

KENTOURI Maroudio

Professor, Biology Department, University of Crete

Education

- 1976 : Biology degree, Department of Sciences, University of Patras
- 1977 : Diplôme d'études Approfondies (D.E.A.) in Oceanology University Aix-Marseille II, Endoume Marine Station, France
- 1978 : Doctorate in Oceanology, Aquaculture Department, University Aix-Marseille II
- 1985 : Ph.D. in Sciences, University of Sciences and Techniques of Languedoc, Montpellier, France

Postdoctoral Training

- “Laboratory of Applied Zoology”, University of Montpellier II, France, 1978-1980
- “Station de Biologie Marine et Lagunaire de Sete” (S.B.M.L.), Sete, France, 1980-1983
- “Association For the Development of Research (A.D.E.R), Palavas, France, 1983-1984

Academic Appointments

- Researcher of the “Association For the Development of Research” (A.D.E.R.), 1983-1984
- Assoc. Professor at the University of Sciences and Techniques of Languedoc-Montpellier, France, 1984-1987.
- Associate Professor at the Biology Department of the University of Crete, Greece, 1987-1996
- Professor at the Biology Department of the University of Crete, Greece, 1996 –present

Major Administrative Responsibilities

- Founding member of the IMBC (Institute of Marine Biology of Crete, now part of HCMR) and member of his Advisory Scientific Committee :(1987-95).
- Director of the Section of “Biotechnology and Applied Biology: Management of marine and terrestrial biological resources (1994-1995 and 1998-1999)
- Vice President (1996-2000) of the Biology Department of the University of Crete.
- President (2000-2004) of the Biology Department of the University of Crete.
- Vice-Rector (2004-2007) of Financial Affairs and Development at the University of Crete.
- President (2004-2007) of the Research Committee of the University of Crete.
- Since February 2013, elected Vice President of the University of Crete Council.

Major Memberships, Offices and Committee Assignments in Professional Societies

- Member of the Scientific Council of IMBC (Institute of Marine Biology of Crete, presently HCMR) : 1988-1993
- Member of the Scientific Council of «ACEA SA» (Aquaculture Center of Acheloos SA): 1994-2000
- Member of the Advisory Committee of the Ministry of Agriculture for Evaluation of Investment Projects in Fisheries and Aquaculture: 1997-2001
- Member of the National Representation Committee at the international conference “Women and Science: Making Change happen”, Brussels, 3-4 April, 2000.
- Member of the Steering Committee (“Committe de Perfectionnement”) of Albert 1st Prince of Monaco Foundation (Institute Oceanographic of Paris and Museum of Monaco): 2001-2008
- Member of the Scientific Commission for the evaluation of the Biology Department of the University of Patras: 2003
- Member of the Scientific Commission for the evaluation of the Post Graduate Program (ΕΠΕΑΕΚ) of the Biology Department of the University of Patras: 2003
- Member of the Steering Committee of the Capital Management Company (Εταιρία Διαχείρισης Περιουσίας) of the University of Crete : 2004-2007
- Member of the Committee of Financial Affairs of the Body of Greek Rectors: 2004-2007
- Member of the Steering Committee of the Center for the Entrepreneurial & Technological Development of Crete (Κέντρο Επιχειρηματικής και Τεχνολογικής Ανάπτυξης Κρήτης: “ΚΕΤΑ”): 2004-2008

Other National and International initiatives and professional services

- Member of the feasibility study group for a National Science Plan for Aquaculture established by CNEXO (Centre National pour l’ Exploration des Oceans, 1983)
- Member of the feasibility group for a Regional Science Plan for sea bass rearing established by GIS-ARM (Groupement d’ Interet Scientifique – Aquaculture Region Mediterranee, 1984).
- Member of the EC-DG XIV working group for the establishment of 5 year research priorities in aquaculture (1993)
- National Coordinator of the SIPAM (UNDP/FAO, MEDRAP II PROJECT) network in 1994.
- Member of the TECAM (Technology of Aquaculture in the Mediterranean) network (FAO-CIHEAM: Centre International de Hautes Etudes Agronomiques Mediterraneennes) for Mediterranean marine finfish diversification (1994-2000)
- Member of the National Council for Agricultural Policy (1998: Minist. Decree 1469/7-5-98)
- Member of the working group of OECD (Organization for Economic Co-operation and Development) for the evaluation of the Region of Crete (2005)
- Scientific consultant to the Region of Crete for the Recite programme.
- Scientific consultant to the Region of Crete for the RITTS Regional Innovation Technology Transfer Strategy programme.
- Member of the Scientific Committee of more than 20 National and International Conferences.
- President of the Organizing Committee of 5 National and International Conferences.
- Invited speaker in 22 International and National conferences
- Project reviewer and evaluator for grand agencies (EU and National: 1982- to date)
- Member of the RCIC (Regional Council for Innovation of Crete: 2011 – to date)
- Member of the European Aquaculture Society
- Member of the World Aquaculture Society.
- Reviewer of articles in 10 peer-reviewed journals
- Member of the Postgraduate Studies Programmes Committee of the Department of Biology (University of Crete, 1988-1991 & 1993-1999)

- Member of PhD and MSc thesis examination committees (Department of Biology, University of Crete, 1988- to date)
- Member of the General Assembly Committee of the Department of Biology (University of Crete, 1988- to date)

Teaching Responsibilities

Undergraduate

- Animal histology (1988) UoC
- Ecology (1988-1995) UoC
- Introduction to histology (1990-1995) UoC
- Marine Biology (1989 -) UoC
- Aquaculture (1988 -) UoC
- Marine Biotechnology (2009 -) UoC

Postgraduate

- Aquaculture: (1987 -) UoC

Total Degrees Awarded or In Progress

- 21 PhD (5 in progress)
- 26 MSc (1 in progress)
- 14 BSc (2 in progress)

General and Specific Field of Research

- General behavior of reared marine fish with special reference to Sparidae.
- Nutritional demands and feeding rhythms of larvae and post-larvae of reared marine fish species.
- Learning capacity and conditioning of marine fish at different developmental stages.
- Biology and rearing conditions of new marine fish species, since 1984.
- Fine Fish morphology

