

CURRICULUM VITAE

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**Education**

2001: B.Sc. in Biology from the University of Crete, Greece.

2003: M.Sc. diploma in Marine Biology at University of Crete, Greece.

2009: PhD in Marine Biology at University of Crete, Greece.

**Professional Experience**

- 2000-2001      Participation in research projects carried out by the Aquaculture Department of the Institute of Marine Biology of Crete (I.M.B.C.).
- 2001-today      Participation in research projects carried out by the Aquaculture lab in the Biology Department (University of Crete).

**Research interests**

- Ontogeny of fish, with special emphasis on morphology, morphometrics and osteology.
- Morpho-anatomical abnormalities of reared fish, with emphasis on the determination of the stage of development and subsequently on their causative factors.
- Effect of environmental factors on fish ontogeny, shape, survival and growth.
- Rearing of candidate fish species, with emphasis on the hatchery phase.

**Familiar techniques:**

- Selective staining of fish larvae and juveniles for the presentation and study of the skeletal ontogeny.
- Micro- and macrophotography
- Execution of fish radiographs.
- Quality assessment with respect to skeletal deformities.
- Preservation and culture of fish juveniles in closed recirculating systems

**Research projects:**

- 2001-04: AIR (QLRT-2000-01233). Optimisation of rearing conditions in sea

- bass for eliminated lordosis and improved musculoskeletal growth (O.R.C.I.S.). (Lab. Financing : 339.000 Euros).
- 2001-03: Ministry of Research and Technology - Bilateral Relations Department. “Development de méthodes de contrôle de la maturation sexuelle et de l'élevage de *Umbrina cirrosa*”. Cooperation with the Ministry of Agriculture of Cyprus (Lab Financing :1.690.000 Drachmas).
  - 2003-05: CRAFT project. Estimation of genetic parameters for seabass. (HERITABOLUM) (Lab Financing : 92.000 Euros).
  - 2004-06: ‘PYTHAGORAS’ Ministry of Education. Influence of environmental factors on Zebrafish, *Danio rerio* (Hamilton, 1822) sex determination. Differentiation of reproductive and central neural systems. (Total budget : 75.000 Euros).
  - 2007-2010: Sixth framework programme. Priority (FP6-2005-SSP5A). Sustainable extensive and semi-intensive coastal aquaculture in Southern Europe (Seacase). Contract no.: 044483 (Lab financing: 34.820 Euros).
  - 2008-10: Effect of rearing temperature in the swimming activity and the metabolism of lactate in Zebrafish (*Danio rerio*, Hamilton 1822). Research Committee of the University of Crete (Lab. Financing: 3.000 Euros)
  - 2009-11: Swimming differentiation between male and female individuals of Zebrafish (*Danio rerio*, Hamilton 1822) Research Committee of the University of Crete (Lab. Financing: 17.600 Euros)
  - 2009-13: Seven Framework Programme. Food, Agriculture and Fisheries and Biotechnology. Area 2.1.2. Increased sustainability of all production systems (agriculture, forestry, fisheries and aquaculture); plant health and crop protection. Assessing the causes and developing measures to prevent the escape of fish from sea-case aquaculture (Prevent Escape) (Contact 226885). (UOC financing 279.009 Euros).
  - 2010-13: Competitiveness & Entrepreneurship. National Strategic Framework NSRF 2007-13. National Action: “Cooperation”. Sub-Action II: “Small and Medium Scale Cooperative Projects”. Development of reproduction and rearing techniques for *Argyrosomus regius* as a way to increase aquaculture competitiveness through induction of new species (UOC Financing: 57.000 Euros).
  - 2010-14 : Competitiveness & Entrepreneurship. National Strategic Framework NSRF 2007-13. National Action : “Cooperation”. Sub-Action II: “Large Scale Cooperative Projects” Biotechnology for the exploitation of microalgae (BIOEXPLORE). (Lab. Financing: 57.000 Euros).

## Publications

### International Journals

1. Koumoundouros, G., **Sfakianakis, D.G.**, Maingot, E., Divanach, P. and Kentouri, M. (2001) Osteological development of the vertebral column and of the fins in Diplodus sargus. Marine Biology 139: 853-862.

2. Koumoundouros, G., **Sfakianakis, D.G.**, Divanach, P. and Kentouri, M. (2002) Effect of temperature on swimming performance of sea bass (Dicentrarchus labrax L.) juveniles. *Journal of Fish Biology* 60: 923-932.
3. **Sfakianakis, D.G.**, Koumoundouros, G., Maingot, E., Divanach, P. and Kentouri, M. (2003) Development of a saddleback-syndrome variant in reared white seabream Diplodus sargus (Linnaeus, 1758). *Aquaculture* 217: 673-676.
4. **Sfakianakis, D.G.**, Koumoundouros, G., Divanach, P. and Kentouri, M. (2004) Osteological development of the vertebral column and of the fins in Pagellus erythrinus (L. 1758). Temperature effect on the developmental plasticity and morpho-anatomical abnormalities. *Aquaculture* 232: 407-424.
5. **Sfakianakis, D.G.**, Doxa, C.K., Kouttouki, S., Koumoundouros, G., Maingot, E., Divanach, P. and Kentouri, M. (2005) Osteological development of the vertebral column and of the fins in Diplodus puntazzo (Cetti, 1777). *Aquaculture* 250: 36-46.
6. **Sfakianakis, D.G.**, Georgakopoulou, E., Papadakis, I.E., Divanach, P., Kentouri, M., Koumoundouros, G. (2006) Environmental determinants of haemal lordosis in European sea bass, Dicentrarchus labrax (Linnaeus, 1758). *Aquaculture* 254: 54-64.
7. **Sfakianakis, D.G.**, Georgakopoulou, E., Kentouri, M., Koumoundouros, G. (2006) Geometric quantification of lordosis effects on body shape in European sea bass, Dicentrarchus labrax (Linnaeus, 1758). *Aquaculture* 256: 27-33.
8. Georgakopoulou, E., **Sfakianakis, D.G.**, Kouttouki, S., Divanach, P., Kentouri, M., Koumoundouros, G. (2007) The influence of temperature during early life on phenotypic expression at later ontogenetic stages in fish. *Journal of Fish Biology* 70 (1): 278-291.
9. Koumoundouros, G., Ashton, C., **Sfakianakis, D.G.**, Divanach, P., Kentouri, M., Anthwal, N., Stickland, N.C. (2009) Thermally induced phenotypic plasticity of swimming performance in European sea bass Dicentrarchus labrax juveniles. *Journal of Fish Biology* 74 (6): 1309-1322.
10. **Sfakianakis, D.G.**, Kentouri, M. (2010) Effect of temperature on muscle lactate metabolic recovery in sea bass (Dicentrarchus labrax, L.) juveniles exposed to exhaustive exercise. *Fish Physiology and Biochemistry* 36 (3): 387-390.
11. Laggis, A., **Sfakianakis, D.G.**, Divanach, P., Kentouri, M. (2010) Ontogeny of the body skeleton in Seriola dumerili (Risso 1810). *Italian Journal of Zoology* 77 (3): 303-315.
12. **Sfakianakis, D.G.**, Leris, I. Kentouri, M. Effect of developmental temperature in swimming performance of zebrafish Danio rerio (in press, *Environmental Biology of Fishes*).
13. Neofytou, M., **Sfakianakis, D.G.**, Koumoundouros, G., Mylonas, C.C., Kentouri, M. Skeletal ontogeny of the vertebral column and of the fins in shi drum Umbrina cirrosa, L. 1758 (Teleostei: Perciformes: Sciaenidae), a new candidate species for aquaculture. (submitted)