

Short CV | Eduardo Jorge Sousa da Rocha

Current Position and Institutional Addresses: Full Professor at Institute of Biomedical Sciences Abel Salazar, Univ. Porto, Director of Dept of Microscopy and of Lab Histology and Embryology. PI of PATH - Histomorphology, Physiopathology and Applied Toxicology Group, of Research Center CIIMAR – U.Porto.

Nationality: Portuguese. **Place of birth:** Luanda, Angola. **Year of birth:** 1967.

Qualifications and honors (at University of Porto): Aggregation/Habilitation (highest Portuguese scientific exam/title) in Biomedical Sciences, Histology and Embryology. Doctoral Degree in Biomedical Sciences. Licenciado (4 year-long baseline university degree) in Aquatic Sciences (Best Student Award - Grade 18/20). Basic Medical Sciences education (3 yrs of study of Medicine, Grade 17/20). Highest admission score entering undergraduate courses at ICBAS (1986).

Teaching topics: Histology and Embryology (Human and Comparative); Toxicology (Exposure and Fate of Xenobiotics in the Organism); Cell and Molecular Biology Techniques; Scientific Method and Science Communication; Aquatic Animals Health and Pathology (General Pathology and Toxicopathology).

Management experience: For 25 yrs he continuously served in managing bodies of U.Porto, at central and at faculty level - ICBAS (currently member of the Scientific and Pedagogic Councils, Director of MSc Program in Aquatic Sciences – Marine Resources and Director of PhD in Biomedical Sciences, International Mobility Coordinator, Director of Dept and of Lab), and at CIIMAR research center (served for 6 years the Directive Board, and has been a Res. Group PI).

Knowledge transfer: He founded and oversees services that translate scientific knowledge into society and create value. The CITOServ is a Lab service of ICBAS – U.Porto that runs daily from 2003, offering diagnostics in veterinary cytopathology, mainly in support to the Veterinary Clinic of the U.Porto (UPVet). The HISTOServ is an on-demand service devoted to routine/special histological processing, image recording and analysis, including whole slide scanning.

R&D Projects & supervision of post-graduate students & post-docs: Supervised/co-supervised (finished) 21 MSc dissertations and 13 PhD theses. Was/is the formal mentor 8 post-docs fellows. Was/is PI and team member of 16 funded projects, from national (FCT, ON.2, other) and European funding bodies.

Current research interests: Comparative histology and cyto/histopathology in the connection with evolutionary contexts and toxicopathology, viz. (but not restrict to) gonads, liver, blood and immune system. Endocrine disruption in experimental and environmental monitoring, particularly in aquatic systems. Study of mechanisms of ER and PPAR ligands in liver peroxisomes and related functions. Experimental carcinogenesis and anticancer bioactive marine compounds.

Organisms covered in his studies: invertebrates (crustaceans, bivalves); teleost fish (marine, freshwater); rodents (rat); humans (medical related studies).

Selection of Scientific Outputs – Chapters in books

- 1 – Rocha E, Monteiro RAF (1999) Histology and Cytology of Fish Liver: A Review. In: Ichthyology: Recent Research Advances. D.N. Saksena (editor). Oxford & IBH Publishing Co. Pvt. Ltd., New Delhi, India, and Science Publishers, Inc., Enfield, New Hampshire, USA, pages 321-344.
- 2 – Rocha E, Rocha MJ, Monteiro RAF (2003) Seasonal Changes in Fish Hepatocytes and Correlations with the Endocrine System. In: Fish Adaptations. B.G. Kapoor and A.L. Val (editors). Science Publishers, Inc., Enfield, New Hampshire, USA, and Plymbridge Distributors Ltd., Plymouth, UK, pages 383-403.
- 3 – Rocha MJ, Rocha E (2006) Morphofunctional Aspects of Reproduction from Synchronous to Asynchronous fishes – An Overview. In: Fish Endocrinology. M. Reinecke, G. Zaccone G and B.G. Kapoor (Editors). Science Publishers Inc., Enfield, New Hampshire, USA, pages 571-624.
- 4 – Urbatzka R, Rocha MJ, Rocha E (2011) Regulation of Ovarian Development and Function in Teleosts. In: Hormones and Reproduction in Vertebrates – Volume 1 Fishes. David O. Norris and Kristin H. Lopez (Editors). Academic Press, pages 65-82.
- 5 – Rocha MJ, Rocha E (2015). Estrogenic compounds in estuarine and coastal water environments in Iberian western Atlantic coast and in Europe in general. Chapter 7. In: Toxicology. Andreaza AC, Scola G (Editors). InTech, Rijeka, Croatia, pages 153-193. ISBN 978-953-51-4185-3. DOI: 10.5772/59885.
- 6 – Cruzeiro C, Rocha E, Rocha MJ (2017) Pesticides in worldwide aquatic systems: multi-matrix analysis and potential risks. Chapter X. In: Estuary. William Froneman (Editor). ISBN 978-953-51-5470-9.