Research and Education grants

- International: 25
- National: 31

Other National and International initiatives and professional services

- Member of the feasibility study group for a National Science Plan for Aquaculture established by CNEXO (Centre National pour l' Exploration des Oceans, 1983)
- Member of the feasibility group for a Regional Science Plan for sea bass rearing established by GIS-ARM (Groupement d' Interet Scientifique – Aquaculture Region Mediterranee, 1984).
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- Member of the General Assembly Committee of the Department of Biology (University of Crete, 1988- to date)

Number of Publications

- Original Articles in International Journals: 121
- Number of Reviews and Book Chapters: 8
- Articles in International Conference Proceedings: 56
- Articles in National Conference Proceedings: 36
- Patents: 5
- Other (extended abstracts, posters, abstracts, etc): > 130
- Total Number of Citations: 1787 (Scopus)
- H-Index: 24 (Scopus)

List of Publications

A) Papers in International Journals

1. **KENTOURI M.**, 1980 : Elevage des larves de loup *Dicentrarchus labrax* à l'aide d'organismes du zooplancton congelé : résultats préliminaires. *Aquaculture* 21, 171-180 p.
2. **KENTOURI M.**, 1980 : Données préliminaires sur les facultés d'adaptation à un aliment inerte (zooplancton congelé) des post-larves de 11 espèces de poissons et crustacé marins. *Aquaculture*, 23, 73-82 p.
3. **KENTOURI M.**, DIVANACH P., PARIS J., 1981: Préférences alimentaires et comportement de la larve de daurade *Sparus aurata* face à du zooplancton congelé. *Ann. Zootechnie* 30 (4) 391-410 p.
4. DIVANACH P., **KENTOURI M.**, 1982: Utilisation des techniques extensives pour la production à grande échelle d'alevins de sar *Puntazzo puntazzo*. *C.R. Acad. Sci. Paris* 294 (3), 1017-1019 p.
5. DIVANACH P., **KENTOURI M.**, 1982 : Etapes du développement embryonnaire et larvaire du sar *Dipodus sargus* en élevage. *Aquaculture*, 27, 339-353 p.
6. **KENTOURI M.**, DIVANACH P., 1982: Comportement et régime alimentaire des larves de marbré *Lithognathus mormyrus* élevées dans des conditions de choix trophique polyspécifique et pluridimensionnel. *C.R. Acad. Sci. Paris* 194 (3), 859-861 p.

7. **KENTOURI M.**, DIVANACH P., 1982 : Différences et similitudes dans la genèse des comportements locomoteurs et trophiques des stades prélarvaires de *Sparus aurata*, *Diplodus vulgaris*, et *Diplodus sargus*; *Aquaculture*, 27, 355-376 p.
8. DIVANACH P., **KENTOURI M.**, 1983 : Influence des conditions trophiques initiales sur la résorption des réserves lipidiques, la croissance et la survie des larves de daurade *Sparus aurata* en élevage extensif. *Aquaculture*, 35, 43-55
9. DIVANACH P., **KENTOURI M.**, 1983 : Développement embryonnaire et larvaire du marbré *Lithognathus mormyrus* en élevage extensif. *Cybiurn*, 7 (4) , 89-103 p.
10. DIVANACH P., **KENTOURI M.**, 1983: Données préliminaires sur la technique de production, la croissance et la survie des larves de marbré *Lithognathus mormyrus*. *Aquaculture* 31, 245-256 p.
11. DIVANACH P., **KENTOURI M.**, PARIS J., 1983 : Recherches sur la production exploitable au niveau aquacole dans les lagunes à *Artemia salina*. *C.R. Acad. Sci. Paris* 296 (3), 29-31 p.
12. **KENTOURI M.**, DIVANACH P., 1983: Contribution à la connaissance du comportement et de la biologie des larves de marbré *Lithognathus mormyrus* (Sparidae) en élevage. *Ann. Zootech.*, 32 (2), 135-152 p.
13. DIVANACH P., **KENTOURI M.**, DEWAVRIN G., 1986 : Sur le sevrage et l' évolution des performances biologiques d' alevins de daurade *Sparus aurata* provenant d' élevage extensif, après remplacement des nourrisseurs en continu par des distributeurs libre-service. *Aquaculture*, 52, 21-29 p.
14. **KENTOURI M.**, DIVANACH P., BATIQUE O., ANTHOUARD M., 1986 : Rôle des individus conditionnés dans l'initiation à l'autonourrissage et dans l' adaptation à la captivité du loup *Dicentrarchus labrax* 0+ sauvé en période hivernale. *Aquaculture* 52, 117-124 p.
