

## Curriculum Vitae

**Dimitrios Loukovitis**

### Current Academic Position

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Associate Professor  
 Marine Fish Breeding and Aquaculture  
 Department of Fisheries and Aquaculture  
 School of Agricultural Sciences, University of Patras  
 Nea Ktiria 30200, Mesolonghi  
[dloukovi@upatras.gr](mailto:dloukovi@upatras.gr), [dloukovi@hotmail.com](mailto:dloukovi@hotmail.com)

<https://scholar.google.com/citations?user=P-IS4d8AAAAJ&hl=en>

<https://www.scopus.com/authid/detail.uri?authorId=22958511200>

### Education

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**2004** BSc in ‘Animal Production Science’, Aristotle University of Thessaloniki, School of Agricultural Sciences, Department of Agriculture.

**2006** MSc in ‘Animal Production Science’, Aristotle University of Thessaloniki, School of Agriculture, Department of Animal Production.

MSc thesis: ‘Study of the genetic variability in brown trout (*Salmo trutta* L.) populations’

**2013** PhD in School of Agriculture, Forestry and Natural Environment, Aristotle University of Thessaloniki.

PhD thesis: ‘Study of selective breeding designs utilizing methods of molecular and quantitative genetics for the genetic improvement of farmed seabream (*Sparus aurata*)’. The experimental part of my PhD thesis was conducted at the Institute of Marine Biology and Genetics (IMBG), Hellenic Centre for Marine Research (HCMR), Heraklion, Crete, Greece (2 years stay)

### Professional experience

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16/02/2023 - present	Associate Professor, Department of Fisheries and Aquaculture, University of Patras
03/09/2019 - 15/02/2023	Junior Researcher, Research Institute of Animal Science, Hellenic Agricultural Organization ‘ELGO DIMITRA’
01/04/2017 – 31/12/2018	Agriculturist in NIREUS S.A. aquaculture company. Field of expertise: ‘Genetic analysis of red porgy breeders for relatedness estimation and mating design’.
2007 - 2020	External research associate in various national and European research projects, related to Molecular Genetics and Breeding in livestock and fish species.

## Peer-reviewed publications

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***h*- index Scopus 11, *h*- index Google Scholar 12**

**Number of citations > 300**

1. Apostolidis A.P., Loukovitis D., Tsigenopoulos C.S. (2008) 'Genetic characterization of brown trout (*Salmo trutta*) populations from the Southern Balkans using mtDNA sequencing and RFLP analysis'. *Hydrobiologia* 600: 169–176.

2. Loukovitis D, Sarropoulou E, Tsigenopoulos CS, Batargias C, Magoulas A, Apostolidis AP, Chatziplis D, Kotoulas G (2011) 'Quantitative Trait Loci Involved in Sex Determination and Body Growth in the Gilthead Sea Bream (*Sparus aurata* L.) through Targeted Genome Scan'. *PLoS ONE* 6(1): e16599. doi:10.1371/journal.pone.0016599

3. Dimitrios Loukovitis, Elena Sarropoulou, Emmanouela Vogiatzi, Costas S. Tsigenopoulos, Georgios Kotoulas, Antonios Magoulas, Dimitrios Chatziplis (2012) 'Genetic variation in farmed populations of the gilthead sea bream *Sparus aurata* in Greece using microsatellite DNA markers'. *Aquaculture Research* 43: 239-246.

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4. SOTIRIS KIPARISSIS, DIMITRIS LOUKOVITIS AND COSTAS BATARGIAS (2012) 'First record of the Bermuda sea chub *Kyphosus saltatrix* (Pisces: Kyphosidae) in Greek waters'. *Marine Biodiversity Records* 5: e11. doi:10.1017/S1755267211001199

5. D. Loukovitis, E. Sarropoulou, C. Batargias, A. P. Apostolidis, G. Kotoulas, C.S. Tsigenopoulos and D. Chatziplis (2012) 'Quantitative trait loci for body growth and sex determination in the hermaphrodite teleost fish *Sparus aurata* L.'. *Animal Genetics* 43: 753-759.

6. D. Loukovitis, C. Batargias, E. Sarropoulou, A. P. Apostolidis, G. Kotoulas, A. Magoulas, C.S. Tsigenopoulos and D. Chatziplis (2013) 'QTL affecting morphology traits in gilthead seabream (*Sparus aurata* L.)'. *Animal Genetics* 44: 480-483.

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7. Costas S. Tsigenopoulos, Bruno Louro, Dimitrios Chatziplis, Jacques Lagnel, Emmanouella Vogiatzi, Dimitrios Loukovitis, Rafaella Franch, Elena Sarropoulou, Deborah M. Power, Tomaso Patarnello, Constantinos C. Mylonas, Antonios Magoulas, Luca Bargelloni, Adelino Canario, Georgios Kotoulas (2014) 'Second generation genetic linkage map for the gilthead sea bream *Sparus aurata* L.'. *Marine Genomics* 18: 77-82.

