

# 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.

### 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 1<sup>st</sup> 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 Océans, 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: 111
- 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): > 120
- Total Number of Citations: 1593 (1169 excluding self-citations of all types) (Scopus)
- H-Index: 22 (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. *Cybium*, 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+ sauvage 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'Écologie* 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 ichtyoplantonique 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., ELEFATHERIOU 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. *Ichthyophysiological 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. *Ichthyophysiological 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. BENGUA-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. PAPANDROULAKIS 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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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., MAINGOT E., ΣΦΑΚΑΚΗ Ε., DIVANACH P., 2003. Εκτροφή τριών θερινών Μεσογειακών ειδών ιχθύων (*Pagellus erythrinus*, *Sciaena umbra*, *Epinephelus marginatus*) με την τεχνολογία του Μεσοκόσμου. Συμπόσιο Ωκεανογραφίας και Αλιείας, 6-9 Μαΐου 2003, Χερσόνησος, Κρήτης.
17. STERIOTI A., DIVANACH P., **KENTOURI M.**, 2003. A comparison of 3 food chains in the winter production of larval sea bream (*Sparus aurata*) using mesocosm technology. Aquaculture Europe 2003. Conference on "Beyond Monoculture", Trondheim, Norway, August 8-12, 2003

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19. ΝΕΟΡΗΥΤΟΥ Μ., ΣΦΑΚΙΑΝΑΚΗΣ Δ.Γ., ΚΟΥΜΟΥΝΔΟΥΡΟΣ Γ., ΜΥΛΟΝΑΣ C.C., **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. ΧΡΗΣΤΟΔΟΥΛΟΥ Σ., ΓΚΕΔΕΣ Μ.Ι., 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: 10<sup>th</sup> ICZEGAR – International Conference. Patra, 26-30 June 2006. Book of Abstracts, pp. 124.
22. ΔΟΞΑ Χ.Κ., ΣΦΑΚΙΑΝΑΚΗΣ Δ.Γ., ΚΟΥΤΤΟΥΚΗ 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<sup>ο</sup> 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<sup>ο</sup> Πανελλήνιο Συνέδριο Ιχθυολόγων, «Υδάτινοι βιολογικοί πόροι και οικοσυστήματα. Διαχείριση – Αξιοποίηση – Προστασία». 27-30 Σεπτεμβρίου 2007, Μυτιλήνη.

## **J. Technical-economical studies**

1. **KENTOURI M.**, ANANIADES C., 1981: Pré-projet d' élevage à Menidi Amvrakikos. Document technico-économique. SOCIETE TOLIAS, 8 p. (en Grec).
2. **KENTOURI M.**, ANANIADES C., 1982 : Pré-projet technico-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 Dodécanèse 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 technico-économique 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 3ème 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).**