# Jose L Soengas

## List of Publications by Citations



| 182 | 5,420 | 41 | 64 |
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| papers | citations | h-index | g-index |
| 186 | 6,234 | 3.3 | 5.92 |
| ext. papers | ext. citations | avg, IF | L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 182 | Glucose metabolism in fish: a review. *Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology*, **2012**, 182, 1015-45 | 2.2 | 449 |
| 181 | Glucosensing and glucose homeostasis: from fish to mammals. *Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology*, **2011**, 160, 123-49 | 2.3 | 188 |
| 180 | Energy metabolism of fish brain. *Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology*, **2002**, 131, 271-96 | 2.3 | 157 |
| 179 | Time course of osmoregulatory and metabolic changes during osmotic acclimation in Sparus auratus. *Journal of Experimental Biology*, **2005**, 208, 4291-304 | 3 | 134 |
| 178 | Influence of cortisol on osmoregulation and energy metabolism in gilthead seabream Sparus aurata. *Journal of Experimental Zoology Part A, Comparative Experimental Biology*, **2003**, 298, 105-18 | | 106 |
| 177 | Growth performance of gilthead sea bream Sparus aurata in different osmotic conditions: Implications for osmoregulation and energy metabolism. *Aquaculture*, **2005**, 250, 849-861 | 4.4 | 99 |
| 176 | Acclimation of S aurata to various salinities alters energy metabolism of osmoregulatory and nonosmoregulatory organs. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2003**, 285, R897-907 | 3.2 | 96 |
| 175 | Food deprivation alters osmoregulatory and metabolic responses to salinity acclimation in gilthead sea bream Sparus auratus. *Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology*, **2006**, 176, 441-52 | 2.2 | 94 |
| 174 | Interactive effects of high stocking density and food deprivation on carbohydrate metabolism in several tissues of gilthead sea bream Sparus auratus. *Journal of Experimental Zoology Part A, Comparative Experimental Biology*, **2005**, 303, 761-75 | | 94 |
| 173 | Dietary carbohydrates induce changes in glucosensing capacity and food intake of rainbow trout. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2008**, 295, R478-89 | 3.2 | 88 |
| 172 | Energy Metabolism in Fish Tissues Related to Osmoregulation and Cortisol Action. *Fish Physiology and Biochemistry*, **2002**, 27, 179-188 | 2.7 | 84 |
| 171 | Food deprivation and refeeding in Atlantic salmon,Salmo salar: effects on brain and liver carbohydrate and ketone bodies metabolism. *Fish Physiology and Biochemistry*, **1996**, 15, 491-511 | 2.7 | 77 |
| 170 | The response of brain serotonergic and dopaminergic systems to an acute stressor in rainbow trout: a time course study. *Journal of Experimental Biology*, **2013**, 216, 4435-42 | 3 | 74 |
| 169 | Evidence for the presence of a glucosensor in hypothalamus, hindbrain, and Brockmann bodies of rainbow trout. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2007**, 292, R1657-66 | 3.2 | 74 |
| 168 | Acute and prolonged stress responses of brain monoaminergic activity and plasma cortisol levels in rainbow trout are modified by PAHs (naphthalene, beta-naphthoflavone and benzo(a)pyrene) treatment. *Aquatic Toxicology*, **2008**, 86, 341-51 | 5.1 | 71 |
| 167 | Changes in food intake and glucosensing function of hypothalamus and hindbrain in rainbow trout subjected to hyperglycemic or hypoglycemic conditions. *Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology*, **2008**, 194, 829-39 | 2.3 | 68 |
