

**Name: Giannoulis Themistoklis**

**Position: Assistant Professor, Genomics, Evolution and Biodiversity**

**Degrees: BSc in Biochemistry and Biotechnology, University of Thessaly**

**MSc in “Biotechnology-Quality Assessment in Nutrition and the Environment”, Department of Biochemistry and Biotechnology, University of Thessaly**

**Philosophy Doctorate (PhD), Department of Biochemistry and Biotechnology, University of Thessaly, Greece. Thesis title: “The contribution of mtDNA in evolution: paradigms of wild and domesticated animals”.**

➤ **Teaching Experience**

**Undergraduate teaching**

2018-2019 Evolution, Department of Biochemistry and Biotechnology, University of Thessaly

2018-2019 Molecular Ecology, Department of Biochemistry and Biotechnology, University of Thessaly

2018-2019 Population Genetics, Department of Biochemistry and Biotechnology, University of Thessaly

2018-2019 Genetics, Veterinary Faculty, University of Thessaly

2019-2020 Evolution, Department of Biochemistry and Biotechnology, University of Thessaly

2019-2020 Molecular Ecology, Department of Biochemistry and Biotechnology, University of Thessaly

2019-2020 Population Genetics, Department of Biochemistry and Biotechnology, University of Thessaly

2019-2020 Genetics, Veterinary Faculty, University of Thessaly

2019-2020 Genetics I, Department of Animal Science, University of Thessaly

- 2020-2021 Biology I, Department of Animal Science, University of Thessaly
- 2020-2021 Zoology, Department of Animal Science, University of Thessaly
- 2020-2021 Genetics II, Department of Animal Science, University of Thessaly

**Postgraduate teaching**

- 2018-2019 Ecology, “Biotechnology-Quality Assessment in Nutrition and the Environment”, Department of Biochemistry and Biotechnology, University of Thessaly
- 2018-2019 Genetically Modified Organisms in nutrition and the environment, “Biotechnology-Quality Assessment in Nutrition and the Environment”, Department of Biochemistry and Biotechnology, University of Thessaly
- 2018-2019 Environmental and Nutritional Toxicology, Toxicology, Department of Biochemistry and Biotechnology, University of Thessaly
- 2019-2020 Ecology, “Biotechnology-Quality Assessment in Nutrition and the Environment”, Department of Biochemistry and Biotechnology, University of Thessaly
- 2019-2020 Genetically Modified Organisms in nutrition and the environment, “Biotechnology-Quality Assessment in Nutrition and the Environment”, Department of Biochemistry and Biotechnology, University of Thessaly
- 2019-2020 Environmental and Nutritional Toxicology, Toxicology, Department of Biochemistry and Biotechnology, University of Thessaly
- 2020-2021 Environmental and Nutritional Toxicology, Toxicology, Department of Biochemistry and Biotechnology, University of Thessaly

➤ **Research Experience**

**European Funding:**

Postdoctoral Researcher, Department of Biochemistry and Biotechnology, University of Thessaly, Greece “Men fertility: genomics, proteomics and diagnosis. From the bench to the bedside (Fertilaid)”

Postdoctoral Researcher Faculty of Veterinary Science, University of Thessaly, Greece "Development and application of state-of-the-art method of sex preselection in sheep aiming at the maintenance and increase of genetic base and productivity of high genetic value indigenous sheep breeds (Amnoselect)"

Postdoctoral Researcher Faculty of Veterinary Science, University of Thessaly, Greece "Increasing dairy cows' fertility through identification and exploitation of genetically tolerant individuals (The Summer Cow)"

### **National Funding**

Post Graduate Researcher Institute of Biomedicine Research and Technology, CERETETH, Greece "Research for the European Program WILDTECH"

Post Graduate Researcher Department of Biochemistry and Biotechnology, University of Thessaly, Greece "Biochemical analyses of fish and fish feed (OPTIFEED)"

### ➤ **Management experience**

Head of the Laboratory of Biology, Genetics and Bioinformatics, Department of Animal Science, University of Thessaly

