

Josep Ivar Calduch-Giner

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98
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33
h-index

54
g-index

105
ext. papers

4,622
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#	Paper	IF	Citations
98	Protein growth performance, amino acid utilisation and somatotropic axis responsiveness to fish meal replacement by plant protein sources in gilthead sea bream (<i>Sparus aurata</i>). <i>Aquaculture</i> , 2004 , 232, 493-510	4.4	315
97	Growth performance and adiposity in gilthead sea bream (<i>Sparus aurata</i>): risks and benefits of high energy diets. <i>Aquaculture</i> , 1999 , 171, 279-292	4.4	159
96	Combined replacement of fish meal and oil in practical diets for fast growing juveniles of gilthead sea bream (<i>Sparus aurata</i> L.): Networking of systemic and local components of GH/IGF axis. <i>Aquaculture</i> , 2007 , 267, 199-212	4.4	129
95	Effects of dietary amino acid profile on growth performance, key metabolic enzymes and somatotropic axis responsiveness of gilthead sea bream (<i>Sparus aurata</i>). <i>Aquaculture</i> , 2003 , 220, 749-767	4.4	125
94	Duplication of growth hormone receptor (GHR) in fish genome: gene organization and transcriptional regulation of GHR type I and II in gilthead sea bream (<i>Sparus aurata</i>). <i>General and Comparative Endocrinology</i> , 2005 , 142, 193-203	3	106
93	Under control: how a dietary additive can restore the gut microbiome and proteomic profile, and improve disease resilience in a marine teleostean fish fed vegetable diets. <i>Microbiome</i> , 2017 , 5, 164	16.6	101
92	Mucins as diagnostic and prognostic biomarkers in a fish-parasite model: transcriptional and functional analysis. <i>PLoS ONE</i> , 2013 , 8, e65457	3.7	79
91	Molecular characterization of gilthead sea bream (<i>Sparus aurata</i>) lipoprotein lipase. Transcriptional regulation by season and nutritional condition in skeletal muscle and fat storage tissues. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2005 , 142, 224-32	2.3	78
90	Protein sparing effect of dietary lipids in common dentex (<i>Dentex labrax</i>): A comparative study with sea bream (<i>Sparus aurata</i>) and sea bass (<i>Dicentrarchus labrax</i>). <i>Aquatic Living Resources</i> , 1999 , 12, 23-30	1.5	70
89	Dietary Butyrate Helps to Restore the Intestinal Status of a Marine Teleost (<i>Sparus aurata</i>) Fed Extreme Diets Low in Fish Meal and Fish Oil. <i>PLoS ONE</i> , 2016 , 11, e0166564	3.7	70
88	Dynamics of liver GH/IGF axis and selected stress markers in juvenile gilthead sea bream (<i>Sparus aurata</i>) exposed to acute confinement: differential stress response of growth hormone receptors. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2009 , 154, 197-203	2.6	68
87	Chronic exposure to the parasite <i>Enteromyxum leei</i> (Myxozoa: Myxosporea) modulates the immune response and the expression of growth, redox and immune relevant genes in gilthead sea bream, <i>Sparus aurata</i> L. <i>Fish and Shellfish Immunology</i> , 2008 , 24, 610-9	4.3	66
86	Dietary vegetable oils do not alter the intestine transcriptome of gilthead sea bream (<i>Sparus aurata</i>), but modulate the transcriptomic response to infection with <i>Enteromyxum leei</i> . <i>BMC Genomics</i> , 2012 , 13, 470	4.5	64
85	Differential Modulation of IgT and IgM upon Parasitic, Bacterial, Viral, and Dietary Challenges in a Perciform Fish. <i>Frontiers in Immunology</i> , 2016 , 7, 637	8.4	64
84	Deep sequencing for de novo construction of a marine fish (<i>Sparus aurata</i>) transcriptome database with a large coverage of protein-coding transcripts. <i>BMC Genomics</i> , 2013 , 14, 178	4.5	60
83	Use of microarray technology to assess the time course of liver stress response after confinement exposure in gilthead sea bream (<i>Sparus aurata</i> L.). <i>BMC Genomics</i> , 2010 , 11, 193	4.5	60
82	Overview of Fish Growth Hormone Family. New Insights in Genomic Organization and Heterogeneity of Growth Hormone Receptors. <i>Fish Physiology and Biochemistry</i> , 2002 , 27, 243-258	2.7	58