8. D. LOUKOVITIS, B. IOANNIDI, D. CHATZIPLIS, G. KOTOULAS, A. MAGOULAS, C. S. TSIGENOPOULOS (2015) 'Loss of genetic variation in Greek hatchery populations of the European sea bass (*Dicentrarchus labrax* L.) as revealed by microsatellite DNA analysis'. *Mediterranean Marine Science* 16/1: 197-200.

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9. D. Loukovitis, A. Siasiou, I. Mitsopoulos, A.G. Lymberopoulos, V. Laga, D. Chatziplis (2016) 'Genetic diversity of Greek sheep breeds and transhumant populations utilizing microsatellite markers'. *Small Ruminant Research* 136: 238-242.

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10. Dimitrios Loukovitis, Dimitrios Chatziplis, Costas Batargias (2016) 'Age-dependent QTL affecting body weight in gilthead seabream (*Sparus aurata* L.)'. *Mediterranean Marine Science* 17/3: 666-669.

11. Bagi Z, Dimopoulos EA, Loukovitis D, Eraud C, Kusza S (2018) 'MtDNA genetic diversity and structure of Eurasian Collared Dove (*Streptopelia decaocto*)'. *PLoS ONE* 13(3): e0193935.

12. Koulouri Alexandra A., Papadopoulou Sousana K., Loukovitis Dimitrios, Rodopaios Nikolaos, Vasara Eleni, Hassapidou Maria, Biskanaki Fani, Tasoulas Dimitrios, Tassoulas Elias, Coats Andrew J.S., Kafatos Anthony (2018) 'Association Between ApoE Polymorphism in Obesity Markers in Healthy Adults Who Follow the Greek Orthodox Fasting Rules'. *International Cardiovascular Forum Journal* 15: 29-35.

13. T. Pazartzi, S. Siaperopoulou, C. Gubili, S. Maradidou, D. Loukovitis, A. Chatzisprou, A.M. Griffiths, G. Minos, A. Imsiridou (2019) 'High levels of mislabeling in shark meat – Investigating patterns of species utilization with DNA barcoding in Greek retailers'. *Food Control* 98: 179–186.

14. Imsiridou A, Papapetrou M, Tilikidis A, Loukovitis D, Minos G, Gouva E, Chatzopoulos A, Skoufos I, Paschos I (2019) 'Can the Population Structure of Three Greek Marine Species (*Sardina pilchardus*, *Penaeus kerathurus*, *Mullus barbatus*) Become a Tool for their Future Characterization as PGI Products?'. *Journal of Nutrition, Food and Lipid Science* 1: 54-83.

15. Fytianos G, Baltikas V, Loukovitis D, Banti D, Sfikas A, Papastergiadis E, Samaras P. (2020) 'Biocorrosion of Concrete Sewers in Greece: Current Practices and Challenges'. *MDPI Sustainability* 12(7): 2638.

16. Maria Papapetrou, Dimitrios Loukovitis, Orestis Papadopoulos, Zoi Kazlari, Anastasia Peristeraki, Slavina Arsenova, Desislava Bardarova, Desislava Doncheva, Serafeim Theocharis, Constantinos Karagiannidis, Stefanos Koundouras, Anastasia Giannakoula, Stamatis Aggelopoulos and Dimitrios Chatziplis (2020) 'Genetic Diversity of Local Greek and Bulgarian Grapevine (*Vitis vinifera* L.) Varieties'. *MDPI Diversity* 12: 273; doi:10.3390/d12070273

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17. S. Papadopoulou, M. Kaydan, A. Manganaris, D. Loukovitis and C. Chrysochoidis (2020) 'First record of *Ceroplastes japonicus* (Gray) (Hemiptera: Coccidae) in Greece and a combined approach of morphological identification and DNA barcoding'. *EPPO Bulletin* 50: 299–303.

18. Dimitrios Chatziplis, Stavroula Oikonomou, Dimitrios Loukovitis, Dimitrios Tsiokos, Athanasios Samaras, Arkadios Dimitroglou, Lefteris Kottaras, Kantham Papanna, Leonidas

Papaharisis, Costas Tsigenopoulos and Michail Pavlidis (2020) 'QTL for Stress and Disease Resistance in European Sea Bass, *Dicentrarchus labrax* L.'. *MDPI Animals* 10: 1668; doi:10.3390/ani10091668

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19. I. Giovos, R.N. Aga Spyridopoulou, N. Doumpas, K. Glaus, P. Kleitou, Z. Kazlari, D. Katsada, D. Loukovitis, I. Mantzouni, M. Papapetrou, Y.P. Papastamatiou, D.K. Moutopoulos (2021) 'Approaching the "real" state of elasmobranch fisheries and trade: A case study from the Mediterranean'. *Ocean and Coastal Management* 211: 105743; <https://doi.org/10.1016/j.ocecoaman.2021.105743>

