

6

Referências Bibliográficas

6. REFERÊNCIAS BIBLIOGRÁFICAS

- Abrahamson, A., Andersson, C., Jönsson, M.E., Fogelberg, O., Örberg, J., Brunström, B., Brandt, I., 2007. Gill EROD in monitoring of CYP1A inducers in fish - A study in rainbow trout (*Oncorhynchus mykiss*) caged in Stockholm and Uppsala waters. Aquatic Toxicology 85, 1–8.
- Andersson, T., Forlin, L., 1992. Regulation of the cytochrome fish enzyme system in fish. Aquatic Toxicology 24, 1-20.
- Anyakora, C., Ogbeche, A. Palmer, P., Coker, H., 2005. Determination of polynuclear aromatic hydrocarbons in marine samples of Siokolo Fishing Settlement. Journal of Chromatography A 1073, 323-330.
- Arellano, J.M., 1995. *Contribución a la histología, histoquímica y histopatología de la dorada, Sparus aurata L.*. Tesis de Licenciatura em Biología Animal, Departamento de Biología Animal, Vegetal y Ecología. Facultad de Ciencias del Mar, Universidad de Cádiz, Cádiz.
- Arellano, J. M., Storch, V., Sarasquete, C., 1999. Histological changes and copper accumulation in liver and gills of the senegales sole, *Solea senegalensis*. Ecotoxicology and Environmental Safety 44, 62-72.
- Arellano, J.M., Ortiz, J.B., González de Canales, M.L., Sarasquete, C., 2001. Histopathological alterations and induction of cytochrome P-450 1A in the liver and gills of the gilthead seabream (*Sparus aurata*) exposed to 2,3,7,8-tetrachlorodibenzo-p-dioxin. The Histochemical Journal 33, 663–674.
- Arufe, M.I., Arellano, J., Moreno, M.J., Sarasquete, C., 2004. Toxicity of a commercial herbicide containing terbutryn and triasulfuron to seabream (*Sparus aurata* L.) larvae: a comparison with the Microtox test. Ecotoxicology and Environmental Safety 59, 209–216.
- Au, D.W.T., 2004. The application of histo-cytopathological biomarkers in marine pollution monitoring: a review. Marine Pollution Bulletin 48, 817–834.
- Benli, A.Ç.K., Köksal, G., Özkul, A., 2008. Sublethal ammonia exposure of Nile tilapia (*Oreochromis niloticus* L.): Effects on gill, liver and kidney histology. Chemosphere 2008.04.037, 1-4.
- Bhattacharya, H., Xiao, Q., Lun, L., 2008. Toxicity studies of nonylphenol on rosy barb (*Puntius conchonious*): A biochemical and histopathological evaluation. Tissue and Cell 2007.12.004, 1-7.
- Blom, S., Förlin, L., 1997. Effects of PCB on xenobiotic biotransformation enzyme activities in the liver and 21-hydroxylation in the head kidney of juvenile rainbow trout. Aquatic Toxicology 39, 215-230.
- Buhler, D.R, Williams, D.E., 1988. The role of biotransformation in the toxicity of chemicals. Aquatic Toxicology 11, 19-28.

