EncarnaciÃ³n Capilla

List of Publications by Year
in descending order

93 papers	3,260 citations	126858 33 h-index	161767 54 g-index
95 all docs	95 docs citations	95 times ranked	2759 citing authors

#	Article	IF	Citations
1	Adipogenesis is inhibited by brief, daily exposure to high-frequency, extremely low-magnitude mechanical signals. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 17879-17884.	3.3	255
2	Mechanical Stimulation of Mesenchymal Stem Cell Proliferation and Differentiation Promotes Osteogenesis While Preventing Dietary-Induced Obesity. Journal of Bone and Mineral Research, 2009, 24, 50-61.	3.1	232
3	Glucokinase is highly induced and glucose-6-phosphatase poorly repressed in liver of rainbow trout (Oncorhynchus mykiss) by a single meal with glucose. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2001, 128, 275-283.	0.7	131
4	Role of insulin, insulin-like growth factors, and muscle regulatory factors in the compensatory growth of the trout (Oncorhynchus mykiss). General and Comparative Endocrinology, 2007, 150, 462-472.	0.8	115
5	Development of Hepatocellular Carcinoma in <i>Iqgap2</i>-Deficient Mice Is IQGAP1 Dependent. Molecular and Cellular Biology, 2008, 28, 1489-1502.	1.1	112
6	Understanding fish muscle growth regulation to optimize aquaculture production. Aquaculture, 2017, 467, 28-40.	1.7	102
7	Insulin regulation of lipoprotein lipase (LPL) activity and expression in gilthead sea bream (Sparus) Tj ETQq1 1 0.784314 rgBT /Overlock 151-159.	0.7	95
8	In vivo quantification of subcutaneous and visceral adiposity by micro-computed tomography in a small animal model. Medical Engineering and Physics, 2009, 31, 34-41.	0.8	94
9	Molecular identification of a glucose transporter from fish muscle1. FEBS Letters, 2000, 481, 266-270.	1.3	80
10	Muscle insulin binding and plasma levels in relation to liver glucokinase activity, glucose metabolism and dietary carbohydrates in rainbow trout. Regulatory Peptides, 2003, 110, 123-132.	1.9	76
11	Insights into Insulin and Glucagon Responses in Fish. Fish Physiology and Biochemistry, 2002, 27, 205-216.	0.9	68
12	IGF-I and amino acids effects through TOR signaling on proliferation and differentiation of gilthead sea bream cultured myocytes. General and Comparative Endocrinology, 2014, 205, 296-304.	0.8	59
13	Physiological regulation of the expression of a GLUT4 homolog in fish skeletal muscle. American Journal of Physiology - Endocrinology and Metabolism, 2002, 283, E44-E49.	1.8	57
14	Functional characterization of an insulin-responsive glucose transporter (GLUT4) from fish adipose tissue. American Journal of Physiology - Endocrinology and Metabolism, 2004, 287, E348-E357.	1.8	53
15	Differential effects on proliferation of GH and IGFs in sea bream (Sparus aurata) cultured myocytes. General and Comparative Endocrinology, 2011, 172, 44-49.	0.8	52
16	Characterisation and expression of myogenesis regulatory factors during in vitro myoblast development and in vivo fasting in the gilthead sea bream (Sparus aurata). Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2014, 167, 90-99.	0.8	52
17	Effects of nutritional status on plasma leptin levels and in vitro regulation of adipocyte leptin expression and secretion in rainbow trout. General and Comparative Endocrinology, 2015, 210, 114-123.	0.8	50
18	Characterisation and Expression of Calpain Family Members in Relation to Nutritional Status, Diet Composition and Flesh Texture in Gilthead Sea Bream (Sparus aurata). PLoS ONE, 2013, 8, e75349.	1.1	50

