

PROFESORADO DE UNIVERSIDADES Y CENTROS DE INVESTIGACIÓN

DATOS DE IDENTIFICACIÓN Y CONTACTO

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CATEGORÍA LABORAL: Investigador Auxiliar

FORMACIÓN

ACADÉMICA Licenciatura Biología, Santiago de Compostela, 1989

Doctorado Fisiología Animal, Santiago de Compostela, 1994

INSTITUCIÓN Centro de Ciencias do Mar do Algarve, Faro, Portugal

EXPERIENCIA DOCENTE

FECHA DE ANTIGÜEDAD EN LA INSTITUCIÓN: 1997

TITULACIONES EN LAS QUE HA IMPARTIDO DOCENCIA EN LA UCA:

Nº DE QUINQUENIOS: -

ACREDITACIÓN POR AGENCIAS DE CALIDAD:-

EXPERIENCIA INVESTIGADORA

LÍNEAS DE INVESTIGACIÓN:

Fisiología de peces

RESULTADOS RELEVANTES: (Proyectos de investigación, publicaciones, aportaciones en congresos, etc.)

Nº DE SEXENIOS:

ORCID

INFORMACIÓN ADICIONAL

Funded research projects: Partner (p) or principal investigator (PI)

Please note that from 2010 research grants of the Portuguese Science Foundation have a ceiling of 200k€, before the ceiling was established in 100k€.

- PI. «Physiological Response of fish to Ocean Acidification» Funding Agency: Portuguese Science Foundation (FCT) (199.000 €). State: Started April 2016 (36 months).
- PI. «Fish hormones and the ocean carbon cycle» Funding Agency: Portuguese Science Foundation (FCT) (195.000 €). State: Ongoing (2013-end of 2015).
- p. «Phosphorus fate in fish: Through guts, bones and kidneys (PI: Dr. P.M. Guerreiro)». Funding Agency: Portuguese Science Foundation (FCT) (174.000€). State: Ongoing.(2013-end of 2015).
- PI. «Biom mineralization in the intestine of marine fish: an endocrine perspective». Funding Agency: Portuguese Science Foundation (FCT) (165.000 €). State: Concluded (2010-2012).
- p. «Functional characterization of PTHL: A novel member of the parathyroid hormone family» (PI: Professor A.V.M. Canário). Funding Agency: Portuguese Science Foundation (FCT) (180.000 €). State: Concluded (2007-2010)
- PI. «Stanniocalcin in sea bream: interaction with hypercalcemic factors in calcium balance». Funding Agency: Portuguese Science Foundation (FCT) (75.000 €). State: Concluded (2005-2008).
- PI. «Physiology of PTHrP in fish, relevance to calcium balance of an unique hypercalcemic factor». Funding Agency: Portuguese Science Foundation (FCT) (50.000 €). State: Concluded (2004-2007).
- PI. «Effect of salinity and stress on PRL, GH and SL expression in the gilthead sea bream (*Sparus aurata*)». Research exchange program with the University of Cadiz, Spain. Funding Agency: Council of Deans of Portuguese Universities [Conselho de Reitores das Universidades Portuguesas]. (4.000 €). State: Concluded (2002-2003).
- p. «Calcium, the backbone of fish culture: importance in skeletal formation, reproduction and normal Physiology». (PI: Professor A.V.M. Canário). Funding Agency: European Commission (1,000.000 €) State: Concluded (2002-2005).
- PI. «Osmoregulation in the sea bream: contribution of the branchial excretory mechanisms» Research exchange program with the University of Cadiz, Spain. Funding Agency: Council of Deans of Portuguese Universities [Conselho de Reitores das Universidades Portuguesas]. (4.000 €). State: Concluded (2000-2001).
- Co-PI. «The role of parathyroid hormone related protein (PTHrP) and the gene products of the prolactin family in calcium regulation in the sea bream (*Sparus aurata*)». Funding Agency: Portuguese Science Foundation (FCT) (50.000 €). State: Concluded (1999-2002).
- p. «PTHrP in sea bream development and physiology» (PI: Professor A.V.M. Canário). Funding Agency: European Commission (700.000 €). State: Concluded (1997-2000).
- Acting-PI. «Effect of fish size in seawater adaptation and growth in rainbow trout iris (*Oncorhynchus mykiss*)» (PI: Dr Emilia Rebolledo). Funding Agency: Regional Government of Galicia [Consellería de Educación e Ordenación Universitaria da Xunta de Galicia] (equivalent to 30.000€). State: Concluded (1992-1994).
- p. «Carbohydrate metabolism during smolting in Salmonids and reproduction in turbot» [original Spanish title: "Metabolismo de hidratos de carbono durante a esmoltificación dos salmónidos e durante a reprodución en salmónidos e rodaballo] (PI: Dr Manuel Aldegunde). Funding Agency: Regional Government of Galicia [Consellería de Educación e Ordenación Universitaria da Xunta de Galicia] (equivalent to 30.000€). State: Concluded (1989-1992).

