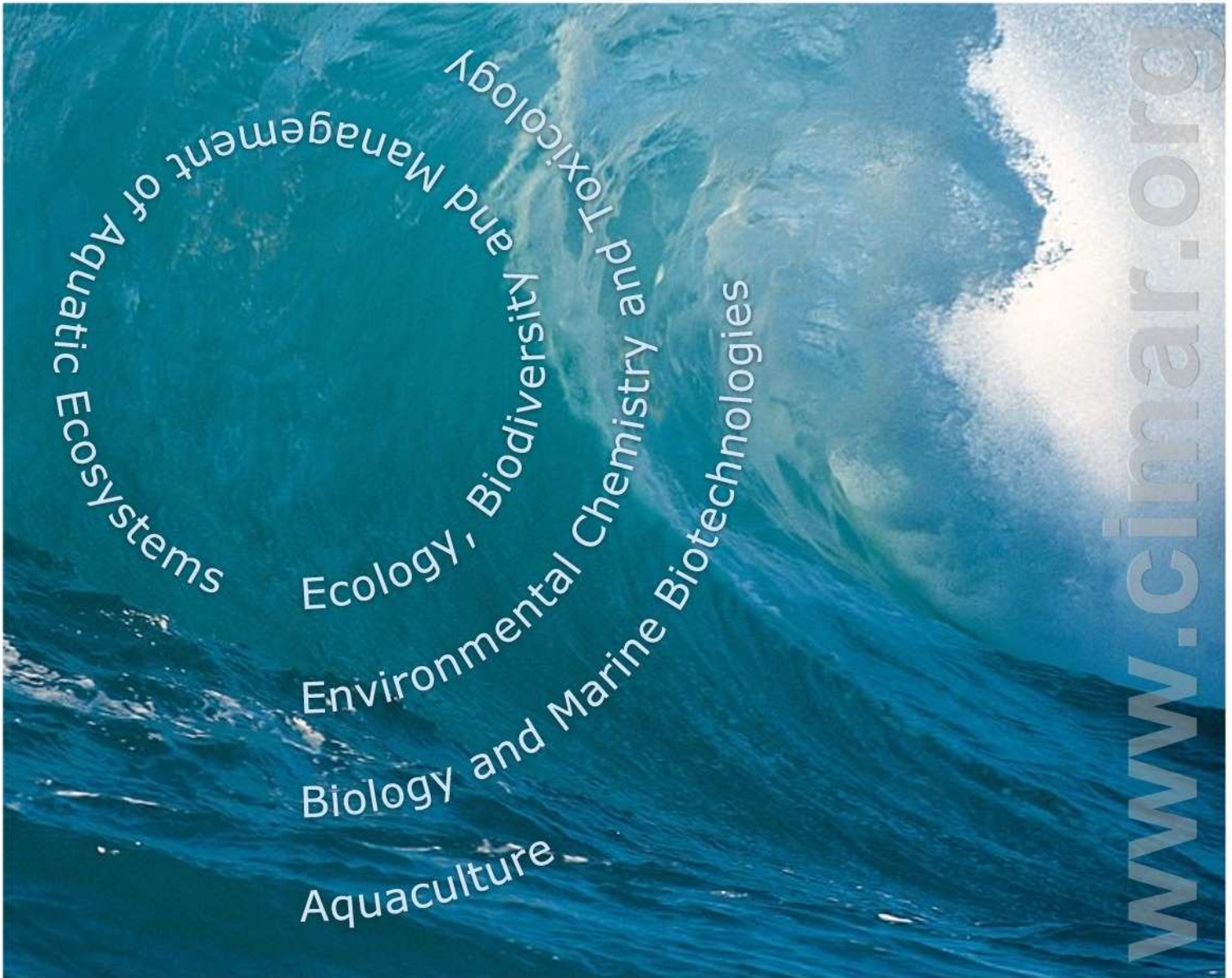


CIMAR

2003-2005

SCI Publications List



CIMAR Associate Laboratory is formed by CIIMAR (University of Porto) and CCMAR (University of Algarve)



Centre of Marine and Environmental Research

CIMAR

2003-2005

SCI Publications List

September 2006

Gabinete de Imagem e Comunicação, CIMAR

© 2006, Centro de Investigação Marinha e Ambiental - Laboratório Associado

2005 (193 articles)

1. **Abrantes, F.**, Gil, I., Lopes, C., **Castro, M.**, 2005. Quantitative diatom analyses - A faster cleaning procedure. *Deep-Sea Research Part I-Oceanographic Research Papers*, **52**: 189-198.
2. **Abrantes, F.**, Lebreiro, S., Rodrigues, T., Gil, I., Bartels-Jónsdóttir, H., Oliveira, P., Kissel, C., e Grimalt, J.O., 2005. Shallow-marine sediment cores record climate variability and earthquake activity off Lisbon (Portugal) for the last 2000 years. *Quaternary Science Reviews* **24**: 2477-2494.
3. **Abreu, L.**, **Abrantes, F.**, Shackleton, N.J., Tzedakis, P.C., McManus, J.F., Oppo, D.W., Hall, M.A., 2005. Ocean climate variability in the Eastern North Atlantic during interglacial MIS 11: A partial analogue to the Holocene? *Paleoceanography*, **20**: 1-15.
4. **Afonso A.**, Gomes S, Silva J, Marques F, Henrique M. Side-effects in sea bass (*Dicentrarchus labrax* L.) due to intraperitoneal vaccination against vibriosis and pasteurellosis. *Fish & Shellfish Immunology* **19**: 1-16, 2005.
5. **Afonso-Dias, I.**, **Reis, C.**, **Andrade, J.P.**, 2005. Reproductive aspects of *Microchirus azevia* (Risso, 1810) (Pisces: Soleidae) from the south coast of Portugal. *Sci Mar* **69**, 275-283.
6. **Alberto, F.**, **Gouveia, L.**, **Arnaud-Haond, S.**, Perez-Llorens, J.L., Duarte, C.M., **Serrao, E.A.**, 2005. Within-population spatial genetic structure, neighbourhood size and clonal subrange in the seagrass *Cymodocea nodosa*. *Mol. Ecol.* **14**, 2669-2681.
7. **Alexandre, A.**, **Santos, R.**, **Serrao, E.**, 2005. Effects of clam harvesting on sexual reproduction of the seagrass *Zostera noltii*. *Mar. Ecol.-Prog. Ser.* **298**, 115-122.
8. Almada, F., Almada, V.C., Guillemaud, T., **Wirtz, P.**, 2005. Phylogenetic relationships of the north-eastern Atlantic and Mediterranean blenniids. *Biol J Linn Soc* **86**, 283-295.
9. **Almeida C.M.R.**, **Mucha A.P.**, **Vasconcelos M.T.S.D.** "The role of the Salt Marsh Plant on Trace Metal Bioavailability in Sediments- Estimation by Different Chemical Approaches" *Environ. Sci. & Pollut. Res*, **12**: 271-277, 2005.
10. Almeida, C.; **Cardoso, M.F.**, Sousa, M.; Viana, P., Gonçalves, A.; Silva, J.; Barros, A., 2005. Quantitative study of caspase-3 activity in the ejaculate and swim-up regarding semen quality. *Human Reproduction*, **20**: 1307, 2005.
11. **Almeida, O.G.**, **Miranda, A.**, **Frade, P.**, **Hubbard, P.C.**, **Barata, E.N.**, **Canario, A.V.M.**, 2005. Urine as a social signal in the Mozambique tilapia (*Oreochromis mossambicus*). *Chem. Senses* **30**, I309-I310.
12. **Anake Kijjoa**, Júlia Bessa, **Rawiwan Watanadilok**, Pichai Sonchaeng, Pichan Sawangwong, Artur M.S. Silva, Graham Eaton, Rob van Soest and Werner Herz, 2005. Dibromotyrosine Derivatives, a Maleimide, Aplysamine-2 and Other Constituents of the Marine Sponge *Pseudoceratina purpurea*. *Zeitschrift fur Naturforschung* **60b**, 904-908.
13. **Anjos, L.**, **Rotlant, J.**, **Guerreiro, P.M.**, Hang, X., **Canario, A.V.M.**, Balment, R., **Power, D.M.**, 2005. Production and characterisation of gilthead sea bream (*Sparus auratus*) recombinant parathyroid hormone related protein. *Gen. Comp. Endocrinol.* **143**, 57-65.
14. **Araújo R.** Barbara I, **Sousa-Pinto I.** & Quintino, V., 2005. Spatial variability of intertidal rocky shore assemblages in the Northwest coast of Portugal. *Coastal and Shelf Science* **64**:658-670.
15. **Arnaud-Haond, S.**, **Alberto, F.**, **Teixeira, S.**, Procaccini, G., **Serrao, E.A.**, Duarte, C.M., 2005. Assessing genetic diversity in clonal organisms: Low diversity or low resolution? Combining power and cost efficiency in selecting markers. *J. Hered.* **96**, 434-440.
16. **Arnaud-Haond, S.**, F. Blanc, F. Bonhomme, and M. Monteforte., 2005. Recent foundation of Mexican populations of pearl oysters (*Pteria sterna*) revealed by lack of genetic variation on two mitochondrial genes. *Journal of the Marine Biological Association of the United Kingdom*, **85**:363-366.
17. **Azevedo C.**, Corral L., Matos E. Ultrastructure of *Triangulamyxa amazonica* n. gen. and n. sp. (*Myxozoa*, *Myxosporea*), a parasite of the Amazonian freshwater fish, *Sphoeroides testudineus* (Teleostei, Tetraodontidae). *European Journal Of Protistology* **41**: 57-63, 2005.
18. **Azevedo, C.**, Mendonça, I. and Matos, E., 2005. Ultrastructural analysis of Rickettsia-like organisms in the oyster *Crassostrea rizophorae* from the northeastern Atlantic coast of Brazil. *Braz. J. morphol. Sci.*, **22**: 5-8.
19. **Azevedo C.**, Padovan I., Corral L., Padovan P. Ultrastructural description of an unidentified apicomplexan oocyst containing bacteria-like hyperparasites in the gill of *Crassostrea rizophorae*. *Diseases Of Aquatic Organisms* **65**:153-157, 2005
20. **Baptista M.S.**, **Vasconcelos M.T.**, **Cabral J.P.**, Freitas M.C. and Pacheco A.M.G. The ability of biological and organic synthetic materials to accumulate atmospheric particulates containing copper, lead, nickel and strontium. *J. Environ. Monitor.*, **8**, 147-152 (2006).

21. Bargelloni, L., Alarcon, J.A., Alvarez, M.C., Penzo, E., Magoulas, A., **Palma, J.**, Patarnello, T., 2005. The Atlantic-Mediterranean transition: Discordant genetic patterns in two seabream species, *Diplodus puntazzo* (Cetti) and *Diplodus sargus* (L.). *Mol. Phylogenet. Evol.* **36**, 523-535.
22. Barroso, C.M., **Reis-Henriques, M.A., Ferreira, M.**, Gibbs, P.E. and Moreira, M.H., 2005. Organotin contamination, imposex and androgen/oestrogen ratios in natural populations of *Nassarius reticulatus* along a ship density gradient. *Appl. Organometal. Chem.*, **19**: 1141-1148.
23. **Batista-Pinto C**, Rodrigues P, **Rocha E, Lobo-da-Cunha A**, 2005. Identification and organ expression of peroxisome proliferator activated receptors in brown trout (*Salmo trutta f. fario*). *Biochimica et Biophysica Acta* **1731**: 88-94.
24. Bejaoui B., Ben Charrada R., Moussa M., **Ben Hamadou R.**, Harzalla A., Chapelle A., 2005. Caractérisation hivernale de la lagune de Bizerte. Bulletin de l'Institut National des Sciences et Technologies de la Mer, **33** :26-39
25. **Ben Hamadou R.**, F. Ibanez, M. Picheral, G. Gorsky, 2005. Identification of step pattern in ordered data sets using the Walsh transform algorithm. *Ecological Modelling* **182**(1):11-24
26. **Billard, E., Daguin, C., Pearson, G., Serrao, E., Engel, C.**, Valero, M., 2005. Genetic isolation between three closely related taxa: *Fucus vesiculosus*, *F-Spiralis*, and *F-Ceranoides* (Phaeophyceae). *J Phycol* **41**, 900-905.
27. Black, M.P., Moore, B., **Canario, A.V.**, Ford, D., Reavis, R.H., Grober, M.S., 2005. Reproduction in context: Field testing a laboratory model of socially controlled sex change in *Lythrypnus dalli* (Gilbert). *Journal of Experimental Marine Biology and Ecology* **318**, 127-143.
28. **Bordalo A. A** & Vieira, M. E. C., 2005. Spatial variability of phytoplankton, bacteria and viruses in the mesotidal salt wedge Douro Estuary (Portugal). *Estuarine Coastal and Shelf Science* **63** 143-154.
29. **Borges, M.-T.**, Silva, P., Moreira, R., Soares, R., 2005. - Integration of consumer-targeted microalgal production with marine fish effluent biofiltration – a strategy for mariculture sustainability. *Journal of Applied Phycology*, **17**: 187-197
30. **Bos, M.S.** and Baker, T.F., An estimation of the errors in the gravity ocean tide loading computations., *Journal of Geodesy*, DOI 10.1007/s00190-005-0442-5, 2005.
31. **Cabaco, S., Alexandre, A., Santos, R.**, 2005. Population-level effects of clam harvesting on the seagrass *Zostera noltii*. *Mar. Ecol.-Prog. Ser.* **298**, 123-129.
32. **Cabral, João Paulo**, 2005. Concentrations of metals in *Patella intermedia*, *Patella rustica*, *Patella ulyssiponensis* and *Patella vulgata* shells along the Portuguese continental coast. *Bolletino Malacologico* **41**: 23-34.
33. **Cabrita, E.**, Robles, V., Cunado, S., Wallace, J.C., Sarasquete, C., Herraiez, M.P., 2005. Evaluation of gilthead sea bream, *Sparus aurata*, sperm quality after cryopreservation in 5ml macrotubes. *Cryobiology* **50**, 273-284.
34. **Cabrita, E.**, Robles, V., Rebordinos, L., Sarasquete, C., Herraiez, M.P., 2005. Evaluation of DNA damage in rainbow trout (*Oncorhynchus mykiss*) and gilthead sea bream (*Sparus aurata*) cryopreserved sperm. *Cryobiology* **50**, 144-153.
35. **Cardoso, J., Power, D.**, Clark, M., 2005. Comparative study of family 2 GPCRs in *Fugu rubripes*. *Ann Ny Acad Sci* **1040**, 257-260.
36. **Cardoso, J.C.R.**, Clark, M.S., Viera, F.A., Bridge, P.D., Gilles, A., **Power, D.M.**, 2005. The secretin G-protein-coupled receptor family: teleost receptors. *J. Mol. Endocrinol.* **34**, 753-765.
37. **Castilho, R.** and Cyfti, Y. (2005). Genetic differentiation between close Eastern Mediterranean sea bass (*Dicentrarchus labrax* L.) populations. *Journal of Fish Biology*, **67**: 1746-1752
38. **Castro, L.F.C., Santos, M.M. and Reis-Henriques, M.A.**, 2005. The genomic environment around the Aromatase gene: evolutionary insights. *BMC Evol. Biol.*, **5**:43.
39. **Castro, M., Araujo, A., Monteiro, P.**, 2005. Fate of discards from deep water crustacean trawl fishery off the south coast of Portugal. *New Zeal J Mar Fresh* **39**, 437-446.
40. **Coelho, R., Erzini, K.**, 2005. Length at first maturity of two species of lantern sharks (*Etmopterus spinax* and *Etmopterus pusillus*) off southern Portugal. *J. Mar. Biol. Assoc. U.K.* **85**, 1163-1165.
41. **Coelho, R., L. Bentes, C. Correia, J.M.S. Gonçalves, P.G. Lino, P. Monteiro, J. Ribeiro and K. Erzini.**, 2005. Age, growth and reproduction of the axillary seabream, *Pagellus acarne* (Risso,1827), from the south coast of Portugal. *Thalassas* **21**: 79-84.
42. **Coelho, R.; Erzini, K.; Bentes, L.; Correia, C.; Lino, P.G.; Monteiro, P.; Ribeiro, J. and Gonçalves, J.M.S.**, 2005. Semi-pelagic longline and trammel net elasmobranch catches in Southern Portugal: catch composition, catch rates and discards. *Journal of Northwest Atlantic Fishery Science*, **35**: 531-537.
43. **Coimbra, A.M. and Reis-Henriques, M.A.**, 2005. Nile tilapia, *Oreochromis niloticus* L., reproduction inhibition by dietary exposure to Aroclor 1254. *Bull. Environ. Contam. Toxicol.*, **75**: 407-412.