81	Molecular cloning and characterization of gilthead sea bream (<i>Sparus aurata</i>) growth hormone receptor (GHR). Assessment of alternative splicing. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2003 , 136, 1-13	2.3	58
80	Molecular characterization and expression analysis of six peroxiredoxin paralogous genes in gilthead sea bream (<i>Sparus aurata</i>): insights from fish exposed to dietary, pathogen and confinement stressors. <i>Fish and Shellfish Immunology</i> , 2011 , 31, 294-302	4.3	56
79	Lasting effects of butyrate and low FM/FO diets on growth performance, blood haematology/biochemistry and molecular growth-related markers in gilthead sea bream (<i>Sparus aurata</i>). <i>Aquaculture</i> , 2016 , 454, 8-18	4.4	51
78	Molecular profiling of the gilthead sea bream (<i>Sparus aurata</i> L.) response to chronic exposure to the myxosporean parasite <i>Enteromyxum leei</i> . <i>Molecular Immunology</i> , 2011 , 48, 2102-12	4.3	50
77	Interleukin gene expression is strongly modulated at the local level in a fish-parasite model. <i>Fish and Shellfish Immunology</i> , 2014 , 37, 201-8	4.3	48
76	Effects of dietary NEXT ENHANCE [®] 150 on growth performance and expression of immune and intestinal integrity related genes in gilthead sea bream (<i>Sparus aurata</i> L.). <i>Fish and Shellfish Immunology</i> , 2015 , 44, 117-28	4.3	47
75	Modulation of the IgM gene expression and IgM immunoreactive cell distribution by the nutritional background in gilthead sea bream (<i>Sparus aurata</i>) challenged with <i>Enteromyxum leei</i> (Myxozoa). <i>Fish and Shellfish Immunology</i> , 2012 , 33, 401-10	4.3	45
74	Growth hormone as an in vitro phagocyte-activating factor in the gilthead sea bream (<i>Sparus aurata</i>). <i>Cell and Tissue Research</i> , 1997 , 287, 535-40	4.2	45
73	Regulation of the somatotropic axis by dietary factors in rainbow trout (<i>Oncorhynchus mykiss</i>). <i>British Journal of Nutrition</i> , 2005 , 94, 353-61	3.6	45
72	Unraveling the molecular signatures of oxidative phosphorylation to cope with the nutritionally changing metabolic capabilities of liver and muscle tissues in farmed fish. <i>PLoS ONE</i> , 2015 , 10, e0122889	3.7	42
71	Dietary supplementation of heat-treated and seaweeds enhanced acute hypoxia tolerance in gilthead sea bream (<i>Sparus aurata</i>). <i>Biology Open</i> , 2017 , 6, 897-908	2.2	40
70	Skin Mucus of Gilthead Sea Bream (<i>Sparus aurata</i> L.). Protein Mapping and Regulation in Chronically Stressed Fish. <i>Frontiers in Physiology</i> , 2017 , 8, 34	4.6	39
69	Conjugated linoleic acid affects lipid composition, metabolism, and gene expression in gilthead sea bream (<i>Sparus aurata</i> L.). <i>Journal of Nutrition</i> , 2007 , 137, 1363-9	4.1	39
68	Effect of ration size on fillet fatty acid composition, phospholipid allostasis and mRNA expression patterns of lipid regulatory genes in gilthead sea bream (<i>Sparus aurata</i>). <i>British Journal of Nutrition</i> , 2013 , 109, 1175-87	3.6	37
67	Expression and characterization of European sea bass (<i>Dicentrarchus labrax</i>) somatolactin: assessment of in vivo metabolic effects. <i>Marine Biotechnology</i> , 2003 , 5, 92-101	3.4	37
66	Targets for TNF α -induced lipolysis in gilthead sea bream (<i>Sparus aurata</i> L.) adipocytes isolated from lean and fat juvenile fish. <i>Journal of Experimental Biology</i> , 2009 , 212, 2254-60	3	36
65	Fish Growth Hormone Receptor: Molecular Characterization of Two Membrane-Anchored Forms		33
64	Olive oil bioactive compounds increase body weight, and improve gut health and integrity in gilthead sea bream (<i>Sparus aurata</i>). <i>British Journal of Nutrition</i> , 2017 , 117, 351-363	3.6	32