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19	Distinct role of insulin and IGF-I and its receptors in white skeletal muscle during the compensatory growth of gilthead sea bream (Sparus aurata). Aquaculture, 2007, 267, 188-198.	1.7	49
20	Insulin-like growth factors effects on the expression of myogenic regulatory factors in gilthead sea bream muscle cells. General and Comparative Endocrinology, 2013, 188, 151-158.	0.8	49
21	Glucagon and insulin response to dietary carbohydrate in rainbow trout (Oncorhynchus mykiss). General and Comparative Endocrinology, 2004, 139, 48-54.	0.8	48
22	Fish Glucose Transporter (GLUT)-4 Differs from Rat GLUT4 in Its Traffic Characteristics but Can Translocate to the Cell Surface in Response to Insulin in Skeletal Muscle Cells. Endocrinology, 2007, 148, 5248-5257.	1.4	48
23	Lysine and Leucine Deficiencies Affect Myocytes Development and IGF Signaling in Gilthead Sea Bream (Sparus aurata). PLoS ONE, 2016, 11, e0147618.	1.1	48
24	Metabolic changes in Brycon cephalus (Teleostei, Characidae) during post-feeding and fasting. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2002, 132, 467-476.	0.8	47
25	Insulin and insulin-like growth factor I signaling pathways in rainbow trout (Oncorhynchus mykiss) during adipogenesis and their implication in glucose uptake. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2010, 299, R33-R41.	0.9	47
26	Growth-promoting effects of sustained swimming in fingerlings of gilthead sea bream (Sparus aurata) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 185, 859-868.	0.7	43
27	Evolutionary structural and functional conservation of an ortholog of the GLUT2 glucose transporter gene (SLC2A2) in zebrafish. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2009, 297, R1570-R1581.	0.9	42
28	Metabolic Effects of Insulin and IGFs on Gilthead Sea Bream (Sparus aurata) Muscle Cells. Frontiers in Endocrinology, 2012, 3, 55.	1.5	41
29	Insulin and IGF-I receptors in trout adipose tissue are physiologically regulated by circulating hormone levels. Journal of Experimental Biology, 2000, 203, 1153-1159.	0.8	41
30	Adipose tissue and liver metabolic responses to different levels of dietary carbohydrates in gilthead sea bream (Sparus aurata). Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2014, 175, 72-81.	0.8	39
31	Insulin and IGF-I receptors in trout adipose tissue are physiologically regulated by circulating hormone levels. Journal of Experimental Biology, 2000, 203, 1153-9.	0.8	39
32	Response of hexokinase enzymes and the insulin system to dietary carbohydrates in the common carp,Cyprinus carpio. Reproduction, Nutrition, Development, 2004, 44, 233-242.	1.9	37
33	Characterisation and expression analysis of cathepsins and ubiquitin-proteasome genes in gilthead sea bream (Sparus aurata) skeletal muscle. BMC Research Notes, 2015, 8, 149.	0.6	36
34	Recombinant bovine growth hormone (rBGH) enhances somatic growth by regulating the GH-IGF axis in fingerlings of gilthead sea bream (Sparus aurata). General and Comparative Endocrinology, 2018, 257, 192-202.	0.8	36
35	Insulin and IGF-I effects on the proliferation of an osteoblast primary culture from sea bream (Sparus) Tj ETQq1 1 0.784314 rgBT /Overlo	0.8	34
36	Roles of leptin and ghrelin in adipogenesis and lipid metabolism of rainbow trout adipocytes in vitro. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2015, 188, 40-48.	0.8	33

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37	IGF-I and IGF-II effects on local IGF system and signaling pathways in gilthead sea bream (Sparus aurata) cultured myocytes. General and Comparative Endocrinology, 2016, 232, 7-16.	0.8	33
38	Gene expression profile during proliferation and differentiation of rainbow trout adipocyte precursor cells. BMC Genomics, 2017, 18, 347.	1.2	33
39	Effects of sustained exercise on GH-IGFs axis in gilthead sea bream (<i>Sparus aurata</i>). American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2016, 310, R313-R322.	0.9	32
40	Physiological regulation of glucose transporter (GLUT4) protein content in brown trout (Salmo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62	0.8	31
41	Regulation of lipoprotein lipase gene expression by insulin and troglitazone in rainbow trout (Oncorhynchus mykiss) adipocyte cells in culture. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2012, 161, 83-88.	0.8	31
42	Interplay of adiponectin, TNFÎ± and insulin on gene expression, glucose uptake and PPARÎ³, AKT and TOR pathways in rainbow trout cultured adipocytes. General and Comparative Endocrinology, 2014, 205, 218-225.	0.8	31
43	Entry of Newly Synthesized GLUT4 into the Insulin-responsive Storage Compartment Is Dependent upon Both the Amino Terminus and the Large Cytoplasmic Loop. Journal of Biological Chemistry, 2004, 279, 37505-37511.	1.6	30
44	Fish Insulin, IGF-I and IGF-II Receptors: A Phylogenetic Approach1. American Zoologist, 2000, 40, 223-233.	0.7	29
45	Tributyltin and triphenyltin exposure promotes in vitro adipogenic differentiation but alters the adipocyte phenotype in rainbow trout. Aquatic Toxicology, 2017, 188, 148-158.	1.9	27
46	Characterization and endocrine regulation of proliferation and differentiation of primary cultured preadipocytes from gilthead sea bream (Sparus aurata). Domestic Animal Endocrinology, 2013, 45, 1-10.	0.8	26
47	Effects of different dietary vegetable oils on growth and intestinal performance, lipid metabolism and flesh quality in gilthead sea bream. Aquaculture, 2020, 519, 734881.	1.7	25
48	Contribution of in vitro myocytes studies to understanding fish muscle physiology. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2016, 199, 67-73.	0.7	24
49	Temperature Affects Musculoskeletal Development and Muscle Lipid Metabolism of Gilthead Sea Bream (Sparus aurata). Frontiers in Endocrinology, 2019, 10, 173.	1.5	24
50	Moderate and sustained exercise modulates muscle proteolytic and myogenic markers in gilthead sea bream (<i>Sparus aurata</i>). American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2017, 312, R643-R653.	0.9	22
51	Temperature responsiveness of gilthead sea bream bone; an in vitro and in vivo approach. Scientific Reports, 2018, 8, 11211.	1.6	21
52	The Glucose Transporter 4 FQQI Motif Is Necessary for Akt Substrate of 160-Kilodalton-Dependent Plasma Membrane Translocation But Not Golgi-Localized Î³-Ear-Containing Arf-Binding Protein-Dependent Entry into the Insulin-Responsive Storage Compartment. Molecular Endocrinology, 2007, 21, 3087-3099.	3.7	20
53	Proteolytic systemsâ€™ expression during myogenesis and transcriptional regulation by amino acids in gilthead sea bream cultured muscle cells. PLoS ONE, 2017, 12, e0187339.	1.1	20
54	Fatty acids from fish or vegetable oils promote the adipogenic fate of mesenchymal stem cells derived from gilthead sea bream bone potentially through different pathways. PLoS ONE, 2019, 14, e0215926.	1.1	20