Selection of Scientific Outputs – Full-length papers in peer-review journals

- 7 – Rocha E, Azevedo C (1990) Ultrastructural study of the spermatogenesis of *Anodonta cygnea* L. (Bivalvia, Unionidae). *Invertebrate Reproduction and Development*, **18**: 169-176.
- 8 – Rocha E, Matos E, Azevedo C (1992) *Henneguya amazonica* n. sp. (Myxozoa, Myxobolidae), parasitizing the gills of *Crenicichla lepidota* Heckel, 1840 (Teleostei, Cichlidae) from Amazon river. *European Journal of Protistology*, **28**: 273-278.
- 9 – Rocha E, Monteiro RAF (1992) Ultrastructural qualitative and quantitative data on the sporogenesis of the protozoan *Abelspora portucalensis* (Microspora, Abelsporidae): a different approach to the study of microsporidia. *Journal of Morphology*, **213**: 295-303.
- 10 – Monteiro RAF, Rocha E (1992) Are Ranvier's nodes of the central nervous system also artifacts by preparation? *Acta Anatomica*, **145**: 179-180.
- 11 – Monteiro RAF, Rocha E, Marini-Abreu MM (1992) Age-related morphometric changes occurring in the somata of astrocytes of the granular layer of rat neocerebellar cortex. (*Crus I* and *Crus II*). *Histology and Histopathology*, **7**: 427-444.
- 12 – Monteiro RAF, Rocha E, Marini-Abreu MM (1992) Age-related quantitative changes in inhibitory axo-somatic synapses on Purkinje cells of rat neocerebellum (*Crus I* and *Crus II*). *Journal of Submicroscopic Cytology and Pathology*, **24**: 351-357
- 13 – Monteiro RAF, Rocha E, Marini-Abreu MM (1992) Quantitative age-related changes on nuclear invaginations of neocerebellar Purkinje cells. *Neuroreport*, **3**: 1089-1092.
- 14 – Monteiro RAF, Rocha E, Marini-Abreu MM (1994) Heterogeneity and death of Purkinje cells of rat neocerebellum (*Crus I* and *Crus II*): hypothetic mechanisms based on qualitative and quantitative microscopical data. *Journal fur Hirnforschung (Journal of Brain Research)*, **35**: 205-222.
- 15 – Rocha E, Monteiro RAF, Pereira CA (1994) The liver of the brown trout, *Salmo trutta fario*: a light and electron microscope study. *Journal of Anatomy*, **185**: 241-249.
- 16 – Rocha E, Monteiro RAF, Pereira CA (1994) Presence of rodlet cells in the intra-hepatic biliary channels of the brown trout, *Salmo trutta fario* Linnaeus, 1758 (Teleostei, Salmonidae). *Canadian Journal of Zoology*, **72**: 1683-1687.
- 17 – Rocha E, Monteiro RAF, Pereira CA (1995) Microanatomical organization of the hepatic stroma of the brown trout, *Salmo trutta fario* (Teleostei, Salmonidae): a qualitative and quantitative approach. *Journal of Morphology*, **223**: 1-11.
- 18 – Monteiro RAF, Conceição LEC, Rocha E, Marini-Abreu MM (1995) Age changes in cerebellar oligodendrocytes: appearance of nuclear filaments, and increase in the volume density of the nucleus and in the number of dark cell forms. *Archives of Histology and Cytology*, **58**: 417-425.
- 19 – Monteiro RAF, Rocha E, Marini-Abreu MM (1996) Do microglia arise from pericytes? An ultrastructural and distribution study in the rat cerebellar cortex. *Journal of Submicroscopic Cytology and Pathology*, **28**: 457-469.
- 20 – Rocha E, Monteiro RAF, Pereira CA (1996) The pale-grey interhepatocytic cells of brown trout (*Salmo trutta*) are a subpopulation of macrophages or do they establish a different cellular type? *Journal of Submicroscopic Cytology and Pathology*, **28**: 357-368.
- 21 – Rocha E, Monteiro RAF, Pereira CA (1997) The liver of the brown trout, *Salmo trutta* (Teleostei, Salmonidae): a stereological study at light and electron microscopic levels. *The Anatomical Record*, **247**: 317-328.
- 22 – Henrique RMF, Monteiro RAF, Rocha E, Marini-Abreu MM (1997) A stereological study on the nuclear volume of cerebellar granule cells in ageing rats. *Neurobiol. Aging*, **18**: 199-203.
- 23 – Barros A, Sousa M, Silva J, Almeida V, Rocha E (1997) Aging, hyaluronidase removal of the cumulus, and microinjection do not affect the sperm binding potential of human oocytes.