- Burkhardt-Holm, P., 1997. Lectin histochemistry of rainbow trout (*Oncorhynchus mykiss*) gill and skin. *Histochemical Journal* 29, 893-899.
- Cengiz, E.I., 2006. Gill and kidney histopathology in the freshwater fish *Cyprinus carpio* after acute exposure to deltamethrin. *Environmental Toxicology and Pharmacology* 22, 200–204.
- Dutta, H.M., Munshi, J.S.D., Roy, P.K., Singh, N.K., Adhikari, S., Killius, J., 1996. Ultrastructural changes in the respiratory lamellae of the catfish, *Heteropneustes fossilis*. *Environmental Pollution* 92 (3), 329-341.
- Dutta, H.M., Munshi, J.S.D., Roy, P.K., Singh, N.K., Motz, L., Adhikari, S., 1997. Effects of Diazinon on bluegill sunfish, *Lepomis macrochirus*, gills: scanning electron microscope observations. *Experimental Biology Online* 2 (17), 1-10.
- Evans, D.H., 1987. The fish gill: Site of action and model for toxic effects of environmental pollutants. *Environmental Health Perspectives* 71, 47-58.
- Gisbert, E., Sarasquete, M.C., Williot, P., Castélló-Orvay, F., 1999. Histochemistry of the development of the digestive system of Siberian sturgeon during early ontogeny. *Journal of Fish Biology* 55, 596–616.
- Goksoyr, A., Förlin, L., 1992. The cytochrome P-450 system in fish, aquatic toxicology and environmental monitoring. *Aquatic Toxicology* 22, 287-312.
- González de Canales, M.L., Gutiérrez, M., Segner, H., Sarasquete, C., 1997. Histología, histoquímica y alteraciones patológicas en el desarrollo larvario de dorada, *Sparus aurata*, L. Y lenguado, *Solea senegalensis*, K.. Em: Muñoz Cueto, J.A., González de Canales, M.L., Mancera, J.M., Piñuela, C., Sarasquete, C. (Eds.). *Estado actual y perspectivas en Acuicultura: Histofisiología, histopatología y biotoxicología*. Servicio de Publicaciones de la Universidad de Cádiz. Puerto Real, Cádiz. 282p.
- Gravato, C., Santos, M.A., 2001. Juvenile sea bass liver P450, EROD induction, and erythrocytic genotoxic responses to PAH and PAH-like compounds. *Ecotoxicology and Environmental Safety* 51, 115-127.
- Grinwis, G.C.M., Besselink, H.T., van den Brandhof, E.J., Bulder, A.S., Engelsma, M.Y., Kuiper, R.V., Wester, P.W., Vaal, M.A., Vethaak, A.D., Vos, J.G., 2000. Toxicity of TCDD in European flounder (*Platichthys flesus*) with emphasis on histopathology and cytochrome P450 1A induction in several organ systems. *Aquatic Toxicology* 50, 387–401.
- Gutiérrez, M., 1967. Coloración histológica para ovarios de peces, crustáceos y moluscos. *Inv. Pesq.* 31(2), 265-271.
- Gutiérrez, M., Sarasquete, M.C., González de Canales, M.L., 1986. Distribución histoquímica de carbohidratos y proteínas en estómago y intestino de *Anguilla anguilla* L., 1758 (Osteichthyes, Anguillidae) de las salinas de Cádiz. *Inv. Pesq.* 50(4), 553-564.

- Henry, T.R., Spitsbergen, J.M., Hornung, M.W., Abnet, C.C., Peterson, R.E., 1997. Early life stage toxicity of 2,3,7,8-tetrachlorodibenzo-*p*-dioxin in zebrafish (*Danio rerio*). *Toxicology and Applied Pharmacology* 142, 56-68.
- Hibiya, T., 1982. *An atlas of fish histology. Normal and pathological features.* Kodansha Ltd., Tokyo. 147p.
- Husoy, A., Myers, M.S., Goksoyr, A., 1996. Cellular localization of cytochrome P450 (CYP1A) induction and histology in Atlantic cod (*Gadus morhua* L.) and European flounder (*Platichthys flesus*) after environmental exposure to contaminants by caging in Sorfjorden, Norway. *Aquatic Toxicology* 36, 53-74.
- Jönsson, E.M., Abrahamson, A., Brunström, B., Brandt, I., 2006. Cytochrome P4501A induction in rainbow trout gills and liver following exposure to waterborne indigo, benzo[*a*]pyrene and 3,3',4,4',5-pentachlorobiphenyl. *Aquatic Toxicology* 79, 226-232.
- Kiernan, J.A., 1990. *Histological and histochemical methods. Theory and practice.* 2^a Edition, Pergamon Press, Oxford. 431p.
- Lech, J.J., Bend, J.R., 1980. Relationship between biotransformation and the toxicity and fate of xenobiotic chemicals in fish. *Environmental Health Perspectives* 34, 115-131.
- Leguen, I., Carlsson, C., Perdu-Durand, E., Prunet, P., Pärt, P., Cravedi, J.P., 2000. Xenobiotic and steroid biotransformation activities in rainbow trout gill epithelial cells in culture. *Aquatic Toxicology* 48, 165-176.
- Livingstone, D.R., 1998. The fate of organic xenobiotics in aquatic ecosystems: quantitative and qualitative differences in biotransformation by invertebrates and fish. *Comparative Biochemistry and Physiology Part A* 120, 43-49.
- Malmström, C.M., Koponen, K., Lindström-Seppä , P., Bylund, G., 2004. Induction and localization of hepatic CYP4501A in flounder and rainbow trout exposed to benzo[*a*]pyrene. *Ecotoxicology and Environmental Safety* 58, 365-372.
- Mortensen, A.S., Arukwe, A., 2007. Effects of 17 α -ethynodiol on hormonal responses and xenobiotic biotransformation system of Atlantic salmon (*Salmo salar*). *Aquatic Toxicology* 85, 113-123.
- Ortiz-Delgado, J.B., 2001. Tesis Doctoral, Departamento de Biología. Facultad de Ciencias del Mar y Ambientales, Universidad de Cádiz, Cádiz.
- Ortiz-Delgado, J.B., Sarasquete, C., Behrens, A., González de Canales, M.L., Segner, H., 2002. Expression, cellular distribution and induction of cytochrome P4501A (CYP1A) in gilthead seabream, *Sparus aurata*, brain. *Aquatic Toxicology* 60, 269-283.
- Ortiz-Delgado, J.M., Darias, M., Yúfera, M., Sarasquete, C., 2003. Organogenesis of the sargo, *Diplodus sargo*. Histological and Histochemical Approaches. *Histology and Histopathology* 18, 1141-1154.