15. **KENTOURI M.**, DIVANACH P., 1986 : Spectres alimentaires des larves de Sparidés en conditions contrôlées. Sélectivité spécifique du sar *Diplodus Sargus*. *Bulletin d'Ecologie* 17, 2, 71-78 p.
16. ANTHOUARD M., DESPORTES C., **KENTOURI M.**, DIVANACH P., PARIS J., 1986 : Etude des modèles comportementaux manifestés au levier par *Dicentrarchus labrax*, *Diplodus sargus*, *Puntazzo puntazzo*, *Sparus aurata* et *Lithognathus mormyrus* (Poissons Téléostéens) placés en situation de nourrissage autocontrôlé. *Biology of Behaviour*, 11, 97-110 p.
17. **KENTOURI M.**, DIVANACH P., 1986 : Spectres alimentaires des larves de Sparidés en conditions contrôlées. Sélectivité spécifique de la daurade *Sparus aurata*. *Oceanologica Acta*, 9, 3, 343-348 p.
18. DIVANACH P., **KENTOURI M.**, CAVALIER F., 1987 : Organisation du réseau trophique larvaire de *Diplodus sargus* et production ichtyoplanctonique des milieux laguno-côtiers en Languedoc - Roussillon. *Acta Oecologica, Oecologia Applicata*, 8, 2, 105-110 p.
19. HIDALGO F., **KENTOURI M.**, DIVANACH P., 1988 : Sur l'utilisation du self-feeder comme outil d'épreuve nutritionnelle du loup, *Dicentrarchus labrax* - résultats préliminaires avec la méthionine. *Aquaculture*. 68, 177-190 p.
20. DEPLANO M., DIAZ J.P., CONNES R., **KENTOURI-DIVANACH M.**, CAVALIER F. , 1991. Appearance of lipid absorption capacities in larvae of sea bass, *Dicentrarchus labrax*, during transition to the exotrophic phase. *Marine Biology*, 108, 361-71 p.
21. **KENTOURI M.**, ANTHOUARD M., DIVANACH P., PASPATIS M. 1992. Les modalités d'adaptation comportementale des populations de bars (Serranidae: *Dicentrarchus labrax*), soumises à un nourrissage autocontrôlé. *Ichthyophysiological Acta*, 15, 29-42.
22. **KENTOURI M.**, ANTHOUARD M., DIVANACH P., PASPATIS M. 1992. Au sujet des différences observées dans les performances de groupes de bars (*Dicentrarchus labrax*, Moronidae) soumis à un conditionnement instrumental : Intervention probable des facteurs sociaux. *Bulletin S.F.E.C.A.*, 7, 41-46.
23. ANTHOUARD M., **KENTOURI M.**, DIVANACH P., 1993. An analysis of feeding activities of sea bass (*Dicentrarchus labrax*), raised under different lighting conditions. *Ichthyophysiological Acta*, 16, 59-73.
24. **KENTOURI M.**, ANTHOUARD M., DIVANACH P., 1993. La réponse aux couleurs chez *Dicentrarchus labrax* (Moronidae), placé en situation de "self-feeding" et de choix multiple. *Marine Ecology*, 14 (1).
25. TORNARITIS M., PERAKI E., GEORGULLI A., KAFATOS A., CHARALAMBAKIS G., DIVANACH P., **KENTOURI M.**, YIANNPOULOS S., FRENARITOU H., ARGYRIDES R., 1993. Fatty acid composition and total fat content of eight species of Mediterranean fishes. *International Journal of Food Science and Nutrition*, 45, 135-9
26. **KENTOURI M.**, O'NEILL D., DIVANACH P., CHARALAMBAKIS G., 1994. A study on the quantitative water requirements of red porgies *Pagrus pagrus* L., (Pisces: Sparidae), during early on-growing under self feeding conditions. *Aquaculture and Fisheries Management*. 25, 741-752.
27. ANTHOUARD M., **KENTOURI M.**, DIVANACH P., 1994. Les réponses à la présentation de différentes tailles de nourriture obtenues chez le bar (*Dicentrarchus labrax*) nouvellement soumis à un nourrissage autocontrôlé, au cours de la période automnale. *Ichthyophysiological Acta*, 17, 41-62.
28. **KENTOURI M.**, LEON L., TORT L., DIVANACH P., 1994. Experimental methodology in aquaculture: modification of the feeding rate of the gilthead sea bream *Sparus aurata* at a self-feeder after weighing. *Aquaculture*, 119, 191-200.
29. MUNDAY B.W., ELEFTHERIOU A., **KENTOURI M.**, DIVANACH P., 1994. Quantitative statistical analysis of the literature concerning the interaction of the environment and aquaculture. – Identification of gaps and lacks. *Journal of Applied Ichthyology*: 10 (4): 319-325.
30. KOUMOUNDOUROS G., KIRIAKOS Z., DIVANACH P., **KENTOURI M.**, 1995. Morphometric relationships as criteria for the evaluation of larval quality of gilthead sea bream. *Aquaculture International*, 3, 143-149.