| 166 | Hypothalamic Integration of Metabolic, Endocrine, and Circadian Signals in Fish: Involvement in the Control of Food Intake. *Frontiers in Neuroscience*, **2017**, 11, 354 | 5.1 | 67 |

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| 165 | Altered dietary carbohydrates significantly affect gene expression of the major glucosensing components in Brockmann bodies and hypothalamus of rainbow trout. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2008**, 295, R1077-88 | 3.2 | 67 |
| 164 | Nutrient Sensing Systems in Fish: Impact on Food Intake Regulation and Energy Homeostasis. *Frontiers in Neuroscience*, **2016**, 10, 603 | 5.1 | 64 |
| 163 | Glucokinase and hexokinase expression and activities in rainbow trout tissues: changes with food deprivation and refeeding. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2006**, 291, R810-21 | 3.2 | 62 |
| 162 | Contribution of glucose- and fatty acid sensing systems to the regulation of food intake in fish. A review. *General and Comparative Endocrinology*, **2014**, 205, 36-48 | 3 | 60 |
| 161 | Central regulation of food intake in fish: an evolutionary perspective. *Journal of Molecular Endocrinology*, **2018**, 60, R171-R199 | 4.5 | 59 |
| 160 | Effect of different glycaemic conditions on gene expression of neuropeptides involved in control of food intake in rainbow trout; interaction with stress. *Journal of Experimental Biology*, **2010**, 213, 3858-65 | 3 | 57 |
| 159 | Gut glucose metabolism in rainbow trout: implications in glucose homeostasis and glucosensing capacity. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2010**, 299, R19-32 | 3.2 | 55 |
| 158 | Daily changes in parameters of energy metabolism in brain of rainbow trout: dependence on feeding. *Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology*, **2007**, 146, 265-73 | 2.6 | 55 |
| 157 | Glucose, lactate, and beta-hydroxybutyrate utilization by rainbow trout brain: changes during food deprivation. *Physiological Zoology*, **1998**, 71, 285-93 | | 55 |
| 156 | Central leptin treatment modulates brain glucosensing function and peripheral energy metabolism of rainbow trout. *Peptides*, **2010**, 31, 1044-54 | 3.8 | 54 |
| 155 | Feeding rainbow trout with a lipid-enriched diet: effects on fatty acid sensing, regulation of food intake and cellular signaling pathways. *Journal of Experimental Biology*, **2015**, 218, 2610-9 | 3 | 51 |
| 154 | Interactive effects of environmental salinity and temperature on metabolic responses of gilthead sea bream Sparus aurata. *Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology*, **2009**, 154, 417-24 | 2.6 | 51 |
| 153 | In vitro evidences for glucosensing capacity and mechanisms in hypothalamus, hindbrain, and Brockmann bodies of rainbow trout. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2007**, 293, R1410-20 | 3.2 | 49 |
| 152 | Effect of an acute exposure to sublethal concentrations of cadmium on liver carbohydrate metabolism of Atlantic salmon (Salmo salar). *Bulletin of Environmental Contamination and Toxicology*, **1996**, 57, 625-31 | 2.7 | 49 |
| 151 | beta-Naphthoflavone and benzo(a)pyrene treatment affect liver intermediary metabolism and plasma cortisol levels in rainbow trout Oncorhynchus mykiss. *Ecotoxicology and Environmental Safety*, **2008**, 69, 180-6 | 7 | 48 |
| 150 | Daily rhythmic expression patterns of clock1a, bmal1, and per1 genes in retina and hypothalamus of the rainbow trout, Oncorhynchus mykiss. *Chronobiology International*, **2011**, 28, 381-9 | 3.6 | 47 |
| 149 | A simple and sensitive method for determination of melatonin in plasma, bile and intestinal tissues by high performance liquid chromatography with fluorescence detection. *Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences*, **2009**, 877, 2173-7 | 3.2 | 47 |