PUBLICATIONS

Peer-reviewed

Ruiz-Jarabo I., Barany-Ruiz A, Jerez-Cepa I, Mancera JM and **J Fuentes**. Intestinal response to salinity challenge in the Senegalese sole (*Solea senegalensis*). Comparative Biochemistry and Physiology. Molecular

& integrative physiology. Under revision

Ruiz-Jarabo, I., González-Wevar, C.A., Oyarzún, R., **Fuentes, J.**, Poulin, E., Bertrán, C. and Vargas-Chacoff, L (2016). Isolation driven divergence in osmoregulation in *Galaxias maculatus* (Jenyns, 1848) (Actinopterygii: Osmeriformes) PlosONE. Accepted

Martos-Sitcha JA, MA Campinho, JM Mancera, G Martínez-Rodríguez and **J Fuentes**. (2015). Vasotocin and isotocin regulate Aquaporin 1 function in the sea bream. *Journal of Experimental Biology* 218, 684-693

Cardoso J, RC Felix, RS Martins, M Trindade, VG Fonseca, **J Fuentes**, DM Power. (2015). PACAP system evolution and its role in melanophore function in teleost fish skin. *Molecular and Cellular Endocrinology*. 411, 130-145

Carvalho ESM, SF Gregorio, AVM Canario, DM Power and **J Fuentes**. (2015). PTHrP regulates intestinal water absorption and aquaporin expression in the intestine of the marine sea bream (*Sparus aurata*). *General and Comparative Endocrinology*. 213, 24-31

Martos-Sitcha JA, JM Mancera, G Martínez-Rodríguez and **J Fuentes**. (2015). AVT and IT regulate ion transport across the opercular epithelium of killifish and sea bream. *Comparative Biochemistry and Physiology*. *Molecular & integrative physiology*. 182, 93-101.

Gregório SF, ESM Carvalho, MA Campinho, DM Power, AVM Canario and **J Fuentes**. (2014) Endocrine regulation of carbonate precipitate formation in marine fish intestine by Stanniocalcin and PTHrP. *Journal of Experimental Biology* 217, 1555-1562.

Martos-Sitcha JA, **J Fuentes**, JM Mancera and G Martínez-Rodríguez. (2014). Vasotocin and isotocin receptors in gilthead sea bream *Sparus aurata*: expression variations during different osmotic challenges. *General and Comparative Endocrinology*.197, 5-17.

Marquez L and **J Fuentes**. (2014). *In vitro* characterization of acid secretion in the gilthead sea bream (*Sparus aurata*) stomach. *Comparative Biochemistry and Physiology*. *Molecular & integrative physiology*. 167A, 52-58

Martos-Sitcha JA, SF Gregório, ESM Carvalho, AVM Canario, DM Power, JM Mancera, G Martínez-Rodríguez and **J Fuentes**. (2013). AVT is involved in the regulation of ion transport in the intestine of the sea bream (*Sparus aurata*). *General and Comparative Endocrinology*. 93, 221–228

Martins RST, DM Power, **J Fuentes**, LAM Deloffre and AVM Canario. (2013). DAX1 regulatory networks unveil conserved and potentially new functions. *Gene* 530, 66-74

Gregório SF, ESM Carvalho, S Encarnação, JM Wilson, DM Power, AVM Canário, **J Fuentes**. (2013). Adaptation to different salinities exposes functional specialization in the intestine of the sea bream (*Sparus auratus* L.). *Journal of Experimental Biology* 216 (3): 470-9