63	Gene Expression Profiling Reveals Functional Specialization along the Intestinal Tract of a Carnivorous Teleostean Fish (<i>Dicentrarchus labrax</i>). <i>Frontiers in Physiology</i> , 2016 , 7, 359	4.6	32
62	Somatotropic Axis Regulation Unravels the Differential Effects of Nutritional and Environmental Factors in Growth Performance of Marine Farmed Fishes. <i>Frontiers in Endocrinology</i> , 2018 , 9, 687	5.7	32
61	Transcriptional assessment by microarray analysis and large-scale meta-analysis of the metabolic capacity of cardiac and skeletal muscle tissues to cope with reduced nutrient availability in Gilthead Sea Bream (<i>Sparus aurata</i> L.). <i>Marine Biotechnology</i> , 2014 , 16, 423-35	3.4	31
60	Co-expression of IGFs and GH receptors (GHRs) in gilthead sea bream (<i>Sparus aurata</i> L.): sequence analysis of the GHR-flanking region. <i>Journal of Endocrinology</i> , 2007 , 194, 361-72	4.7	31
59	Tumour necrosis factor (TNF)alpha as a regulator of fat tissue mass in the Mediterranean gilthead sea bream (<i>Sparus aurata</i> L.). <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2007 , 146, 338-45	2.3	31
58	Modulation of the respiratory burst activity of Mediterranean sea bass (<i>Dicentrarchus labrax</i> L.) phagocytes by growth hormone and parasitic status. <i>Fish and Shellfish Immunology</i> , 1998 , 8, 25-36	4.3	31
57	Dietary oils mediate cortisol kinetics and the hepatic mRNA expression profile of stress-responsive genes in gilthead sea bream (<i>Sparus aurata</i>) exposed to crowding stress. Implications on energy homeostasis and stress susceptibility. <i>Comparative Biochemistry and Physiology Part D: Genomics and Proteomics</i> , 2013 , 8, 123-30	2	30
56	The use of recombinant gilthead sea bream (<i>Sparus aurata</i>) growth hormone for radioiodination and standard preparation in radioimmunoassay. <i>Comparative Biochemistry and Physiology A, Comparative Physiology</i> , 1995 , 110, 335-40		30
55	Impact of low fish meal and fish oil diets on the performance, sex steroid profile and male-female sex reversal of gilthead sea bream (<i>Sparus aurata</i>) over a three-year production cycle. <i>Aquaculture</i> , 2018 , 490, 64-74	4.4	29
54	Differential metabolic and gene expression profile of juvenile common dentex (<i>Dentex dentex</i> L.) and gilthead sea bream (<i>Sparus aurata</i> L.) in relation to redox homeostasis. <i>Aquaculture</i> , 2007 , 267, 213-224	4.4	27
53	Recombinant somatotactin as a stable and bioactive protein in a cell culture bioassay: development and validation of a sensitive and reproducible radioimmunoassay. <i>Journal of Endocrinology</i> , 1998 , 156, 441-7	4.7	27
52	Endocrine disruptors in the diet of male <i>Sparus aurata</i> : Modulation of the endocannabinoid system at the hepatic and central level by Di-isononyl phthalate and Bisphenol A. <i>Environment International</i> , 2018 , 119, 54-65	12.9	26
51	Tissue-specific gene expression and functional regulation of uncoupling protein 2 (UCP2) by hypoxia and nutrient availability in gilthead sea bream (<i>Sparus aurata</i>): implications on the physiological significance of UCP1-3 variants. <i>Fish Physiology and Biochemistry</i> , 2014 , 40, 751-62	2.7	25
50	Gene expression survey of mitochondrial uncoupling proteins (UCP1/UCP3) in gilthead sea bream (<i>Sparus aurata</i> L.). <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2010 , 180, 685-94	2.2	25
49	Effect of ivermectin on the liver of gilthead sea bream <i>Sparus aurata</i> : a proteomic approach. <i>Chemosphere</i> , 2010 , 80, 570-7	8.4	24
48	Sodium salt medium-chain fatty acids and -based probiotic strategies to improve growth and intestinal health of gilthead sea bream (). <i>PeerJ</i> , 2017 , 5, e4001	3.1	24
47	Gene expression analysis of Atlantic salmon gills reveals mucin 5 and interleukin 4/13 as key molecules during amoebic gill disease. <i>Scientific Reports</i> , 2018 , 8, 13689	4.9	24
46	Confinement exposure induces glucose regulated protein 75 (GRP75/mortalin/mtHsp70/PBP74/HSPA9B) in the hepatic tissue of gilthead sea bream (<i>Sparus aurata</i> L.). <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2008 , 149, 428-38	2.3	23