| 148 | Evidence of a metabolic fatty acid-sensing system in the hypothalamus and Brockmann bodies of rainbow trout: implications in food intake regulation. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2012**, 302, R1340-50 | 3.2 | 47 |

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| 147 | Involvement of lactate in glucose metabolism and glucosensing function in selected tissues of rainbow trout. *Journal of Experimental Biology*, **2008**, 211, 1075-86 | 3 | 47 |
| 146 | Brain serotonin and the control of food intake in rainbow trout (Oncorhynchus mykiss): effects of changes in plasma glucose levels. *Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology*, **2002**, 188, 479-84 | 2.3 | 46 |
| 145 | Actions of growth hormone on carbohydrate metabolism and osmoregulation of rainbow trout (Oncorhynchus mykiss). *General and Comparative Endocrinology*, **2005**, 141, 214-25 | 3 | 46 |
| 144 | Stress alters food intake and glucosensing response in hypothalamus, hindbrain, liver, and Brockmann bodies of rainbow trout. *Physiology and Behavior*, **2010**, 101, 483-93 | 3.5 | 44 |
| 143 | Naphthalene treatment alters liver intermediary metabolism and levels of steroid hormones in plasma of rainbow trout (Oncorhynchus mykiss). *Ecotoxicology and Environmental Safety*, **2007**, 66, 139-47 | 7 | 43 |
| 142 | Central administration of oleate or octanoate activates hypothalamic fatty acid sensing and inhibits food intake in rainbow trout. *Physiology and Behavior*, **2014**, 129, 272-9 | 3.5 | 41 |
| 141 | Progressive transfer to seawater enhances intestinal and branchial Na+-K+-ATPase activity in non-anadromous rainbow trout. *Aquaculture International*, **1997**, 5, 217-227 | 2.6 | 41 |
| 140 | Development of a microtitre plate indirect ELISA for measuring cortisol in teleosts, and evaluation of stress responses in rainbow trout and gilthead sea bream. *Journal of Fish Biology*, **2006**, 68, 251-263 | 1.9 | 41 |
| 139 | Short-term time course of liver metabolic response to acute handling stress in rainbow trout, Oncorhynchus mykiss. *Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology*, **2014**, 168, 40-9 | 2.6 | 39 |
| 138 | In vitro leptin treatment of rainbow trout hypothalamus and hindbrain affects glucosensing and gene expression of neuropeptides involved in food intake regulation. *Peptides*, **2011**, 32, 232-40 | 3.8 | 39 |
| 137 | Oleic acid and octanoic acid sensing capacity in rainbow trout Oncorhynchus mykiss is direct in hypothalamus and Brockmann bodies. *PLoS ONE*, **2013**, 8, e59507 | 3.7 | 38 |
| 136 | Ghrelin modulates hypothalamic fatty acid-sensing and control of food intake in rainbow trout. *Journal of Endocrinology*, **2016**, 228, 25-37 | 4.7 | 37 |
| 135 | Daily changes in parameters of energy metabolism in liver, white muscle, and gills of rainbow trout: dependence on feeding. *Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology*, **2007**, 147, 363-74 | 2.6 | 36 |
| 134 | Osmoregulatory and metabolic changes in the gilthead sea bream Sparus auratus after arginine vasotocin (AVT) treatment. *General and Comparative Endocrinology*, **2006**, 148, 348-58 | 3 | 36 |
| 133 | Brain glucose and insulin: effects on food intake and brain biogenic amines of rainbow trout. *Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology*, **2004**, 190, 641-9 | 2.3 | 36 |
| 132 | Oral administration of melatonin counteracts several of the effects of chronic stress in rainbow trout. *Domestic Animal Endocrinology*, **2014**, 46, 26-36 | 2.3 | 35 |
