



CURRICULUM VITAE

Konstantinos Feidantsis

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Professor

Animal cell physiology, Comparative physiology, Environmental physiology, Food technology, Nutrition

Education:

- 2015-2017: Master of Science in Clinical Nutrition (2017). Department of Nutritional Sciences and Dietetics, International Hellenic University. GPA: 9.03/10.00.
- 2013-2017: Bachelor in Nutrition (2017). Department of Nutritional Sciences and Dietetics, International Hellenic University. GPA: 8.3/10.00.
- 2007-2012: Doctor of Philosophy (2012). Faculty of Exact Sciences / Department of Biology, Aristotle University of Thessaloniki, Greece, Thesis: Seasonal Biochemical and Physiological Responses of the gilthead sea bream, *Sparus aurata*. Correlation with sea temperature and climate change. PhD Supervisor: Prof. Basile Michaelidis. GPA: 10.00/10.00.
- 2005-2007: Master of Science (2007). Faculty of Exact Sciences / Department of Biology, Aristotle University of Thessaloniki, Greece, Title of Dissertation: Molecular and biochemical responses of the gilthead sea bream (*Sparus aurata*) during acclimation to different temperatures. GPA: 9.24/10.00.
- 2001-2004: Bachelor in Biology (2004). Faculty of Exact Sciences / Department of Biology, Aristotle University of Thessaloniki, Greece. GPA: 7.21/10.00.
- 2001-2004: Bachelor in Biomedical Sciences (2004). Department of Biomedical Sciences, International Hellenic University. GPA: 8.8/10.00.

Work Experience

- Member of the European COST Action (European Corporation in Science and Technology: Conservation Physiology).
- Reviewer in 40 international scientific journals.
- Participation in 10 research projects.

Publications-Research Programs-Academics

- 75 publications in SCI journals.
- Participation in 200 national and international conferences.

Publications (indicative)

- S. Methenitis, G. Panayiotou, S.K. Papadopoulou, A. Kaprara, A. Hatzitolios, P. Skepastianos, K. Karali, K. Feidantsis. Nutrition, Body Composition and Physical Activity Have Differential Impact on the Determination of Lipidemic Blood Profiles Between Young Females with Different Blood Cholesterol Levels. *Obesity Research and Clinical Practice* (2023): 17(1), 25-33.

- Georgoulis, C. Bock, G. Lannig, H.O. Pörtner, K. Feidantsis, I.A. Giantsis, I. Sokolova, B. Michaelidis. Metabolic remodeling caused by heat-hardening in the Mediterranean mussels *Mytilus galloprovincialis*. *Journal of Experimental Biology* (2022): 225, jeb244795
- K. Feidantsis, A. Soumalevris, N. Panteli, S. Chatzifotis, E. Antonopoulou. Antioxidant defense and apoptotic responses of meagre (*Argyrosomus regius*) under the synchronous effect of long term feed deprivation and temperature variation. *Journal of Thermal Biology* (2022) 105: 103207.
- Georgoulis, K. Feidantsis, I.A. Giantsis, A. Kakale, C. Bock, H.O. Pörtner, I.M. Sokolova, B. Michaelidis. Heat hardening enhances mitochondrial potential for respiration and oxidative defence capacity in the mantle of thermally stressed *Mytilus galloprovincialis*. *Scientific Reports* (2021) 11:17098
- K. Feidantsis, S. Methenitis, K. Ketselidi, K. Vagianou, P. Skepastianos, A. Hatzitolios, A. Mourouglakis, A. Kaprara, M. Hassapidou, T. Nomikos and S.K. Papadopoulou, Comparison of two Hypocaloric High Protein Diets with or without whey protein supplementation with a Hypocaloric Mediterranean Diet: effect on body composition and health related blood markers. *Nutrition* (2021) 11365.
- K. Feidantsis, I. Georgoulis, I.A. Giantsis, B. Michaelidis. Treatment with ascorbic acid normalizes the aerobic capacity, antioxidant defence and cell death pathways on thermally stressed *Mytilus galloprovincialis*. *Comparative Biochemistry and Physiology Part B* (2021) 255: 110611.
- Dimitriadi, C. Papaefthimiou, E. Ginizegini, I. Sampsonidis, S. Kalogiannis, K. Feidantsis, D.C. Bobori, G. Kastrinaki, G. Koumoundouros, D.A. Lambropoulou, G.Z. Kyzas, D.N. Bikiaris. Adverse effects polystyrene microplastics exert on zebrafish heart - molecular to individual level. *Journal of Hazardous Materials* (2021) 416: 125969.
- K. Feidantsis, B. Michaelidis, D.E. Raitsos and D. Vafidis. Seasonal cellular stress responses of commercially important invertebrates at different habitats of the north Aegean Sea. *Comparative Biochemistry and Physiology Part A* (2020) 250: 110778
- K. Feidantsis, I.A. Giantsis, A. Vratsistas, S. Makri, A-Z. Pappa, E. Drosopoulou, A. Anestis, E. Mavridou, A. Exadactylos, D. Vafidis and B. Michaelidis. 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* (2020) 319: R264-R281.
- K. Feidantsis, I. Georgoulis, A. Zachariou, B. Campaz, M. Christoforou, H.O. Pörtner and B. Michaelidis. Energetic, antioxidant, inflammatory and cell death responses in the red muscle of thermally stressed *Sparus aurata*. *Journal of Comparative Physiology Part B* (2020) 190(4): 403-418.
- E. Antonopoulou, C. Kounna, S. Clavero, A. Soumalevris, K. Feidantsis and S. Chatzifotis. Effects of long term feed deprivation on body weight loss, muscle composition, serum metabolites and intermediate metabolism of meagre (*Argyrosomus regius*) under different water temperatures. *Fish Physiology and Biochemistry*. (2018) 44: 527-542.
- Staikou, G. Tachtatzis, K. Feidantsis and B. Michaelidis. Field studies on the annual activity and the metabolic responses of a land snail population living in high altitude. *Comparative Biochemistry and Physiology Part A*. (2016) 191: 1-8
- K. Feidantsis, E. Antonopoulou, H.O. Pörtner and B. Michaelidis. Synergistic effects of acute warming and low pH on cellular stress responses of the gilthead seabream *Sparus aurata*. *Journal of comparative Physiology B* (2015) 185: 185-205
- E. Antonopoulou, E. Kousidou, E. Tserga, K. Feidantsis and S. Chatzifotis. Dietary lipid levels in meagre (*Argyrosomus regius*): effects on biochemical and molecular indicators of liver. *Aquaculture* (2014) 428-429: 265-271
- K. Feidantsis, E. Kaitetzidou, N. Mavrogiannis, B. Michaelidis, Y. Kotzamanis and E. Antonopoulou. Effect of taurine enriched diets on the Hsp expression, MAPK activation and the antioxidant defence of the European Sea Bass (*Dicentrarchus labrax*). *Aquaculture Nutrition*. (2014) 420: 431-442