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55	Regulatory mechanisms involved in muscle and bone remodeling during refeeding in gilthead sea bream. Scientific Reports, 2020, 10, 184.	1.6	19
56	A long-term growth hormone treatment stimulates growth and lipolysis in gilthead sea bream juveniles. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2019, 232, 67-78.	0.8	18
57	Adipogenic Gene Expression in Gilthead Sea Bream Mesenchymal Stem Cells from Different Origin. Frontiers in Endocrinology, 2016, 7, 113.	1.5	17
58	Ghrelin and Its Receptors in Gilthead Sea Bream: Nutritional Regulation. Frontiers in Endocrinology, 2018, 9, 399.	1.5	17
59	Development of diet-induced fatty liver disease in the aging mouse is suppressed by brief daily exposure to low-magnitude mechanical signals. International Journal of Obesity, 2010, 34, 401-405.	1.6	16
60	Photoperiod Manipulation Affects Transcriptional Profile of Genes Related to Lipid Metabolism and Apoptosis in Zebrafish (Danio rerio) Larvae: Potential Roles of Gut Microbiota. Microbial Ecology, 2020, 79, 933-946.	1.4	16
61	The probiotic Lactobacillus rhamnosus mimics the dark-driven regulation of appetite markers and melatonin receptors' expression in zebrafish (Danio rerio) larvae: Understanding the role of the gut microbiome. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2021, 256, 110634.	0.7	14
62	Title is missing!. Fish Physiology and Biochemistry, 2001, 24, 31-39.	0.9	13
63	Effect of guar gum on glucose and lipid metabolism in white sea bream Diplodus sargus. Fish Physiology and Biochemistry, 2013, 39, 159-169.	0.9	13
64	Caffeic acid and hydroxytyrosol have anti-obesogenic properties in zebrafish and rainbow trout models. PLoS ONE, 2017, 12, e0178833.	1.1	13
65	Breeding selection of rainbow trout for high or low muscle adiposity differentially affects lipogenic capacity and lipid mobilization strategies to cope with food deprivation. Aquaculture, 2018, 495, 161-171.	1.7	11
66	Dietary protein source and protein/carbohydrate ratio affects appetite regulation-related genes expression in gilthead seabream (Sparus aurata). Aquaculture, 2021, 533, 736142.	1.7	11
67	Fish Insulin, IGF-I and IGF-II Receptors: A Phylogenetic Approach. American Zoologist, 2000, 40, 223-233.	0.7	10
68	High basal cell surface levels of fish GLUT4 are related to reduced sensitivity of insulin-induced translocation toward GGA and AS160 inhibition in adipocytes. American Journal of Physiology - Endocrinology and Metabolism, 2010, 298, E329-E336.	1.8	10
69	Gene expression analyses in malformed skeletal structures of gilthead sea bream (<i>Sparus) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf	0.9	10
70	Short-Term Responses to Fatty Acids on Lipid Metabolism and Adipogenesis in Rainbow Trout (Oncorhynchus mykiss). International Journal of Molecular Sciences, 2020, 21, 1623.	1.8	9
71	Dietary protein/carbohydrate ratio and feeding frequency affect feed utilization, intermediary metabolism, and economic efficiency of gilthead seabream (Sparus aurata) juveniles. Aquaculture, 2022, 554, 738182.	1.7	9
72	Structural and Functional Evolution of Glucose Transporter 4 (GLUT4): A Look at GLUT4 in Fish. , 2014, , .		7