| 131 | Growth hormone and prolactin actions on osmoregulation and energy metabolism of gilthead sea bream (Sparus auratus). *Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology*, **2006**, 144, 491-500 | 2.6 | 35 |
| 130 | Stress Effects on the Mechanisms Regulating Appetite in Teleost Fish. *Frontiers in Endocrinology*, **2018**, 9, 631 | 5.7 | 34 |

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| 129 | Characterization of melatonin synthesis in the gastrointestinal tract of rainbow trout (Oncorhynchus mykiss): distribution, relation with serotonin, daily rhythms and photoperiod regulation. *Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology*, **2016**, 186, 471-84 | 2.2 | 33 |
| 128 | Transport and metabolism of glucose in isolated enterocytes of the black bullhead ictalurus melas: effects of diet and hormones. *Journal of Experimental Biology*, **1998**, 201, 3263-3273 | 3 | 33 |
| 127 | Evidence for the Presence of Glucosensor Mechanisms Not Dependent on Glucokinase in Hypothalamus and Hindbrain of Rainbow Trout (Oncorhynchus mykiss). *PLoS ONE*, **2015**, 10, e0128603 | 3.7 | 32 |
| 126 | Acute effects of L-tryptophan on tryptophan hydroxylation rate in brain regions (hypothalamus and medulla) of rainbow trout (Oncorhynchus mykiss). *The Journal of Experimental Zoology*, **2000**, 286, 131-5 | | 32 |
| 125 | Gradation of the stress response in rainbow trout exposed to stressors of different severity: the role of brain serotonergic and dopaminergic systems. *Journal of Neuroendocrinology*, **2015**, 27, 131-41 | 3.8 | 31 |
| 124 | Evidence for a gut-brain axis used by glucagon-like peptide-1 to elicit hyperglycaemia in fish. *Journal of Neuroendocrinology*, **2011**, 23, 508-18 | 3.8 | 31 |
| 123 | Arginine vasotocin treatment induces a stress response and exerts a potent anorexigenic effect in rainbow trout, Oncorhynchus mykiss. *Journal of Neuroendocrinology*, **2014**, 26, 89-99 | 3.8 | 30 |
| 122 | beta-Naphthoflavone and benzo(a)pyrene alter dopaminergic, noradrenergic, and serotonergic systems in brain and pituitary of rainbow trout (Oncorhynchus mykiss). *Ecotoxicology and Environmental Safety*, **2009**, 72, 191-198 | 7 | 30 |
| 121 | Evidence for arylalkylamine N-acetyltransferase (AANAT2) expression in rainbow trout peripheral tissues with emphasis in the gastrointestinal tract. *General and Comparative Endocrinology*, **2007**, 152, 289-94 | 3 | 30 |
| 120 | Influence of testosterone administration on osmoregulation and energy metabolism of gilthead sea bream Sparus auratus. *General and Comparative Endocrinology*, **2006**, 149, 30-41 | 3 | 29 |
| 119 | Is gill cortisol concentration a good acute stress indicator in fish? A study in rainbow trout and zebrafish. *Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology*, **2015**, 188, 65-9 | 2.6 | 27 |
| 118 | Neuroendocrine and Immune Responses Undertake Different Fates following Tryptophan or Methionine Dietary Treatment: Tales from a Teleost Model. *Frontiers in Immunology*, **2017**, 8, 1226 | 8.4 | 27 |
| 117 | Effects of acute and prolonged naphthalene exposure on brain monoaminergic neurotransmitters in rainbow trout (Oncorhynchus mykiss). *Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology*, **2006**, 144, 173-83 | 3.2 | 27 |
| 116 | Effects of food deprivation on 24 h-changes in brain and liver carbohydrate and ketone body metabolism of rainbow trout. *Journal of Fish Biology*, **2000**, 57, 631-646 | 1.9 | 27 |
| 115 | Response of hepatic lipid and glucose metabolism to a mixture or single fatty acids: Possible presence of fatty acid-sensing mechanisms. *Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology*, **2013**, 164, 241-8 | 2.6 | 26 |