31. PAVLIDIS M., BERRY M., DIVANACH P., **KENTOURI M.**, 1995. Diel pattern of hematocrit, osmotic pressure, electrolytes and thyroid hormones in two marine teleosts; sea bass *Dicentrarchus labrax* and sea bream, *Sparus aurata*. *Aquaculture International*, 5, 237-247.
32. **KENTOURI M.**, DIVANACH P., GEURDEN I., ANTHOUARD M., 1995. Mise en évidence du comportement adaptatif de la daurade (*Sparus aurata*, L.) en relation avec la composition de la ration dans une situation de nourrissage autocontrôlé. *Ictyophysiological Acta*, 18, 125-143.
33. BOUJARD T., JOURDAN M., **KENTOURI M.**, DIVANACH P., 1996. Diel feeding activity and the effect of time-restricted self-feeding on growth and feed conversion in European sea bass. *Aquaculture* 139, 117-127.
34. ANTHOUARD M., DEMONCOURT E., **KENTOURI M.**, DIVANACH P., 1996. Les rythmes d'activité trophique chez la daurade (*Sparus aurata*, L.) en situation de libre accès alimentaire, total ou temporellement limité. *Ictyophysiological Acta*, 19, 91-113.
35. KOUMOUNDOUROS G., GAGLIARDI F., DIVANACH P., CATAUDELLA S., **KENTOURI M.**, 1997. Normal and abnormal osteological development of caudal fin in *Sparus aurata* L. fry. *Aquaculture* 149, 215-226.
36. DIVANACH P., PAPANDROULAKIS N., ANASTASIADIS P., KOUMOUNDOUROS G., **KENTOURI M.**, 1997. Effect of water currents during postlarval and nursery phase on the development of skeletal deformities in sea bass (*Dicentrarchus labrax* L.) with functional swim bladder. *Aquaculture*. 156, 145-155.
37. KOUMOUNDOUROS G., ORAN G., DIVANACH P., STEFANAKIS S., **KENTOURI M.**, 1997. The opercular complex abnormality in gilthead sea bream (*Sparus aurata* L.): Early detection, morphology and osteology. *Aquaculture*. 156, 165-177.
38. KOUMOUNDOUROS G., DIVANACH P., **KENTOURI M.** 1976 Embryonic and yolk-sac larval development of *Dentex dentex* (Linnaeus 1758) (Osteichthyes, Sparidae). *Marine Life*. 6 (1-2), 41-50.
39. ROTTLAND J., PAVLIDIS M., **KENTOURI M.**, ABAD M.E., TORT L., 1997. Non specific immune response in red porgy *Pagrus pagrus* after crowding stress. *Aquaculture*, 156, 279-290.
40. RUEDA F. M., LOPEZ J. A., MARTINEZ F. J., ZAMORA S., DIVANACH P., **KENTOURI M.**, 1997. Fatty acids in muscle of wild and farmed red porgy, *Pagrus pagrus*. *Aquaculture Nutrition* 1997, 3, 161-165.
41. RUEDA F. M., MARTINEZ F. J., ZAMORA S., **KENTOURI M.**, DIVANACH P. 1998. Effect of fasting and refeeding on growth and body composition on red porgy, *Pagrus pagrus* L. *Aquaculture Research*, 29, 447-452.
42. PITTA P., GIANNAKOUREOU A., DIVANACH P., **KENTOURI M.** 1998. Plankton food web in marine mesocosms in the Eastern Mediterranean: bottom-up or top-down regulation? *Hydrobiologia* 363 : 97-105.
43. PALMA, J., ANDRANDE, J., PASPATIS, M., DIVANACH, P., **KENTOURI, M.**, 1998. Morphometric characters in gilthead sea bream (*Sparus aurata*), and their hybrid. *Italian Journal of Zoology*. 65: 435-439.
44. DIVANACH P., PAPANDROULAKIS N. **KENTOURI M.** 1998. Bases techniques de l'élevage larvaire de la daurade (*Sparus aurata*). *La Pisciculture Française*, no 134, 4e trimestre 1998.61-69 p.
45. PAVLIDIS M., DIVANACH P. FOSTIER A., **KENTOURI M.**, 1998. Reproduction et hybridation chez les sparidés *La Pisciculture Française*, no 134, 4e trimestre 1998.31-38 p.
46. KOUMOUNDOUROS G., DIVANACH P., **KENTOURI M.**, 1999. Osteological development of the vertebral column and of the caudal complex in *Dentex dentex*. *J. Fish Biol.*, 54, 424-436.
47. KOTZABASIS K., HATZIATHANASSIOU A. BENGEOA-RUIGOMEZ M.V. **KENTOURI M.** DIVANACH P. 1999. Methanol as alternative carbon source for quicker efficient production of the microalgae *Chlorella minutissima*. Role of the concentration and frequency of administration. *J. of Biotechnology*. 70, 357-362.
48. PASPATIS M., BATARIAS C., TIANGOS P., **KENTOURI M.** 1999. Feeding and growth responses of sea bass (*Dicentrarchus labrax*) reared by four feeding methods. *Aquaculture*, 175, 293-305.
49. PAVLIDIS M., PASPATIS M., KOISTINEN T., PAAVOLA T., DIVANACH P., **KENTOURI M.**, 1999. Diel rhythms of serum metabolites and thyroid hormones in red porgy held in different photoperiod regimes. *Aquaculture International* 7: 29-44.
50. KOKOKIRIS L., BRUSLE S., **KENTOURI M.**, FOSTIER A., 1999. Sexual maturity and hermaphroditism of the red porgy *Pagrus pagrus* (Teleostei: Sparidae). *Marine Biology*, 134: 621-629.
51. CARILLO J., MARTINEZ J., DIVANACH P., **KENTOURI M.** 1999. Unilateral eye abnormalities in reared Mediterranean gilthead sea bream. *The Veterinary Record*, October 23, 494-497.
52. KOUMOUNDOUROS G., DIVANACH P., **KENTOURI M.** 1999. Ontogeny and allometric plasticity of *Dentex dentex* (Osteichthyes: Sparidae) in rearing conditions. *Marine Biology*, 135: 561-572.
53. MARAGOUDAKI D., PASPATIS M., **KENTOURI M.**, 1999. Influence of stocking density on growth of juvenile red porgy *Pagrus pagrus* L. under different feeding conditions. *Aquaculture research*. 30, 501-8
54. PASPATIS M., MARKAKIS G., KOUMOUNDOUROS G., **KENTOURI M.** 1999. Preliminary results on rearing of *Sparus aurata* *Pagrus pagrus* hybrids. Performance comparison with the parental species. *Aquaculture International* 7: 295-306.
55. PAVLIDIS M., BERRY M., KOKKARI C., **KENTOURI M.**, 1999. Prothrombin time, activated partial thromboplastin time and fibrogen values in Mediterranean marine teleosts. *Fish Physiology and Biochemistry*, 21, 335-343.
56. KOKOKIRIS L., MOUROT B., LE MENN F., **KENTOURI M.**, FOSTIER A., 2000. Endocrine changes during the annual reproductive cycle of the red porgy, *Pagrus pagrus* (Teleostei, Sparidae). *Fish Physiol. Biochem.* 23, 1-11.