Sáenz de Rodrigáñez MA, **J Fuentes**, FJ Moyano and L Ribeiro (2013). In vitro evaluation of the effect of a high plant protein diet and nucleotide supplementation on intestinal integrity in meagre (*Argyrosomus regius*). *Fish Physiology and Biochemistry* 39: 1365-70

Ferlazzo A, ES Carvalho, SF Gregorio, DM Power, AVM Canario, F Trischitta and **J Fuentes** (2012). Prolactin regulates luminal bicarbonate secretion in the intestine of the sea bream (*Sparus auratus* L.). *Journal of Experimental Biology* 215 (21): 3836-44

Carvalho ES, SF Gregorio, DM Power, AVM Canario and **J Fuentes**. (2012). Water absorption and bicarbonate secretion in the intestine of the sea bream: heterogeneous response to transmembrane and soluble adenylyl cyclase stimulation. *Journal of Comparative Physiology B* 182 (8): 1069-80

Carvalho ES, **J Fuentes** and DM Power. (2011). Integument structure and function in juvenile *Xenopus laevis* with disrupted thyroid balance. *General and Comparative Endocrinology*. 174 (3): 301-8

Fuentes J, DM Power and AVM Canario. (2010). Parathyroid hormone-related protein - Stanniocalcin antagonism in the regulation of bicarbonate secretion and calcium precipitation in a marine fish intestine. *American Journal of Physiology Regulatory Integrative and Comparative Physiology* 299: R150-R158

Fuentes J, L Brinca, PM Guerreiro and DM Power. (2010). PRL and GH synthesis and release from the sea bream (*Sparus auratus* L.) pituitary gland in vitro in response to osmotic challenge. *General and Comparative Endocrinology* 168: 95-102

Pinheiro PLC, JCR Cardoso, AS Gomes, **J Fuentes**, DM Power, AVM Canário. (2010). Gene structure, transcripts and calciotropic effects of the PTH family of peptides in *Xenopus* and chicken. *BMC Evolutionary Biology* 10: 373

Power DM, **J Fuentes**, AP Harrison (2010). A noninvasive monitoring device for anesthetics in fish. *Open Access Animal Physiology* 2:17-23

Kalamar H, M Nietrzeba, **J Fuentes**, G Martinez-Rodriguez, JM Mancera, E Kulczykowska. (2009). Melatonin during larval and post-larval development of gilthead sea bream *Sparus auratus* L.: more than time-keeping

molecule? *Journal of Fish Biology* 75, 142-155

Martins RS, **J Fuentes**, O Almeida, DM Power and AVM Canario. (2009). Ca^{2+} -Calmodulin regulation of testicular androgen production in Mozambique tilapia (*Oreochromis mossambicus*). *General and Comparative Endocrinology* 62:153-159.

Laiz-Carrión R, **J Fuentes**, B Redruello, JM Guzmán, MP Martín del Río, D Power, JM Mancera (2009) Expression of pituitary prolactin, growth hormone and somatolactin is modified in response to different stressors (salinity, crowding and food-deprivation) in gilthead sea bream *Sparus auratus*. *General and Comparative Endocrinology* 162: 293-300.

Power DM, **J Fuentes**, AP Harrison. (2008). Stunning fish (Betäubung von Fischen). *Arch. Tierz., Dummerstorf* 51 (2008) Special Issue, 78-79

Fuentes J, PM Guerreiro, T Modesto, J Rotllant, AVM Canario, DM Power. (2007). A PTH/PTHrP receptor antagonist blocks the hypercalcemic response to estradiol-17 β . *American Journal of Physiology Regulatory Integrative and Comparative Physiology* 293: R956-R960

Fuentes J, C Haond, PM Guerreiro, N Silva, DM Power, AVM Canario. (2007). Regulation of calcium balance in the sturgeon (*Acipenser naccarii*): a role for PTHrP. *American Journal of Physiology Regulatory Integrative and Comparative Physiology* 293: R884-R893.