| 114 | Effects of dietary amino acids and repeated handling on stress response and brain monoaminergic neurotransmitters in Senegalese sole (Solea senegalensis) juveniles. *Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology*, **2012**, 161, 18-26 | 2.6 | 26 |
| 113 | Effects of food deprivation on 24h-changes in brain and liver carbohydrate and ketone body metabolism of rainbow trout. *Journal of Fish Biology*, **2000**, 57, 631-646 | 1.9 | 26 |
| 112 | Evidence of sugar sensitive genes in the gut of a carnivorous fish species. *Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology*, **2013**, 166, 58-64 | 2.3 | 25 |

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| 111 | Gradual transfer to sea water of rainbow trout: effects on liver carbohydrate metabolism. *Journal of Fish Biology*, **1995**, 47, 466-478 | 1.9 | 25 |
| 110 | Potential capacity of Senegalese sole (Solea senegalensis) to use carbohydrates: Metabolic responses to hypo- and hyper-glycaemia. *Aquaculture*, **2015**, 438, 59-67 | 4.4 | 24 |
| 109 | Uptake of tryptophan into brain of rainbow trout (Oncorhynchus mykiss) **1998**, 282, 285-289 | | 24 |
| 108 | Food deprivation and refeeding effects on pineal indoles metabolism and melatonin synthesis in the rainbow trout Oncorhynchus mykiss. *General and Comparative Endocrinology*, **2008**, 156, 410-7 | 3 | 24 |
| 107 | Changes in plasma melatonin levels and pineal organ melatonin synthesis following acclimation of rainbow trout (Oncorhynchus mykiss) to different water salinities. *Journal of Experimental Biology*, **2011**, 214, 928-36 | 3 | 23 |
| 106 | Effects of central administration of arginine vasotocin on monoaminergic neurotransmitters and energy metabolism of rainbow trout brain. *Journal of Fish Biology*, **2004**, 64, 1313-1329 | 1.9 | 23 |
| 105 | Stress inhibition of melatonin synthesis in the pineal organ of rainbow trout (Oncorhynchus mykiss) is mediated by cortisol. *Journal of Experimental Biology*, **2014**, 217, 1407-16 | 3 | 22 |
| 104 | Cholecystokinin impact on rainbow trout glucose homeostasis: possible involvement of central glucosensors. *Regulatory Peptides*, **2011**, 172, 23-9 | | 22 |
| 103 | ACTH-stimulated cortisol release from head kidney of rainbow trout is modulated by glucose concentration. *Journal of Experimental Biology*, **2013**, 216, 554-67 | 3 | 22 |
| 102 | Intracerebroventricular injections of noradrenaline affect brain energy metabolism of rainbow trout. *Physiological and Biochemical Zoology*, **2003**, 76, 663-71 | 2 | 22 |
| 101 | Gill carbohydrate metabolism of rainbow trout is modified during gradual adaptation to sea water. *Journal of Fish Biology*, **1995**, 46, 845-856 | 1.9 | 22 |
| 100 | Changes in the levels and phosphorylation status of Akt, AMPK, CREB and FoxO1 in hypothalamus of rainbow trout under conditions of enhanced glucosensing activity. *Journal of Experimental Biology*, **2017**, 220, 4410-4417 | 3 | 21 |
| 99 | Evidence for the presence in rainbow trout brain of amino acid-sensing systems involved in the control of food intake. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2018**, 314, R201-R215 | 3.2 | 21 |
| 98 | Hypothalamic fatty acid sensing in Senegalese sole (Solea senegalensis): response to long-chain saturated, monounsaturated, and polyunsaturated (n-3) fatty acids. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2015**, 309, R1521-31 | 3.2 | 21 |