57. PAPANROULAKIS N., MARKAKIS G., DIVANACH P., **KENTOURI M.**, 2000. Feeding requirements of sea bream (*Sparus aurata*) larvae under intensive rearing conditions. Development of a fuzzy logic controller for feeding. *Aquaculture Engineering*, 21, 285-299.
58. KOUMOUNDOUROS G., DIVANACH P., SAVAKI A., **KENTOURI M.** 2000. Effects of three preservation methods on the evolution of swim bladder radiographic appearance in sea bass and sea bream juveniles. *Aquaculture* 182, 17-25.
59. PAVLIDIS M., KOUMOUNDOUROS G., STERIOTI A., SOMARAKIS S., DIVANACH P., **KENTOURI M.** 2000. Evidence of temperature-dependent sex determination in the European Sea Bass (*Dicentrarchus labrax*). *Journal of Experimental Zoology*. 287: 225-232.
60. KOUMOUNDOUROS G., DIVANACH P., **KENTOURI M.**, 2000. Development of the skull in *Dentex dentex* (Osteichthyes: Sparidae). *Marine Biology*, 136: 175-184
61. ZIKOPOULOS B., **KENTOURI M.**, DERMON CR. 2000. Proliferation zones in adult brain of hermaphrodite teleost species (*Sparus aurata*) : Evidence for sex differences in the hypothalamus. *European Journal of Neuroscience* 12: 5-5, Suppl. S 2000.
62. PASPATIS M., BOUJARD T., MARAGOUDAKI D., **KENTOURI M.** 2000. European sea bass growth and N and P loss under different feeding practices. *Aquaculture*. 184. 77-88.
63. PASPATIS M., MARAGOUDAKI D., **KENTOURI M.**, 2000. Self-feeding activity patterns in gilthead sea bream (*Sparus aurata*), red porgy (*Pagrus pagrus*) and their reciprocal hybrids. *Aquaculture*. 190, 389- 401.
64. DIVANACH P., **KENTOURI M.**, 2000. Hatchery techniques for specific diversification in Mediterranean finfish larviculture. *Cahiers Options Méditerranéennes*, vol. 47. CIHEAM, FAO Eds, 75-88.
65. FOSTIER A., KOKOKIRIS L., LE MENN F., MOUROT B., PAVLIDIS M., DIVANACH P., **KENTOURI M.**, 2000. Recent advances in reproduction aspects of *Pagrus pagrus*. *Cahiers Options Méditerranéennes*, vol. 47. CIHEAM, FAO Eds, 181-192.
66. ZIKOPOULOS B., **KENTOURI M.**, DERMON C.R., 2000. Proliferation zones in the adult brain of a sequential hermaphrodite Teleost Species (*Sparus aurata*). *Brain, Behavior and Evolution*, 56, 310-322.
67. KOUMOUNDOUROS G., DIVANACH P., **KENTOURI M.** 2001. Osteological development of *Dentex dentex* (Osteichthyes: Sparidae): dorsal, anal, paired fins and squamation. *Marine Biology*, 138: 399-406.
68. KOUMOUNDOUROS G., SFAKIANAKIS D.G., MAINGOT E., DIVANACH P., **KENTOURI M.**, 2001. Osteological development of the vertebral column and of the fins in *Diplodus sargus* (Teleostei: Perciformes: Sparidae). *Marine Biology*, 139: 853-862.
69. KOUMOUNDOUROS G., DIVANACH P., ANEZAKI L., **KENTOURI M.**, 2001. Temperature-induced ontogenetic plasticity in sea bass (*Dicentrarchus labrax*). *Marine Biology*, 139: 817-830.
70. ZIKOPOULOS V., **KENTOURI M.**, DERMON C., 2001. Cell genesis in the hypothalamus is associated to the sexual phase of a hermaphrodite teleost. *Developmental neuroscience*, 12, 11, 2477-2481 p
71. WILKES D., XIE Q., STICKLAND N.C., ALAMI-DURANTE H., **KENTOURI M.**, STERIOTO A., KOUMOUNDOUROS G., FAUCONNEAU B., GOLDSPIK G., 2001. Temperature and myogenic factor transcript levels during early development determine muscle growth potential in rainbow trout (*Oncorhynchus mykiss*) and sea bass (*Dicentrarchus labrax*). *The journal of Experimental Biology* 204, 2763-2771.
72. KOKOKIRIS L., Le MENN F., **KENTOURI M.**, KAGARA M., FOSTIER A., 2001 Seasonal cycle of gonadal development and serum levels of vitellogenin of the red porgy, *Pagrus pagrus* (Teleostei Sparidae). *Marine Biology*, 139: 549-559.
73. KOUMOUNDOUROS G., DIVANACH P., **KENTOURI M.**, 2001. The effect of rearing conditions on development of saddleback syndrome and caudal fin deformities in *Dentex dentex* (L.) *Aquaculture*, 200, 285-304.
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14. ΠΑΠΑΔΑΚΗΣ Ι., ΣΦΑΚΙΑΝΑΚΗΣ Δ.Γ., ΚΟΥΜΟΥΝΔΟΥΡΟΣ Γ., ΜΥΛΩΝΑΣ Κ., DIVANACH P., **KENTOURI M.**, 2003. Επίδραση της θερμοκρασίας στην ανάπτυξη και επιβίωση των νυμφών και ιχθυδίων του λαβρακιού (*Dicentrarchus labrax*). 7ο Πανελλήνιο Συμπόσιο Ωκεανογραφίας και Αλιείας, 6-9 Μαΐου 2003, Χερσόνησος, Κρήτης.
15. ΚΟΥΜΟΥΝΔΟΥΡΟΣ Γ., ΣΦΑΚΙΑΝΑΚΗΣ Δ.Γ., DIVANACH P., **KENTOURI M.**, 2003. Μορφοανατομικές παραμορφώσεις ιχθύων. Έλεγχος, πιστοποίηση και βελτίωση ποιότητας. 7ο Πανελλήνιο Συμπόσιο Ωκεανογραφίας και Αλιείας, 6-9 Μαΐου 2003, Χερσόνησος, Κρήτης.
16. ΠΑΠΑΝΔΡΟΥΛΑΚΗΣ Ν., **KENTOURI M.**, ΣΤΕΦΑΝΑΚΗΣ Σ., ΠΑΠΑΔΑΚΗΣ Ι., ΜΑΙΝΓΟΤ Ε., ΣΦΑΚΑΚΗ Ε., DIVANACH P., 2003. Εκτροφή τριών θερινών Μεσογειακών ειδών ιχθύων (*Pagellus erythrinus*, *Sciaena umbra*, *Erinophilus marginatus*) με την τεχνολογία του Μεσοκόσμου. Συμπόσιο Ωκεανογραφίας και Αλιείας, 6-9 Μαΐου 2003, Χερσόνησος, Κρήτης.
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18. ΓΕΩΡΓΑΚΟΠΟΥΛΟΥ Ε., ΚΟΥΤΤΟΥΚΗ Σ., ΣΦΑΚΙΑΝΑΚΗΣ Δ., DIVANACH P., **KENTOYPH M.**, ΚΟΥΜΟΥΝΔΟΥΡΟΣ Γ. 2004. Φαινοτυπική πλαστικότητα του λαβρακιού (*Dicentrarchus labrax*) . 26^ο Συνέδριο της Ελληνικής Εταιρείας Βιολογικών Επιστημών. 27-30 Μαΐου 2004. Βόλος.
19. ΝΕΟΦΥΤΟΥ Μ., ΣΦΑΚΙΑΝΑΚΗΣ Δ.Γ., ΚΟΥΜΟΥΝΔΟΥΡΟΣ Γ., ΜΥΛΩΝΑΣ Κ.Κ., **KENTOURI M.**, 2006. Osteological development of the vertebral column and of the fins in shi drum, *Umbrina cirrosa* L. In: AQUA2006 – International Conference. Florence, Italy. May 9-13, 2006. World Aquaculture Society, pp. 654.
20. ΓΕΩΡΓΑΚΟΠΟΥΛΟΥ Ε., ΣΦΑΚΙΑΝΑΚΗΣ Δ. Γ., ΚΟΥΤΤΟΥΚΗ Σ., DIVANACH P., **KENTOURI M.**, ΚΟΥΜΟΥΝΔΟΥΡΟΣ Γ., 2006. Temperature-induced phenotypic plasticity in sea bass, *Dicentrarchus labrax*. In: AQUA2006 – International Conference. Florence, Italy. May 9-13, 2006. World Aquaculture Society, pp. 338.
21. CHRISTODOULOU S., GUEDES M.J., ΣΦΑΚΙΑΝΑΚΗΣ Δ.Γ., **KENTOURI M.**, CARVALHO A.P., OLIVA-TELES A., ΚΟΥΜΟΥΝΔΟΥΡΟΣ Γ., 2006. Nutritional and behavioural effects on lordosis development in