- Ortiz-Delgado, J.B., Sarasquete, C., 2004. Toxicity, histopathological alterations and immunohistochemical CYP1A induction in the early life stages of the seabream, *Sparus aurata*, following waterborne exposure to B(a)P and TCDD. Journal of Molecular Histology 35, 29–45.
- Ortiz-Delgado, J.B., Segner, H., Sarasquete, C., 2005. Cellular distribution and induction of CYP1A following exposure of gilthead seabream, *Sparus aurata*, to waterborne and dietary benzo(a)pyrene and 2,3,7,8-tetrachlorodibenzo-p-dioxin: An immunohistochemical approach. Aquatic Toxicology 75, 144–161.
- Ortiz-Delgado, J.B., Segner, H., Arellano, J.M., Sarasquete, C., 2007. Histopathological alterations, EROD activity, CYP1A protein and biliary metabolites in gilthead seabream *Sparus aurata* exposed to Benzo(a)pyrene. Histology and Histopathology 22, 417–432.
- Ortiz-Delgado, J.B., Behrens, A., Segner, H., Sarasquete, C., 2008. Tissue-specific induction of EROD activity and CYP1A protein in *Sparus aurata* exposed to B(a)P and TCDD. Ecotoxicology and Environmental Safety 2006.12.021, 1-9.
- Pearse, A.G.E., 1985. *Histochemistry – Theoretical and applied*. Volume II (Analytical Technology). 4^a Edition, Churchill Livingstone, Great Britain. 1055p.
- Ribeiro, L., Sarasquete, C., Dinis, M.T., 1999. Histological and histochemical development of the digestive system of *Solea senegalensis* (Kaup, 1858) larvae. Aquaculture 171, 293–308.
- Sarasquete, M.C., Polo, A., Yúfera, M., 1995. Histology and histochemistry of the development of the digestive system of larval gilthead seabream, *Sparus aurata* L.. Aquaculture 130, 79-92.
- Sarasquete, C., Segner, H., 2000. Cytochrome P4501A (CYP1A in teleostean fishes. A review of immunohistochemical studies. The Science of the Total Environmental 247, 313-332.
- Sarasquete, C., Ortiz-Delgado, J.B., Gisbert, E., 2001. Immunohistochemical distribution of cytochrome P4501A in larvae and fingerlings of the Siberian sturgeon, *Acipenser baeri*. The Histochemical Journal 33, 101–110.
- Segner, H., González de Canales, M.L., Sarasquete, C., 1997. Histología, histoquímica y alteraciones patológicas en el desarrollo larvario de dorada, *Sparus aurata*, L. Y lenguado, *Solea senegalensis*, K.. Em: Muñoz Cueto, J.A., González de Canales, M.L., Mancera, J.M., Piñuela, C., Sarasquete, C. (Eds.). *Estado actual y perspectivas en Acuicultura: Histofisiología, histopatología y biotoxicología*. Servicio de Publicaciones de la Universidad de Cádiz. Puerto Real, Cádiz. 282p.
- Takashima, F., Hibiya, T., 1995. *An atlas of fish histology. Normal and pathological features*. 2^a Edition, Kodansha Ltd., Tokyo. 213p.
- Teles, M., Pacheco, M., Santos, M.A., 2003. *Anguilla anguilla* L. liver ethoxyresorufin O-deethylation, glutathione S-tranferase, erythrocytic nuclear abnormalities, and

- endocrine responses to naphthalene and β -naphthoflavone. Ecotoxicology and Environmental Safety 55, 98–107.
- Tintos, A., Gesto, M., Míguez, J.M., Soengas, J.L., 2007. Naphthalene treatment alters liver intermediary metabolism and levels of steroid hormones in plasma of rainbow trout (*Oncorhynchus mykiss*). Ecotoxicology and Environmental Safety 66, 139–147.