| 97 | Effects of cortisol and thyroid hormone treatment on the glycogen metabolism of selected tissues of domesticated rainbow trout, Oncorhynchus mykiss. *Aquaculture*, **1992**, 101, 317-328 | 4.4 | 21 |
| 96 | Diurnal rhythms in hypothalamic/pituitary AVT synthesis and secretion in rainbow trout: evidence for a circadian regulation. *General and Comparative Endocrinology*, **2011**, 170, 541-9 | 3 | 20 |
| 95 | Indoleamines and 5-methoxyindoles in trout pineal organ in vivo: daily changes and influence of photoperiod. *General and Comparative Endocrinology*, **2005**, 144, 67-77 | 3 | 20 |
| 94 | Ceramides are involved in the regulation of food intake in rainbow trout (Oncorhynchus mykiss). *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2016**, 311, R658-R668 | 3.2 | 20 |

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| 93 | Melatonin partially minimizes the adverse stress effects in Senegalese sole (Solea senegalensis). *Aquaculture*, **2013**, 388-391, 165-172 | 4.4 | 19 |
| 92 | Daily rhythms in activity and mRNA abundance of enzymes involved in glucose and lipid metabolism in liver of rainbow trout, Oncorhynchus mykiss. Influence of light and food availability. *Chronobiology International*, **2015**, 32, 1391-408 | 3.6 | 19 |
| 91 | Effects of chronic exposure to HCH (Lindane) on brain serotonergic and gabaergic systems, and serum cortisol and thyroxine levels of rainbow trout, Oncorhynchus mykiss. *Fish Physiology and Biochemistry*, **1999**, 20, 325-330 | 2.7 | 19 |
| 90 | Hypothalamic mechanisms linking fatty acid sensing and food intake regulation in rainbow trout. *Journal of Molecular Endocrinology*, **2017**, 59, 377-390 | 4.5 | 18 |
| 89 | A simple melatonin treatment protocol attenuates the response to acute stress in the sole Solea senegalensis. *Aquaculture*, **2016**, 452, 272-282 | 4.4 | 18 |
| 88 | Influence of vegetable diets on physiological and immune responses to thermal stress in Senegalese sole (Solea senegalensis). *PLoS ONE*, **2018**, 13, e0194353 | 3.7 | 18 |
| 87 | Effects of naphthalene, beta-naphthoflavone and benzo(a)pyrene on the diurnal and nocturnal indoleamine metabolism and melatonin content in the pineal organ of rainbow trout, Oncorhynchus mykiss. *Aquatic Toxicology*, **2009**, 92, 1-8 | 5.1 | 18 |
| 86 | Actions of 17 estradiol on carbohydrate metabolism in liver, gills, and brain of gilthead sea bream Sparus auratus during acclimation to different salinities. *Marine Biology*, **2005**, 146, 607-617 | 2.5 | 18 |
| 85 | Counter-regulatory response to a fall in circulating fatty acid levels in rainbow trout. Possible involvement of the hypothalamus-pituitary-interrenal axis. *PLoS ONE*, **2014**, 9, e113291 | 3.7 | 18 |
| 84 | CRF treatment induces a readjustment in glucosensing capacity in the hypothalamus and hindbrain of rainbow trout. *Journal of Experimental Biology*, **2011**, 214, 3887-94 | 3 | 17 |
| 83 | 60 YEARS OF POMC: POMC: an evolutionary perspective. *Journal of Molecular Endocrinology*, **2016**, 56, T113-8 | 4.5 | 16 |
| 82 | In vitro response of putative fatty acid-sensing systems in rainbow trout liver to increased levels of oleate or octanoate. *Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology*, **2013**, 165, 288-94 | 2.6 | 16 |
| 81 | Glucose and lipid metabolism in the pancreas of rainbow trout is regulated at the molecular level by nutritional status and carbohydrate intake. *Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology*, **2012**, 182, 507-16 | 2.2 | 16 |
| 80 | Osmoregulatory action of 17beta-estradiol in the gilthead sea bream Sparus auratus. *Journal of Experimental Zoology Part A, Comparative Experimental Biology*, **2004**, 301, 828-36 | | 16 |