- E. Antonopoulou, E. Kentepozidou, K. Feidantsis, C. Roufidou, S. Despoti and S. Chatzifotis. Starvation and re-feeding affect Hsp expression, MAPK activation and antioxidant enzymes activity of European Sea Bass (*Dicentrarchus labrax*). *Comparative Biochemistry and Physiology, Part A*. (2013) 165: 79-88
- K. Feidantsis, A. Anestis and B. Michaelidis. Seasonal variations of anti-/apoptotic and antioxidant proteins in the heart and gastrocnemius muscle of the water frog *Pelophylax ridibundus*. *Cryobiology* (2013) 67: 175-183.
- K. Feidantsis, H. O. Pörtner, T. Markou, A. Lazou and B. Michaelidis. Involvement of p38 MAPK in the induction of Hsp70 during acute thermal stress in red blood cells of the gilthead sea bream, *Sparus aurata*. *Journal of Experimental Zoology*. (2012) 317: 303-312
- K. Feidantsis, A. Anestis, E. Vasara, P. Kyriakopoulou-Sklavounou and B. Michaelidis. Seasonal variations of cellular stress response in the heart and gastrocnemius muscle of the water frog (*Pelophylax ridibundus*). *Comparative Biochemistry and Physiology, Part A* (2012) 162: 331-339
- K. Feidantsis, E. Antonopoulou, A. Lazou, H. O. Pörtner and B. Michaelidis. Seasonal variations of cellular stress response of the gilthead sea bream (*Sparus aurata*). *Journal of Comparative Physiology B* (2012) 183: 625-639.
- T. Kyprianou, H. O. Pörtner, A. Anestis, K. Feidantsis, B. Kostoglou and B. Michaelidis. metabolic and molecular stress responses of farmed fish *Sparus aurata* during exposure to low ambient temperature: an analysis of mechanisms underline the winter syndrome. *Journal of Comparative Physiology Part B* (2010) 180: 1005-1018.
- K. Feidantsis, H. O. Pörtner, A. Lazou, E. Antonopoulou and B. Michaelidis. Seasonal variations in metabolism and cellular stress response in the white muscle of the gilthead sea bream (*Sparus aurata*). *Comparative Biochemistry and Physiology-Part A: Molecular and Integrative Physiology* (2009) 154 (1), S6.
- K. Feidantsis, H. O. Pörtner, A. Lazou, B. Kostoglou and B. Michaelidis. Metabolic and molecular stress responses of the gilthead sea bream *Sparus aurata* during long term exposure to increasing temperatures. *Marine Biology* (2009) 156 (4): 797-809

Research interests

Study of the effect of various environmental factors such as low or high temperature, increased CO₂, pollutants, diet quality, microbial load, etc. in the physiology of various animal organisms (fish, marine and terrestrial invertebrates, amphibians, mammals), their homeostasis and specifically in their adaptation to these changing environmental conditions. Specifically, the physiological, cellular, biochemical and molecular mechanisms of adaptation of animal organisms to environmental changes through specific cellular and molecular pathways (e.g. apoptosis, autophagy, inflammation, signaling, heat stress response), antioxidant defense (e.g. study of antioxidant enzymes and oxidizing agents), energy balance (enzymes of basic metabolism and metabolic products) and mitochondrial function and capacity are investigated. Due to the fact that the metabolism of energy stores and the development of metabolic markers (e.g. metabolites and by-products of metabolism) contribute substantially to the establishment of metabolic patterns, in recent years, we have been researching metabolic patterns (metabolomics) together with those of genomics and proteomics. The latter aims to the provision of useful information about the physiological background of animal organisms, helping their subsequent management in order for their well-being but also their productivity to be increased.