20. Maria Papapetrou, Zoi Kazlari, Kantham Papanna, Leonidas Papaharisis, Stavroula Oikonomou, Tereza Manousaki, Dimitrios Loukovitis, Lefteris Kottaras, Arkadios Dimitroglou, Evgenia Gourzioti, Charalampos Pagonis, Andreas Kostandis, Costas S. Tsigenopoulos, Dimitrios Chatziplis (2021) 'On the trail of detecting genetic (co)variation between resistance to parasite infections (*Diplectanum aequans* and *Lernanthropus kroyeri*) and growth in European seabass (*Dicentrarchus labrax*)'. *Aquaculture Reports* 20: 100767; <https://doi.org/10.1016/j.aqrep.2021.100767>

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21. Athanasios I. Gelasakis, Evridiki Boukouvala, Maria Babetsa, Efstathios Katharopoulos, Vayia Palaska, Dimitra Papakostaki, Nektarios D. Giadinis, Dimitrios Loukovitis, Jan P. M. Langeveld and Loukia V. Ekateriniadou (2021) 'Polymorphisms of Codons 110, 146, 211 and 222 at the Goat PRNP Locus and Their Association with Scrapie in Greece'. *MDPI Animals* 11: 2340; <https://doi.org/10.3390/ani11082340>

22. Oikonomou, S.; Samaras, A.; Tekeoglou, M.; Loukovitis, D.; Dimitroglou, A.; Kottaras, L.; Papanna, K.; Papaharisis, L.; Tsigenopoulos, C.S.; Pavlidis, M.; Chatziplis, D. (2022) 'Genomic Selection and Genome-Wide Association Analysis for Stress Response, Disease Resistance and Body Weight in European Seabass'. *MDPI Animals* 12: 277. <https://doi.org/10.3390/ani12030277>

23. Dimitrios Loukovitis, Mária Szabó, Dimitrios Chatziplis, István Monori & Szilvia Kusza (2022) 'Genetic diversity and substructuring of the Hungarian merino sheep breed using microsatellite markers'. *Animal Biotechnology*. DOI: 10.1080/10495398.2022.2042307

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24. Aristeidis P. Papapanagiotou, Dimitrios Loukovitis, Symela Ntoanidou & Ilias G. Eleftherohorinos (2022) 'Target-site cross-resistance to ALS inhibitors in Johnsongrass originating from Greek cornfields'. *Weed Technology*. doi: 10.1017/wet.2022.8

25. Stavroula Oikonomou, Zoi Kazlari, Maria Papapetrou, Kantham Papanna, Leonidas Papaharisis, Tereza Manousaki, Dimitrios Loukovitis, Arkadios Dimitroglou, Lefteris Kottaras, Evgenia Gourzioti, Charalampos Pagonis, Andreas Kostandis, Costas S. Tsigenopoulos, Dimitrios Chatziplis (2022) 'Genome Wide Association (GWAS) Analysis and genomic heritability for parasite resistance and growth in European seabass'. *Aquaculture Reports* 24: 101178; <https://doi.org/10.1016/j.aqrep.2022.101178>

26. Ioannis Giovos, Maria Violetta Brundo, Nikolaos Doumpas, Zoi Kazlari, Dimitrios Loukovitis, Dimitrios K. Moutopoulos, Roxani Naasan Aga Spyridopoulou, Athina Papadopoulou, Maria Papapetrou, Francesco Tiralongo, Margherita Ferrante, Chiara Copat (2022) 'Trace elements in edible tissues of elasmobranchs from the North Aegean Sea (Eastern Mediterranean) and potential risks from consumption'. *Marine Pollution Bulletin* 184: 114129; <https://doi.org/10.1016/j.marpolbul.2022.114129>
27. Aristeidis P. Papapanagiotou, Dimitrios Loukovitis, Christos A. Damalas, Ilias G. Eleftherohorinos (2022) 'Identification of an acetyl-CoA carboxylase-resistant johnsongrass (*Sorghum halepense* L.) population from a cotton field in northern Greece'. *Weed Biol. Manag.* 1–6; DOI: 10.1111/wbm.12256
28. Stavroula Oikonomou, Zoi Kazlari, Dimitrios Loukovitis, Arkadios Dimitroglou, Lefteris Kottaras, Konstantinos Tzokas, Dimitrios Barkas, Nikolaos Katribouzas, Leonidas Papaharisis and Dimitrios Chatziplis (2023) 'Genetic Parameters and Genotype x Diet Interaction for Body Weight Performance and Fat in Gilthead Seabream'. *MDPI Animals* 13: 180. <https://doi.org/10.3390/ani13010180>
29. Christodoulou C., Mavrommatis A., Loukovitis D., Symeon G., Dotas V., Kotsampasi B., Tsiplakou E. (2023) 'Inclusion of *Camelina sativa* Seeds in Ewes Diet Modifies Rumen Microbiota'. *MDPI Animals* 13: 377. <https://doi.org/10.3390/ani13030377>
30. Christodoulou C., Mavrommatis A., Loukovitis D., Symeon G., Dotas V., Kotsampasi B., Tsiplakou E. (2023) 'Effect of *Spirulina* Dietary Supplementation in Modifying the Rumen Microbiota of Ewes'. *MDPI Animals* 13: 740. <https://doi.org/10.3390/ani13040740>