- 24 – Monteiro RAF, Henrique RMF, **Rocha E**, Marini-Abreu MM, Oliveira MH, Silva MW (1998) Age-related changes in the volume of somata and organelles of cerebellar granule cells. *Neurobiology of Aging*, **19**: 325-332.
- 25 – **Rocha E**, Lobo-da-Cunha A, Monteiro RAF, Silva MW, Oliveira MH (1999) A stereological study along the year on the hepatocytic peroxisomes of brown trout (*Salmo trutta*). *Journal of Submicroscopic Cytology and Pathology*, **31**: 91-105.
- 26 – Valente MP, **Rocha E**, Gomes EFS, Silva MW, Oliveira MH, Monteiro RAF, Fauconneau B (1999) Growth dynamics of white and red muscle fibres in fast and slow growing strains of rainbow trout (*Oncorhynchus mykiss*). *Journal of Fish Biology*, **55**: 675-691.
- 27 – Monteiro RAF, Henrique RMF, **Rocha E**, Silva MW, Oliveira MH (2000) Quantitative age-related changes in endoplasmic reticulum and nucleus of cerebellar granule cells. *Neurobiology of Aging*, **21**: 97-105.
- 28 – **Rocha E**, Monteiro RAF, Silva MW, Oliveira MH (2001) The hepatocytes of the brown trout (*Salmo trutta fario*): A quantitative study using design-based stereology. *Histology and Histopathology*, **16**: 423-437.
- 29 – Marcos R, **Rocha E**, Monteiro RAF (2001) Strategies to maximize adhesion of thick paraffin sections of the brown trout liver, for stereological purposes. *J. Histotechnology*, **24**: 37-44.
- 30 – Henrique RMF, **Rocha E**, Reis A, Marcos R, Oliveira MH, Silva MW, Monteiro RAF (2001) Age-related changes in rat cerebellar basket cells: A quantitative study using unbiased stereological tools. *Journal of Anatomy*, **198**: 727-736.
- 31 – Calado AM, **Rocha E**, Colaço A, Sousa M (2001) Stereological characterization of bovine (*Bos taurus*) cumulus-oocyte complexes aspirated from small antral follicles during the diestrous phase. *Biology of Reproduction*, **65**: 1383-1391.
- 32 – Marcos R, **Rocha E**, Monteiro RAF (2002) Stereological estimation of Ito cells from rat liver using the optical fractionator – A preliminary report. *Image Analysis & Stereology*, **21**: 1-6.
- 33 – Resende AD, **Rocha E**, Monteiro RAF, Rodrigues P (2002) The inter-hepatocytic macrophages and pale-grey cells in brown trout liver ontogenesis. *J. of Fish Biology*, **60**: 1381-1390.
- 34 – Rocha MJ, **Rocha E**, Resende AD, 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.
- 35 – Calado AM, **Rocha E**, Colaço A, Sousa M (2003) Stereological characterization of bovine (*Bos taurus*) cumulus-oocyte complexes aspirated from medium antral follicles during the diestrous phase. *Theriogenology*, **60**: 429-443.
- 36 – Marcos R, **Rocha E**, Henrique RMF, Monteiro RAF (2003) A new approach to an unbiased estimate of the hepatic stellate cell index in the rat liver – An example in healthy conditions. *The Journal of Histochemistry and Cytochemistry* **51**: 1101-1104.
- 37 – Calado AM, **Rocha E**, Colaço A, Sousa M (2003) Stereological study of medium antral follicles during the bovine estrous cycle. *Tissue & Cell*, **35**: 313-323.
- 38 – Marcos R, Monteiro RAF, **Rocha E** (2004) Estimation of the number of stellate cells in a liver with the smooth fractionator. *Journal of Microscopy*, **215**: 174-182.
- 39 – Figueiredo-Silva A, **Rocha E**, Dias J, Silva P, Rema P, Gomes E, Valente LMP (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.
- 40 – 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*). *Trends in Comparative Endocrinology and Neurobiology – Annals of the New York Academy of Sciences*, **1040**: 1-4.
- 41 – 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.
- 42 – Calado AM, **Rocha E**, Colaço A, Sousa M (2005) Comparative stereological study of cumulus-oocyte complexes aspirated from follicles during the estrous cycle in bovine. *Arquivo Brasileiro de Medicina Veterinária e Zootecnia (Brazilian Journal of Veterinary and Animal Science)*, **57**: 465-475.
- 43 – 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 (BBA) - Gene Structure and Expression*, **1731**: 88-94.
- 44 – Marcos R, Monteiro RAF, **Rocha E** (2006) Design-based estimation of hepatocyte number, by combining the smooth fractionator and immunocytochemistry with polyclonal antibodies for carcinoembryonic antigen. *Liver International*, **26**: 116-124.
- 45 – Figueiredo-Fernandes AM, Fontainhas-Fernandes A, Monteiro RAF, Reis-Henriques MA, **Rocha E** (2006) 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.