Dicentrarchus labrax (Linnaeus, 1758) (Actinopterygii, Moronidae). In: 10th ICZEGAR – International Conference. Patra, 26-30 June 2006. Book of Abstracts, pp. 124.

22. ΔΟΞΑ Χ.Κ., ΣΦΑΚΙΑΝΑΚΗΣ Δ.Γ., ΚΟΥΤΟΥΚΓΗ Σ., ΚΟΥΜΟΥΝΔΟΥΡΟΣ Γ., ΜΑΙΝΓΟΤ Ε., DIVANACH P., **KENTOYPH M.**, 2006. Οστεολογική ανάπτυξη της σπονδυλικής στήλης και των πτερυγίων στο μυτάκι, *Diplodus puntazzo* (Cetti, 1777). 8^ο Πανελλήνιο Συμπόσιο Ωκεανογραφίας και Αλιείας, 4-8 Ιουνίου 2006, Θεσσαλονίκη, pp. 236-239.

23. ΛΑΓΚΗ Α., ΣΦΑΚΙΑΝΑΚΗΣ Δ., ΛΕΡΗΣ Ι., **KENTOYPH M.**, 2007. Επίδραση της θερμοκρασίας ανάπτυξης στις σκελετικές παραμορφώσεις και στους μεριστικούς χαρακτήρες στο zebrafish, *Danio rerio* (Hamilton, 1822). Προφορική παρουσίαση. 13^ο Πανελλήνιο Συνέδριο Ιχθυολόγων, «Υδάτινοι βιολογικοί πόροι και οικοσυστήματα. Διαχείριση – Αξιοποίηση – Προστασία». 27-30 Σεπτεμβρίου 2007, Μυτιλήνη.

24. PΑΡΑΔΑΚΙΣ V.M., ANTONAKAKI A., GLAROPOULOS A., **KENTOURI M.**, 2013. A methodology for the analysis of sea bream larvae behaviour in aquaculture. Aquaculture 2013 . To the next 40 years of sustainable global aquaculture. Gran Canaria. 3rd-7th November, 2013.

25. GLAROPOULOS A., ALVANOPOULOU M., PΑΡΑΔΑΚΙΣ V.M., PANISELLO-ROSELLO A., PΑΡΑΔΑΚΙΣ I.E., **KENTOURI M.**, 2013. Social hierarchy of gilthead sea bream (*Sparus aurata* L.) under experimental conditions. A behavioral approach of dominance. Aquaculture 2013 . To the next 40 years of sustainable global aquaculture. Gran Canaria. 3rd-7th November, 2013.

26. GLAROPOULOS A., PΑΡΑΔΑΚΙΣ V.M., PΑΡΑΔΑΚΙΣ I.E., **KENTOURI M.**, 2013. Pre-Escape behavior of sea bream and sea bass in aquaculture. Aquaculture 2013 . To the next 40 years of sustainable global aquaculture. Gran Canaria. 3rd-7th November, 2013.

J. Technical-economical studies

1. **KENTOURI M.**, ANANIADES C., 1981: Pré-projet d' élevage à Menidi Amvrakikos. Document techno-économique. SOCIETE TOLIAS, 8 p. (en Grec).

2. **KENTOURI M.**, ANANIADES C., 1982 : Pré-projet techno-économique d' une structure d' élevage de poissons euryhalins dans la baie de Koprenis Amvrakikos. SOCIETE TOLIAS, 10 p. (en Grec).

3. **KENTOURI M.**, 1983 : Propositions pour la création d' une unité expérimentale en aquaculture à l' aquarium de Rhodes. Document technique préparé à la demande du Département de Dodécane et du Ministère de l' Energie, Recherche et Industrie en Grèce. 38 p. (en Grec).

4. **KENTOURI M.**, ANANIADES C., 1986 : Projet de réalisation d' une ferme de production de loup et des moules. Etude technicoéconomique et plans de réalisation. SOCIETE EURYALOS, 34 p. (En Grec).

K. Master and PhD theses

1. **KENTOURI M.**, 1977 : Effet du phénol sur les œufs et larves de poissons marins. Mémoire de D.E.A., Université d' Aix Marseille II - Station Marine d' Endoume, 35 p.

2. **KENTOURI M.**, 1978 : Contribution à l' étude de l' alimentation des larves de loup, *Dicentrarchus labrax*, à l' aide d' organismes du zooplancton congelés. Thèse de 3^{ème} Cycle. Université d' Aix - Marseille II, 117 p.

3. **KENTOURI M.**, 1985 : Comportement larvaire de 4 Sparidés Méditerranéens en élevage : *Sparus aurata*, *Diplodus sargus*, *Lithognathus Mormyrus*, *Puntazzo puntazzo* (Poissons Téléostéens). Thèse de Doctorat ès Sciences. Université des Sciences et Techniques du Languedoc, Montpellier, 492 p.