| 79 | Ghrelin effects on central glucosensing and energy homeostasis-related peptides in rainbow trout. *Domestic Animal Endocrinology*, **2011**, 41, 126-36 | 2.3 | 15 |
| 78 | Response of rainbow trout's (Oncorhynchus mykiss) hypothalamus to glucose and oleate assessed through transcription factors BSX, ChREBP, CREB, and FoxO1. *Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology*, **2018**, 204, 893-904 | 2.3 | 15 |
| 77 | Effects of insulin treatment on the response to oleate and octanoate of food intake and fatty acid-sensing systems in rainbow trout. *Domestic Animal Endocrinology*, **2015**, 53, 124-35 | 2.3 | 14 |
| 76 | Short- and long-term metabolic responses to diets with different protein:carbohydrate ratios in Senegalese sole (Solea senegalensis, Kaup 1858). *British Journal of Nutrition*, **2016**, 115, 1896-910 | 3.6 | 14 |

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| 75 | Intracerebroventricular ghrelin treatment affects lipid metabolism in liver of rainbow trout (Oncorhynchus mykiss). *General and Comparative Endocrinology*, **2016**, 228, 33-39 | 3 | 14 |
| 74 | Melatonin treatment alters glucosensing capacity and mRNA expression levels of peptides related to food intake control in rainbow trout hypothalamus. *General and Comparative Endocrinology*, **2012**, 178, 131-8 | 3 | 14 |
| 73 | Is plasma cortisol response to stress in rainbow trout regulated by catecholamine-induced hyperglycemia?. *General and Comparative Endocrinology*, **2014**, 205, 207-17 | 3 | 14 |
| 72 | Immunohistochemical localization of glucokinase in rainbow trout brain. *Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology*, **2009**, 153, 352-8 | 2.6 | 14 |
| 71 | Dose-dependent effects of acute melatonin treatments on brain carbohydrate metabolism of rainbow trout. *Fish Physiology and Biochemistry*, **1998**, 18, 311-319 | 2.7 | 14 |
| 70 | Interactive effects of naphthalene treatment and the onset of vitellogenesis on energy metabolism in liver and gonad, and plasma steroid hormones of rainbow trout Oncorhynchus mykiss. *Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology*, **2006**, 144, 155-65 | 3.2 | 14 |
| 69 | Glucagon effects on brain carbohydrate and ketone body metabolism of rainbow trout. *The Journal of Experimental Zoology*, **2001**, 290, 662-71 | | 13 |
| 68 | Food intake inhibition in rainbow trout induced by activation of serotonin 5-HT2C receptors is associated with increases in POMC, CART and CRF mRNA abundance in hypothalamus. *Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology*, **2016**, 186, 313-21 | 2.2 | 13 |
| 67 | Influence of light and food on the circadian clock in liver of rainbow trout, Oncorhynchus mykiss. *Chronobiology International*, **2017**, 34, 1259-1272 | 3.6 | 12 |
| 66 | Effects of intracerebroventricular treatment with oleate or octanoate on fatty acid metabolism in Brockmann bodies and liver of rainbow trout. *Aquaculture Nutrition*, **2015**, 21, 194-205 | 3.2 | 12 |
| 65 | Effects of an acute exposure to lindane (gamma-hexachlorocyclohexane) on brain and liver carbohydrate metabolism of rainbow trout. *Ecotoxicology and Environmental Safety*, **1997**, 38, 99-107 | 7 | 12 |
| 64 | Variations in carbohydrate metabolism during gonad maturation in female turbot (Scophthalmus maximus). *Marine Biology*, **1995**, 123, 11-18 | 2.5 | 12 |
| 63 | In vitro evidence supports the presence of glucokinase-independent glucosensing mechanisms in hypothalamus and hindbrain of rainbow trout. *Journal of Experimental Biology*, **2016**, 219, 1750-9 | 3 | 12 |
