projects (27):**

2021-	Snailville - British Council (Heliculture Serious Game for the promotion of sustainable snail cultivation businesses focusing on exports)
2021-	ROP Western Macedonia (Encapsulation of bioactive ingredients from aromatic and medicinal plants in nanoparticles for use in agriculture production of: a) organic food & nutritional supplements b) livestock protection products c) plant protection products)
2020-2022	<u>Project Leader:</u> Stock assessment of cod ( <i>Merluccius merluccius</i> ) in Toroneos Gulf (Halkidiki Peninsula). <b>Budget/Funding Body:</b> 64,580.10€/Region of Central Macedonia-EU
2018-2023	<u>Workpackage Leader:</u> OP Fisheries and Maritime 14-20/EMFF / Molecular identification of fish authenticity and adulteration in Greek market - FISH MID. <b>Budget/Funding Body:</b> 120,931.67€/Hellenic Ministry of Rural Development & Food-EU
2018-2022	OP Fisheries and Maritime 14-20/EMFF (Acute determination of freshness of fish)
2018-2022	OP Fisheries and Maritime 14-20/EMFF [Fisheries exploitation and management of sea cucumbers ( <i>Holothuria</i> sp): stocks conservation & processing (food & biotechnology products)]
2018-2020	<u>Project Leader:</u> European Social Fund-ESF (Biomonitoring of marine mammals in the eastern Mediterranean). <b>Budget/Funding Body:</b> 72,100€/Hellenic Ministry of Education & Research-EU
2015-2016	<u>Workpackage Leader:</u> AquaEXCEL 2020 "Biochemical mechanisms related to sole egg and larval quality" (BIOSOLE). <b>Budget/Funding Body:</b> 3,960€/DLO IMARES, Wageningen UR (University & Research Centre)-EU
2013-2015	OP Fisheries and Maritime 07-13/EMFF [Utilization of processed animal proteins (PAP) in fish feed of gilthead sea bream ( <i>Sparus aurata</i> )]
2013-2015	OP Fisheries and Maritime 07-13/EMFF [Application of novel practices for the minimization of environmental repercussions of aquaculture in benthos: the case of sea cucumber ( <i>Holothuria tubulosa</i> )]

- 2013-2015 OP Fisheries and Maritime 07-13/EMFF (Growth compensation: a novel & friendly to the environment practice towards cost reduction in Hellenic aquaculture)
- 2012-2015 Project Leader: THALES (Marine angiosperm tolerance on environmental stress: physiological-cellular-biochemical-molecular mechanisms related to species and habitat diversity). **Budget/Funding Body:** 512,820.50€/Hellenic Ministry of Education & Research-EU
- 2010-2013 Workpackage Leader: TOTAL FOUNDATION (Brown algal biodiversity and ecology in the eastern Mediterranean Sea). **Budget/Funding Body:** 19,338.84€/National & Kapodistrian Univ. of Athens-EU
- 2011-2012 INVE HELLAS SA (Implementing novel techniques in intensively reared gilthead seabream, *Sparus aurata*)
- 2008-2010 OP Fisheries and Maritime II-EMFF (Niche conservation strategies of fish populations presenting high commercial value in Crete)
- 2008-2010 Project Leader: OP Fisheries and Maritime II-EMFF (Fisheries gene pool assessment in Hellenic salt-marshes). **Budget/Funding Body:** 65,025.56€/Hellenic Ministry of Rural Development & Food-EU
- 2007-2008 UTh Research Committee (Economic exploitation and conservation of the sea urchin, *Paracentrotus lividus* in Pagasitikos Gulf, Hellas)
- 2007-2008 LEADER II (Natural enhancement of the artificial lake Smokovo, Karditsa Prefecture, Hellas)
- 2006-2009 OP Fisheries and Maritime II-EMFF (Sustainable fishery effort in Pagasitikos Gulf, Hellas)
- 2006-2009 OP Fisheries and Maritime II-EMFF (*Solea solea* enhancement for stock restoration and conservation in Pagasitikos Gulf, Hellas)
- 2005-2008 Project Leader: PYTHAGORAS II (Population conservation genetics of the striped dolphin, *Stenella coeruleoalba* within the ACCOBAMS area). **Budget/Funding Body:** 89,981.81€/Hellenic Ministry of Education & Research-EU
- 2005-2008 PYTHAGORAS II (Quality specifications assessment of farmed edible snails, *Helix aspersa*)
- 2004-2007 OP Fisheries and Maritime II-EMFF (Generating a support infrastructure of fisheries products in Magnesia's Prefecture)
- 2002-2003 LEADER II (Natural enhancement of the artificial lake Pramoritza, Kozani Prefecture, Hellas)
- 2000-2003 EPIDEMIE (Strategic management on biodiversity conservation, Biological invasions, intergraded approach on species abundance estimates)
- 1995-1998 PLATON (Hellenic-French cooperation on flatfish Dover sole, *Solea solea*, breeding and culture in artificial lagoons)
- 1994-1997 AIR (Community Research Program in Agriculture and Agro industry including Fisheries, particularly Genetics in Aquaculture)
- **Institutional Projects (05):**
    - 2020- Project Leader: "MSc in Sustainable Management of Aquatic Environment (SMAE)" **Budget/Funding Body:** 184,285.12€
    - 2015- Project Leader: "Hydrobiology-Ichthyology Lab (Hi\_Lab)" **Budget/Funding Body:** 215,091.66€/Various sources
    - 2015-2020 Project Leader: "Vocational training of DIAE undergraduates" **Budget/Funding Body:** 263,978.49€/Hellenic Ministry of Education & Research
    - 2015-2020 Project Leader: "Scholarships of DIAE undergraduates" **Budget/Funding Body:** 21,997.76€/Hellenic Ministry of Education & Research
    - 2015-2020 Project Leader: "Modernization of DIAE academic infrastructure" **Budget/Funding Body:** 19,724.74€/Hellenic Ministry of Education & Research
  - **Supervision/Co-supervision:**
    - i. (41) undergraduates
    - ii. (37) MSc postgraduates
    - iii. (08) PhD postgraduates
    - iv. (86) undergraduates on practical internship
    - v. (06) post-docs
  - **Citations:**
    - -678- / Total IF: 130.508 / h index: 15
    - Total research funding: ~1,650,000€
    - Cited by 311 documents from 109 Academic Institutions & Universities worldwide

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