- 46 – Figueiredo-Fernandes A, Fontainhas-Fernandes A, Monteiro, RAF, Reis-Henriques, MA, **Rocha E** (2006) Effects of the fungicide mancozeb in the liver structure of Nile Tilapia, *Oreochromis niloticus* – Assessment and quantification of induced cytological changes using qualitative histopathology and the stereological point-sampled intercept method. *Bulletin of Environmental Contamination and Toxicology*, **76**: 249–255.
- 47 – Marcos R, Santos M, Marrinhas C, **Rocha E** (2006) Cutaneous transmissible venereal tumor without genital involvement in a pre-pubertal female dog. *Vet Clin Pathology*, **35**: 106-109.
- 48 – Marcos R, Santos M, Oliveira J, **Rocha E** (2006) Cytochemical detection of calcium in a case of *calcinosis circumscripta* in a dog. *Veterinary Clinical Pathology*, **35**: 239-242.
- 49 – Figueiredo-Fernandes A, Fontainhas-Fernandes A, Peixoto F, **Rocha E**, Reis-Henriques MA (2006) Effect of paraquat on oxidative stress enzymes in tilapia *Oreochromis niloticus* at two levels of temperature. *Pesticide Biochemistry and Physiology*, **85**: 97-103.
- 50 – Figueiredo-Fernandes A, Fontainhas-Fernandes A, **Rocha E**, Reis-Henriques MA (2006) The effect of paraquat on hepatic EROD activity, liver, and gonadal histology in males and females of Nile tilapia *Oreochromis niloticus*, exposed at different temperatures. *Archives of Environmental Contamination and Toxicology* **51**: 626-632.
- 51 – Chatchavalvanich K, Marcos R, Poonpirom J, Thongpan A, **Rocha E** (2006) Histology of the digestive tract of the freshwater siltgray *Himantura signifier* Compagno and Roberts, 1982 (Elasmobranchii, Dasyatidae). *Anatomy and Embryology* **211**: 507-58.
- 52 – Silva P, Andrade CAP, Timóteo VMFA, **Rocha E**, Valente LMP (2006) Dietary protein, growth, nutrient utilization and body composition of juvenile blackspot seabream, *Pagellus bogaraveo* (Brunnich). *Aquaculture Research* **38**: 1007-1014.
- 53 – Figueiredo-Fernandes A, Fontainhas-Fernandes A, Monteiro, RAF, Reis-Henriques MA, **Rocha E** (2007) Spatial relationships of the intrahepatic vascular-biliary tracts and associated pancreatic acini of Nile tilapia, *Oreochromis niloticus* (Teleostei, Cichlidae): A serial sectioning analysis study by light microscopy. *Annals of Anatomy* **189**: 17-30.
- 54 – Jordanova M, Miteva N, **Rocha E** (2007) A quantitative study of the hepatic eosinophilic granule cells and rodlet cells during the breeding cycle of Ohrid trout, *Salmo letnica* Kar. (Teleostei, Salmonidae). *Fish and Shellfish Immunology* **23**: 473-478.
- 55 – Matos P, Fontainhas-Fernandes A, Peixoto F, Carrola J, **Rocha E** (2007) Biochemical and histological hepatic changes of Nile tilapia (*Oreochromis niloticus*) exposed to carbaryl. *Pesticide Biochemistry and Physiology* **89**: 73-80.
- 56 – Diniz C, Leal S, Logan K, Richa-Pereira C, Soares AS, **Rocha E**, Gonçalves J, Fresco P (2007) Immunohistochemical localization of angiotensin II receptor types 1 and 2 in the mesentery artery from spontaneously hypertensive rats. *Microscopy Research and Technique* **70**: 677–681.
- 57 – Ribeiro C, Tiritan ME, **Rocha E**, Rocha MJ (2007) Development and validation of a HPLC-DAD method for determination of several endocrine disrupting compounds in estuarine water. *Journal of Liquid Chromatography & Related Technologies* **30**: 2729–2746.
- 58 – Fernandes C, Fontainhas-Fernandes A, **Rocha E**, Salgado MA (2008) Monitoring pollution in Esmoriz-Paramos lagoon, Portugal: Liver histological and biochemical effects in *Liza saliens*. *Environmental Monitoring and Assessment* **145**: 315-322.
- 59 – Monteiro SM, **Rocha E**, Fontainhas-Fernandes A, Sousa M (2008). Quantitative histopathology of *Oreochromis niloticus* gills after copper exposure. *J. of Fish Biology* **73**: 1376-1392.
- 60 – Kortner TM, **Rocha E**, Silva P, Jørstad TS, Castro LFC, Arukwe A (2008) Genomic approach in evaluating the role of androgens on the growth of Atlantic cod (*Gadus morhua*) previtellogenic oocytes. *Comparative Biochemistry and Physiology Part D: Genomics and Proteomics* **3**: 205–218.
- 61 – Jordanova M, Miteva N, **Rocha E** (2008) A qualitative and quantitative study of the hepatic pigmented macrophage aggregates during the breeding cycle of Ohrid trout, *Salmo letnica* Kar. (Teleostei, Salmonidae) *Microscopy Research & Technique* **71**: 822-830.
- 62 – Silva P, Rowleson AM, Valente LMP, Olmedo M, Monteiro RAF, **Rocha E** (2008) Muscle differentiation and growth in blackspot seabream (*Pagellus bogaraveo*, Brunnich): histochemical and immunohistochemical study of the fibre types. *Tissue & Cell* **40**: 447-458.