44. **Coimbra, A.M., Reis-Henriques, M.A.** and Darras, V.M., **2005**. Circulating thyroid hormone levels and iodothyronine deiodinase activities in Nile tilapia (*Oreochromis niloticus*) following dietary exposure to Endosulfan and Aroclor 1254. *Comp. Biochem. Physiol.*, **C141**: 8-14.
45. Correia, M., Domingues, P.M., Sykes, A., Andrade, J.P., 2005. Effects of culture density on growth and broodstock management of the cuttlefish, *Sepia officinalis* (Linnaeus, 1758). *Aquaculture* 245, 163-173.
46. Costa, F.O.; Neuparth, T.; **Correia A.D.**; Lima G. and Costa M.H., 2005. Multi-level assessment of chronic toxicity of estuarine sediments with the amphipod *Gammarus locusta*: II. Individual and population endpoints. *Mar. Environ. Res.*, **60**: 93-110
47. **Costa, M.E., Erzini, K., Borges, T.**, 2005. Reproductive biology of the blackmouth catshark, *Galeus melastomus* (Chondrichthyes : Scyliorhinidae) off the south coast of Portugal. *J. Mar. Biol. Assoc. U.K.* 85, 1173-1183.
48. **Cristo, M., Castro, M.**, 2005. Field estimation of daily ration of Norway lobster (*Nephrops norvegicus*) in the south of Portugal. *New Zeal J Mar Fresh* 39, 485-491.
49. **Cruz, C., Vaz, A., Saraiva, A.**, 2005. Larval anisakids from horse mackerel in Portugal. *Helminthologia* **42** (1): 3-7.
50. **Cruzeiro, L.**, 2005. Influence of the nonlinearity and dipole strength on the amide I band of protein α -helices. *J. Chem. Phys.*123, 234909.
51. **Cruzeiro, L.**, 2005. Why are proteins with Glutamine- and Asparagine-rich regions associated with protein misfolding diseases? *J. Phys.: Condens. Matter* 17, 7833-7844
52. **Cunha, A.H.**, Duarte, C.M., 2005. Population age structure and rhizome growth of *Cymodocea nodosa* in the Ria Formosa (southern Portugal). *Mar. Biol.* 146, 841-847.
53. **Cunha, A.H., Santos, R.P.**, Gaspar, A.P., Bairros, M.F., 2005. Seagrass landscape-scale changes in response to disturbance created by the dynamics of barrier-islands: A case study from Ria Formosa (Southern Portugal). *Estuar Coast Shelf S* 64, 636-644.
54. **Cunha, I.**; Garcia, L.M.; **Guilhermino, L.**, 2005. Sea-urchin (*Paracentrotus lividus*) glutathione S-transferases and cholinesterase activities as biomarkers of environmental contamination. *Journal of Environmental Monitoring* **7**: 288-294.
55. **Cunha, I.**; Hoff, P.; Van de Vijver, K.; **Guilhermino, L.**; Esmans, E.; de Coen, W., 2005b. Baseline study of perfluorooctane sulfonate occurrence in mussels, *Mytilus galloprovincialis*, from North-central Portuguese estuaries. *Marine Pollution Bulletin* **50**: 1128-1132.
56. **Cunha, R.L., Castilho, R.**, Rüber, R. and Zardoya, R. (2005). Patterns of Cladogenesis in the Venomous Marine Gastropod Genus *Conus* from the Cape Verde Islands. *Systematic Biology*, **54**(4):634650.
57. Dias, N., **Sprung, M.**, Hassall, M., 2005. The abundance and life histories of terrestrial isopods in a salt marsh of the Ria Formosa lagoon system, southern Portugal. *Mar. Biol.* 147, 1343-1352.
58. Dias, P., **Eiras, J.C.** & Davies, A.J., 2005. A six-month duration, follow-up study of *Haemogregarina bigemina* at Foz do Douro, North Portugal, between ten and twenty years on. *Bull. Eur. Ass. Fish Pathol.*, **25**: 161-165.
59. **Dias, P.J.**, Eiras, J.C., Davies, A.J., 2005. A six-month duration, follow-up study of *Haemogregarina bigemina* at Foz do Douro, North Portugal, between ten and twenty years on. *B Eur Assoc Fish Pat* 25, 161-165.
60. **Diekmann, O.E.**, Coyer, **J.A.**, **Ferreira, J.**, Olsen, J.L., Stam, W.T., **Pearson, G.A.**, **Serrao, E.A.**, 2005. Population genetics of *Zostera noltii* along the west Iberian coast: consequences of small population size, habitat discontinuity and near-shore currents. *Mar. Ecol.-Prog. Ser.* 290, 89-96.
61. Domingues, P.M., Dimarco, F.P., Andrade, J.P., Lee, P.G., 2005. Effect of artificial diets on growth, survival and condition of adult cuttlefish, *Sepia officinalis* Linnaeus, 1758. *Aquac. Int.* 13, 423-440.
62. **Eiras, J.C.**, 2005. An overview on the myxosporean parasites in amphibians and reptiles. *Acta Parasitol.*, 50: 267-275.
63. **Eiras, J.C.**, Malta, J.C.O., Varella, A.M.B. & Pavanelli, G.C., 2005. *Myxobolus insignis* sp. n. (Myxozoa, Myxosporaea, Myxobolidae), a parasite of the Amazonian teleost fish *Semaprochilodus insignis* (Osteichthyes, Prochilodontidae). *Mem. Inst. Oswaldo Cruz*, **100**: 245-247
64. **Eiras, J.C.**, Molnár, K. & Lu, Y.S., 2005. Synopsis of the species of the genus *Myxobolus* Bütschli, 1882 (Myxozoa, Myxosporaea, Myxobolidae). *Syst. Parasitol.*, **61**: 1-46.
65. **Elandalloussi, L.M., Leite, R.B., Rodrigues, P.M., Afonso, R., Nunes, P.A., Cancela, M.L.**, 2005. Effect of antiprotozoal drugs on the proliferation of the bivalve parasite *Perkinsus olseni*. *Aquaculture* 243, 9-17.
66. **Elandalloussi, L.M., Rodrigues, P.M., Afonso, R., Leite, R.B., Nunes, P.A., Cancela, M.L.**, 2005. Shikimate and folate pathways in the protozoan parasite, *Perkinsus olseni*. *Mol. Biochem. Parasitol.* 142, 106-109.

67. **Elumalai, M.; Antunes, J.C.; Guilhermino, L.**, 2005. Alterations of reproductive parameters in the crab, *Carcinus maenas*, after exposure to metals. *Water, Air, and Soil Pollution* **160**: 245-258.
68. Elworthy, S., **Pinto, J.P.**, Pettifer, A., **Cancela, M.L.**, Kelsh, R.N., 2005. Phox2b function in the enteric nervous system is conserved in zebrafish and is sox10-dependent. *Mech. Dev.* **122**, 659-669.
69. **Engel, C.R., Daguin, C., Serrao, E.A.**, 2005. Genetic entities and mating system in hermaphroditic *Fucus spiralis* and its close dioecious relative *F. vesiculosus* (Fucaceae, Phaeophyceae). *Mol. Ecol.* **14**, 2033-2046.
70. **Engelen, A.H.**, Aberg, P., Olsen, J.L., Stam, W.T., Breeman, A.M., 2005. Effects of wave exposure and depth on biomass, density and fertility of the furoid seaweed *Sargassum polyceratum* (Phaeophyta, Sargassaceae). *Eur J Phycol* **40**, 149-158.
71. **Engelen, A.H.**, Breeman, A.M., Olsen, J.L., Stam, W.T., Aberg, P., 2005. Life history flexibility allows *Sargassum polyceratum* to persist in different environments subjected to stochastic disturbance events. *Coral Reefs* **24**, 670-680.
72. **Engrola, S., Conceicao, L.E.C., Gavaia, P.J., Cancela, M.L., Dinis, M.T.**, 2005. Effects of pre-weaning feeding frequency on growth, survival, and deformation of Senegalese sole, *Solea senegalensis* (Kaup, 1858). *Isr. J. Aquac.-Bamidgeh* **57**, 10-18.
73. **Erzini, K.**, 2005. Trends in NE Atlantic landings (southern Portugal): identifying the relative importance of fisheries and environmental variables. *Fish Oceanogr* **14**, 195-209.
74. **Erzini, K.**, Inejih, C.A.O., Stobberup, K.A., 2005. An application of two techniques for the analysis of short, multivariate non-stationary time-series of Mauritanian trawl survey data. *Ices J Mar Sci* **62**, 353-359.
75. **Estevao, M.D., Redruello, B., Canario, A.V.M., Power, D.M.**, 2005. Ontogeny of osteonectin expression in embryos and larvae of sea bream (*Sparus auratus*). *Gen. Comp. Endocrinol.* **142**, 155-162.
76. Fabra, M., Raldua, D., **Power, D.M.**, Deen, P.M.T., Cerda, J., 2005. Marine fish egg hydration is aquaporin-mediated. *Science* **307**, 545-545.
77. **Feitas, R., Castro, M.**, 2005. Occurrence of *Panulirus argus* (Latreille, 1804) (Decapoda, Palinuridae) in the northwest islands of the Cape Verde Archipelago (Central-East Atlantic). *Crustaceana* **78**, 1191-1201.
78. **Ferreira, M.**, Moradas-Ferreira, P. and **Reis-Henriques, M.A.**, 2005. Oxidative stress biomarkers in two resident species, mullet (*Mugil cephalus*) and flounder (*Platichthys flesus*), from a polluted site in River Douro Estuary, Portugal. *Aquat. Toxicol.*, **71**: 39-48.
79. Figueiredo-Fernandes AM, Fontainhas-Fernandes A, **Monteiro RAF, Reis-Henriques MA, Rocha E**, 2005. Temperature and gender influences on the hepatic stroma (and associated pancreatic acini) of Nile tilapia, *Oreochromis niloticus* (Teleostei, Cichlidae): A stereological analysis by light microscopy. *Journal of Morphology* **267**: 221-230.
80. **Figueiredo-Silva A., Rema P.**, Bandarra, N.M., Nunes, M.L. and **Valente, L.M.P.**, 2005. Effects of dietary conjugated linoleic acid in growth, nutrient utilization, body composition and hepatic lipogenesis in rainbow trout juveniles (*Oncorhynchus mykiss*). *Aquaculture*, **248**: 163-172.
81. **Figueiredo-Silva A., Rocha E.**, Dias J., **Silva P.**, Rema P., **Gomes E., Valente L.M.P.**, 2005. Partial replacement of fish oil by soybean oil on lipid distribution and liver histology in European sea bass (*Dicentrarchus labrax*) and rainbow trout (*Oncorhynchus mykiss*) juveniles. *Aquaculture Nutrition* **11**: 147-155.
82. Filipe Maia, Maria do Rosário Almeida, Luis Gales, **Anake Kijjoo**, Madalena M.M. Pinto, Maria J. Saraiva, Ana Margarida Damas, 2005. The binding of xanthone derivatives to transthyretin. *Biochemical Pharmacology* **70**, 1861-1869.
83. Fonseca, P., Campos, A., Larsen, R.B., **Borges, T.C., Erzini, K.**, 2005. Using a modified Nordmore grid for by-catch reduction in the Portuguese crustacean trawl fishery (vol 71, pg 223, 2005). *Fish Res* **75**, 204-205.
84. Fonseca, P., Campos, A., Larsen, R.B., **Borges, T.C., Erzini, K.**, 2005. Using a modified Nordmore grid for by-catch reduction in the Portuguese crustacean-trawl fishery. *Fish Res* **71**, 223-239.
85. **Fonseca, V.G., Lago-Leston, A., Laize, V., Cancela, M.L.**, 2005. Rapid identification of differentially expressed genes by in situ screening of bacteria. *Mol. Biotechnol.* **30**, 163-165.
86. **Frasco, M.**; Fournier, D.; Carvalho, F.; **Guilhermino, L.**; 2005. Do metals inhibit cholinesterase (AChE)? Implementation of assay conditions for the use of AChE activity as a biomarker of metal toxicity. *Biomarkers* **10**: 360-375.
87. Frazao, C., **Simes, D.C.**, Coelho, R., Alves, D., Williamson, M.K., Price, P.A., **Cancela, M.L.**, Carrondo, M.A., 2005. Structural evidence of a fourth Gla residue in fish osteocalcin: Biological implications. *Biochemistry* **44**, 1234-1242.
88. Freitas, P., Clarke, L. J., Kennedy, H., Richardson, C., **Abrantes, F.**, 2005. Mg/Ca, Sr/Ca and stable isotope (d18O and d13C) ratio profiles from the fan mussel *Pinna nobilis*: Seasonal records and temperature relationships. *Geochemistry, Geophysics, Geosystems*, **6**, nº 4, 12 April.

89. Gamito, S., **Erzini, K.**, 2005. Trophic food web and ecosystem attributes of a water reservoir of the Ria Formosa (south Portugal). *Ecol Model* 181, 509-520.
90. Gandara, R.M.C., **Soares, S.S.**, Martins, H., Gutierrez-Merino, C., Aureliano, M., 2005. Vanadate oligomers: In vivo effects in hepatic vanadium accumulation and stress markers. *J. Inorg. Biochem.* 99, 1238-1244.
91. Gestal C, **Azevedo C.** Ultrastructure of *Goussia cruciata* (Apicomplexa: Coccidia) infecting the liver of horse mackerel, *Trachurus trachurus* (L.), from Ibero-Atlantic waters. *Journal Of Fish Diseases* 28:125-132, 2005.
92. Gouveia, L. & **Rema, P.**, 2005. Effect of microalgal biomass concentration and temperature on ornamental goldfish (*Carassius auratus*) skin pigmentation. *Aquaculture Nutrition*, 11: 19-23.
93. Hang, X.M., **Power, D.**, Flik, G., Balment, R.J., 2005. Measurement of PTHrP, PTHR1, and CaSR expression levels in tissues of sea bream (*Sparus aurata*) using quantitative PCR. *Ann Ny Acad Sci* 1040, 340-344.
94. Hazin, H.G., Hazin, F.H.V., Travassos, P., **Erzini, K.**, 2005. Effect of light-sticks and electroluminescent attractors on surface-longline catches of swordfish (*Xiphias gladius*, Linnaeus, 1959) in the southwest equatorial Atlantic. *Fish Res* 72, 271-277.
95. J. Manosroi, R. Wilairat, **A. Kijjoa**, A. Manosroi, 2005. Free Radical Scavenging Activity of Extracts from Thai Plants in Guttiferae and Schisandraceae Families. *Pharmaceutical Biology* 43,324-329.
96. Kádár E, Bettencourt R, Costa V, Serrão Santos R, **Lobo-da-Cunha A**, Dando P, 2005. Experimentally induced endosymbiont loss and re-acquirement in the hydrothermal vent bivalve *Bathymodiolus azoricus*. *J. Exp. Marine Biol. Ecol.*, 318: 99-110.
97. Kokokiris, L., **Canario, A.**, Mylonas, C., Pavlidis, M., Kentouri, M., Divanach, P., 2005. Induction of ovulation and spawning in the Mediterranean red porgy, *Pagrus pagrus*, by controlled delivery and acute injection of GnRH α . *Isr. J. Aquac.-Bamidgeh* 57, 223-230.
98. L. M. M. Vieira and **A. Kijjoa**, 2005. Naturally Occuring Xanthones. *Currents in Medicinal Chemistry* 12, 2413-2446.
99. Laiz-Carrion, R., **Guerreiro, P.M.**, **Fuentes, J.**, **Canario, A.V.M.**, Del Rio, M.P.M., Mancera, J.M., 2005. Branchial osmoregulatory response to salinity in the gilthead sea bream, *Sparus auratus*. *J Exp Zool Part A* 303A, 563-576.
100. **Laize, V.**, **Martel, P.**, **Viegas, C.S.B.**, Price, P.A., **Cancela, M.L.**, 2005. Evolution of matrix and bone gamma-carboxyglutamic acid proteins in vertebrates. *J. Biol. Chem.* 280, 26659-26668.
101. **Laize, V.**, **Pombinho, A.R.**, **Cancela, M.L.**, 2005. Characterization of *Sparus aurata* osteonectin cDNA and in silico analysis of protein conserved features: Evidence for more than one osteonectin in Salmonidae. *Biochimie* 87, 411-420.
102. **Lobo-da-Cunha A**, **Batista-Pinto C**, 2005. Light and electron microscopy studies of the oesophagus and crop epithelium in *Aplysia depilans* (Mollusca, Opisthobranchia). *Tissue & Cell*, 37: 447-456.
103. Lopes-Lima M., Ribeiro, I.R.A., Pinto, R.A., **Machado, J.**, 2005. Isolation, purification and characterization of glycosaminoglycans in the fluids of *Anodonta cygnea*. *Comparative Biochemistry and Physiology* 141B (3): 319-326.
104. Madalena Pedro, Maria M. Ferreira, Honorina Cidade, **Anake Kijjoa**, Elsa Bronze da Rocha, Maria São José Nascimento, 2005. Artelastin is a cytotoxic prenylated flavone that disturbs microtubules and interferes with DNA replication in MCF-7 human breast cancer cells. *Life Science* 77, 293-311.
105. **Magalhães C**, Wiebe, W.J., Joye, S.B. & **Bordalo, A.A.**, 2005. Inorganic nitrogen dynamics in intertidal rocky biofilms and sediments of the Douro River estuary (Portugal). *Estuaries* 28 592 – 607.
106. **Magalhães C.**, Joye, S. B., Moreira, R., C. M., Wiebe, W. J. & **Bordalo, A. A.**, 2005. Effect of salinity and inorganic nitrogen concentrations on nitrification and denitrification rates in intertidal sediments and rocky biofilms of the Douro River estuary, Portugal. *Water Research* 39 1783-1794.
107. **Makridis, P.**, Martins, S., Tsalavouta, M., Dionisio, L.C., Kotoulas, G., Magoulas, A., **Dinis, M.T.**, 2005. Antimicrobial activity in bacteria isolated from Senegalese sole, *Solea senegalensis*, fed with natural prey. *Aquaculture Research* 36, 1619-1627.
108. **Makridis, P.**, Martins, S., Vercauteren, T., Van Driessche, K., Decamp, O., **Dinis, M.T.**, 2005. Evaluation of candidate probiotic strains for gilthead sea bream larvae (*Sparus aurata*) using an in vivo approach. *Lett. Appl. Microbiol.* 40, 274-277.
109. **Malaquias, M.A.E.**, **Bentes, L.**, **Erzini, K.**, **Borges, T.C.**, 2005. Molluscan diversity caught by trawling fisheries: a case study in southern Portugal. *Fisheries Management and Ecology*, 12, 1-7.
110. **Malaquias, M.A.E.**, **Sprung, M.J.**, 2005. Population biology of the cephalaspidean mollusc *Haminoea orbygniana* in a temperate coastal lagoon (Ria Formosa, Portugal). *Estuar Coast Shelf S* 63, 177-185.
111. **Malta, E.J.**, Ferreira, D.G., Vergara, J.J., Perez-Llorens, J.L., 2005. Nitrogen load and irradiance affect morphology, photosynthesis and growth of *Caulerpa prolifera* (Bryopsidales : Chlorophyta). *Mar. Ecol.-Prog. Ser.* 298, 101-114.