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73	Genistein Induces Adipogenic and Autophagic Effects in Rainbow Trout (Oncorhynchus mykiss) Adipose Tissue: In Vitro and In Vivo Models. International Journal of Molecular Sciences, 2020, 21, 5884.	1.8	7
74	Metabolic responses to glucoprivation induced by 2-deoxy-D-glucose in Brycon cephalus (Teleostei,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 Physiology, 2004, 174, 91-96.	0.7	6
75	The combination of palm and rapeseed oils emerges as a good dietary alternative for optimal growth and balanced lipid accumulation in juvenile gilthead sea bream reared at an elevated temperature. Aquaculture, 2020, 526, 735396.	1.7	6
76	Dietary supplementation with Aloe vera induces hepatic steatosis and oxidative stress together with a disruption of cellular signaling pathways and lipid metabolism related genes' expression in gilthead sea bream (Sparus aurata). Aquaculture, 2022, 559, 738433.	1.7	6
77	Dietary fructose does not specifically induce hepatic glucokinase expression in rainbow trout. Journal of Fish Biology, 2001, 59, 455-458.	0.7	5
78	Effects of Î²2-adrenoceptor agonists on gilthead sea bream (Sparus aurata) cultured muscle cells. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2019, 227, 179-193.	0.8	5
79	Characterization data of gilthead sea bream (Sparus aurata) IGF-I receptors (IGF-IRa/Rb). Data in Brief, 2016, 6, 507-513.	0.5	4
80	Musculoskeletal Growth Modulation in Gilthead Sea Bream Juveniles Reared at High Water Temperature and Fed with Palm and Rapeseed Oils-Based Diets. Animals, 2021, 11, 260.	1.0	4
81	Gilthead seabream (Sparus aurata) in vitro adipogenesis and its endocrine regulation by leptin, ghrelin, and insulin. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2020, 249, 110772.	0.8	3
82	Vertebrate SLRP family evolution and the subfunctionalization of osteoglycin gene duplicates in teleost fish. BMC Evolutionary Biology, 2018, 18, 191.	3.2	2
83	The autophagy response during adipogenesis of primary cultured rainbow trout (Oncorhynchus) Tj ETQq1 1 0.784314 rgBT /Overlock 2022, 258, 110700.	0.7	2
84	Effect of Dietary Plant Feedstuffs and Protein/Carbohydrate Ratio on Gilthead Seabream (Sparus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.7	2
85	Effects of Feeding Frequency and Dietary Protein/Carbohydrate Ratios on Gilthead Seabream (Sparus) Tj ETQq1 1 0.784314 rgBT /Ove	1.1	2
86	Recombinant Bovine Growth Hormone-Induced Metabolic Remodelling Enhances Growth of Gilthead Sea-Bream (Sparus aurata): Insights from Stable Isotopes Composition and Proteomics. International Journal of Molecular Sciences, 2021, 22, 13107.	1.8	2
87	Application of a daily low magnitude mechanical signal reduces adiposity in male mice. , 2007, , .		0
88	The special issue on the 17th International Congress of Comparative Endocrinology, (ICCE 2013). General and Comparative Endocrinology, 2014, 205, 1-3.	0.8	0
89	Editorial: Control of Adipocyte Differentiation and Metabolism. Frontiers in Endocrinology, 2015, 6, 132.	1.5	0
90	Research on Skeletal Muscle Diseases Using Pluripotent Stem Cells. , 0, , .		0

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91	Editorial: Nutritional and Environmental Modulation of the Endocrine System: Effects on Metabolism and Growth. Frontiers in Endocrinology, 2019, 10, 354.	1.5	0
92	Hepatocellular carcinoma in IQGAP2-deficient mice and evaluation of IQGAP2 as a potential novel tumor suppressor gene. Journal of Clinical Oncology, 2008, 26, 4600-4600.	0.8	0
93	Feeding frequency and dietary protein/carbohydrate ratio affect feed intake and appetite regulation-related genes expression in gilthead seabream (Sparus aurata). Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2022, 267, 111168.	0.8	0