Fuentes J, J Figueiredo, DM Power, AVM Canario. (2006). Parathyroid hormone-related protein regulates intestinal calcium transport in the sea bream (*Sparus auratus*). *American Journal of Physiology Regulatory Integrative and Comparative Physiology* 291: R1499-R150

Guerreiro PM, J Rotllant, **J Fuentes**, DM Power, AVM Canario. (2006). Cortisol and parathyroid hormone-related peptide are reciprocally modulated by negative feedback. *General and Comparative Endocrinology* 148: 227-235

Canario AVM, J Rotllant, **J Fuentes**, PM Guerreiro, DM Power, MS Clark. (2006). Novel bioactive parathyroid hormone and related peptides in teleost fish. *FEBS Letters* 580: 291–299

Laiz-Carrión R, PM Guerreiro, **J Fuentes**, AVM Canario, MP Martín del Río, JM Mancera (2005). Branchial osmoregulatory response to salinity in the gilthead sea bream, *Sparus auratus*. *Journal of Experimental Zoology* 303A: 563–576

Santos CRA, MD Estevão, **J Fuentes**, JCR Cardoso, M Fabra, FJ Detmers, PMT Deen, J Cerdá, DM Power. (2004). Molecular cloning of a functional Aquaporin-3 cDNA and its tissue distribution in a Teleost fish (*Sparus auratus*). *Journal of Experimental Biology* 207: 1217-1227

Guerreiro PM, **J Fuentes**, G Flik, J Rotllant, DM Power, AVM Canario. (2004). Whole-body calcium uptake by gilthead sea bream larvae is mostly determined by water calcium concentration during short-term adaptation to altered salinities. *Journal of Experimental Biology* 207: 645-653

Rotllant J, GP Worthington, **J Fuentes**, PM Guerreiro, CA Teitsma, PM Ingleton, RJ Balment, AVM Canario, DM Power. (2003). Development and validation of specific radio-immunoassay for teleost n-terminus (1-34) parathyroid hormone-related protein: tissue and plasma concentrations. *General and Comparative Endocrinology* 133: 146-153

Brinca L, **J Fuentes**, DM Power. (2003). The regulatory action of estrogen and vasoactive intestinal peptide on prolactin secretion in sea bream (*Sparus aurata*, L.). *General and Comparative Endocrinology* 131: 117-125.

Flik G, S Varsamos, PM Guerreiro, **X Fuentes**, MO Huising, JC Fenwick (2002) Drinking in (very young) fish. *Symp Soc Exp Biol.* 2002 : 31-47. Review

Fuentes J, PM Guerreiro, AVM Canario, DM Power. (2002). Calcium balance in sea bream (*Sparus aurata*): the effect of estradiol-17 β . *Journal of Endocrinology* 173: 377-385.

Fuentes J, PM Guerreiro, DM Power, PM Ingleton, G Flik, AVM Canario. (2001). Parathyroid hormone related protein: A hypercalcemic factor in sea bream (*Sparus aurata* L.) larvae. *American Journal of Physiology. Regulatory Integrative and Comparative Physiology.* 281: R855-R860.

Flanagan JA, DM Power, LA Bendell, PM Guerreiro, **J Fuentes**, MS Clark, AVM Canario, JA Danks, BL Brown, PM Ingleton. (2000). Cloning of the cDNA for sea bream (*Sparus aurata*) parathyroid hormone-related protein. *General and Comparative Endocrinology* 118: 373-82.

Fuentes J, FB Eddy. (1998). Cardiovascular responses in vivo to Angiotensin II and the peptide antagonist saralasin in rainbow trout (*Oncorhynchus mykiss* Walbaum). *Journal of Experimental Biology* 201: 267-272.

Fuentes J, JL Soengas, P Rey, E Rebolledo. (1997). Progressive transfer to seawater enhances intestinal and branchial Na^+K^+ -ATPase activity in non-anadromous rainbow trout (*Oncorhynchus mykiss*). *Aquaculture International* 5: 217-228.

Fuentes J, FB Eddy (1997) Drinking in Atlantic salmon pre-smolts and smolts in response to growth hormone

and salinity. *Comparative Biochemistry and Physiology* 117A: 487-491.

Fuentes J, FB Eddy (1997) Effect of manipulation of the renin-angiotensin system in the control of drinking in juvenile Atlantic salmon (*Salmo salar* L) smolts in fresh water and after transfer to sea water. *Journal of Comparative Physiology B* 167: 438-443.

Fuentes J, NR Bury, S Carrol, FB Eddy (1996) Drinking in Atlantic salmon presmolts (*Salmo salar* L) and juvenile rainbow trout (*Oncorhynchus mykiss* Walbaum) in response to cortisol and seawater challenge. *Aquaculture* 141: 129-137.