112. Marques, J.F., **Santos, M. J.**, Costa, J.L., Costa, M.J & Cabral, H.N., 2005. Metazoan parasites as biological indicators of population structure of *Halobatrachus didactylus* in the Portuguese coast. *Journal of Applied Ichthyology*. **21**: 220-224.
113. Marques, J.F., **Santos, M.J.**, Cabral, H.N., Palm, H., 2005. First record of *Progrillotia dasyatidis* Beveridge et al., 2004 (Cestoda: Trypanorhyncha) plerocerci from Teleost fishes off the Portuguese coast, with a description of the surface morphology. *Parasitology Research*, **96**: 206-211.
114. Martins, N.; Lopes, I.; **Guilhermino, L.**; Bebianno, M.J.; Ribeiro, R., 2005. Lack of evidence of metallothioneine role in tolerance to copper by natural populations of *Daphnia longispina*. *Bulletin of Environmental Contamination and Toxicology* **74**: 761-768.
115. **Martins, R.**, Pereira, P., Welker, M., Fastner, J, **Vasconcelos, V.**, 2005. Toxicity of culturable marine cyanobacteria strains isolated from the portuguese coast. *Toxicon* **46**:454-464
116. Matos E, Tajdari J, **Azevedo C.** Ultrastructural studies of *Henneguya rhamdia* n. sp (Myxozoa) a parasite from the Amazon teleost fish, *Rhamdia quelen* (Pimelodidae). *Journal of Eukaryotic Microbiology* **52**: 532-537, 2005.
117. Mendonça, I., Matos, E., Rodrigues, G., Matos, P., Casal, G., and **Azevedo, C.**, 2005. Rodlet cells from the gills and kidneys of two Brazilian freshwater fishes: An ultrastructural study. *Braz. J. morph. Sci.*, **22**: 187-192.
118. Mira, S., Wolff, K., **Cancela, M.L.**, 2005. Isolation and characterization of microsatellite markers in Bonelli's eagle (*Hieraetus fasciatus*). *Mol Ecol Notes* **5**, 493-495.
119. **Miranda, A.**, **Almeida, O.G.**, **Hubbard, P.C.**, **Barata, E.N.**, **Canario, A.V.M.**, 2005. Olfactory discrimination of female reproductive status by male tilapia (*Oreochromis mossambicus*). *J. Exp. Biol.* **208**, 2037-2043.
120. **Moncaut, N.**, Somoza, G., **Power, D.M.**, **Canario, A.V.M.**, 2005. Five gonadotrophin-releasing hormone receptors in a teleost fish: isolation, tissue distribution and phylogenetic relationships. *J. Mol. Endocrinol.* **34**, 767-779.
121. **Monteiro RAF**, Henrique RMF, Oliveira MH, **Rocha E**, 2005. Postnatal cerebellar granule cells of the white rat (*Rattus norvegicus*): a quantitative study, using design-based stereology. *Annals of Anatomy* **187**: 161-173.
122. Monteiro, M.; Quintaneiro, C.; Morgado, F., Soares, A.M.V.M.; **Guilhermino, L.**, 2005. Characterization of the cholinesterases present in head tissues of the estuarine fish *Pomatoschistus microps*: application to biomonitoring. *Ecotoxicology and Environmental Safety* **62**: 341-347.
123. **Monteiro, N.M.**, Almada, V.C. & **Vieira, N.**, 2005. - Implications of different brood pouch structures in syngnathid reproduction.. *Journal of the Marine Biological Association of the UK*, **85**: 1235-1241.
124. **Monteiro, N.M.**, Almada, V.C., & Vieira, M.N, 2005. Homing behaviour and individual identification of the pipefish *Nerophis lumbriciformis* (Pisces; *Syngnathidae*): a true intertidal resident? *Estuarine, Coastal and Shelf Science*, **63**: 93-99.
125. **Monteiro, N.M.**, Quinteira, S.M.; **Silva, K**; **Vieira, N** & Almada, V., 2005. Diet analysis reflects the ontogenetic shift in microhabitat use in *Lipophrys pholis* (Pisces; Blenniidae). *Journal Fish Biology*, **66**:1-12
126. **Morais, S.**, Koven, W., Ronnestad, I., **Dinis, M.T.**, **Conceicao, L.E.C.**, 2005. Dietary protein/lipid ratio affects growth and amino acid and fatty acid absorption and metabolism in Senegalese sole (*Solea senegalensis* Kaup 1858) larvae. *Aquaculture* **246**, 347-357.
127. **Morais, S.**, Koven, W., Ronnestad, I., **Dinis, M.T.**, **Conceicao, L.E.C.**, 2005. Dietary protein: lipid ratio and lipid nature affects fatty acid absorption and metabolism in a teleost larva. *Br. J. Nutr.* **93**, 813-820.
128. **Morais, S.**, Narciso, L., Dores, E., Pousao-Ferreira, P., 2005. Investigation of fresh and freeze-dried seabream *Sparus aurata* L. eggs as a fatty acid source in the enrichment of *Brachionus* sp.: Potential use of a waste product. *Journal of the World Aquaculture Society* **36**, 302-310.
129. **Morais, S.**, Rojas-Garcia, C.R., **Conceicao, L.E.C.**, Ronnestad, I., 2005. Digestion and absorption of a pure triacylglycerol and a free fatty acid by *Clupea harengus* L. larvae. *J. Fish Biol.* **67**, 223-238.
130. **Moreira, S.**; Moreira-Santos, M.; **Guilhermino, L.**; Ribeiro, R., 2005. A short-term sublethal in situ toxicity assay with *Hedistes diversicolor* (Polychaeta) for estuarine sediments based on postexposure feeding. *Environmental Toxicology and Chemistry* **24**: 2010-2018.
131. **Moreira, S.M.**; **Guilhermino, L.**, 2005. The use of *Mytilus galloprovincialis* acetylcholinesterase and glutathione S-transferase activities as biomarkers of environmental contamination along the northwest Portuguese coast. *Environmental Monitoring and Assessment* **105**: 309-325.
132. **Moreira-Santos, M.**; Fonseca, A.; Moreira, S. M.; Rendón-von Osten, J.; da Silva, E.M.; Soares, A.M.V.M. **Guilhermino, L.**; Ribeiro, R., 2005. Short-term sublethal (sediment and aquatic roots of floating macrophytes) assays with a tropical chironomid based on postexposure feeding and biomarkers. *Environmental Toxicology and Chemistry* **24**: 2234-2242.

133. **Mucha A.P., Almeida C.M.R, Bordalo A.A., Vasconcelos M.T.S.D.**, 2005. Exudation of Organic Acids by a Marsh Plant and Implications on Trace Metal Availability in the Rhizosphere of Estuarine Sediments. *Estuarine Coastal and Shelf Sci.* **65**:191-198, 2005.
134. **Mucha A.P., Bordalo A.A., Vasconcelos M.T.S.D.**, 2005. Spatial and seasonal variations of the macrobenthic community and metal contamination in the Douro estuary (Portugal). *Marine Environ. Res.*, **60**: 531-550, 2005.
135. **N.M. Monteiro**, V. C. Almada, and **M.N. Vieira**, 2005. Temporal patterns of breeding and recruitment in *Nerophis lumbriciformis* (Pisces; Syngnathidae) related to seawater temperatures. *Journal of Fish Biology*, **67**(5):1475-1480.
136. Neuparth, T.; **Correia A.D.**; Costa F.O.; Lima G. and Costa M.H., 2005. Multi-level assessment of chronic toxicity of estuarine sediments with the amphipod *Gammarus locusta*: I. Biochemical endpoints. *Mar. Environ. Res.* **60**: 69-91.
137. **Nunes, B.**; Carvalho, F.; **Guilhermino, L.**, 2005. Acute toxicity of widely used pharmaceuticals in aquatic species: *Gambusia holbrooki*, *Artemia parthenogenetica* and *Tetraselmis chuii*. *Ecotoxicology and Environmental Safety* **61**: 413-41.
138. **Nunes, B.**; Carvalho, F.; **Guilhermino, L.**, 2005. Characterization and use of the total head soluble cholinesterases from the mosquitofish (*Gambusia holbrooki*) for screening of anticholinesterase activity. *Journal of Enzyme Inhibition and Medicinal Chemistry* **20**: 369-376.
139. **Olim, S., Borges, T.C.**, 2005. Weight-length relationships for eight species of the family Triglidae discarded on the south coast of Portugal. *J. Appl. Ichthyol.* **21** (2005), 1-4.
140. **Oliva Teles, L.**, Alpendurada, M.F., **Vieira, M.N.**, 2005. Interaction between cadmium and mercury accumulation by *Daphnia magna* Straus (Crustacea, Branchiopoda). *Limnética* **24** (3-4): 211-224.
141. Oliveira, R.F., Carneiro, L.A., **Canario, A.V.M.**, 2005. No hormonal response in tied fights. *Nature* **437**, 207-208.
142. **Ortiz-Delgado, J.B., Simes, D.C., Gavaia, P.,** Sarasquete, C., **Cancela, M.L.**, 2005. Osteocalcin and matrix GLA protein in developing teleost teeth: identification of sites of mRNA and protein accumulation at single cell resolution. *Histochem. Cell Biol.* **124**, 123-130.
143. **Ozório, R.**, Van Ginneken, V., Van Den Thillart, G., Verstegen, M., Verreth, J., 2005. Dietary carnitine maintains energy reserves and delays fatigue of exercised African catfish fed high fat diets. *Scientia Agricola* **62**: 208-213
144. **Ozório, R.O.A.**, Cyrino, J.E.P., Turini, B.G.S., Moro, G., Oliveira, L.S.T. & Nascimento, A., 2005. Feeding dried yeast to Pacu (*Piaractus mesopotamicus*) as dietary fish meal replacement. *World Aquaculture* **36**: 30-36.
145. **Palma, L.**, Beja, P., Tavares, P.C., Monteiro, L.R., 2005. Spatial variation of mercury levels in nesting Bonelli's eagles from Southwest Portugal: effects of diet composition and prey contamination. *Environmental Pollution* **134**, 549-557.
146. Pereira, A.I.F.; Canavarro, M.C.; **Cardoso, M.F.**; Mendonça, D., 2005. Relational factors of vulnerability and protection for adolescent pregnancy: a cross-sectional comparative study of Portuguese pregnant and nonpregnant adolescents of low socioeconomic status. *Adolescence* **40**: 655.
147. Pereira, J., Rosa, R., Moreno, A., Henriques, M., Sendao, J., Borges, T.C., 2005. First recorded specimen of the giant squid *Architeuthis* sp in Portugal. *J. Mar. Biol. Assoc. U.K.* **85**, 175-176.
148. **Peres, M.H., Oliva-Teles, A.**, 2005. The effect of dietary protein replacement by crystalline amino acid on growth and nitrogen utilization of turbot *Scophthalmus maximus* juveniles. *Aquaculture*, **250**:755-764.
149. **Pinto, J.P., Conceicao, N.M., Viegas, C.S.B., Leite, R.B.,** Hurst, L.D., Kelsh, R.N., **Cancela, M.L.**, 2005. Identification of a new pebp2 alpha A2 isoform from zebrafish runx2 capable of inducing osteocalcin gene expression in vitro. *J. Bone Miner. Res.* **20**, 1440-1453.
150. **Pinto, P., Passos, A.L., Power, D.M., Canario, A.V.M.**, 2005. Sea bream (*Sparus auratus*) estrogen receptors: Phylogeny and tissue distribution. *Ann Ny Acad Sci* **1040**, 436-438.
151. **Power, D.M.**, 2005. Developmental ontogeny of prolactin and its receptor in fish. *Gen. Comp. Endocrinol.* **142**, 25-33.
152. Prapawadee Puapairoj, Waree Naengchomnong, **Anake Kijjoa**, Madalena Pinto, Madalena Pedro, Maria São José Nascimento, Artur M.S. Silva, Werner Herz, 2005. Anticancer Activity of Lupane Type Triterpenes from *Glochidion sphaerogynum* and *Glochidion eriocarpum* two of which induce apoptosis. *Planta Med.* **71**, 208-213.
153. **Redruello, B., Estevao, M.D., Rotllant, J., Guerreiro, P.M., Anjos, L.I., Canario, A.V.M., Power, D.M.**, 2005. Isolation and characterization of piscine osteonectin and downregulation of its expression by PTH-related protein. *J. Bone Miner. Res.* **20**, 682-692.

154. Reinecke, M., Bjornsson, B.T., Dickhoff, W.W., McCormick, S.D., Navarro, I., **Power, D.M.**, Gutierrez, J., 2005. Growth hormone and insulin-like growth factors in fish: Where we are and where to go. *Gen. Comp. Endocrinol.* **142**, 20-24.
155. Rema, P. & **Gouveia, A.**, 2005. - Growth and survival of goldfish (*Carassius auratus*) larvae reared at different densities. *Journal of Animal and Veterinary Advances.* **4** (3). 274-275pp.
156. **Rema, P.** & Gouveia, L., 2005. Effect of various sources of carotenoids on survival and growth of goldfish (*Carassius auratus*) larvae and juveniles. *Journal of Animal and vet. Advances* **4** (7):624-629.
157. **Rema, P.**, Gouveia, A., 2005. Growth and survival of goldfish (*Carassius auratus*) larvae reared at different densities. *Journal of Animal and vet. Advances* **4** (2):163-166.
158. Rendón-Von Osten, J.; Ortíz-Arana, A.; **Guilhermino, L.**; Soares, A.M.V.M., 2005b. *In vivo* evaluation of three biomarkers in the mosquito fish (*Gambusia yucata*) exposed to pesticides. *Chemosphere* **58**: 627-636.
159. Rendón-Von Osten, J.; Soares, A.M.V.M.; **Guilhermino, L.**, 2005. Black-bellied whistling duck (*Dendrocygna autumnalis*) brain cholinesterase characterization and diagnosis of anticholinesterase pesticide exposure in wild populations from Mexico. *Environmental Toxicology and Chemistry* **24**: 313-317.
160. Rendón-Von Osten, J.; Tinoco-Ojanguren, R.; Soares, A.M.V.M.; **Guilhermino, L.** 2004*. Exposure to pesticides and acetylcholinesterase in campesinos from Campeche, Mexico. *Archives of Environmental Health* **59**: 418-425. (*published in, 2005)
161. **Resende AD, Rocha E, Lobo-da-Cunha A**, 2005. Activity of purine catabolism enzymes during the reproductive cycle of male and female brown trout (*Salmo trutta*). *Annals of the New York Academy of Sciences* **1040**: 444-447.
162. **Ribeiro, L., Engrola, S., Dinis, M.T.**, 2005. Weaning of Senegalese sole (*Solea senegalensis*) postlarvae to an inert diet with a co-feeding regime. *Cienc Mar* **31**, 327-337.
163. Richardson, S.J., Monk, J.A., Shepherdley, C.A., Ebbesson, L.O.E., Sin, F., **Power, D.M.**, Frappell, P.B., Kohrle, J., Renfree, M.B., 2005. Developmentally regulated thyroid hormone distributor proteins in marsupials, a reptile, and fish. *American Journal of Physiology-Regulatory Integrative and Comparative Physiology* **288**, R1264-R1272.
164. **Robles, V., Cabrita, E.**, Fletcher, G.L., Shears, M.A., King, M.J., Herraes, M.P., 2005. Vitrification assays with embryos from a cold tolerant sub-arctic fish species. *Theriogenology* **64**, 1633-1646.
165. Rohrlack T., Christoffersen K., Dittmann E., **Nogueira I., Vasconcelos V.**, and Börner T., 2005. Ingestion of microcystins by *Daphnia*: Intestinal uptake and toxic effects. *Limnology and Oceanography* **50**(2): 440-448
166. **Rotllant, J., Guerreiro, P.M., Anjos, L., Redruello, B., Canario, A.V.M., Power, D.M.**, 2005. Stimulation of cortisol release by the N terminus of teleost parathyroid hormone-related protein in interrenal cells in vitro. *Endocrinology* **146**, 71-76.
167. Roucoux, K.H.; Tzedakis, P.C.; **de Abreu, L.** & Shackleton, N.J., 2005. The response of NW Iberian vegetation to North Atlantic climate oscillations during the last 65,000 years. *Quaternary Science Reviews*, **24**: 1637-1653.
168. **Ruane, N.M., Makridis, P.**, Balm, P.H.M., **Dinis, M.T.**, 2005. Skin darkness is related to cortisol, but not MSH, content in post-larval *Solea senegalensis*. *J. Fish Biol.* **67**, 577-581.
169. Rueda-Jasso, R.A., **Conceicao, L.E.C.**, De Coen, W., Rees, J.F., Sorgeloos, P., 2005. Diet and weaning age affect the growth and condition of Dover sole (*Solea solea* L.). *Cienc Mar* **31**, 477-489.
170. Rujida Wilairat, Jiradej Manosroi, Aranya Manosroi, **Anake Kijjoo**, Maria São José Nascimento, Madalena Pinto, Artur M.S. Silva, Graham Eaton, Werner Herz, 2005. Cytotoxicities of Xanthone and Cinnamate Esters from *Hypericum hookerianum*. *Planta Med.* **71**: 680-682.
171. S. Rifai, **A. Fassouane**, A. El Abbouyi, A. Wardani, **A. Kijjoo** and R. van Soest, 2005. Screening of Antimicrobial Activity of the Marine Sponge Extracts. *J. Mycol. Med.* **15**: 33-38.
172. Sabour B., Loudiki M., Oudra B., **Vasconcelos V.**, Oubraim S., Fawzi B., 2005. Dynamics and toxicity of *Anabaena aphanizomenoides* (Cyanobacteria) water-blooms in Oued Mellah lake (Morocco). *Aquatic Ecosystem Health & Management* **8**:1-10
173. Saida Rifai, **Aziz Fassouane**, Paulo M. Pinho, **Anake Kijjoo**, Nair Nazareth, Maria São José Nascimento and Werner Herz, 2005. Cytotoxicity and Inhibition of Lymphocyte Proliferation of Fasciculatin, a Linear Furanosesterterpene Isolated from *Ircinia variabilis* Collected from the Atlantic Coast of Morocco. *Mar. Drugs* **3**: 15-21.
174. **Saker, M.,L.**, Jungblut, A.-D., Neilan, B., Rawn, T & **Vasconcelos, V.M.**, 2005. Detection of microcystin synthetase genes in health food supplements containing the freshwater cyanobacterium *Aphanizomenon flos-aquae*. *Toxicon* **46**:555-562