### ➤ **Publications**

1. Stamperna K., Giannoulis T., Dovolou E., Kalemkeridou M., Nanas I., Dadouli K., Moutou AK., Mamuris Z., Amoiridis GS (2020). Heat shock 70 improves in vitro embryo yield and quality from 2 heat stressed oocytes 3 Short title: HSP70 and in vitro embryo production in cattle. *Reproduction and Fertility* (In press)
2. Stamperna K., Giannoulis T., Nanas I., Kalemkeridou M., Dadouli K., Moutou AK., Amoiridis GS., Dovolou E. (2020). Short term temperature elevation during IVM affects embryo yield and alters gene expression pattern in oocytes, cumulus cells and blastocysts in cattle. *Theriogenology*, 156:36-45
3. Giannoulis T., Dutrillaux AM, Sarri C, Mamuris Z, Dutrillaux B. (2019). Phylogenetic relationships between genera *Dorcadion*, *Lamia*, *Morimus*, *Herophila* and some other *Lamiinae* (Coleoptera: *Cerambycidae*) based on chromosome and CO1 gene sequence comparison. *Bull Entomol Res*, 4:1-7
4. Valiakos G., Plavos K., Vontas A., Sofia M., Giannakopoulos A., Giannoulis T., Spyrou V., Tsokana C., Chatzopoulos D., Kantere M., Diamantopoulos V., Theodorou A., Mpellou S., Tsakris A., Mamuris Z., Billinis C. (2019). Phylogenetic analysis of bird-virulent strain of West Nile virus, Greece. *Emerg Infect Dis*, 25(12):2323-2325
5. Giannoulis T., Plageras D., Stamatis C., Chatzivagia E., Tsiourlianos A., Birtsas P., Billinis C., Suchentrunk F., Mamuris Z. (2019). Islands and hybrid zones: Combining the knowledge from "Natural Laboratories" to explain phylogeographic patterns of the European brown hare. *BMC Evol Biol*, 19:17.

6. Stamatis C., Giannoulis T., Galliopoulou E., Billinis Ch., Mamuris Z. (2017) Genetic analysis of melanocortin 1 receptor gene in endangered Greek sheep breeds. *Small Rumin Res*, 157:54-56
7. Giannoulis T., Stamatis C., Tsipourlianos A., Mamuriz Z. (2017). Mitogenomic analysis in European brown hare (*Lepus europaeus*) proposes genetic and functional differentiation between the distinct lineages. *Mitochondrial DNA A DNA Mapp Seq Anal*, 29(3):353-360
8. Amoutzias GD, Giannoulis T, Moutou KA, Psarra A-MG, Stamatis C, Tsipourlianos A, et al. (2016). SNP Identification through Transcriptome Analysis of the European Brown Hare (*Lepus europaeus*): Cellular Energetics and Mother's Curse. *PLoS ONE* 11(7): e0159939.
9. Giannoulis T., Dutrillaux A.M., Touroult J., Sarri C., Mamuris Z., Dutrillaux B. (2014). Chromosomal and genetic characterization of four Caribbean Prioninae (Coleoptera: Cerambycidae) species with notes on biogeography. *Insecta Mundi*, 1(1) : 1-12
10. Iacovakis C., Mamuris Z., Moutou K.A., Touloudi A., Hammer A.S., Valiakos G., Giannoulis T., Spuroy V., Athanasiou A.V., Giannakopoulos A., Bogdanos D., Birtsas P., Petrovska L., Hannant D., Billinis C. (2013). Polarisation of MHC (Class II) host genotype with pathogenesis of European Brown Hare Syndrome Virus (EBHSV). *PLoS ONE*, 8(9):e74360
11. Dutrillaux B., Chalumeau F., Dutrillaux A.-M., Giannoulis Th., Mamuris Z. (2013). Séparation taxonomique en trois espèces au sein des populations de *Cyclocephala tridentata* Fabricius (Coleoptera :Scarabaeidae : Dynastinae), sur la base de critères génétiques, chromosomiques et géographiques. *Ann. soc. entomol. France*, 49: 61-67.
12. Giannoulis T, Dutrillaux AM, Stamatis C, Dutrillaux B, Mamuris Z. (2012). *Cyclocephala* (Coleoptera: Scarabaeidae: Dynastinae) evolution in Lesser West Indies indicates a Northward colonization by *C. tridentata* , *Bull Entomol Res*, 102(3):325-32
13. Giannoulis T, Dutrillaux AM, Mamuris Z, Montreuil O, Stamatis C, Dutrillaux B (2011). Evolution of European cockchafers (Melolonthinae: Scarabaeidae: Coleoptera): a morphological, molecular and chromosomal study of intra- and inter-specific variations. *Bull Entomol Res*, 101(3):345-52
14. Giannoulis T., Dutrillaux A.M., Lemonnier-Darcemont M., Darcemont C., Myrthianou E., Stamatis C., Dutrillaux B., Mamuris Z. (2011). Molecular phylogeny of european saga: comparison with chromosomal data. *Bull. Insectology*, 64 (2): 263-267