Fuentes J, FB Eddy (1996) Drinking in freshwater adapted rainbow trout fry *Oncorhynchus mykiss* (Walbaum) in response to angiotensin I, angiotensin II, angiotensin converting enzyme inhibition and receptor blockade. *Physiological Zoology* 69: 1555-1569.

Soengas JL, E Strong, **J Fuentes**, JAR Veira, MD Andres (1996) Food deprivation and refeeding in Atlantic salmon, *Salmo salar*: Effects on brain and liver carbohydrate and ketone bodies metabolism. *Fish Physiology and Biochemistry* 15: 491-511.

Soengas JL, E Strong, **J Fuentes**, M Aldegunde, MD Andres (1996) Post- feeding carbohydrate and ketone bodies metabolism in brain and liver of Atlantic salmon. *Journal of Physiology and Biochemistry* 52: 131-142.

Fuentes J, JL Soengas, M Buceta, J Otero, P Rey, E Rebolledo (1996) Kidney ATPase response in seawater-transferred rainbow trout (*Oncorhynchus mykiss*). Effect of salinity and fish size. *Journal of Physiology and Biochemistry*. 52: 231-238.

Fuentes J, JC McGeer, FB Eddy (1996) Drinking rate in juvenile Atlantic salmon, *Salmo salar* L fry in response to a nitric oxide donor, sodium nitroprusside and an inhibitor of angiotensin converting enzyme, enalapril. *Fish Physiology and Biochemistry* 15: 65-69.

Bernier NJ, **J Fuentes**, DJ Randall (1996) Adenosine receptor blockade and hypoxia tolerance in rainbow trout and Pacific hagfish. II. Effects on plasma catecholamines and erythrocytes. *Journal of Experimental Biology* 199: 497- 507.

Soengas JL, **J Fuentes**, MD Andres, M Aldegunde (1995) The effect of gradual transfer to seawater on muscle carbohydrate metabolism of rainbow trout. *Journal of Fish Biology* 46: 509-523.

Soengas JL, **J Fuentes**, MD Andres, M Aldegunde (1994) Direct transfer of rainbow trout to seawater induces several changes in kidney carbohydrate metabolism *Revista española de Fisiología*. 50: 219-228.

Soengas JL, P Barciela, **J Fuentes**, J Otero, MD Andres, M Aldegunde. (1993) Changes in muscle carbohydrate metabolism in domesticated rainbow trout (*Oncorhynchus mykiss*) after transfer to seawater. *Comparative Biochemistry and Physiology* 104B: 173-179.

Soengas JL, P Barciela, **J Fuentes**, J Otero, MD Andres, M Aldegunde. (1993) The effect of seawater transfer in liver carbohydrate metabolism of domesticated rainbow trout (*Oncorhynchus mykiss*). *Comparative Biochemistry and Physiology* 105B: 337-343.

Soengas JL, **J Fuentes**, J Otero, MD Andres, M Aldegunde (1992) Seasonal changes in carbohydrate metabolism in the rainbow trout (*Oncorhynchus mykiss*) and their relationship to changes in gill (Na⁺-K⁺)-ATPase activity. *Aquaculture* 108: 369-380.

Soengas JL, J Otero, **J Fuentes**, MD Andres, M Aldegunde (1991) Preliminary studies on carbohydrate metabolism changes in domesticated rainbow trout (*Oncorhynchus mykiss*) transferred to diluted seawater (12 ppt). *Comparative Biochemistry and Physiology* 98B: 53-57

Fuentes J, J Otero, JL Soengas, J Garcia, E Rebolledo (1991) Renal Complex ATPase activity in domesticated rainbow trout *Oncorhynchus mykiss* at different times of the year. *Journal of interdisciplinary Cycle Research* 22, 355-365

Chapters

Ruiz-Jarabo I, **Fuentes J**, Mancera JM. (In press) Osmoregulation. In "The Biology of Sole". Editors: Muñoz-Cueto JA, Mañanos E and Sánchez-Vázquez FJ. CRC.