175. **Saker, M.L.**, Fastner, J., Dittmann, E., Christiansen, G., **Vasconcelos, V.M.**, 2005. Variation between strains of the cyanobacterium *Microcystis aeruginosa* isolated from a Portuguese river. *J. Applied Microbiology* **99**:749-757.
176. **Santos, M.M.**, Castro, F. **Vieira, N.**, Michael, J.; Morabito, R., Massanisso, P; & Reis-Henriques, 2005. New insights into the mechanism of imposex induction in the dogwhelk *Nucella lapillus*. *Comparative Biochemistry and Physiology: Part C141*: 101-109.
177. **Santos, M.M., Castro, L.F.C.**, Vieira, M.N., Micael, J., Morabito, R., Massanisso, P. and **Reis-Henriques, M.A.**, 2005. New insights into the mechanism of imposex induction in the dogwhelk *Nucella lapillus*. *Comp. Biochem. Physiol.*, **C141**: 101-109.
178. **Santos, M.M., Micael, J., Carvalho, A.P.**, Morabito, R., Lamoree, M., Massanisso, P., Booy, P., **Reis-Henriques, M.A.**, 2005. Estrogens counteract the masculinizing effect of tributyltin in zebrafish. *Comparative Biochemistry and Physiology, Part C*, **142**: 151-155.
179. **Saraiva, A.**, Antão, A. & **Cruz, C.**, 2005. Comparative study of parasite communities in European eel *Anguilla anguilla* from rivers of northern Portugal. *Helminthologia* **42** (2): 99 - 106.
180. Sarropoulou, E., **Power, D.M.**, Magoulas, A., Geisler, R., Kotoulas, G., 2005. Comparative analysis and characterization of expressed sequence tags in gilthead sea bream (*Sparus aurata*) liver and embryos. *Aquaculture* **243**, 69-81.
181. Selheim, F., Herfindal, L., **Martins, R., Vasconcelos, V.**, Stein-Ove, 2005. Neuro-apoptogenic and thrombocyte function modulating toxins in non-blooming marine cyanobacteria from the Portuguese coast. *Aquatic Toxicology* **74**:294-306
182. **Silva, J., Santos, R.**, Calleja, M.L., Duarte, C.M., 2005. Submerged versus air-exposed intertidal macrophyte productivity: from physiological to community-level assessments. *Journal of Experimental Marine Biology and Ecology* **317**, 87-95.
183. Soares, S.; **Moreira, S.**; Andrade, S.; **Guilhermino, L.**; Ribeiro, R., 2005. Freshwater-saltwater interface (fsi) and estuarine sediment in situ assays based on postexposure feeding of chironomids and polychaetes. *Estuaries* **28**: 314-319.
184. **Sousa, R.; Guilhermino, L.; Antunes, C.**, 2005. Molluscan fauna in the freshwater tidal area of Minho river estuary, NW of Iberian Peninsula. *Annales de Limnologie - International Journal of Limnology* **41**: 141-147.
185. Stobberup, K.A., Inejih, C.A.O., Traore, S., Monteiro, C., Amorim, P., **Erzini, K.**, 2005. Analysis of size spectra off northwest Africa: a useful indicator in tropical areas? *Ices J Mar Sci* **62**, 424-429.
186. Strobl-Mazzulla, P.H., **Moncaut, N.P.**, Lopez, G.C., Miranda, L.A., **Canario, A.V.M.**, Somoza, G.M., 2005. Brain aromatase from pejerrey fish (*Odontesthes bonariensis*): cDNA cloning, tissue expression, and immunohistochemical localization. *Gen. Comp. Endocrinol.* **143**, 21-32.
187. Székely, Cs., **Eiras, J.C.** & Eszterbauer, E., 2005. Description of a new synactinomyxon type from River Sousa, Portugal. *Dis. Aquat. Org.*, **66**: 9-14.
188. Tajdari J, Matos E, Mendonca I, **Azevedo C.** Ultrastructural morphology of *Myxobolus testicularis* sp n., parasite of the testis of *Hemiodopsis microlepis* (Teleostei: Hemiodontidae) from the NE of Brazil. *Acta Protozoologica* **44**: 377-384, 2005.
189. Tatarenkov, A., Bergstrom, L., Jonsson, R.B., **Serrao, E.A.**, Kautsky, L., Johannesson, K., 2005. Intriguing asexual life in marginal populations of the brown seaweed *Fucus vesiculosus*. *Mol. Ecol.* **14**, 647-651.
190. Valério, E., Pereira, P., **Saker, M.L.**, Franca, S. and Tenreiro, R., 2005. Molecular characterization of *Cylindrospermopsis raciborskii* strains isolated from Portuguese freshwaters. *Harmful Algae* **4**(6): 1044-1052.
191. **Varela Álvarez, E.** Stengel D., Rindi F. and M.D. Guiry., 2005. Chromosome studies of two populations of *Porphyr*a linearis Greville from the West Coast of Ireland and from U.S.A. *Phycologia* **44** (1), 61-65.
192. **Velez, Z., Hubbard, P.C., Barata, E.N., Canario, A.V.M.**, 2005. Evidence for functional asymmetry in the olfactory system of the Senegalese sole (*Solea senegalensis*). *Physiol. Biochem. Zool.* **78**, 756-765.
193. Xavier, J.C., Croxall, J.P., Cresswell, K.A., 2005. Boluses: An effective method for assessing the proportions of cephalopods in the diet of albatrosses. *Auk* **122**, 1182-1190.

2004 (140 articles)

1. Abbink, W.; Bevelander, G. S.; Rotllant, J.; **Canario, A. V. M.** and Flik, G. (2004). Calcium handling in *Sparus auratus*: effects of water and dietary calcium levels on mineral composition, cortisol and PTHrP levels. *Journal of Experimental Biology*, **207**:4077-4084.
2. **Afonso-Dias, I.** and MacKenzie, K. (2004). A checklist of the protozoan and metazoan parasites reported from the anglerfishes *Lophius piscatorius* L. and *L.budegassa* Spinola. *Bulletin of the European Association of Fish Pathologists*, **24**: 246-252.
3. Alexandre, A.; Silva, J. and **Santos, R.** (2004). The maximum nitrate reductase activity of the seagrass *Zostera noltii* (Hornem.) varies along its vertical distribution. *Journal of Experimental Marine Biology and Ecology*, **307**: 127-135.
4. **Almeida, C.M.R.** and **Vasconcelos, M.T.S.D.** (2004). Does winemaking process influence the 87Sr/89Sr ratio in wines? A case study. *Food Chem.*, **85**: 7 – 12.
5. **Almeida, C.M.R.**; **Mucha, A.P.** and **Vasconcelos, M.T.S.D.** (2004). Influence of the sea rush *Juncus maritimus* on metal concentration and speciation in estuarine sediment colonized by the plant. *Environ. Sci. Technol.*, **38**: 3112-3118.
6. **Alves, T.**; Cunha, T.; **Bouriak, S.**; Volkonskaya, A.; Monteiro, J.H. and Ivanov, M. (2004). Surveying the flanks of the Mid-Atlantic Ridge, North Atlantic Ocean (36N). *Marine Geology*, **209**: 199-222
7. Antunes, P.; Gil, O.; **Ferreira, M.**; Vale, C. and **Reis-Henriques, M.A.** (2004). Depuration of PCBs and DDTs in mullet under captivity conditions. 24th. International Symposium on Halogenated Environmental Organic Pollutants and POPs – *Organohalogen Compounds*, **66**: 1868-1874.
8. **Aragão, C.**; **Conceição, L. E. C.**; **Dinis, M. T.** and Fyhn, H. J. (2004). Amino acid pools of rotifers and *Artemia* under different conditions: nutritional implications for fish larvae. *Aquaculture* 234, 429-445. Erratum in *Aquaculture*, **238**: 537-540.
9. **Aragão, C.**; **Conceição, L. E. C.**; Fyhn, H. J. and **Dinis, M. T.** (2004). Estimated amino acid requirements during early ontogeny in fish with different life styles: gilthead seabream (*Sparus aurata*) and Senegalese sole (*Solea senegalensis*). *Aquaculture*, **242**: 589-605.
10. **Aragão, C.**; **Conceição, L.E.C.**; Martins, D.; Ronnestad, I.; Gomes, E. and **Dinis, M.T.** (2004). A balanced dietary amino acid profile improves amino acid retention in post-larval Senegalese sole (*Solea senegalensis*). *Aquaculture*, **233** (1 – 4): 293 – 304.
11. **Arnaud-Haond, S.**; Vonau, V.; Bonhomme, F.; Boudry, P.; Blanc, F.; Prou, J.; Seaman, T. and Goyard, E. (2004). Spatio-temporal variation in the genetic composition of wild populations of pearl oyster (*Pinctada margaritifera cumingii*) in French Polynesia following 10 years of juvenile translocation. *Molecular Ecology*, **13**: 2001-2007.
12. Azenha, M.A.; Evangelista, R.; Martel, F. and **Vasconcelos, M.T.S.D.** (2004). Estimation of the human intestinal permeability of butyltin species using the Caco-2 cell line model. *Food and Chemical Toxicology*, **42**: 1431-1442.
13. **Azevedo, C.** and Padovan, I. (2004). Nematopsis gigas n sp (Apicomplexa), a parasite of *Nerita ascencionis* (Gastropoda, Neritidae) from Brazil. *J. Eukaryot. Microbiol.*, **51** (2): 214-219.
14. **Barbosa, A.** and **Vaz-Pires, P.** (2004). Quality Index Method (QIM): development of a sensorial scheme for common octopus (*Octopus vulgaris*). *Food Control*, **15** (3): 161-168.
15. Bleher, R. and **Machado, J.** (2004). Paracellular pathway in the shell epithelium of Anodonta cygnea. *J. Exp. Zool.*, **301A** (5): 419 – 427.
16. Brauner, C.J.; Matey, V.; **Wilson, J.M.**; Bernier, N.J. and Val, A.L. (2004). Transition in organ function during the evolution of air-breathing: insights from *Arapaima gigas*, an obligate air-breathing teleost from the Amazon. *The Journal of Experimental Biology*, **207** (9): 1433-1438.
17. Brauner, C.J.; **Wilson, J.M.**; Kamunde, C. and Wood, C.M. (2004). Protective effects of water chloride during chronic exposure to waterborne silver in rainbow trout (*Oncorhynchus mykiss*) embryos and larvae. *Physiological and Biochemical Zoology*, **76**(6): 803-815.
18. **Cairrão, E.**; Couderchet, M.; Soares, A.M.V.M. and **Guilhermino, L.** (2004). Glutathione-S- transferase activity of *Fucus* spp. as a biomarker of environmental contamination. *Aquatic Toxicology*, **70**: 277-286.
19. Campinho, M. A.; Moutou, K. A. and **Power, D. M.** (2004). Temperature sensitivity of skeletal ontogeny in *Oreochromis mossambicus*. *Journal of Fish Biology*, **65**:1003-1025.
20. Capilla, E.; Medale, F.; Panserat, S.; Vachot, C.; **Rema, P.**; **Gomes, E.**; Kaushik, S.; Navarro, I. and Gutierrez, J. (2004). Response of hexokinase enzymes and the insulin system to dietary carbohydrates in the common carp, *Cyprinus carpio*. *Reproduction, Nutrition, Development*, **44**: (3).

21. Cardoso, J. C. R.; **Power, D. M.**; Elgar, G. and Clark, M. S. (2004). Duplicated receptors for VIP and PACAP (VPAC(1)R and PAC(1)R) in a teleost fish, *Fugu rubripes*. *Journal of Molecular Endocrinology*, **33**: 411-428.
22. **Carvalho, A.P.**; **Sá, R.**; **Oliva-Teles, A.** and Bergot, P. (2004). Solubility and peptide profile affect the utilization of dietary protein by common carp (*Cyprinus carpio*) during early larval stages. *Aquaculture*, **234**: 319-333.
23. **Carvalho, F.**; Lima, P.; Gonçalves, F.; **Russell-Pinto, F.** and **Machado, J.** (2004). Development of a suitable maintenance diet for *Anodonta cygnea*. *Journal of the World Aquaculture Society*, **35** (2):189-198.
24. Casas, S.M.; Grau, A.; Reece, K.S.; Apakupaku, K.; **Azevedo, C.** and Villalba, A. (2004). *Perkinsus mediterraneus* n. sp., a protistan parasite of the European flat oyster *Ostrea edulis* from the Balearic Islands, Mediterranean Sea. *Dis. Aquat. Org.*, **58** (2-3): 231-244.
25. Castro, B.B.; Sobral, O.; **Guilhermino, L.** and Ribeiro, R. (2004). An in situ bioassay integrating individual and biochemical responses using small fish species. *Ecotoxicology*, **13**: 667-681.
26. Castro, E.; **Santos, M.M.**; **Monteiro, N.** and **Vieira, N.** (2004). Measuring lysosomal stability as an effective tool for marine coastal environmental monitoring. *Marine Environmental Research*, **58**: 741-745.
27. **Correia, A.D.**; Sousa, A.; Costa, M.H.; Moura, I. and Livingstone, D.R. (2004). Quantification of metallothionein in whole-body *Gammarus locusta* (Crustacea: Amphipoda) using differential pulse polarography. *Toxicol. Environ.Chem.*, **86**:23-36.
28. **Correia, A.T.**; Able, K.W.; **Antunes, C.** and **Coimbra, J.** (2004). Early life history of the American conger eel (*Conger oceanicus*) as revealed by otolith microstructure and microchemistry of metamorphosing leptocephali. *Marine Biology*, **145**: 477-488.
29. Costagliola, D.; Robertson, D. R.; Guidetti, P.; Stefanni, S.; **Wirtz, P.**; Heiser, J. B. and Bernardi, G. (2004). Evolution of coral reef fish *Thalassoma* spp. (Labridae). 2. Evolution of the eastern Atlantic species. *Marine Biology*, **144**: 377-383.
30. Coyer, J. A.; **Diekmann, O. E.**; **Serrao, E. A.**; Procaccini, G.; Milchakova, N.; **Pearson, G. A.**; Stam, W. T. and Olsen, J. L. (2004). Population genetics of dwarf eelgrass *Zostera noltii* throughout its biogeographic range. *Marine Ecology-Progress Series*, **281**: 51-62.
31. Coyer, J. A.; Reusch, T. B. H.; Stam, W. T.; **Serrao, E. A.**; **Pearson, G.**; Procaccinis, G. and Olsen, J. L. (2004). Characterization of microsatellite loci in the dwarf eelgrass *Zostera noltii* (Zosteraceae) and cross-reactivity with *Z. japonica*. *Molecular Ecology Notes*, **4**: 497-499.
32. **Cruzeiro, L.**; Eilbeck, J.; Marin, J. and **Russell, F.** (2004). Dynamical two electron states in a Hubbard-Davydov model. *European Physical Journal B*, **42**: 95-102.
33. **Damasceno-Oliveira, A.**; Gonçalves, J.; Silva, J.; **Fernández-Durán, B.** and **Coimbra, J.** (2004). A pressurizing system for long-term study of marine or freshwater organisms enabling the simulation of cyclic vertical migrations. *Scientia Marina*, **68** (4): 615 – 619.
34. Davies, S.J. and **Gouveia, A.** (2004). Cereal processing & improved carbohydrate digestibility in - Overwintering diets for juveniles Gilthead Sea Bream. *International Aquafeed*, **7** (4). 18-23.
35. De Mol, B.; Huvenne, V.; Bunz, S.; **Alves, T.**; Canals, M. and Gunn, V. (2004). EUROpean Deep-Ocean Margins: A new Training-Through-Research frontier. *Oceanography*, **17** (4): 156-175.
36. Dias, J.; Rueda-Jasso, R.; Panserat, S.; **Conceição, L.E.C.**; **Gomes, E.** and **Dinis, M.T.**, (2004). Effect of dietary carbohydrate to lipid ratios on growth, lipid deposition and metabolic hepatic enzymes in juvenile Senegal sole (*Solea senegalensis*). *Aquaculture Research*, **35** (12): 1122 – 1130.
37. Domingues, P.; **Sykes, A.**; Sommerfield, A.; Almansa, E.; Lorenzo, A. and **Andrade, J. P.** (2004). Growth and survival of cuttlefish (*Sepia officinalis*) of different ages fed crustaceans and fish. Effects of frozen and live prey. *Aquaculture*, **229**: 239-254.
38. **Eiras, J.C.** and D'Souza, J. (2004). *Myxobolus goensis* n. sp. (Myxozoa, Myxosporidia, Myxobolidae), a parasite of the gills of Mugil cephalus (*Osteichthyes, Mugilidae*) from Goa, India. *Parasite*, **11**: 243-248.
39. **Eiras, J.C.**; Malta, J.C.; Varela, A. and Pavanelli, G.C. (2004). *Henneguya schizodon* n. sp. (Myxozoa, Myxobolidae), a parasite of the Amazonian teleost fish *Schizodon fasciatus* (Characiformes, Anostomidae). *Parasite*, **11**:169-173.
40. **Eiras, J.C.**; Pavanelli, G.C. and Takemoto, R.M. (2004). *Henneguya paranaensis* sp. n. (Myxozoa, Myxobolidae), a parasite of the teleost fish *Prochilodus lineatus* (Characiformes, Prochilodontidae) from the Paraná River, Brazil. *Bull. Eur. Ass. Fish Pathol.*, **24**: 308-311.
41. **Elandalloussi, L. M.**; **Leite, R. M.**; **Afonso, R.**; Nunes, P. A.; Robledo, J. A. F.; Vasta, G. R. and Cancela, M. L. (2004). Development of a PCR-ELISA assay for diagnosis of *Perkinsus marinus* and *Perkinsus atlanticus* infections in bivalve molluscs. *Molecular and Cellular Probes*, **18**: 89-96.
42. Eneqvist, T.; Lundberg, E.; Karlsson, A.; Huang, S. H.; Santos, C. R. A.; **Power, D. M.** and Sauer-Eriksson, A. E. (2004). High resolution crystal structures of piscine transthyretin reveal different binding modes for triiodothyronine and thyroxine. *Journal of Biological Chemistry*, **279**: 26411-26416.