- 63 – Monteiro SM, Rocha E, Mancera JM, Fontainhas-Fernandes A, Sousa M (2009). A stereological study of copper toxicity in gills of *O. niloticus*. *Ecotoxicol. Environ. Safety* **72**:213-23.
- 64 – Ribeiro C, Tiritan ME, Rocha E, Rocha MJ (2009) Seasonal and spatial distribution of several endocrine disrupting compounds in the Douro River Estuary, Portugal. *Archives of Environmental Contamination and Toxicology* **56**: 1-11.
- 65 – Ribeiro C, Pardal MA, Martinho F, Margalho R, Tiritan ME, Rocha E, Rocha MJ (2009) Distribution of endocrine disruptors in the Mondego River estuary (Portugal). *Environmental Monitoring and Assessment* **149**:183–193.
- 66 – Silva P, Valente LMP, Olmedo M, Galante MH, Monteiro RAF, Rocha E (2009) Hyperplastic and hypertrophic growth of lateral muscle in blackspot seabream, *Pagellus bogaraveo*, from hatching to juvenile. *Journal Fish Biology* **74**: 37-53.
- 67 – Marcos R, Santos M, Santos N, Malhão F, Ferreira F, Monteiro, RAF, Rocha E (2009) Use of destained cytology slides for the application of routine special stains. *Veterinary Clinical Pathology* **38**: 94–102.
- 68 – Rocha E, Rocha MJ, Galante MH, Silva MW, Monteiro RAF (2009) The hepatocytes of the brown trout (*Salmo trutta* f. *fario*): A stereological study of their number and size during the breeding cycle. *Ichthyological Research* **56**: 43-54.
- 69 – Kortner TM, Rocha E, Arukwe A (2009) Previtellogenic oocyte growth and transcriptional changes of steroidogenic enzyme genes in immature female Atlantic cod (*Gadus morhua* L.) after exposure to the androgens 11-ketotestosterone and testosterone. *Comparative Biochemistry and Physiology - Part A: Molecular & Integrative Physiology* **152**: 304-313.
- 70 – Kortner TM, Rocha E, Arukwe A (2009) Androgenic modulation of early growth of Atlantic cod (*Gadus morhua* L.) previtellogenic oocytes and zona radiata-related genes. *Journal of Toxicology and Environmental Health, Part A* **72**: 184-195.
- 71 – Batista-Pinto C, Rocha E, Castro LFC, Lobo-da-Cunha A (2009) Seasonal and gender variation of peroxisome proliferator activated receptors expression in brown trout liver. *General and Comparative Endocrinology* **161**: 146-152.
- 72 – Ribeiro C, Pardal MA, Tiritan ME, Rocha E, Rocha MJ (2009) Spatial distribution and quantification of endocrine disrupting chemicals in Sado River estuary by solid phase extraction and high-performance liquid chromatography with diode-array detection. *Environmental Monitoring and Assessment* **150**: 1-4.
- 73 – Jordanova M, Miteva N, Santos N, Malhão F, Rocha E (2009) Crystalline inclusions in the liver of wild female Ohrid trout (*Salmo letnica* Kar.). *Tissue & Cell* **41**: 281-285.
- 74 – Carrola J, Fontainhas-Fernandes A, Matos P, Rocha E (2009) Liver histopathology in brown trout (*Salmo trutta* f. *fario*) from the Tinhela River, subjected to mine drainage from the abandoned Jales mine (Portugal). *Bulletin of Environmental Contamination and Toxicology* **83**: 35-41.