Ruiz-Jarabo I, Gregório SF, **Fuentes J**, An approach to Stanniocalcin secretion in gilthead sea bream (*Sparus aurata*). In *Advances in Comparative Endocrinology*, Vol VIII. In press

Martos-Sitcha JA, **J Fuentes**, G Martínez-Rodríguez and JM Mancera (2014). Tissue and salinity dependent expression of vasotocin and isotocin receptors in marine fish. In "Advances in Comparative Endocrinology, Vol VII". Publisher: Publicacions i Edicions de la Universitat de Barcelona, Editors: I. Navarro, J. Gutiérrez, E. Capilla, pp.115-118, ISBN 978-81-7895-3851-5

Martos-Sitcha JA, SF Gregorio, ESM Carvalho, AVM Canario, DM Power, JM Mancera, G Martínez Rodríguez, J Fuentes (Vasotocinergic system in the gilthead sea bream (*Sparus aurata*): from molecular to

electrophysiological characterization in the gastrointestinal tract. In "Avances en Endocrinología Comparada", Vol. VI., Edited by M.J. Delgado, A.L. Alonso-Gómez, N. De Pedro, E. Irsón. pp 49-52; Complutense University of Madrid, Área de ciencias exactas y de la naturaleza, Madrid., ISBN: 978-84-96703-42-1

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Guerreiro PM, **J Fuentes**. (2007). Control of calcium balance in fish. In «Fish Osmoregulation». B Baldisserotto, JM Mancera, BG Kapoor, Editors. Science Publishers, Inc. Enfield (NH). USA; Plymouth, U.K. & Oxford & IBH Publishing Co. Pvt. Ltd., ISBN 978-1-57808-447-0.

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Fuentes J, FB Eddy (1997) Drinking in marine, euryhaline and freshwater teleost fish. In «Ionic Regulation in Animals». N Hazon, FB Eddy, G Flik, Editors. Springer-Verlag. ISBN 3-540-61083-9. pp135-149

Proceedings

Fuentes J (2007) Making a living out of drinking. Comparative Biochemistry and Physiology 146A, S87-S96

Guerreiro PM, S Sangiao-Alvarellos, J Fuentes, D Power, J Renfro (2007) Parathyroid hormone related protein alters in vitro and in vivo renal function and ion transport in fish. Comparative Biochemistry and Physiology 146A, S87-S96

Guerreiro PM, AVM Canario, J Fuentes, J Rotllant, B Redruello, DM Power, J Renfro (2004) Possible actions of PTHrP on calcium and phosphate transport by winter flounder (*Pseudopleuronectes americanus*) renal proximal tubule cells In «Avances en Endocrinología Comparada Vol II » JP Castaño, MM Malagón, S Garcia Navarro, Editors. Servicio de Publicaciones Universidad de Cordoba ISBN 84-7801-757-7

Rotllant J, PM Guerreiro, B Redruello, L Anjos, H Fernandes, J Fuentes, AVM Canario, DM Power (2004) Studies on truncated forms of the (1-34) n- terminal peptide of parathyroid hormone-related protein defines regions important for activity In «Avances en Endocrinología Comparada Vol II» JP Castaño, MM Malagón, S Garcia Navarro, Editors. Servicio de Publicaciones Universidad de Cordoba ISBN 84-7801-757-7

Guerreiro PM, J Fuentes, DM Power, G Flik, PM Ingleton, AVM Canario (2002) PTHrP and calcium transport in the tilapia *Oreochromis mossambicus*: whole body and cellular aspects. Comparative Biochemistry and Physiology. 132 S41-S49

Rotllant J, J Fuentes, PM Guerreiro, AVM Canario, DM Power (2002) Possible relationship between corticosteroids and PTHrP in teleost fish: in- vitro and in-vivo physiology. Comparative Biochemistry and Physiology. 132 S41-S49

Guerreiro PM, J Rotllant, AVM Canario, G Flik, DM Power, J Fuentes. (2001) Parathyroid hormone related protein and calcium transport in the tilapia, *Oreochromis mossambicus*. In «Avances en Endocrinología Comparada», P. Fernández-Llebrez del Rey (Editor), Universidad de Málaga, Vélez-Málaga, Spain.

Rotllant J, J Fuentes, PM Guerreiro, D Power, A Canario (2001) A possible relationship between corticosteroids and PTHrP in teleost fish: a physiological approach. In «Avances en Endocrinología Comparada», P. Fernández-Llebrez del Rey (Editor), Universidad de Málaga, Vélez-Málaga, Spain.