➤ **International conferences**

1. ICAR, Genetic diversity and adaptability to a changing climate: The application of genomics in selective breeding programs in Holstein cows, 2020, Bologna, Italy(accepted for oral presentation, cancelled due to Covid-19 outbreak)

2. 35th Scientific Meeting, AETE, Short term temperature elevation during IVM affects embryo yield and alters gene expression pattern in oocytes, cumulus cells and blastocysts in cattle, 2019, Murcia, Spain
3. Aquaculture Europe 19, Macrosatellite analysis of *Dicentrarchus labrax* and *Sparus aurata* populations of Mediterranean fish farms, 2019, Berlin, Germany
4. 13th Conference, European Wildlife Disease Association, New *Austropotamobius torrentium* haplotypes revealed with molecular identification and phylogenetic analysis in Western Macedonia, 2018, Larissa, Greece
5. 13th Conference, European Wildlife Disease Association, MHC class II DQA locus variation in the species of European Brown hare: pathogen-driven genetic differentiation, 2018, Larissa, Greece
6. Advanced aquaculture breeding training workshop, 2018, Montpellier, France
7. 7th Meeting of the Archaeozoology, Genetics & Morphometrics Working Group, Mitochondrial bioenergetics and speciation: “The mother’s curse” effect in the species of brown hare, 2017, Liverpool, UK
8. 13th ICZEGAR, Mother’s curse and an ongoing Speciation? The paradigm of *Lepus europaeus*, 2015, Heraklion, Greece
9. 13th ICZEGAR, Digging for gold: Data archaeology in the framework of the LifeWatchGreece infrastructure, 2015, Heraklion, Greece
10. 13th ICZEGAR, LifeWatch Greece: Construction and operation of the national Research Infrastructure in the framework of the LifeWatch ESFRI, 2015, Heraklion, Greece
11. 4th World Lagomorph Conference, The role of polymorphisms in MHC (Class II) in the pathogenesis of European Brown Hare Syndrome, 2012, Vienna, Austria

➤ **National conferences**

1. 38th Congress of the Hellenic Society for Biological Sciences, Polymorphisms and co-evolution of nuclear and mitochondrial genes of oxidative phosphorylation (OXPHOS) in humans, 2016, Kavala, Greece
2. 9th annual conference, PEV, The contribution of mitochondrial DNA in evolutionary processes – The paradigm of *Lepus europaeus*, 2014, Athens, Greece
3. 35th annual conference, Hellenic Society for Biological Sciences, Population genetics of islandic population – The paradigm of *Lepus europaeus*, 2013, Nauplio, Greece
4. 35th annual conference, Hellenic Society for Biological Sciences, Barcoding in species identification of insects, 2013, Nauplio, Greece

5. 34th annual conference, Hellenic Society for Biological Sciences, Separation of two melolonthinae species and analysis of their genetic structure, 2012, Trikala, Greece
  6. 34th annual conference, Hellenic Society for Biological Sciences, toll-like receptor 9 (tlr9) and myeloid differentiation primary response gene 88 (myd88) polymorphism in ovis aries and association with infectious diseases, 2012, Trikala, Greece
  7. 32nd Conference of Hellenic Society for Biological Sciences, Intra- and interspecific variations in European cockchafers (Melolonthinae: Scarabaeidae: Coleoptera): A Morphological, Molecular and Chromosomal Study, 2010, Karpenisi, Greece
  8. 31st Conference of Hellenic Society for Biological Sciences, Phylogeny in the species cluster of Cyclocephala sp. In Guadeloupe, 2009, Patras, Greece
- Ετεροαναφορές  
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  - Σωρευτικός συντελεστής απήχησης των δημοσιεύσεων  
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