43. Evans J.J.; Pasnik D.J.; **Peres H.**; Lim C. and Klesius P.H. (2004). Absence of histologic changes in channel catfish (*Ictalurus punctatus*) fed heat-treated and non-heat-treated soybean meal. *Aquaculture Nutrition*, **11**: 123-129.
44. **Fachini, A.**; Leal, M.F.C. and **Vasconcelos, M.T.S.D.** (2004). Are zeolites capable of modifying the yield of marine micro-algae cultures? - A case study with *Emiliania huxleyi* and a product of zeolitic nature. *Aquaculture*, **237**:407-419.
45. **Fernandes, R.M.S.**; Ambrosius, B.A.C.; Noomen, R.; **Bastos, L.**; Combrinck, L.; Miranda, J. M. and Spakman, W. (2004). Angular velocities of Nubia and Somalia from continuous GPS data: implications on present-day relative kinematics. *Earth and Planetary Science Letters*, **222**: 197-208., doi:10.1016/j.epsl.2004.02.008.
46. **Fernandes, R.M.S.**; **Bastos, L.**; Ambrosius, B.A.C.; Noomen, R.; Matheussen, S. and Baptista, P. (2004). Recent geodetic results in the Azores Triple Junction region. *Pure and Applied Geophysics (PAGEOPH)*, **161**(3): 683-699, doi:10.1007/s00024-003-2469-y, 2004.
47. **Ferreira, M.**; Antunes, P.; Gil, O.; Vale, C. and **Reis-Henriques, M.A.** (2004). Organochlorine contaminants in flounder (*Platichthys flesus*) and mullet (*Mugil cephalus*) from Douro estuary, and their use as bioindicator species for environmental monitoring. *Aquat. Toxicol.*, **69** (4): 347-357.
48. **Fidalgo, M.L.** and Monteiro, M. T. (2004). A note on the presence of *Dussartius baeticus* (Dussart, 1967) in Portugal (Copepoda, Calanoida). *Crustaceana*, **76** (11): 1399-1407.
49. Galay-Burgos, M.; Llewellyn, L.; Mylonas, C. C.; **Canario, A. V.**; Zanuy, S. and Sweeney, G. E. (2004). Analysis of the Sox gene family in the European sea bass (*Dicentrarchus labrax*). *Comparative Biochemistry and Physiology B-Biochemistry & Molecular Biology*, **137**: 279-284.
50. **Gavaia, C.**; **Malaquias, M. A. E.**; Calado, G. and Urgorri, V. (2004). New records of Portuguese opisthobranch molluscs. *Journal of Conchology*, **38**: 101-118.
51. **Goncalves, J. M. S.**; Bispo, J. and Silva, J. A. (2004). Underwater survey of ichthyofauna of eastern Atlantic seamounts: Gettysburg and Ormond (Gorringe Bank). *Archive of Fishery and Marine Research*, **51**: 233-240.
52. **Gouveia, A.** and Davies, S.J. (2004). Modulation of the post-prandial plasma glucose profile in juvenile European sea bass (*Dicentrarchus labrax*) fed diets varying in starch complexity. *Journal of the World Aquaculture Society*, **35** (3): 392-400.
53. Grau, A.; Reece, K.S.; Apakupaku, K.; **Azevedo, C.** and Villalba, A. (2004). *Perkinsus mediterraneus* n. sp., a protistan parasite of the European flat oyster *Ostrea edulis* from the Balearic Islands, Mediterranean Sea. *Dis. Aquat. Organ*, **58** (2 - 3): 231 - 244.
54. **Guerreiro, P. M.**; **Fuentes, J.**; Flik, G.; **Rotllant, J.**; **Power, D. M.** and **Canario, A. V. M.** (2004). Water calcium concentration modifies whole-body calcium uptake in sea bream larvae during short-term adaptation to altered salinities. *Journal of Experimental Biology*, **207**:645-653.
55. Hirschenhauser, K.; Taborsky, M.; Oliveira, T.; **Canario, A. V. M.** and **Oliveira, R. F.** (2004). A test of the 'challenge hypothesis' in cichlid fish: simulated partner and territory intruder experiments. *Animal Behaviour*, **68**: 741-750.
56. Imsland, A.K.; Foss, A.; **Conceição, L.E.C.**; **Dinis, M.T.**; Delbare, D.; Schram, E.; Kamstra, A.; Rema, P. and White, P.(2004). A Review of the culture potential of *Solea solea* and *S. Senegalensis*. *Reviews in fish biology and fisheries*, **13**: 379-407.
57. Ip, Y. K.; Chew, S. F.; **Wilson, J.M.** and Randall, D. J. (2004). Defences against ammonia toxicity in tropical air-breathing fishes exposed to high concentrations of environmental ammonia: A review. *Journal of Comparative Physiology B*, **174** (7):565-575.
58. Ip, Y.K.; Randall, D.J.; Kok, T.K.T.; Barzaghi, C.; Wright, P.A.; Ballantyne, J.S; **Wilson, J.M.** and Chew, S.F. (2004). The giant mudskipper *Periophthalmodon schlosseri* facilitates active NH₄⁺ excretion by increasing acid excretion and having a low NH₃ permeability in the skin. *Journal of Experimental Biology*, **207** (5):787-801.
59. Jesus, T.; **Formigo, N.**; **Santos, P.** & Tavares, G. (2004). Impacto f the Vila Viçosa small hydroelectric power plant (Portugal) on the water quality ando n the dynamics of the benthic macroinvertebrate communities of the Ardena river. *Limnetica*, **23** (3-4): 241-256.
60. **Joaquim, N.**; Wagner, G. N. and Gamperl, A. K. (2004). Cardiac function and critical swimming speed of the winter flounder (*Pleuronectes americanus*) at two temperatures. *Comparative Biochemistry and Physiology a-Molecular & Integrative Physiology*, **138**: 277-285.
61. **Kijjoo, A.** and Sawangwong, P. (2004). Drugs and Cosmetics from the Sea. *Marine Drugs*, **2**:73-82.
62. **Kijjoo, A.**; **Watanadilok, R.**; Sonchaeng, P.; Puchakarn, S.; Sawangwong, P. and Herz,W. (2004). Bromotyrosine Derivatives from the Marine Sponge *Suberea aff. praetensa*. In *Sponge Science in the Millennium*. Eds. M. Pansini, R. Pronzato, G. Bavestrello and M. Manconi *Bullettino del Musei e degli Istituti Biologici dell'Università di Genóva*, **68**: 391-397.

63. **Laizé, V.**; Pombinho, A.R.; Fonseca, V. and **Cancela M.L.** (2004). Identification of genes implicated in mineralization of fish bone-derived cell lines. *Calcified Tissue International*, **74**: S50.
64. **Leite, R. B.**; **Afonso, R.** and **Cancela, M. L.** (2004). Perkinsus sp infestation in carpet-shell clams, *Ruditapes decussatus* (L), along the Portuguese coast. Results from a 2-year survey. *Aquaculture*, **240**: 39-53.
65. Lima, A.; **Carvalho, F.**; **Vasconcelos, V.** and **Machado, J.** (2004). Studies on growth in early adult of the freshwater mussels *Anodonta cygnea*. *Invertebrate Reproduction and Development*, **45** (2): 117-125.
66. Luiz-Junior, O. J.; Floeter, S. R.; Gasparini, J. L.; Ferreira, C. E. L. and **Wirtz, P.** (2004). The occurrence of *Acanthurus monroviae* (Perciformes : Acanthuridae) in the south-western Atlantic, with comments on other eastern Atlantic reef fishes occurring in Brazil. *Journal of Fish Biology*, **65**: 1173-1179.
67. **Malaquias, M. A. E.**; Condinho, S.; Cervera, J. L. and **Sprung, M.** (2004). Diet and feeding biology of *Haminoea orbygniana* (Mollusca : Gastropoda : Cephalaspidea). *Journal of the Marine Biological Association of the United Kingdom*, **84**: 767-772.
68. Marchenko, D.; Meyer, U. and **Bastos, L.** (2004). Airborne gravity disturbances in sequential multipole analysis for geoid determination and its test over the Azores. *Bollettino di Geodesia e Scienze Affini*, **2**, June.
69. Marcos, R.; **Monteiro, RAF.** and **Rocha, E.** (2004). Estimation of the number of stellate cells in a liver with the smooth fractionator. *Journal of Microscopy*, **215** (2):174-82.
70. **Marques, J. F.**; **Santos, M. J.** and Cabral, H. N. (2004). Biogeography of parasites of pleuronectiformes' (Pisces) in the North Atlantic. Proceedings of the IX European Multicollloquium of Parasitology.Vol. 2. Articles of Free Oral Papers and Posters. Valencia (Spain). Editor Mas-Comma. *Medimond International Proceedings*, 493-498.
71. **Matos, E.** and **Azevedo, C.** (2004). Ultrastructural description of *Microsporidium brevirostris* sp n., parasite of the teleostean *Brachyhypopomus brevirostris* (Hypopomidae) from the Amazon River. *Acta Protozool.*, **43** (3): 261-267.
72. Monteiro, J.; Ribeiro, I.; Soares-da-Silva, I.; **Baldaia, L.** and **Machado, J.** (2004). In vitro scretory activity of outer mantle epithelium cells of *A. cygnea*. *Haliotis*, **33**: 3 – 13.
73. Morais, S.; Cahu, C.; Zambonino-Infante, J. L.; Robin, J.; Ronnestad, I.; **Dinis, M. T.** and **Conceicao, L. E. C.** (2004). Dietary TAG source and level affect performance and lipase expression in larval sea bass (*Dicentrarchus labrax*). *Lipids*, **39**: 449-458.
74. Morais, S.; **Conceicao, L. E. C.**; **Dinis, M. T.** and Ronnestad, I. (2004). A method for radiolabeling *Artemia* with applications in studies of food intake, digestibility, protein and amino acid metabolism in larval fish. *Aquaculture*, **231**: 469-487.
75. Morais, S.; **Lacuisse, M.**; **Conceicao, L. E. C.**; **Dinis, M. T.** and Ronnestad, I. (2004). Ontogeny of the digestive capacity of (*Solea senegalensis*), with respect to and metabolism of amino acids from Senegalese sole digestion, absorption *Artemia*. *Marine Biology*, **145**: 243-250.
76. **Morais, S.**; Narciso, L.; Dores, E. and Pousao-Ferreira, P. (2004). Lipid enrichment for Senegalese sole (*Solea senegalensis*) larvae: effect on larval growth, survival and fatty acid profile. *Aquaculture International*, **12**: 281-298.
77. **Moreira, S.**; Moreira dos Santos, M.; Ribeiro, R. and **Guilhermino, L.** (2004). The 'Coral Bulker' fuel oil spill on the North coast of Portugal: spatial and temporal biomarker responses in *Mytilus galloprovincialis*. *Ecotoxicology*, **13**: 619-630.
78. Moura, G.; Almeida, M.J.; Machado, M.J.C.; and **Machado, J.** (2004). Annual variations of some inorganic elements present in the biological fluids of *Anodonta cygnea* (L.) and possible effects on its calcification cycle. *Biomineralization*, 123 – 128.
79. Moura, G.; Almeida, M.J.; Machado, M.J.C.; Vilarinho, L. and **Machado, J.** (2004). The action of environmental acidosis on the calcification process of *Anodonta cygnea* (L.). *Biomineralization*, 178 – 182.
80. Moura, G.; **Coimbra, J.** and **Machado, J.** (2004). Insights on nacre formation in the freshwater clam, *Anodonta cygnea* (L.):an overview. *Biomineralization*, 129 – 132.
81. **Mucha, A.P.**; **Bordalo, A.A.** and **Vasconcelos M.T.S.D.** (2004). Sediment quality in the Douro river estuary based on trace metal contents, macrobenthic community and elutriate sediment toxicity test (ESTT). *Journal of Environmental Monitoring*, **6** (7): 585 – 592.
82. **Mucha, A.P.**; **Vasconcelos, M.T.S.D.** and **Bordalo, A.A.** (2004). Vertical distribution of macrobenthic community and its relationships with trace metals and natural sediment characteristics at the lower Douro estuary. *Estuarine Coastal and Shelf Science*, **59** (4): 663 – 673.
83. Nascimento, M.S.J.; M. Pedro, F.; Cerqueira, M.; **Bastos, L.**; Vieira, M. and Pinto, M.M.M. (2004). Effect of Natural 2,5-Diaryl-3,4-dimethyltetrahydrofuran Lignans on Complement Activation, Lymphocyte Proliferation, and Growth of Tumor Cell Lines. *Pharmaceutical Biology*, **42**: 449-453.

84. **Nogueira, I.**; Pereira, P.; Dias E.; Pflugmacher S.; Wiegand C.; Franca S. and **Vasconcelos, V.** (2004). Accumulation of Paralytic Shellfish Toxins (PST) from the cyanobacterium *Aphanizomenon issatschenkoi* by the cladoceran *Daphnia magna*. *Toxicon*, **44** (7):773-780.
85. **Nogueira, I.**; **Saker, M.**; Pflugmacher, S.; Wiegand, C. and **Vasconcelos, V.** (2004). Toxicity of *Cylindrospermopsis raciborskii* to *Daphnia magna*. *Environmental Toxicology*, **19** (5): 453-459.
86. **Nunes, B.**; **Carvalho, F.** and **Guilhermino, L.** (2004). Acute and chronic effects of clofibrate and clofibrac acid on the enzymes acetylcholinesterase, lactate dehydrogenase and catalase of the mosquitofish, *Gambusia holbrooki*. *Chemosphere*, **57**: 1581-1589.
87. **Oliva-Teles, A.** and **Pimentel-Rodrigues, A.** (2004). Phosphorus requirements of European sea bass (*Dicentrarchus labrax*) juveniles. *Aquaculture Research*, **35** (7):636-642.
88. Olsen, J. L.; Stam, W. T.; Coyer, J. A.; Reusch, T. B. H.; **Billingham, M.**; Bostrom, C.; Calvert, E.; Christie, H.; Granger, S.; La Lumiere, R.; Milchakova, N.; Oudot-Le Secq, M. P.; Procaccini, G.; Sanjabi, B.; **Serrao, E.**; Veldsink, J.; Widdicombe, S. and Wyllie-Echeverria, S. (2004). North Atlantic phylogeography and large-scale population differentiation of the seagrass *Zostera marina* L. *Molecular Ecology*, **13**: 1923-194.
89. **Palma, J.** and **Andrade, J. P.** (2004). Morphological study of *Pagrus pagrus*, *Pagellus bogaraveo*, and *Dentex dentex* (Sparidae) in the eastern Atlantic and the Mediterranean Sea. *Journal of the Marine Biological Association of the United Kingdom*, **84**: 449-454.
90. **Palma, J.**; Ferreira, J.; Cangarato, R. and Pinto, P. V. (2004). Current status of the Osprey in the Cape Verde Islands. *Journal of Raptor Research*, **38**: 141-147.
91. **Pearson, G. A.**; **Serrao, E. A.**; Dring, M. and Schmid, R. (2004). Blue- and green-light signals for gamete release in the brown alga, *Silvetia compressa*. *Oecologia*, **138**: 193-201.
92. Pereira, M. T.G. and **Oliva-Teles, A.** (2004). Evaluation of micronized lupin seed meal as an alternative protein source in diets for gilthead sea bream *Sparus aurata* L. juveniles. *Aquaculture Research*, **35** (9):828-835.
93. Pereira, P.; Dias, E.; Franca, S.; **Pereira E.**; Carolino M. and **Vasconcelos, V.** (2004). Accumulation and depuration of cyanobacterial paralytic shellfish toxins by the freshwater mussel *Anodonta cygnea*. *Aquatic Toxicology*, **68** (4): 339-350.
94. **Pereira, R.**; **Sousa-Pinto, I.** and Yarish, C. (2004). Field and culture studies of the life history of *Porphyra dioica* (Bangiales, Rhodophyta) from Portugal. *Phycologia*, **43**(6): 756-767.
95. **Peres, H.**; Lim, C. and Klesius, P.H. (2004). Growth, chemical composition and resistance to *Streptococcus iniae* challenge of Nile tilapia (*Oreochromis niloticus*) fed graded levels of dietary inositol. *Aquaculture*, **235** (1 - 4): 423-432.
96. Pérez-Ruzafa, I.; Izquierdo, J.L.; **Araújo, R.**; **Sousa-Pinto, I.**; Pereira, L. and Bárbara, I. (2004). Distribution map of marine algae from the Iberian Peninsula and the Balearic Islands. XVII. *Laminaria rodriguezii* Bornet and additions to the distribution maps of *L. hyperborea* (Gunner.) Foslie, *L. ochroleuca* Bach. Pyl. y *L. saccharina* (L.) Lamour. (Laminariales, Fucophyceae). *Botanica Computensis*, **27**: 155-164.
97. Perrin, C.; Wing, S. R. and Roy, M. S. (2004). Effects of hydrographic barriers on population genetic structure of the sea star *Coscinasterias muricata* (Echinodermata, Asteroidea) in the New Zealand fiords. *Molecular Ecology*, **13**: 2183-2195.
98. Pessoa, J.C.; Calhorda, M.J.; Cavaco, I.; Costa, P.J.; Correia, I.; **Simes, D.C.**; Vilas-Boas, L.F.; Félix, V.; Gillard, R.D.; Henriques, R.T. and Wiggins, R. (2004). N-Salicylideneamino acidato complexes of oxovanadium (IV): The cysteine and penicillamine complexes. *Dalton Trans.* **18**: 2855-2866.
99. Piasecki, W.; Goodwin, A.E.; **Eiras, J.C.** and Nowak, B.F. (2004). Importance of copepoda in freshwater aquaculture. *Zool. Studies*, **43** (2): 193-205.
100. Pombinho, A. R.; **Laize, V.**; Molha, D. M.; Marques, S. M. P. and **Cancela, M. L.** (2004). Development of two bone-derived cell lines from the marine teleost *Sparus aurata*; evidence for extracellular matrix mineralization and cell-type-specific expression of matrix Gla protein and osteocalcin. *Cell and Tissue Research*, **315**: 393-406.
101. **Pratoomchat, B.**; Sawangwong, O. and **Machado, J.** (2004). The identification of molt stages in *Scylla serrata* based on cuticle morphology. *Biomaterialization*, 98 - 102.
102. Randall, D. J.; Ip, Y. K.; Chew, S. F. and **Wilson, J.M.** (2004). Air breathing and ammonia excretion in the mudskipper, *Periophthalmodon schlosseri*. *Physiological and Biochemical Zoology*, **77**(5):783-788.
103. Ribeiro, L.; Sarasquete, C.; **Power, D.** and **Dinis, M.T.** (2004). Preliminary results on the neuroendocrine system of (*Solea senegalensis*) larvae digestive tract. Aquaculture Europe 2004, Barcelona, Spain, October 20-23, 2004. *European Aquaculture Society Special Publication*, **34**: 679-680.
104. Rifai, S.; **Fassouane, A.**; **Kijjoo, A.** and van Soest, R. (2004). Antimicrobial Activity of Untenospingin B, a metabolite from the Marine Sponge *Hippospongia communis* collected from the Atlantic Coast of Morocco. *Marine Drugs*, **2**: 147-153.