PM Guerreiro, J Fuentes, AVM Canario, DM Power, PM Ingleton, G Flik. (1999) Parathyroid hormone-related protein: A calcium regulating factor in a marine Teleost, *Sparus aurata*. Journal of Endocrinology 163 (Suppl), P4

PM Guerreiro, DM Power, AVM Canario, PM Ingleton, SE Wendelaar Bonga, J Fuentes, G Flik (1999) "Hypocalcemic effects of human Parathyroid hormone-related protein in the gilthead sea bream *Sparus aurata*". In Recent developments in comparative endocrinology and neurobiology. EW Roubos, SEW Bonga, H Vaudry and A De Loof (Eds). Shaker Publishing, ISBN 90-423-0089- 2. pp166-168.

Scientific Meetings:

Invited speaker (IN), Oral presentations (OP) Poster presentations (PP).

IN J Fuentes. 8th International Symposium on Fish Endocrinology, June 28th-July 2nd GOTHENBURG, SWEDEN SF Gregorio, I Ruiz-Jarabo, **J Fuentes**. The Impact of Ocean Acidification in Sea bream Intestinal Physiology . SEB 2016, June 12-16, 2016. Brighton, UK

IN I Ruiz-Jarabo, MA Campinho, SF Gregório, and J Fuentes. VIVO-MORPHOLINOS againstT ClAUDIN-15 SHOW OSMOREGULATORY FUNCTIONS OF TIGHT-JUNCTION REGULATION IN KILLIFISH. 12h International Congress on the Biology of Fish. San Marcos, Texas

IN **J Fuentes**. Endocrine regulation of ion transport in marine fish: intestinal mineralization supports osmoregulation, NASCE 2015. North American Society of Comparative Endocrinology, Ottawa, June 2015

PP Martos-Sitcha JA, **J Fuentes**, G Martínez Rodríguez, J M Mancera. Tissue and salinity dependent expression of vasotocin and isotocin receptors in marine fish, 9th Congress of the Asociación Ibérica de Endocrinología Comparada (AIEC), Barcelona, July 2013

OP Cardoso JCR, RC Félix, RS Martins, VG Fonseca, **J Fuentes**, DM Power. PACAP and its receptors regulate melanin translocation in teleost skin melanophores. 9th Congress of the Asociación Ibérica de Endocrinología Comparada (AIEC), Barcelona, July 2013

PP Martos-Sitcha JA, MA Campinho, JM Mancera, G Martínez-Rodríguez, **J Fuentes**. Differential aquaporin regulation by vasotocin/isotocin receptors in a euryhaline teleost, the gilthead sea bream (*Sparus aurata*). 17th International Congress of Comparative Endocrinology (ICCE 2013) Barcelona, July 2013

PP Martos-Sitcha JA, JM Mancera, G Martínez-Rodríguez, **J Fuentes**. AVT and IT regulate chloride secretion in the operculum of killifish. 7th International symposium on fish endocrinology, Buenos Aires, September 2012

PP Gregorio, E.S. Carvalho, D.M. Power, A.V.M. Canário, J. Fuentes. Regulation of bicarbonate transporters by calcitropic hormones in the intestine of marine fish. 8^o Congresso AIEC (Asociación Ibérica de Endocrinología Comparada), Universidad Complutense, Madrid, September 2011

PP Carvalho ES, SF Gregorio, DM Power, AVM Canário, **J Fuentes**. cAMP and PTHrP regulate water absorption and bicarbonate secretion in the sea bream intestine. 8^o Congresso AIEC (Asociación Ibérica de Endocrinología Comparada), Universidad Complutense, Madrid, September 2011

OP **Fuentes J**, ES Carvalho, SF Gregorio, DM Power, A Canário. Endocrine control of intestinal mineralization in marine fish. 8^o Congresso AIEC (Asociación Ibérica de Endocrinología Comparada), Universidad Complutense, Madrid, September 2011

OP Martos-Sitcha JA, SF Gregorio, ES Carvalho, AVM Canário, DM Power, JM Mancera, G Martinez-Rodriguez, **J Fuentes**. Vasotocinergic system in the gilthead sea bream (*Sparus aurata*): From molecular to electrophysiological characterization in the gastrointestinal tract. 8^o Congresso AIEC (Asociación Ibérica de Endocrinología Comparada), Universidad Complutense, Madrid, September 2011

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