L. Production of education media

1. “Mesocosm Technology for Marine Finfish Larviculture” Video Educatif, duree : 45'. May 1999. (Scientific co-Responsibility and Coordination)

2. «Mesocosm Technology for Marine Finfish Larviculture». C.D. - Rom. July 2000 (Scientific co-Responsibility and Coordination)

3. «Mesocosm Technology for Marine Finfish Larviculture». Handbook. February 2002 (Scientific co-Responsibility and Coordination)

4. Power point Presentation of the Biology Department. February 2002. ((Scientific co-Responsibility and Coordination)

List of Research & Education Grants (coordination (C), Principal Investigator (PI), Main Researcher (MR))

- 1982-84 : ATP* - Biological Bases of Aquaculture - C.N.EX.O. - C.N.R.S.: “Ethological studies of larvae and juvenile populations of *Sparus aurata*, *Diplodus sargus* and *Dicentrarchus labrax*: Feeding behavior and behavior of the group”. (Lab. Financing: 192.000 FFR) (PI).
- 1984 : Compagnie des Salins du Midi et des Salines de l’Est. - University of Sciences and Techniques of Languedoc, Montpellier. Ten month program for the education of scientific personnel. (Lab. Financing: 50.000 FFR) (C).
- 1984-86 : I.F.RE.MER., SIG-AMR: “Activité manipulative et trophique des stades alevins et juvéniles de poissons marins dans le cadre d’un libre prélèvement de la nourriture. Cas du loup *Dicentrarchus labrax*”. (Lab. Financing: 200.000 FFR) (PI).
- 1986-87 : I.F.RE.MER., SIG-AMR: “Modalités de régulation trophique saisonnière du loup *Dicentrarchus labrax* en relation avec le niveau énergétique des aliments” (Lab. Financing: 70.000 FFR) (PI).
- 1985-87: Two year research project made in collaboration with the institutions: I.N.R.A., I.F.RE.MER., and U.S.T.L. - Montpellier. Jointly in charge: Mr. Paris (U.S.T.L.), Mr. Bergot (I.N.R.A.), Mr. Muller-Feuga (I.F.RE.MER.). “Dispositif d’élevage des larves de poissons d’eau douce et marins avec des aliments artificiels”. (Lab. Financing: 800.000 FFR) (PI).
- 1988-89: Ministry of Research and Technology - Bilateral Relations Department. “Programme commun de recherche en aquaculture”. Cooperation with U.S.T.L. Montpellier and S.B.M.L. - Sète, France (Financing for 3 journeys and 3 15day stays abroad for each party) (C).
- 1988-93 : MIP “ Practical training on aquaculture” (Lab. Financing: 723.750 Ecus) (C).
- 1988-90 : COMETT - EEC (883- 1254 C-1): “Aquabiogestion” (Lab. Financing: 14.000.000 Drachmas) (MR).
- 1989-92: FAR (AQ 31.1.280) - Direction Generale des Pêches. - EEC “A comparison of cost effectiveness of a commercial food pellet with manual, automatic and self - demand distribution for sea bass (*Dicentrarchus labrax* L.) rearing”. (Lab. Financing: 106.728 Ecus) (C).
- 1990-93: EEC - PRD (14 ITHA 3) “Technology for a fish self-feeder mechanism”. Jointly in charge: Dr P. Divanach (Lab. Financing: 80.000.000 Drachmas) (C).
- 1990-93: EEC - PRD (14 ITHA 4) “Infrastructure for a fish hatchery station and a piscicultural park” (Lab. Financing: 140.000.000. Drachmas) (C).
- 1990-93: EEC - PRD. Acclimatizing of wild fish to rearing conditions.” (Lab. Financing: 30.000.000 Drachmas) (C).
- 1990-93: EEC. - PRD (14 ITHA 5): “Rearing of new species (Sharp snout sea bream, *Puntazzo puntazzo*) ”. (Lab. Financing: 70.000.000 Drachmas) (P).
- 1991-93: STRIDE: Aqua banc. (Lab. Financing: 70.000.000 Drachmas) (C).
- 1991-94: FAR: AQ 2429. Comparison study of cost effectiveness with growth performance of sea bream larvae *Sparus aurata* reared in 2 geographical climates. (Lab. Financing: 53.655.000 GDR) (C).
- 1992 : EEC - Division XIV: “Interactions aquaculture-environnement” (Lab. Financing: 35.000 Ecus) (C).

- 1992-96: AIR 1-CT92 - 0286: "Microalgae biomass from photo bioreactors as food for fish and shellfish larvae". (Lab. Financing: 293.750 Ecus) (PI).
- 1993-96 : AIR 2-CT93- 1589 : "Cycles sexuels et performances de croissance du Pagre, *Pagrus pagrus*, dans des conditions d'élevage : application à la gestion des géniteurs et au contrôle de la ponte. (Lab. Financing: 236.800 Ecus) (PI)
- 1993-95 : RECITE : Etude de développement de l'aquaculture en Crète. (Lab. Financing: 136.800 Ecus). (C).
- 1994-99: COST: Regulation of voluntary food intake in fish (MR).
- 1994-96 : (AIR - ERB4001GT941416). « Elevages larvaires de poissons Méditerranéens. Optimisation de la production en Mesocosmes et diversification des espèces ». (Lab. Financing: 52.045 Ecus). (C.)
- 1994-96: EPET II: Pellet formulation of high nutritive value and low environmental impact (C).
- 1994-96: (CRAFT: BFE2-CT94-1415) Fry and larvae counting program. (FRYLACOP). (Lab. Financing: 84.900 Ecus) (PI).
- 1995-96 : IFOP 94/C 185/08. Etude de faisabilité de mise en réseau de Centres de recherche méditerranéens de référence sur l'intégration de l'aquaculture dans la bande côtière. (PI).
- 1995-98: AIR: A comprehensive genetic study of cultured and wild stocks of gilthead sea bream (*Sparus aurata*) and genetic assessment of several species as candidates. . (Lab. Financing: 192.000 Ecus). (PI).
- 1995-97: Ministry of Research and Technology "EIEP 32" Mesocosm: a new rearing method for *S. aurata* and *D. sargus* larvae production. (Lab. Financing: 8.000.000 Drachmas). (C).
- 1996-98 : "YPER"- Ministry of Research and Technology. Ontogenesis of *Dentex dentex* larvae and definition of quality criteria. (Lab. Financing: 13.000.000 Drachmas). (C).
- 1996-98: Ministry of Research and Technology - Bilateral Relations Department: Definition of rearing conditions for red sea bream (*Pagrus pagrus*) larvae. Cooperation Program with Cyprus. (Lab. Financing: 1.680.000 Drachmas). (C).
- 1997-99: FAIR: An integrated study of inter-individual competition and its relationships with feeding physiology and behavior in cultured predatory fish. (Lab. Financing: 230.000 Ecus). (PI).
- 1997-99: FAIR: Early control of growth for fish production with special reference to muscle development, gene expression and temperature. (Lab. Financing: 240.000 Ecus). (PI).
- 1997-01: EU - Article 10: Inter Regional Action for technology transfer. (Lab. Financing: 75.000 Ecus). (PI)
- 1998-01: "YPER"- Ministry of Research and Technology: Effect of time and population density on feeding behavior, growth and flesh quality of *P. pagrus*. (Lab. Financing: 13.000.000 Drachmas). (C).
- 1997-00: "EPEAEK"- Ministry of Education. Undergraduate Students Industrial Practice (University of Crete - Department of Biology). (Total Budget: 69.700.000 Drachmas) (MR).
- 1998-00: "EPEAEK" - Ministry of Education. Postgraduate Educational Program on Management of Coastal Resources. (Total Budget: 139.200.000 Drachmas) (MR).
- 1998-00: "96 SYN 179"- Ministry of Research and Technology: Development of fish traps for the capture escaped individuals from rearing systems. (Total Budget: 49.565.000 Drachmas) (MR).