105. Riviere, G.; Michaud, A.; Deloffre, L.; Vandenbulcke, F.; Levoe, A.; Breton, C.; Corvol, P.; Salzet, M. and Vieau, D. (2004). Characterization of the first non-insect invertebrate functional angiotensin-converting enzyme (ACE): leech TtACE resembles the N-domain of mammalian ACE. *Biochemical Journal*, **382**: 565-573.
106. **Rocha, E.**; Hinton, D.E and Wisse, E. (2004). Comparative Hepatology: A journal for all hepatologists with immediate Open Access to quality peer-reviewed research. *Comparative Hepatology*, **3**:1(1-3).
107. Rodrigues, P.M.; **Elandalloussi, L.M.** and **Cancela, M.L.** (2004). Effect of new drugs on the proliferation of *Perkinsus atlanticus*. Towards the development of a therapy? *Eur. J. Biochem*, **271** (suppl. 1): 206.
108. Ros, A. F. H.; Becker, K.; **Canario, A. V. M.** and **Oliveira, R. F.** (2004). Androgen levels and energy metabolism in *Oreochromis mossambicus*. *Journal of Fish Biology*, **65**: 895-905.
109. Ros, A. F. H.; Bruintjes, R.; **Santos, R. S.**; **Canario, A. V. M.** and **Oliveira, R. F.** (2004). The role of androgens in the trade-off between territorial and parental behavior in the Azorean rock-pool blenny, *Parablennius parvicornis*. *Hormones and Behavior*, **46**: 491-497.
110. Rowlerson, A.M.; Silva, P.; **Rocha, E.**; Olmedo, M. and **Valente, L.M.P.** (2004). Muscle development in cultured blackspot seabream (*Pagellus bogaraveo*): preliminary histochemical and immunohistochemical data on the fibre types. *Journal of Fish Biology*, **65**(s1):334-334.
111. Rueda-Jasso, R.; **Conceicao, L. E. C.**; Dias, J.; De Coen, W.; **Gomes, E.**; Rees, J. F.; Soares, F.; **Dinis, M. T.** and Sorgeloos, P. (2004). Effect of dietary non-protein energy levels on condition and oxidative status of Senegalese sole (*Solea senegalensis*) juveniles. *Aquaculture*, **231**: 417-433.
112. Rueda-Jasso, R.; **Conceição, L.E.C.**; Dias, J.; De Coen, W.; **Gomes, E.**; Rees, J. F.; Soares, F.; **Dinis, M.T.** and Sorgeloos, P. (2004). Effect of dietary non-protein energy levels on condition and oxidative status of Senegalese sole (*Solea senegalensis*). *Aquaculture*, **231** (1 - 4): 417-433.
113. Saavedra, M.; Guedes-Novais, S.; Alves A.; **Rema, P.**; Tacão, M.; Correia A. and Martinez-Murcia, A. (2004). Resistance to b-lactam antibiotics of *Aeromonas hydrophila* isolated from rainbow trout (*Oncorhynchus mykiss*). *International Microbiology*, **7**:207-211.
114. Saavedra, M.J.; Dantas de Brito, R.; Sousa, M.; Alves, A. and **Rema, P.** (2004). Isolamento de "Pasteurella spp." e "Vibrio spp." em robalos (*Dicentrarchus labrax*). Susceptibilidade a diferentes grupos de antibióticos. *Arq. Bras. Med. Vet. Zootec.*, **56** (2): 277-279.
115. Saele, O.; Solbakken, J. S.; Watanabe, K.; Hamre, K.; **Power, D.** and Pittman, K. (2004). Staging of Atlantic halibut (*Hippoglossus hippoglossus* L.) from first feeding through metamorphosis, including cranial ossification independent of eye migration. *Aquaculture*, **239**: 445-465.
116. **Saker, M.L.**; Metcalf, J.S.; Codd, G.A. and **Vasconcelos, V.** (2004). Accumulation and depuration of the cyanobacterial toxin cylindrospermopsin in the freshwater mussel *Anodonta cygnea*. *Toxicon*, **43** (2):185-194.
117. Santos, C. R. A.; Estevao, M. D.; **Fuentes, J.**; Cardoso, J. C. R.; Fabra, A.; Passos, A. L.; Detmers, F. J.; Deen, P. M. T.; Cerda, J. and Power, D. M. (2004). Isolation of a novel aquaglyceroporin from a marine teleost (*Sparus auratus*): function and tissue distribution. *Journal of Experimental Biology*, **207**: 1217-1227.
118. **Santos, M.M.**; **Vieira, N.**; Hallers-Tjabbes, C.C.; Santos, A.M.; Gomez-Ariza, J.L., and Giraldez, I. (2004). Butylin contamination off Oporto coast a possible effect of discharge of harbour dredged material. *Bulletin of Environmental Internatinonal*, **30**:793-793.
119. **Santos, M.M.**; **Vieira, N.**; **Reis-Henriques, M.A.**; Santos, A.M.; Gómez-Ariza, J.L.; Giraldez, I. and Ten Hallers-Tjabbes, C.C. (2004). Imposex and butylin contamination off the Oporto coast: a possible effect of discharge of dredged material. *Environment International*, **30** (6):793-798.
120. **Santos, R.**; Silva, J.; Alexandre, A.; Navarro, N.; Barron, C. and Duarte, C. M. (2004). Ecosystem metabolism and carbon fluxes of a tidally-dominated coastal lagoon. *Estuaries*, **27**: 977-985.
121. Sarmento, A.; **Guilhermino, L.** and **Afonso, A.** (2004). Mercury chloride effects on the function and cellular integrity of sea bass (*Dicentrarchus labrax*) head kidney macrophages. *Fish & Shellfish Immunology*, **17**: 489-498.
122. Sarmento, A.; Marques, F.; Ellis, A. E. and **Afonso, A.** (2004). Modulation of the activity of seabass (*Dicentrarchus labrax*) head-kidney macrophages by activating factor(s) and LPS. *Fish and Shellfish Immunology*, **16**: 79-82.
123. Silva, J. and **Santos, R.** (2004). Can chlorophyll fluorescence be used to estimate photosynthetic production in the seagrass *Zostera noltii*? *Journal of Experimental Marine Biology and Ecology*, **307**: 207-216.
124. Silva, P.; Andrade, C.A.P.; Timóteo, V.M.F.A.; **Rocha, E.** and **Valente, L.M.P.** (2004). Influence of dietary protein level on growth performance and body composition of juvenile blackspot seabream, *Pagellus bogaraveo* (Brunnich, 1768). *Journal of Fish Biology*, **65**(s1):334-335. <http://www.blackwell-synergy.com/links/doi/10.1111/j.0022-1112.2004.559au.x>

125. **Simes, D. C.**; Williamson, M. K.; Schaff, B. J.; **Gavaia, P. J.**; Ingleton, P. M.; Price, P. A. and **Cancela, M. L.** (2004). Characterization of osteocalcin (BGP) and Matrix Gla Protein (MGP) fish specific antibodies: Validation for immunodetection studies in lower vertebrates. *Calcified Tissue International*, **74**:170-180.
126. Streiff, R.; **Mira, S.**; Castro, M. and **Cancela, M. L.** (2004). Multiple paternity in Norway lobster (*Nephrops norvegicus* L.) assessed with microsatellite markers. *Marine Biotechnology*, **6**: 60-66.
127. **Sykes, A. V.**; Domingues, P. M. and **Andrade, J. P.** (2004). Nucleic acid derived indices or instantaneous growth rate as tools to determine different nutritional condition in cuttlefish (*Sepia officinalis*, Linnaeus 1758) hatchlings. *Journal of Shellfish Research*, **23**: 585-591.
128. Tuntiwaranuruk, C.; Chalermwat, K.; Upatham, E.S.; Kruatrachue, M. and **Azevedo, C.** (2004). Investigation of *Nematopsis* spp. oocysts in 7 species of bivalves from Chonburi Province, Gulf of Thailand. *Dis. Aquat. Org.*, **58** (1): 47-53.
129. Tzedakis, P.C.; Frogley, M.; Lawson, I.T.; Preece, R.C.; Cacho-Lascorz, I. and **de Abreu, L.** (2004). Ecological thresholds and patterns of millennial-scale climate variability: the response of vegetation in Greece during the last Glacial. *Geology*, **32**(2): 109-112.
130. Tzedakis, P.C.; Roucoux, K.H.; **de Abreu, L.** and Shackleton, N.J. (2004). The duration of forest stages in Southern Europe and interglacial climate variability. *Science*, **306**: 2231-2235.
131. **Vasconcelos, M.T.S.D.**; Lopez-Ruiz, J.L.; Garcia, A.; Leal, M.F.C. and **Fachini, A.** (2004). Effect of zeolites on cultures of the marine micro-algae *Emiliania huxleyi*. *Aquacult. Eng.*, **31** (3 - 4): 205-219.
132. **Vaz-Pires, P.** and **Barbosa, A.** (2004). Sensory, microbiological, physical and nutritional properties of iced common octopus (*Octopus vulgaris*). *Lebensmittel- Wissenschaft und -Technologie (Food Science and Technology)*, **37** (1): 105-114.
133. **Vaz-Pires, P.**; **Seixas, P.** and **Barbosa, A.** (2004). Aquaculture potential of the common octopus (*Octopus vulgaris* Cuvier, 1797): A review. *Aquaculture*, **238** (1-4): 221-238.
134. Vermaat, J. E.; Rollon, R. N.; Lacap, C. D. A.; Billot, C.; Alberto, F.; Nacorda, H. M. E.; Wiegman, F. and Terrados, J. (2004). Meadow fragmentation and reproductive output of the SE Asian seagrass *Enhalus acoroides*. *Journal of Sea Research*, **52**: 321-328.
135. Vieira, L.M.M.; **Kijjoo, A.**; Silva, A.M.S.; Mondranondra, I.O.; Kengthong, S.; Gales, L.; Damas, A.M. and Herz, W. (2004). Lanostanes and friedolanostanes from the bark of *Garcinia speciosa*. *Phytochemistry*, **65** (4):393-398.
136. Vieira, L.M.M.; **Kijjoo, A.**; Wilairat, R.; Nascimento, M.S.J.; Gales, L.; Damas, A.M.; Silva, A.M.S.; Mondranondra, I.O. and Hertz, W. (2004). Bioactive Friedolanostane and 11 (10⁸)-Abeolanostanes from the Bark of *Garcinia speciosa*. *Wall. J. Nat. Prod.* **67**: 2043-2047.
137. Vita, P.; Corral, L.; Matos, E. and **Azevedo, C.** (2004). Ultrastructural description of *Agarella gracilis* Dunkerly, 1915 (Myxozoa, Chloromyxidae) parasite of the dipnoan *Lepidosiren paradoxa* from the River Amazon. *Europ. J. Protistol.*, **40** (3): 213-218.
138. **Wilson, J.M.**; **Antunes, J.C.**; Bouça, P.D. and **Coimbra, J.** (2004). Osmoregulatory plasticity in glass eels (*Anguilla anguilla*): Freshwater entry and changes in branchial ion transport protein expression. *Canadian Journal of Fisheries and Aquatic Sciences*, **61** (3):432-442.
139. Wolanski, E.; Boorman, L. A.; **Chicharo, L.**; Langlois-Salious, E.; Lara, R.; Plater, A.J.; Uncles, R. J. and Zalewski, M. 2004. Ecohydrology as a new tool for sustainable management of estuaries and coastal waters. *Wetlands Ecology and Management*, **12** (4): 235-276.
140. Zardoya, R.; **Castilho, R.**; Grande, C.; Favre-Krey, L.; Caetano, S.; Marcato, S.; Krey, G. and Patarnello, T. (2004). Differential population structuring of two closely related fish species, the mackerel (*Scomber scombrus*) and the chub mackerel (*Scomber japonicus*), in the Mediterranean Sea. *Molecular Ecology*, **13**: 1785-1798.

2003 (166 articles)

1. Albers, E., **Laizé, V.**, Blomberg, A., Hohmann, S. and Gustafsson, L. (2003). Ser3p (Yer081wp) and Ser33p (Yil074cp) are phosphoglycerate dehydrogenases in *Saccharomyces cerevisiae*. *J. Biol. Chem.*, 278(12): 10264-10272.
2. Albers, E., **Laizé, V.**, Blomberg, A., Hohmann, S. and Gustafsson, L. (2003). Identification of phosphoglycerate dehydrogenases in *Saccharomyces cerevisiae*. *Yeast*, 20 Suppl.1: S270-S270.
3. Alberto, F., Correia, L., **Arnaud-Haond, S.**, Billot, C., Duarte, C.M. and **Serrão, E.** (2003). New microsatellite markers for the endemic Mediterranean seagrass *Posidonia oceanica*. *Mol. Ecol. Notes*, 3(2): 253-255.
4. Alberto, F., Correia, L., Billot, C., Duarte, C. M. and **Serrão, E.** (2003). Isolation and characterization of microsatellite markers for the seagrass *Cymodocea nodosa*. *Mol. Ecol. Notes*, 3(3): 397-399.
5. **Almeida, C.M.R.** and **Vasconcelos, M.T.S.D.** (2003). Multielement composition of wines and their precursors including provenance soil and their potentialities as fingerprints of wine origin. *J. Agr. Food Chem.*, 51(16): 4788-4798.
6. **Almeida, C.M.R.** and **Vasconcelos, M.T.S.D.** (2003). Multielement composition and ⁸⁷Sr/⁸⁶Sr of wines and their potentialities as fingerprints of wine provenance. *Ciência Técnica Vitivinícola*, 18(1): 15-27 (2003).
7. **Almeida, C.M.R.**, and **Vasconcelos, M.T.S.D.** (2003). Lead contamination in portuguese red wines from Douro Region: from the vineyard to the final product. *J. Agr. Food Chem.*, 51(10): 3012-3023.
8. Alves, F., **Chícharo, L.**, Nogueira, A. and Regala, J. (2003). Changes in benthic community structure due to clam dredging on the Algarve coast and the importance of seasonal analysis. *J. Mar. Biol. Assoc. UK*, 83(4): 719-729.
9. Alves, F.M.A., **Chícharo, L. M.**, **Serrão, E.** and Abreu, A. D. (2003). Grazing by *Diadema antillarum* (Philippi) upon algal communities on rocky substrates. *Sci. Mar.*, 67(3): 307-311.
10. **Alves, T.**, Gawthorpe, R., Hunt, D. and Monteiro, J. (2003). Cenozoic tectono-sedimentary evolution of the western Iberian margin. *Marine Geology*, 195: 75-108.
11. **Alves, T.**, Gawthorpe, R., Hunt, D. and Monteiro, J. (2003). Post-Jurassic tectono-sedimentary evolution of the Northern Lusitanian Basin (West Iberian margin). *Basin Res.*, 15(2): 227-249.
12. **Alves, T.M.**, Manuppella, G, Gawthorpe, R.L, Hunt, D. and Monteiro, J. (2003). The depositional evolution of diapir- and fault-bounded rift basins: examples from the Lusitanian Basin of West Iberia. *Sediment. Geol.*, 162(3-4): 273-303 .
13. **Antunes, C.** and **Correia, A.T.** (2003). Sagitta microstructure of European conger eel, *Conger conger* (L.), leptocephali compared with leptocephali of the eel, *Anguilla anguilla* (L.). *Arch. Fish. Mar. Res.*, 50(3):227-237.
14. **Aragão, C.**, **Conceição L. E. C.**, Dias, J., Marques, A. C., **Gomes E.** and **Dinis, M. T.** (2003). Soy protein concentrate as a protein source for Senegalese sole (*Solea Senegalensis* Kaup 1858) diets: effects on growth and amino acid metabolism of postlarvae. *Aquacult. Res.*, 34(15): 1443-1452.
15. **Arnaud-Haond, S.**, Bonhomme, F. and Blanc, F. (2003). Large discrepancies in differentiation of allozymes, nuclear and mitochondrial DNA loci in recently founded Pacific populations of the pearl oyster *Pinctada margaritifera*. *J. Evolution Biol.*, 16(3): 388-398.
16. **Arnaud-Haond, S.**, Monteforte, M., Blanc, F. and Bonhomme, F. (2003). Evidence for male-biased effective sex ratio and recent colonisation in the bivalve *Pinctada mazatlanica*. *J. Evolution Biol.*, 16(5): 790-796.
17. **Arnaud-Haond, S.**, Vonau, V., Bonhomme, F., Boudry, P., Prou, J., Seaman, T., Veyret, M. and Goyard, E. (2003). Spat collection of the pearl oyster (*Pinctada margaritifera cumingii*) in French Polynesia: an evaluation of the potential impact on genetic variability of wild and farmed populations after 20 years of commercial exploitation. *Aquaculture*, 219(1-4): 181-192.
18. Aurelle, D., Guillemaud, T., Afonso, P., Morato, T., **Wirtz, P.**, Santos, R. S. and **Cancela, M. L.** (2003). Genetic study of *Coris julis* (Osteichthyes, Perciformes, Labridae) evolutionary history and dispersal abilities. *C. R. Biol.*, 326(8): 771-785.
19. **Azevedo C.** and Matos E. (2003). Fine structure of *Henneguya pilosa* sp. n. (Myxozoa: Myxosporea), parasite of *Serrasalmus altuvei* (Characidae) in Brazil. *Folia Parasit.*, 50(1): 37-42.
20. **Azevedo, C.** and Matos, E. (2003). *Amazonspora hassar* n. gen. and n. sp. (Phylum Microsporidia, fam. Glugeidae), a parasite of the Amazonian teleost, *Hassar orestis* (fam. Doradidae). *J. Parasitol.*, 89(2): 336-341.

21. **Azevedo, C.**, Conchas, R.F. and Montes, J. (2003). Description of *Haplosporidium edule* n. sp. (phylum Haplosporidia), a parasite of *Cerastoderma edule* (Mollusca, Bivalvia) with complex spore ornamentation. *Eur. J. Protistol.*, 39(2): 161-167.
22. Bargelloni, L., Alarcon, J. A., **Alvarez, M. C.**, Penzo, E., Magoulas, A., Reis, C. and Patarnello, T. (2003). Discord in the family Sparidae (Teleostei): divergent phylogeographical patterns across the Atlantic-Mediterranean divide. *J. Evolution Biol.*, 16(6): 1149-1158.
23. **Beja, P.** and Alcazar, R. (2003). Conservation of Mediterranean temporary ponds under agricultural intensification: an evaluation using amphibians. *Biol. Conserv.*, 114(3): 317-326.
24. **Billingham, M.R.**, Reusch, T.B.H., **Alberto, F.** and **Serrão, E.A.** (2003). Is asexual reproduction more important at geographical limits? A genetic study of the seagrass *Zostera marina* in the Ria Formosa, Portugal. *Mar. Ecol-Prog Ser.*, 265: 77-83.
25. **Bordalo, A.A.** (2003). Microbiological water quality in urban coastal beaches: the influence of water dynamics and optimization of the sampling strategy. *Water Res.*, 37(13): 3233 - 3241.
26. **Borges, G.**, **Mendonça, P.**, **Joaquim, N.**, **Coucelo, J.** and Aureliano, M. (2003). Acute effects of vanadate oligomers on heart, kidney, and liver histology in the Lusitanian toadfish (*Halobatrachus didactylus*). *Arch. Environ. Con. Tox.*, 45(3): 415-422.
27. **Borges, M.T.**, Morais, A. and Castro, P.M.L. (2003). Performance of outdoors treatment systems for recirculating in an intensive turbot (*Scophthalmus maximus*) farm. *Aquacult. Int.*, 11(6): 557-570.
28. **Borges, T. C.**, **Olim, S.** and **Erzini, K.** (2003). Weight-length relationships for fish species discarded in commercial fisheries of the Algarve (southern Portugal). *J. Appl. Ichthyol.*, 19(6): 394-396.
29. **Bouriak, S.**, Volkonskaia, A. and Galaktionov, V. (2003). 'Split' strata-bounded gas hydrate BSR below deposits of the Storegga Slide and at the southern edge of the Voring Plateau. *Mar. Geol.*, 195 (1-4): 301-318.
30. **Brinca, L.**, **Fuentes, J.** and **Power, D. M.** (2003). The regulatory action of estrogen and vasoactive intestinal peptide on prolactin secretion in sea bream (*Sparus aurata*, L.). *Gen. Comp. Endocr.*, 131(2): 117-125.
31. Brizhik, L.S., **Cruzeiro-Hansson, L.** Eremko, A.A., Olkhovska. and Yu. V. (2003). Dynamical properties of Davydov solitons in molecular chains. *UKR FIZ ZH (Ukrainian Journal of Physics)*, 48: no.7: 667-671.
32. **Cabral, J.P.** (2003). Characterization and multivariate analysis of *Patella intermedia*, *Patella ulyssiponensis* and *Patella vulgata* from Póvoa de Varzim (Northwest Portugal). *Iberus*, 21: 1-17.
33. **Cabral, J.P.** (2003). Copper toxicity to five *Parmelia lichens* in vitro. *Environ. Exp. Bot.* 49(3): 237:250.
34. **Cabral, J.P.** and Silva, A.C.F. (2003). Morphometric analysis of limpets from an Iron-Age shell midden found in northwest Portugal. *J. Archaeol. Sci.*, 30(7): 817-829.
35. Cabrita, A. R. J., Fonseca, A. J. M., Dewhurst, R. J. and **Gomes, E.** (2003). Nitrogen supplementation of corn silages. 2. assessing rumen function using fatty acid profiles of bovine milk. *J. Dairy Sci.* 86(12): 4020-4032.
36. Cabrita, A.R.J., Fonseca, A.J. M., Dewhurst, R.J., Sampaio, C.V.P, Miranda, M.S.F., Sousa, G.N.S, Miranda, I.M.F. and **Gomes, E.** (2003). Nitrogen supplementation of corn silages. 1. effects on feed intake and milk production of dairy cows. *J. Dairy Sci.*, 86(12): 4008-4019.
37. Calado, A.M., **Rocha, E.**, Colaço, A. and Sousa, M. (2003). A stereological study of medium antral follicles during the bovine estrous cycle. *Tissue Cell*, 35(5): 313-323.
38. Calado, A.M., **Rocha, E.**, Colaço, A. and Sousa, M. (2003). Stereological characterization of bovine (*Bos taurus*) cumulus-oocyte complexes aspirated from small antral follicles during the metestrous and proestrous phases. *Theriogenology*, 60(3): 429-443.
39. Campos, A., Fonseca, P. and **Erzini, K.** (2003). Size selectivity of diamond and square mesh cod ends for four by-catch species in the crustacean fishery off the Portuguese south coast. *Fish. Res.*, 60(1): 79-97.
40. **Cardoso, J.C.R.**, **Power, D.M.**, Elgar, G. and Clark, M. S. (2003). Genomic characterisation of putative growth hormone releasing hormone (GHRH) receptor genes in the teleost fish *Fugu rubripes*. *DNA Sequence*, 14(2): 129-133.
41. **Cardoso, J.C.R.**, **Power, D.M.**, Elgar, G. and Clark, M. S. (2003). Isolation and characterisation of the corticotropin releasing factor receptor 1 (CRFR1) gene in a teleost fish, *Fugu rubripes*. *DNA Sequence*, 14(3): 215-218.
42. **Carneiro, L.A.**, Oliveira, R.F., **Canário, A.V.M.** and Grober, M.S. (2003). The effect of arginine vasotocin on courtship behaviour in a blennioid fish with alternative reproductive tactics. *Fish Physiol. Biochem.* 28(1-4): 241-243.