- 75 – Silva P, Valente LMP, Galante MH, Andrade CAP, Monteiro RAF, Rocha E (2009) Dietary protein content influences both growth and size distribution of anterior and posterior muscle fibres in juveniles of blackspot seabream (*Pagellus bogaraveo*, Brunnich). *Journal of Muscle Research and Cell Motility* **30**: 29-39.
- 76 – Santos M, Marcos R, Santos N, Malhão F, Monteiro RAF, Rocha E (2009) A stereological study on the sub-populations of rat liver macrophages and on their numerical relation with the hepatocytes and stellate cells. *Journal of Anatomy* **214**: 744-551.
- 77 – Castro LFC, Rocha MJ, Lobo-da-Cunha A, Batista-Pinto C, Machado A, Rocha E (2009) The 17 β -hydroxysteroid dehydrogenase 4: gender and seasonal gene expression in the liver of brown trout (*Salmo trutta* f. *fario*). *General and Comparative Endocrinology* **153**: 157-164.
- 78 – Rocha E, Rocha MJ, Lobo-da-Cunha A, Galante MH, Monteiro RAF (2010) The hepatocytes of the brown trout (*Salmo trutta* f. *fario*): A stereological study of some cytoplasmic components during the breeding cycle. *Microscopic Research & Technique* **73**:766–778.
- 79 – Silva P, Power DM, Valente LMP, Silva N, Monteiro RAF, Rocha E (2010) Expression of the myosin light chains 1, 2 and 3 in the muscle of blackspot seabream (*Pagellus bogaraveo*), during development. *Fish Physiology and Biochemistry* **36**: 1125-1132.
- 80 – Resende AD, Lobo-da-Cunha A, Malhão F, Franquinho F, Monteiro RAF, Rocha E (2010) Histological and stereological characterization of brown trout (*Salmo trutta*) trunk kidney. *Microscopy and Microanalysis* **16**:677-87.
- 81 – Madureira TV, Barreiro JC, Rocha MJ, Rocha E, Cass QB, Tiritan ME (2010). Spatiotemporal distribution of pharmaceuticals in the Douro River estuary (Portugal): A study using liquid chromatography ion trap mass spectrometry. *Science of the Total Environment* **408**:5513-5520.
- 82 – Cardinal M, Cornet J, Donnay-Moreno C, Gouygou JP, Bergé JP, Rocha E, Soares S, Escórcio C, Borges P, Valente LMP (2011) Seasonal variation of physical, chemical and sensory characteristics of sea bream (*Sparus aurata*) reared under intensive conditions in Southern Europe. *Food Control* **22**: 574–585.
- 83 – Valente LMP, Cornet J, Donnay-Moreno C, Gouygou JP, Bergé JP, Bacelara M, Escórcio C, Rocha E, Malhão F, Cardinal M (2011) Quality differences of gilthead sea bream from distinct production systems in Southern Europe: intensive, integrated, semi-intensive or extensive systems. *Food Control* **22**: 708-717.
- 84 – Silva P, Valente LMP, Olmedo M, Álvarez-Blázquez B, Galante MH, Monteiro RAF, Rocha E (2011) Influence of temperature on muscle fibre hyperplasia and hypertrophy in larvae of blackspot seabream, *Pagellus bogaraveo*. *Aquaculture Research* **42**: 331–340.
- 85 – Castro LFC, Wilson JM, Gonçalves O, Galante-Oliveira S, Rocha E, Cunha I (2011) The evolutionary history of the stearyl-CoA desaturase gene family in vertebrates. *BMC Evolutionary Biology* **11**:132.