- 1999-01: “PENED”- Ministry of Research and Technology. Genomic analysis in sea bream *Sparus aurata*. (Total Budget: 60.000.000 Drachmas). (MR).
- 1999: COST Action 827. (Colloquia 9901023). Coordinator : Univ. of Crete , Department of Biology (C).
- 1999-01: “EPET”- Ministry of Research and Technology. Réseau thématique en aquaculture marine. (MR).
- 2001-04: AIR (QLRT-2000-01233). Optimization of rearing conditions in sea bass for eliminated lordosis and improved musculoskeletal growth (O.R.C.I.S.). (Lab. Financing: 339.000 Euros). (PI).
- 2001-04: AIR (Q5RS-2000-31629). Environmental, nutritional and neuroendocrine regulation of skin coloration in the red porgy (*Pagrus pagrus*), towards the development of natural hue in cultured populations (COLORED). (Lab Financing: 330.000 Euros). (MR).
- 2001-03: Ministry of Research and Technology - Bilateral Relations Department. “Développement de méthodes de contrôle de la maturation sexuelle et de l'élevage de *Umbrine cirrosa*”. Cooperation with the Ministry of Agriculture of Cyprus (Lab Financing: 1.690.000 Drachmas). (MR).
- 2000-03: “EPEAEK” - Ministry of Education. Postgraduate Educational Program on Management of Coastal Resources. (Total Budget: 145.000 Euros). (PI).
- 2003-05: “EPEAEK” - Ministry of Education. Graduate Educational Program on Management of Coastal Resources. (Total Budget: 299.500 + 65.000 Euros). (C).
- 2003-05: CRAFT project Q5CR-2002-71720. Estimation of genetic parameters for sea bass. (HERITABOLUM) (Lab Financing: 92.000 Euros). (PI).
- 2003-06: “PENED”- Ministry of Research and Technology. Sound utilization for reared fish management. (Total Budget : 63.400 Euros) (C).
- 2003-06. “EPAN”- Ministry of Research and Technology. Optimization of the production of valuable Mediterranean finfish for aquaculture purposes. (OPTIMA) (Total Budget: 519.411 Euros). (PI).
- 2004-06: “ARCHIMEDE” Ministry of Education. Sound influence on behavior and growth of *Sparus aurata* and *Dicentrarchus labrax*. (Total Budget: 659.411 Euros). (PI).
- 2004-06: ‘PYTHAGORAS’ Ministry of Education. Influence of environmental factors on Zebra fish, *Danio rerio* (Hamilton, 1822) sex determination. Differentiation of reproductive and central neural systems. (Total budget : 75.000 Euros). (C).
- 2006-08: European Commission. Sixth Framework Program Priority 8.1 Policy. SSP-4-FISH – Area 8.1. B1.3: Task 8. (Contract : 022720) On farm assessment of stress level in fish (FASTFISH) (Lab. Financing: 181.968 Euros) (PI).
- 2007-10. Sixth Framework Program. Priority (FP6-2005-SSP5A). Sustainable extensive and semi-intensive coastal aquaculture in Southern Europe (Sea case). Contract no.: 044483 (Lab financing: 34.820 Euros). (PI).
- 2008-10: Effect of rearing temperature in the swimming activity and the metabolism of lactate in Zebra fish (*Danio rerio*, Hamilton 1822). Research Committee of the University of Crete (Lab. Financing: 3.000 Euros) (PI).
- 2009-11: Swimming differentiation between male and female individuals of Zebra fish (*Danio rerio*, Hamilton 1822) Research Committee of the University of Crete (Lab. Financing: 17.600 Euros) (PI).
- 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-cage aquaculture (Prevent Escape) (Contact 226885). (UOC financing 279.009 Euros). (PI)

- **2010-13: 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). (PI)**
- **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* (UOC Financing: 57.000 Euros). (PI).**
- **2012-15: kbbe.2010.1.2-07. Understanding of the basic mechanisms involved in coping strategies of fish towards improvement of welfare – Call: FP7-KBBE-2010-4. “ A new integrative framework for the study of fish welfare based on the concepts of allostasis, appraisal and coping styles (COPWELL). (Lab. Financing: 40.000 Euros). (PI)**
- **2012-15: “ARCHIMEDE”. Ministry of Education. National Strategic Reference Framework (NSRF) 2007-2013). Sound production mechanisms of three fish species (sea bream, sea bass and zebrafish) and their sound scattering characteristics. (Total Budget: 100.000 E) (PI).**
- **2012-15: Competitiveness & Entrepreneurship. National Strategic Framework NSRF 2007-13. National Action: “Cooperation”. Sub-Action II: “Small and Medium Scale Cooperative Projects”. Fish Fry Recruiting Devices. (UOC Financing: 30.000 Euros). (PI).**