43. **Carvalho, A.P., Oliva Teles, A.** and Bergot, P. (2003). A preliminary study on the molecular weight profile of soluble protein nitrogen in live food organisms for fish larvae. *Aquaculture*, 225(1-4): 445-449.
44. Carvalho, F., Machado, I. Sanchez Martínez, M., Soares, A.M.V.M. and **Guilhermino, L.** (2003). Use of atropine-treated *Daphnia magna* survival for detection of environmental contamination by acetylcholinesterase inhibitors. *Ecotox. Environ. Safe.*, 54(1): 43-46
45. **Casal, G.**, Matos, E. and **Azevedo, C.** (2003). Light and electron microscopic study of the myxosporean, *Henneguya friderici* n. sp. from the Amazonian teleostean fish, *Leporinus friderici*. *Parasitology*, 126(4): 313-319.
46. Castro, B.B., **Guilhermino, L.** and Ribeiro, R. (2003). *In situ* bioassay chambers and procedures for assessment of sediment toxicity with *Chironomus riparius*. *Environ. Pollut.*, 125(3): 325-335.
47. **Castro, M., Araújo, A., Monteiro, P.**, Madeira, A. M. and Silvert, W. (2003). The efficacy of releasing caught *Nephrops* as a management measure. *Fish. Res.*, 65(1-3): 475-484.
48. **Castro, M., Encarnação, P.** and Henriques, P. (2003). Increment at molt for the Norway lobster (*Nephrops norvegicus*) from the south coast of Portugal. *ICES J. Mar. Sci.*, 60: 1159-1164.
49. Cavaco, J.E.B., Santos, C. R. A., Ingleton, P. M., **Canário, A.V.M.** and **Power, D.M.** (2003). Quantification of prolactin (PRL) and PRL receptor messenger RNA in gilthead Seabream (*Sparus aurata*) after treatment with Estradiol-17 β . *Biol. Reprod.*, 68(2): 588-594.
50. Cerqueira, F., Cordeiro da Silva, A., Araújo, N., Cidade, H., **Kijjoo, A.** and Nascimento, M.S.J. (2003). Inhibition of lymphocyte proliferation by prenylated flavones: artelastin as a potent inhibitor. *Life Sci.*, 73(18): 2321 - 2334.
51. Cerqueira, F., **Watanadilok, R.**, Sonchaeng, P., **Kijjoo, A.**, Pinto, M., van Ufford, H.Q., Kroes, B., Beulerman, C. and Nascimento, M.S.J.(2003). Clinasterol: A potent inhibitor of complement component C1. *Planta Med.*, 69 (2): 174-176.
52. Chew, S. F., Hong, L. N., **Wilson, J.M.**, Randall, D. J. and Ip, Y. K. (2003). Alkaline environmental pH has no effect on ammonia excretion in the mudskipper *Periophthalmodon schlosseri* but inhibits ammonia excretion in the related species *Boleophthalmus boddarti*. *Physiol. Biochem. Zool.*, 76(2):204-214.
53. **Chícharo, L.** (2003). Big is beautiful? The Alqueva Dam reservoir: the largest artificial lake in Europe. *SIL News - International Association of Theoretical and Applied Limnology*, 39:1-4.
54. **Chícharo, L.** (2003). Book review of Preserving the Pascagoula. *Wetlands Ecology and Management*, 11: 363-363.
55. **Chícharo, M.A., Amaral, A.**, Condinho, S., Alves, F., Regala, J., Gaspar, M. and **Chícharo, L.** (2003). Adenylic-derived indices and reburying time as indicators of the effects of dredging-induced stress on the clam *Spisula solida*. *Mar. Biol.*, 142(6): 1113-1117.
56. **Chícharo, M.A., Chícharo, L., Amaral, A.**, Condinho, S. and Gaspar, M. (2003). Chronic effects of dredging-induced stress on the clam (*Spisula solida*): nucleic acid and lipid composition. *Fish. Res.*, 63(3): 447-452.
57. **Chícharo, M.A., Esteves, E.**, Santos, A. M. P., dos Santos, A., Peliz, A. and Ré, P. (2003). Are sardine larvae caught off northern Portugal in winter starving? An approach examining nutritional conditions. *Mar. Ecol - Prog. Ser.*, 257: 303-309.
58. **Coelho, R., Bentes, L., Gonçalves, J. M. S.**, Lino, P. G., **Ribeiro, J.** and **Erzini, K.** (2003). Reduction of elasmobranch by-catch in the hake semipelagic near-bottom longline fishery in the Algarve (Southern Portugal). *Fisheries Sci.*, 69(2): 293-299.
59. **Conceição, L.E.C.**, Grasdalen, H. and **Dinis, M.T.** (2003). A new method to estimate the relative bioavailability of individual amino acids in fish larvae using C-13-NMR spectroscopy. *Comp. Biochem. Phys. B*, 134(1): 103-109.
60. **Conceição, L.E.C.**, Grasdalen, H. and **Ronnestad, I.** (2003). Amino acid requirements of fish larvae and post-larvae: new tools and recent findings. *Aquaculture*, 227(1-4): 221-232.
61. **Correia, A.T., Antunes, C.**, Isidro E.J. and **Coimbra, J.** (2003). Changes in otolith microstructure and microchemistry during the larval development of the European conger eel (*Conger conger*). *Mar. Biol.*, 142(4):777-789.
62. **Cruz, C., Vaz, A.** and **Saraiva, A.** (2003). Occurrence of *Kudoa* sp. (Myxozoa) in *Trachurus trachurus* L. (Osteichthyes) in Portugal. *Parasite*, 10(2): 165-167.
63. **Cunha, I.**, Saborido-Rey and Planas, M.(2003). Use of multivariate analysis to assess the nutritional condition of fish larvae from nucleic acids and protein content. *Biol. Bull.*, 204(3): 339 - 349.
64. **de Abreu, L.**, Shackleton, N.J, Schonfeld, J., Hall, M. and Chapman, M. (2003). Millennial-scale oceanic climate variability off the Western Iberian margin during the last two glacial periods . *Mar. Geol.*, 196 (1-2): 1-20.

65. Diamantino, T.C., Almeida, E., Soares, A.M.V.M. and **Guilhermino, L.** (2003). Characterization of cholinesterase from *Daphnia magna* Straus and its inhibition by zinc. *B. Environ. Contam. Tox.*, 71(2): 219-225.
66. Dias, M.L.G.G., **Eiras, J.C.**, Machado, M.H., Souza, G.T.R.E. and Pavanelli, G.C., (2003). The attachment of *Clinostomum* sp. (Digenea, Clinostomidae) to the oesophagus of the bird *Ardea cocoi*. *Parasite*, 10(2): 185-187.
67. Dias, M.L.G.G., **Eiras, J.C.**, Machado, M.H., Souza, G.T.R.E. and Pavanelli, G.C., (2003). The life cycle of *Clinostomum complanatum* Rudolphi, 1814 (Digenea, Clinostomidae) at the floodplain of the high Paraná river, Brazil. *Parasitol. Res.*, 89(6): 506-508.
68. Dias, M.L.G.G., **Santos, M.J.**, Souza, G.T.R.E., Machado, M. H. and Pavanelli, G.C. (2003). Scanning electron microscopy of *Ithyoclinostomum dimorphum* (Trematoda: Clinostomidae), a parasite of *Ardea cocoi* (Aves: Ardeidae). *Parasitol. Res.*, 90(5): 355-358.
69. Dias, N. and **Sprung, M.** (2003). Population dynamics and production of the amphipod *Orchestia gammarellus* (Talitridae) in a Ria Formosa saltmarsh (southern Portugal). *Crustaceana*, 76 (9): 1123-1141.
70. **Diekmann, O.E.**, Olsen, J.L., Stam, W.T. and Bak, R.P.M. (2003). Genetic variation within *Symbiodinium* clade B from the coral genus *Madracis* in the Caribbean (Netherlands Antilles). *Coral Reefs*, 22(1): 29-33.
71. **Domingues, P.**, Poirier, R., Dickel, L., Almansa, E., **Sykes, A.** and **Andrade, J. P.** (2003). Effects of culture density and live prey on growth and survival of juvenile cuttlefish, *Sepia officinalis*. *Aquacult. Int.*, 11(3): 225-242.
72. **Domingues, P.**, **Sykes, A.**, Sommerfield, A. and **Andrade, J. P.** (2003). Effects of feeding live or frozen prey on growth, survival and the life cycle of the cuttlefish, *Sepia officinalis* (Linnaeus, 1758). *Aquacult. Int.*, 11(5): 397-410.
73. dos Santos, M.N., Gaspar, M., Monteiro, C.C. and **Erzini, K.** (2003). Gill net selectivity for European hake *Merluccius merluccius* from southern Portugal: implications for fishery management. *Fish. Sci.*, 69(5): 873-882.
74. Elandaloussi, L.M., **Afonso, R.**, Nunes, P.A. and **Cancela, M.L.** (2003). Effect of desferrioxamine and 2,2'-bipyridyl on the proliferation of *Perkinsus atlanticus*. *Biomol. Eng.*, 20(4-6): 349-354.
75. Enes, P. and **Borges, M.T.** (2003). Evaluation of microalgae and industrial cheese whey as food for *Tapes decussates* (L.) seed: effects on water quality, growth, survival, condition and filtration rate. *Aquac. Res.*, 34(4): 299-309
76. Engel, C.R., Brawley, S.H., Edwards, K.J. and **Serrão, E.** (2003). Isolation and cross-species amplification of microsatellite loci from the fucoid seaweeds *Fucus vesiculosus*, *F. serratus* and *Ascophyllum nodosum* (Heterokontophyta, Fucaceae). *Mol. Ecol. Notes* 3(2): 180-182.
77. **Erzini, K.**, **Gonçalves, J.M.S.**, **Bentes, L.**, **Lino, P.G.**, **Ribeiro, J.** and Stergiou, K.I. (2003). Quantifying the roles of competing static gears: comparative selectivity of longlines and monofilament gill nets in a multi-species fishery of the Algarve (southern Portugal). *Sci. Mar.*, 67(3): 341-352.
78. **Erzini, K.**, **Monteiro, P.**, **Araújo, A.** and **Castro, M.** (2003). Limited mid-water scavenging of trawl discards. *J. Mar. Biol. Assoc. UK*, 83(4): 731-734.
79. Fernandes, R.M.S., Ambrosius, B.A.C., Noomen, R., Bastos, L., Wortel, M.J.R., Spakman, W. and Govers, R. (2003). The relative motion between Africa and Eurasia as derived from ITRF2000 and GPS data. *Geophys. Res. Lett.*, 30(16): art. nº 1828.
80. **Fidalgo, M.L.** and Gerhardt, A. (2003). Distribution of the freshwater shrimp, *Atyaephyra desmarestii* (MILLET, 1831) in Portugal (Decapoda, Natantia). *Crustaceana*, 75 (11): 1375-1385.
81. Fontainhas Fernandes, A. **Gomes, E.F.**, **Reis-Henriques, M.A.** and **Coimbra, J.** (2003). Effect of cortisol on some osmoregulatory parameters of the teleost, *Oreochromis niloticus* L., after transference from freshwater to seawater. *Arq. Bras. Med. Vet. Zoot.*, 55 (5): 562 - 567.
82. Frasco M.F., Moreira S.M., Ribeiro R., Carvalho F., **Guilhermino L.** (2003). Biochemical characterization of cholinesterases from *Palaemon serratus* (Arthropoda: Crustacea) and *Hediste diversicolor* (Annelida: Polychaeta). *Journal of Veterinary Pharmacology and Therapeutics* 26 (1): 262.
83. Friend, P. L., Ciavola, P., Cappucci, S. and **Santos, R.** (2003). Bio-dependent bed parameters as a proxy tool for sediment stability in mixed habitat intertidal areas. *Cont. Shelf. Res.*, 23(17-19): 1899-1917.
84. Gamito, S., Pires, A., Pita, C. and **Erzini, K.** (2003). Food availability and the feeding ecology of ichthyofauna of a Ria Formosa (South Portugal) water reservoir. *Estuaries*, 26(4A): 938-948.
85. Gaspar, M.B., Leitão, F., Santos, M.N., **Chícharo, L.**, **Dias, M.D.**, **Chícharo, A.** and Monteiro, C.C. (2003). A comparison of direct macrofaunal mortality using three types of clam dredges. *ICES J. Mar. Sci.*, 60(4): 733-742.

86. Gaspar, M.B., Leitão, F., Santos, M.N., Sobral, M., **Chicharo, L., Chicharo, A.** and Monteiro, C.C. (2003). Size selectivity of the *Spisula solida* dredge in relation to tooth spacing and mesh size. *Fish. Res.*, 60(2-3): 561-568.
87. Gaspar, M.B., Santos, M.N., Leitão, F., **Chicharo, L., Chicharo, A.** and Monteiro, C.C. (2003). Recovery of substrates and macro-benthos after fishing trials with a new Portuguese clam dredge. *J. Mar. Biol. Assoc. UK*, 83(4): 713-717.
88. Gavaia ,P.J., Simes, D.C., **Ortiz-Delgado, J.B.**, Sarasquete, M.C. and **Cancela, M.L.** (2003). Simultaneous detection of Osteocalcin and Matrix Gla Protein in developmental stages of Zebra fish (*Danio rerio*) P-438. *Calcified Tissue Int.*, 72(4): 441.
89. Geenen, S., Jordaens, K., **Castilho, R.** and Backeljau, T. (2003). Congruence between starch gel and polyacrylamide gel electrophoresis in detecting allozyme variation in pulmonate land slugs. *Electrophoresis*, 24(4): 622-627.
90. **Gonçalves, J.M.S., Bentes, L., Coelho, R.,** Correia, C., **Lino, P. G.,** Monteiro, C. C.P., **Ribeiro, J.** and **Erzini, K.** (2003). Age and growth, maturity, mortality and yield-per-recruit for two banded bream (*Diplodus vulgaris* Geoffr.) from the south coast of Portugal. *Fish. Res.*, 62(3): 349-359.
91. González, A.F., Pascual, S., **Gestal, C.,** Abollo E. and Guerra, A. (2003). Influence of biotic and abiotic factors on parasitic infections of cephalopods in Galician waters. *Fish. Res.*, special issue, 60: 117-183.
92. **Gouveia, A.** (2003). Aquaculture in the Mediterranean region: an overview. *Magazine of the European Aquaculture Society in World Aquaculture*, 34(3): 3-7.
93. Gouveia, L., **Rema, P.,** Pereira, O. and Empis, J. (2003). Colouring ornamental fish (*Cyprinus carpio* and *Carassius auratus*) with microalgal biomass. *Aquacult. Nutr.*, 9(2): 123-129.
94. Goyard E., **Arnaud, S.,** Vonau, V., Bishoff, V., Mouchel, O., Pham, D., Wyban, J. and Boudry, P. (2003). Residual genetic variability in domesticated populations of the Pacific blue shrimp (*Litopenaeus stylirostris*) of New Caledonia, French Polynesia and Hawaii and some management recommendations. *Aquatic Living Resour.*, 16(6): 501-508.
95. **Haond, C.,** Nolan, D.T., **Ruane, N.M., Rotllant, J.** and Bonga, S.E.W. (2003). Cortisol influences the host-parasite interaction between the rainbow trout (*Oncorhynchus mykiss*) and the crustacean ectoparasite *Argulus japonicus*. *Parasitology*, 127(6): 551-560.
96. **Hubbard, P.C., Barata, E.N.** and **Canário, A.V.M.** (2003). Olfactory sensitivity of the gilthead seabream (*Sparus auratus* L.) to conspecific body fluids. *J. Chem. Ecol.*, 29(11): 2481-2498.
97. **Hubbard, P.C., Barata, E.N.** and **Canário, A.V.M.** (2003). Olfactory sensitivity to catecholamines and their metabolites in the goldfish. *Chem. Senses*, 28(3): 207-218.
98. Inácio, P., Bernardo, F. and **Vaz-Pires, P.** (2003). Effect of washing with tap and treated seawater on the quality of whole scad (*Trachurus trachurus*). *Eur. Food Res. Technol.*, 217 (5): 406-411.
99. Ladah, L., Bermudez, R., **Pearson, G.** and **Serrão, E.** (2003). Fertilization success and recruitment of dioecious and hermaphroditic furoid seaweeds with contrasting distributions near their southern limit. *Mar. Ecol-Prog. Ser.*, 262: 173-183.
100. **Leite, R.M., Rodrigues, P.M., Elandalloussi, L.M., Afonso, R.M.,** Nunes, P.A. and **Cancela, M.L.** (2003). *Perkinsus Atlanticus* – Development of a diagnosis method to detect infection in molluscs. *Boletim de Biotecnologia*, 75: 8-11.
101. **Lobo-da-Cunha, A.** and **Batista-Pinto, C.** (2003). Stomach cells of *Aplysia depilans* (Mollusca, Opisthobranchia): a histochemical, ultrastructural and cytochemical study. *J. Morphol.*, 256(3): 360 – 370.
102. **Machás, R., Santos, R.** and Peterson, B. (2003). Tracing the flow of organic matter from primary producers to filter feeders in Ria Formosa lagoon, southern Portugal. *Estuaries*, 26(4A): 846-856.
103. **Magalhães, C. M., Bordalo, A.A.** and Wiebe, W.J. (2003). Intertidal biofilms on rocky substratum can play a major role in estuarine carbon and nutrient dynamics. *Mar. Ecol-Prog. Ser.*, 258: 275-281.
104. **Malaquias, M. A. E.,** Borges, J. P. and **Borges, T. C.** (2003). On the occurrence of *Callumbonella suturalis* (Philippi, 1836) (Mollusca: Gastropoda: Prosobranchia) on the south Atlantic coasts of Europe. *J. Conchol.*, 38(1): 1-5.
105. Marcos, R., **Rocha, E.,** Henrique, R.M.F. and **Monteiro, R.A.F.** (2003). A new approach to an unbiased estimate of the hepatic stellate cell index in the rat liver – An example in healthy conditions. *J. Histochem. Cytochem.*, 51(8): 1101-1104.
106. **Marques, S.M.P.,** Veyrone, J.L., Shukla, R.R. and Kumar A. (2003). Restriction of human immunodeficiency virus type 1 Rev function in murine A9 cells involves the Rev C-terminal domain. *J. Virol.*, 77(5): 3084-3090.
107. Matos, E. Corral, L. and **Azevedo, C.** (2003). Ultrastructural details of the xenoma of *Loma myrophis* (Phylum Microsporidia) and extrusion of the polar tube during autoinfection. *Dis. Aquat. Organ.*, 54(3): 203-207.