- 86 – Madureira TV, Rocha MJ, Cruzeiro C, Oliveira MH, Monteiro RAF, Rocha E (2011) The toxicity potential of pharmaceuticals found in the Douro River estuary (Portugal): Assessing impacts on gonadal maturation with a histopathological and stereological study of zebrafish ovary and testis after sub-acute exposures. *Aquatic Toxicology* **105**: 292-299.
- 87 – Madureira TV, Cruzeiro C, Rocha MJ, Rocha E (2011) The toxicity potential of pharmaceuticals found in the Douro River estuary (Portugal) – Experimental assessment using a zebrafish embryo test. *Environmental Toxicology and Pharmacology* **32**:212-217.
- 88 – Rocha MJ, Ferreira PC, Reis AR, Cruzeiro C, Rocha E (2011) Development and validation of a MAE-SPE-GC-MS method for the evaluation of sixteen priority polycyclic aromatic hydrocarbons in marine and estuarine sediments – Applications to the Porto coastal region (Portugal). *The Journal of Chromatographic Sciences* **9**: 695-701.
- 89 – Castro LF, Lopes-Marques M, Wilson JM, Rocha E, Reis-Henriques MA, Santos MM, Cunha I (2012) A novel Acetyl-CoA synthetase short-chain subfamily member 1 (Acss1) gene indicates a dynamic history of paralogous retention and loss in vertebrates. *Gene*, 497:249-255.
- 90 – Jordanova M, Rocha MJ, Rebok K, Rocha E (2012) Changes in the amount of kidney pigmented macrophage aggregates throughout the breeding cycle of female Ohrid trout, *Salmo letnica* Kar. (Teleostei, Salmonidae). *Microscopic Research & Technique* **75**:176-181.
- 91 – Madureira TV, Rocha MJ, Cruzeiro C, Rodrigues I, Monteiro RAF, Rocha E (2012) The toxicity potential of pharmaceuticals found in the Douro River estuary (Portugal): Evaluation of impacts on fish liver, by histopathology, stereology, vitellogenin and CYP1A immunohistochemistry, after sub-acute exposures of the zebrafish model. *Environmental Toxicology and Pharmacology* **34**:34-45.
- 92 – Marcos R, Monteiro RAF, Rocha E (2012) The use of design-based stereology to evaluate volumes and number in the liver: a review with practical guidelines. *J. Anat* **220**: 303–317.
- 93 – Ribeiro C, Urbatzka U, Castro LFC, Carrola J, Fontainhas-Fernandes A, Monteiro RAF, Rocha E, Rocha MJ (2012) In vitro exposure of Nile tilapia (*Oreochromis niloticus*) testis to endocrine disrupting chemicals: Effects on mRNA expression of genes encoding steroidogenic enzymes. *Toxicology Mechanisms and Methods* **22**:47-53.
- 94 – Rocha MJ, Ribeiro MFT, Cruzeiro C, Figueiredo F, Rocha E (2012) Development and validation of a GC-MS method for determination of thirty nine common pesticides in estuarine water – Targeting hazardous amounts in the Douro River estuary. *International Journal of Environmental Analytical Chemistry* **92**: 1587–1608.
- 95 – Rocha MJ, Cruzeiro C, Ferreira C, Rocha E (2012) Occurrence of endocrine disruptor compounds in the estuary of the Iberian Douro River and nearby Porto Coast (NW Portugal). *Toxicological & Environmental Chemistry*, **94**:252–261.
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