| 62 | Feeding Stimulation Ability and Central Effects of Intraperitoneal Treatment of L-Leucine, L-Valine, and L-Proline on Amino Acid Sensing Systems in Rainbow Trout: Implication in Food Intake Control. *Frontiers in Physiology*, **2018**, 9, 1209 | 4.6 | 12 |
| 61 | The effect of seawater transfer in liver carbohydrate metabolism of domesticated rainbow trout (Oncorhynchus mykiss). *Comparative Biochemistry and Physiology Part B: Comparative Biochemistry*, **1993**, 105, 337-343 | | 11 |
| 60 | Glucosensing capacity in rainbow trout liver displays day-night variations possibly related to melatonin action. *Journal of Experimental Biology*, **2012**, 215, 3112-9 | 3 | 10 |
| 59 | Melatonin treatment affects the osmoregulatory capacity of rainbow trout. *Aquaculture Research*, **2007**, 38, 325-330 | 1.9 | 10 |
| 58 | Uptake of 3-O-methyl-D-[U-14C]glucose into brain of rainbow trout: possible effects of melatonin. *Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology*, **2000**, 170, 237-43 | 2.2 | 10 |

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| 57 | The effect of gradual transfer to sea water on muscle carbohydrate metabolism of rainbow trout. *Journal of Fish Biology*, **1995**, 46, 509-523 | 1.9 | 10 |
| 56 | Changes in carbohydrate metabolism related to the onset of ovarian recrudescence in dmesticated rainbow trout (Oncorhynchus mykiss). *Comparative Biochemistry and Physiology A, Comparative Physiology*, **1993**, 105, 293-301 | | 10 |
| 55 | The gut-brain axis in vertebrates: implications for food intake regulation. *Journal of Experimental Biology*, **2021**, 224, | 3 | 10 |
| 54 | Nesfatin-1 Regulates Feeding, Glucosensing and Lipid Metabolism in Rainbow Trout. *Frontiers in Endocrinology*, **2018**, 9, 484 | 5.7 | 10 |
| 53 | The short-term presence of oleate or octanoate alters the phosphorylation status of Akt, AMPK, mTOR, CREB, and FoxO1 in liver of rainbow trout (Oncorhynchus mykiss). *Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology*, **2018**, 219-220, 17-25 | 2.3 | 9 |
| 52 | Evolutionary history of glucose-6-phosphatase encoding genes in vertebrate lineages: towards a better understanding of the functions of multiple duplicates. *BMC Genomics*, **2017**, 18, 342 | 4.5 | 9 |
| 51 | Seasonal changes in carbohydrate metabolism in the rainbow trout (Oncorhynchus mykiss) and their relationship to changes in gill (Na+-K+)-ATPase activity. *Aquaculture*, **1992**, 108, 369-380 | 4.4 | 9 |
| 50 | Ceramide counteracts the effects of ghrelin on the metabolic control of food intake in rainbow trout. *Journal of Experimental Biology*, **2017**, 220, 2563-2576 | 3 | 8 |
| 49 | Glucosensing capacity of rainbow trout telencephalon. *Journal of Neuroendocrinology*, **2018**, 30, e12583 | 3.8 | 8 |
| 48 | Short-term exposure to repeated chasing stress does not induce habituation in Senegalese sole, Solea senegalensis. *Aquaculture*, **2018**, 487, 32-40 | 4.4 | 8 |
| 47 | Dietary protein/carbohydrate ratio in low-lipid diets for Senegalese sole (Solea senegalensis, Kaup 1858) juveniles. Influence on growth performance, nutrient utilization and flesh quality. *Aquaculture Nutrition*, **2018**, 24, 131-142 | 3.2 | 8 |
| 46 | Glucosensing in liver and Brockmann bodies of rainbow trout through glucokinase-independent mechanisms. *Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology*, **2016**, 199, 29-42 | 2.3 | 8 |
| 45 | A hepatic protein modulates glucokinase activity in fish and avian liver: a comparative study. *Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology*, **2009**, 179, 643-52 | 2.2 | 8 |
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