108. Mercado, J.M., Niell, F.X., Silva, J. and **Santos, R.** (2003). Use of light and inorganic carbon acquisition by two morphotypes of *Zostera noltii* Hornem. *J. Exp. Mar. Biol. Ecol.*, 297(1): 71-84.
109. Mesquita, R., **Canário, A.V.M.** and Melo, E. (2003). Partition of fish pheromones between water and aggregates of humic acids. Consequences for sexual signaling. *Environ. Sci. Technol.*, 37(4): 742-746.
110. **Modesto, T.** and **Canário, A.V.M.** (2003). Hormonal control of swimbladder sonic muscle dimorphism in the Lusitanian toadfish *Halobatrachus didactylus*. *J. Exp. Biol.*, 206(19): 3467-3477.
111. **Modesto, T.** and **Canário, A.V.M.** (2003). Morphometric changes and sex steroid levels during the annual reproductive cycle of the Lusitanian toadfish, *Halobatrachus didactylus*. *Gen. Comp. Endocr.*, 131(3): 220-231.
112. **Monteiro, N.M.**, Almada, V.C. and **Vieira, M.N.** (2003). Early life history of the pipefish *Nerophis lumbriciformis* (Pisces: Syngnathidae). *J. Mar. Biol. Assoc. UK*, 83(5): 1179-1182.
113. **Morais, P.**, **Chícharo, M. A.** and Barbosa, A. (2003). Phytoplankton dynamics in a coastal saline lake (SE-Portugal). *Acta Oecol.*, 24(1): S87-S96.
114. **Moreira S.M.**, Frasco M.F., Carvalho F., Ribeiro R., **Guilhermino L.** (2003). Environmental biomarkers in two estuarine invertebrates: *Hediste diversicolor* and *Palaemon serratus*. *Journal of Veterinary Pharmacology and Therapeutics* 26 (1): 261-262.
115. **Mucha, A.P.**, **Bordalo, A.A.** and **Vasconcelos M.T.S.D.** (2003). Comparison of the response of three microalgae species exposed to elutriates of estuarine sediments based on growth and chemical speciation. *Environ. Toxicol. Chem.*, 22(3): 576-585.
116. **Mucha, A.P.**, **Bordalo, A.A.** and **Vasconcelos, M.T.S.D.** (2003). Macrobenthic community in the Douro estuary: relations with trace metals and natural sediment characteristics. *Environ. Pollut.*, 121(2): 169-180.
117. Mulder, T., Voisset, M., Lecroart, P., Le Drezen, E., Gonthier, E., Hanquiez, V., Faugères, J.-C., Habgood, E., Hernandez-Molina, J.F., Estrada, F., Llave-Barranco, E., Poirier, D., Gorini, D., Fuchey, Y., **Voelker, A.**, Freitas, P., Lobo Sanchez, F., Fernandez, L.M., Kenyon, N.H. and Morel, J. (2003). The Gula of Cadiz: an instable giant countouritic levee. *Geo-Marine Setter*, 23:7-18.
118. Neori, A., Msuya, F.E., Shauli, L., **Schuenhoff, A.**, Kopel, F. and Shpigel, M. (2003). A novel three-stage seaweed (*Ulva lactuca*) biofilter design for integrated mariculture. *J. Appl. Phycol.*, 15(6): 543-553.
119. Oliveira, R.F., Hirschenhauser, K., **Canário, A.V.M.** and Taborsky, M. (2003). Androgen levels of reproductive competitors in a co-operatively breeding cichlid. *J. Fish Biol.*, 63(6): 1615-1620.
120. **Ortiz-Delgado, J.B.**, Darias, M.J., Cañavate, J.P., Yúfera, M. and Sarasquete, C. (2003). Organogenesis of the digestive tract and associated organs on white seabream, *Diplodus sargus*. Histological and histochemical approaches. *Histol. Histopathol.*, 18(4): 1141-1154.
121. **Ortiz-Delgado, J.B.**, Gonzalez de Canales, M.L. and Sarasquete, C. (2003). Histopathological changes induced by lindane in several organs of fishes. *Sci. Mar.*, 67(1): 53-61.
122. **Ozório, R.O.A.**, Verreth, J.A.J., **Aragão, C.R.**, Vermeulen, C.J., Schrama, J.W. and Versteegen, M.W.A. (2003). Dietary carnitine supplements increased lipid metabolism and decreased protein oxidation in African catfish (*Clarias gariepinus*) juveniles fed high fat levels. *Journal of Aquaculture in the Tropics*, 18: 225-238.
123. Padovan, I.P., Tavares, L.A., Corral, L., Padovan, P.A. and **Azevedo, C.** (2003). Fine structure of the oocyst of *Nematopsis mytella* (Apicomplexa, Porosporidae), a parasite of the mussel *Mytella falcata* and of the oyster *Crassostrea rizophorae* (Mollusca, Bivalvia) from the northeastern Atlantic coast of Brazil. *Brazilian Journal of Morphology Sciences*, 20: 141-145
124. Palma, J., Reis, C. and **Andrade, J.P.** (2003). Flatfish discarding practices in bivalve dredge fishing off the south coast of Portugal (Algarve). *J. Sea Res.*, 50(2-3): 129-137.
125. **Pearson G.**, **Serrão E.**, Dring, M. and Schmid, R. (2003). Blue and green-light signals for gamete release in the brown alga *Silvetia compressa*. *Oecologia*, 138: 193-201.
126. Pereira, T.G. and **Oliva-Teles, A.** (2003). Evaluation of corn gluten meal as protein source in diets for gilthead sea bream (*Sparus aurata*) juveniles. *Aquac. Res.*, 34(13):1111-1117.
127. **Peres, H.** and **Oliva-Teles, A.** (2003). The effect of dietary ribonucleic acid incorporation in performance of European sea bass (*Dicentrarchus labrax*) juveniles. *Aquaculture*, 215(1-4): 245-253.
128. **Peres, H.**, Lim, C. and Klesius, P.H. (2003). Nutritional value of heat-treated soybean meal for channel catfish (*Ictalurus punctatus*). *Aquaculture*, 225(1-4): 67-82.
129. Petkam, R., Renaud, R.L., **Freitas, A.**, **Canário, A.V.M.**, Raeside, J.I., Kime, D.E., and Leatherland, J.F. (2003). *In vitro* metabolism of pregnenolone to 7 α -hydroxypregnenolone by rainbow trout embryos. *Gen. Comp. Endocr.*, 131(3): 241-249.
130. Pina, T., **Esteves, E.** and **Andrade, J.P.** (2003). Gross and histological observations of ovarian development in twaite shad, *Alosa fallax fallax*, from the Rivers Mira and Guadiana (Portugal). *Sci. Mar.*, 67(3): 313-322.

131. Pinto, J.P., **Conceição, N.**, **Gavaia, P.J.** and **Cancela, M.L.** (2003). Matrix Gla protein gene expression and protein accumulation colocalize with cartilage distribution during development of the teleost fish *Sparus aurata*. *Bone*, 32(3): 201-210.
132. Pousão-Ferreira, P., Santos, P., **Carvalho, A.P.**, Morais, S. and Narciso, L. (2003). Effect of an experimental microparticulate diet on the growth, survival and fatty acid profile of gilthead seabream (*Sparus aurata* L.) larvae. *Aquacult. Int.* 11(5): 491-504.
133. **Pratoomchat, B.**, Sawangwong, P., **Machado, J.** (2003). Effects of controlled pH on organic and inorganic composition in haemolymph, epidermal tissue and cuticle of mud crab *Scylla serrata*. *J. Exp. Zool.*, 295A (1): 47-56
134. **Rocha, M.J.**, **Rocha, E.**, **Resende, A.D.** and **Lobo-da-Cunha, A.** (2003). Measurement of peroxisomal enzyme activities in the liver of brown trout (*Salmo trutta*), using spectrophotometric methods. *BMC Biochemistry*, 4: 2 (1-9).
135. **Rodrigues, M.J.**, Ho, P., López-Caballero, M.E., **Vaz-Pires, P.** and Nunes, M.L. (2003). Characterization and identification of microflora from soaked cod and respective salted raw materials. *Food Microbiol.*, 20(4): 471-481.
136. **Rodrigues, P.M.**, Macedo, A.L., Moura, I. and Moura, J.G. (2003). Characterization of a new 8Fe protein isolated from *Desulfovibrio desulfuricans* ATCC 27774. *J. Inorg. Biochem.*, 96(1): 220-220.
137. **Rodrigues, P.M.**, Moura, I., Anjos Macedo, L. and Moura, J.J.G. (2003). Spectroscopic characterization of a novel 2x[4Fe-4S] ferredoxin isolated from *Desulfovibrio desulfuricans* ATCC 27774. *Inorg. Chim. Acta.*, 356: 215-221.
138. **Ronnestad, I.**, Tonheim, S.K., Fyhn, H.J., Rojas-Garcia, C.R., Kamisaka, Y., Koven, W., Finn, R. N., Terjesen, B.F., Barr, Y. and **Conceição, L.E.C.** (2003). The supply of amino acids during early feeding stages of marine fish larvae: a review of recent findings. *Aquaculture*, 227(1-4): 147-164.
139. Ros, A.F.H., **Canário, A.V.M.**, **Couto, E.**, Zeilstra, I. and Oliveira, R. F. (2003). Endocrine correlates of intra-specific variation in the mating system of the St. Peter's fish (*Sarotherodon galilaeus*). *Horm. Behav.*, 44(4): 365-373.
140. **Rotllant, J.**, Montero, D., Caballero, M.J., Robaina, L., Izquierdo, M.S. and Tort, L. (2003). Differences in interrenal tissue, biosynthetic capacity and ACTH sensitivity in progeny of sea bream from parents selected for high or low cortisol response. *J. Fish Biol.*, 62(3): 744-748.
141. **Rotllant, J.**, **Ruane, N.M.**, Caballero, M.J., Montero, D. and Tort, L. (2003). Response to confinement in sea bass (*Dicentrarchus labrax*) is characterised by an increased biosynthetic capacity of interrenal tissue with no effect on ACTH sensitivity. *Comp. Biochem. Phys. A*, 136(3): 613-620.
142. **Rotllant, J.**, Tort, L., Montero, D., Pavlidis, M., Martinez, M., Bonga, S. E. W. and Balm, P. H. M. (2003). Background colour influence on the stress response in cultured red porgy *Pagrus pagrus*. *Aquaculture*, 223(1-4): 129-139.
143. **Rotllant, J.**, Worthington, G.P., **Fuentes, J.**, **Guerreiro, P.M.**, Teitsma, C.A., Ingleton, P.M., Balmant, R.J., **Canário, A.V.M.** and **Power, D.M.** (2003). Determination of tissue and plasma concentrations of PTHrP in fish: development and validation of a radioimmunoassay using a teleost 1-34 N-terminal peptide. *Gen. Comp. Endocr.*, 133(1): 146-153.
144. **Ruane, N.M.** and Komen, H. (2003). Measuring cortisol in the water as an indicator of stress caused by increased loading density in common carp (*Cyprinus carpio*). *Aquaculture*, 218(1-4): 685-693.
145. **Saker, M.L.**, **Nogueira, I.R.**, **Vasconcelos, V.M.**, Neilan, B.A., Eaglesham, G. K. and Pereira, P. (2003). First report and toxicological assessment of the cyanobacterium *Cylindrospermopsis raciborskii* from Portuguese freshwaters. *Ecotox. Environ. Safe.*, 55(2): 243-250.
146. Santos, C.R.A., Cavaco, J.E.B., Ingleton, P.M. and **Power, D.M.** (2003). Developmental ontogeny of prolactin and prolactin receptor in the sea bream (*Sparus aurata*). *Gen. Comp. Endocr.*, 132(2): 304-314.
147. Schönfeld, J., Zahn, R. and **Abreu, L.** (2003). Surface and deep water response to rapid climate changes at the Western Iberian Margin. *Global and Planetary Change*, 36: 237-264.
148. **Schuenhoff, A.**, Shpigel, M., Lupatsch, I., Ashkenazi, A., Msuya, F.E. and Neori, A. (2003). A semi-recirculating, integrated system for the culture of fish and seaweed. *Aquaculture*, 221(1-4): 167-181.
149. **Schuenhoff, A.**, Shpigel, M., Lupatsch, I., Ashkenazi, A., Msuya, F.E. and Neori, A. (2003). Fish/Seaweed Culture – System improves water quality, sustainability. *Global Aquaculture Advocate*, 6(1): 55-56.
150. Sidoux-Walter, F., **Laize, V.**, Pettersson, N. and Hohmann, S. (2003). Characterisation of the *Saccharomyces aquaporins*. *Yeast*, 20 Suppl. 1: S245-S245.
151. Silva, G.V., **Vasconcelos, M.T.S.D.**, Santos, A.M. and Fernandes, E.O. (2003). Comparison of the substrate effect on VOC emissions from water based varnish and latex paint. *Environ. Sci. Pollut. R.*, 10(4): 209-216.
152. Silva, J. and **Santos, R.** (2003). Daily variation patterns in seagrass photosynthesis along a vertical gradient. *Mar. Ecol-Prog. Ser.*, 257: 37-44.

153. Silva, M.E.R. and **Eiras, J.C.**, (2003). Occurrence of *Anisakis* sp. in fishes off the Portuguese West Coast and evaluation of its zoonotic potential. *Bull. Eur. Ass. Fish Pathol.*, 23(1): 13-17.
154. **Silva, P.A.S.** and **Cruzeiro-Hansson, L.** (2003). A reduced set of exact equations of motion for a non-number-conserving Hamiltonian. *Phys. Lett. A*, 315(6): 447-451.
155. **Simes, D.C.**, Bebianno, M.J. and Moura, J.J. (2003). Isolation and characterisation of metallothionein from the clam *Ruditapes decussatus*. *Aquat. Toxicol.*, 63(3): 307-18.
156. **Simes, D.C.**, Williamson, M.K., **Ortiz-Delgado, J.B.**, Viegas, C.S.B., Price, P.A. and **Cancela, M.L.** (2003). Purification of matrix Gla protein from a marine teleost fish, *Argyrosomus regius*: Calcified cartilage and not bone as the primary site of MGP accumulation in fish. *J. Bone Miner. Res.*, 18(2): 244-259.
157. Skorik, Yu A., Gomes, C.A.R. **Vasconcelos, M.T.S.D.** and Yatluk, Yu.G (2003). N-(2-carboxyethyl) chitosans: regioselective synthesis, characterisation and protolytic equilibria. *Carbohydr. Res.*, 338(3): 271-276.
158. **Soares, S.S.**, Aureliano, M., **Joaquim, N.** and **Coucelo, J.M.** (2003). Cadmium and vanadate oligomers effects on methaemoglobin reductase activity from Lusitanian toadfish: in vivo and in vitro studies. *J. Inorg. Biochem.*, 94(3): 285-290.
159. Summavielle, T. Monteiro, P.R.R., **Reis-Henriques, M.A.** and **Coimbra, J.** (2003). *In vitro* metabolism of steroid hormones by ovary and hepatopancreas of the crustacean Penaeid shrimp *Marsipenaeus japonicus*. *Sci. Mar.*, 67(3): 299-306.
160. Teixeira, S., **Arnaud-Haond, S.**, Duarte, C.M. and **Serrão, E.** (2003). Polymorphic microsatellite DNA markers in the mangrove tree *Avicennia alba*. *Mol. Ecol. Notes*, 3(4): 544-546.
161. **Uthaiwan K.**, Pakkong P., Noparatnaraporn N., Vilarinho, L. and **Machado, J.** (2003). Studies on the plasma composition of fish hosts of the freshwater mussel, *Hyriopsis myersiana*, with implications for improvement of the medium for culture of glochidia. *Invertebr. Reprod. Dev.*, 44(1): 53-61.
162. **Valente, L.M.P.**, Le Bail, P.Y., **Gomes, E.F.S.** and Fauconneau, B. (2003). Hormone profile in fast and slow growing strains of rainbow trout, *Oncorhynchus mykiss* in response to nutritional state. *Aquaculture*, 219(1-4): 829-839.
163. Varó, I., Navarro, J.C., Amat, F. and **Guilhermino, L.** (2003). Effect of dichlorvos on cholinesterase activity of the European sea bass (*Dicentrarchus labrax*). *Pestic. Biochem. Phys.*, 75(3): 61-72.
164. Vita, P., Corral, L., Matos, E. and **Azevedo, C.** (2003). Ultrastructural aspects of the myxosporean *Henneguya astyanax* n. sp. (Myxozoa Myxobolidae), a parasite of the Amazonian teleost, *Astyanax keithi* (Characidae). *Dis. Aquat. Organ.*, 53(1): 55-60.
165. **Wirtz, P.** (2003). New records of marine invertebrates from São Tomé Island (Gulf of Guinea). *J. Mar. Biol. Assoc. UK*, 83: 735-736.
166. **Wirtz, P.**, Ocaña, O. and Molodtsova, T. (2003). Actiniaria and Ceriantharia (Cnidaria Anthozoa) from the Azores. *Helgoland Marine Research*, 57: 114-117.