45	Gene expression profiling of whole blood cells supports a more efficient mitochondrial respiration in hypoxia-challenged gilthead sea bream (). <i>Frontiers in Zoology</i> , 2017 , 14, 34	2.8	22
44	Acute stress response in gilthead sea bream (<i>Sparus aurata</i> L.) is time-of-day dependent: Physiological and oxidative stress indicators. <i>Chronobiology International</i> , 2014 , 31, 1051-61	3.6	22
43	Tissue-specific gene expression and fasting regulation of sirtuin family in gilthead sea bream (<i>Sparus aurata</i>). <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2017 , 187, 153-163	2.2	20
42	Contributions of MS metabolomics to gilthead sea bream (<i>Sparus aurata</i>) nutrition. Serum fingerprinting of fish fed low fish meal and fish oil diets. <i>Aquaculture</i> , 2019 , 498, 503-512	4.4	20
41	Co-expression Analysis of Sirtuins and Related Metabolic Biomarkers in Juveniles of Gilthead Sea Bream () With Differences in Growth Performance. <i>Frontiers in Physiology</i> , 2018 , 9, 608	4.6	19
40	Tissue-Specific Orchestration of Gilthead Sea Bream Resilience to Hypoxia and High Stocking Density. <i>Frontiers in Physiology</i> , 2019 , 10, 840	4.6	19
39	Protective effects of seaweed supplemented diet on antioxidant and immune responses in European seabass (<i>Dicentrarchus labrax</i>) subjected to bacterial infection. <i>Scientific Reports</i> , 2019 , 9, 161349	4.9	19
38	Sex, Age, and Bacteria: How the Intestinal Microbiota Is Modulated in a Protandrous Hermaphrodite Fish. <i>Frontiers in Microbiology</i> , 2019 , 10, 2512	5.7	19
37	Feed restriction up-regulates uncoupling protein 3 (UCP3) gene expression in heart and red muscle tissues of gilthead sea bream (<i>Sparus aurata</i> L.) New insights in substrate oxidation and energy expenditure. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2011 , 159, 296-302	2.6	18
36	Untargeted metabolomics approach for unraveling robust biomarkers of nutritional status in fasted gilthead sea bream (). <i>PeerJ</i> , 2017 , 5, e2920	3.1	18
35	The circadian transcriptome of marine fish (<i>Sparus aurata</i>) larvae reveals highly synchronized biological processes at the whole organism level. <i>Scientific Reports</i> , 2017 , 7, 12943	4.9	17
34	Selection for growth is associated in gilthead sea bream (<i>Sparus aurata</i>) with diet flexibility, changes in growth patterns and higher intestine plasticity. <i>Aquaculture</i> , 2019 , 507, 349-360	4.4	17
33	Hints on T cell responses in a fish-parasite model: <i>Enteromyxum leei</i> induces differential expression of T cell signature molecules depending on the organ and the infection status. <i>Parasites and Vectors</i> , 2018 , 11, 443	4	17
32	Recombinant bovine growth hormone (rBGH) enhances somatic growth by regulating the GH-IGF axis in fingerlings of gilthead sea bream (<i>Sparus aurata</i>). <i>General and Comparative Endocrinology</i> , 2018 , 257, 192-202	3	15
31	Proteomic evaluation of potentiated sulfa treatment on gilthead sea bream (<i>Sparus aurata</i> L.) liver. <i>Aquaculture</i> , 2013 , 376-379, 36-44	4.4	15
30	Unraveling the Tissue-Specific Gene Signatures of Gilthead Sea Bream (<i>Sparus aurata</i> L.) after Hyper- and Hypo-Osmotic Challenges. <i>PLoS ONE</i> , 2016 , 11, e0148113	3.7	15
29	Ultra-Low Power Sensor Devices for Monitoring Physical Activity and Respiratory Frequency in Farmed Fish. <i>Frontiers in Physiology</i> , 2019 , 10, 667	4.6	14
28	Comprehensive overview of feed-to-fillet transfer of new and traditional contaminants in Atlantic salmon and gilthead sea bream fed plant-based diets. <i>Aquaculture Nutrition</i> , 2018 , 24, 1782-1795	3.2	14

27	Isolation of Sparus auratus prolactin gene and activity of the cis-acting regulatory elements. <i>General and Comparative Endocrinology</i> , 2003 , 134, 57-61	3	14
26	The Use of Defatted Larvae Meal as a Main Protein Source Is Supported in European Sea Bass () by Data on Growth Performance, Lipid Metabolism, and Flesh Quality. <i>Frontiers in Physiology</i> , 2021 , 12, 659567	4.6	14
25	Effects of sustained exercise on GH-IGFs axis in gilthead sea bream (Sparus aurata). <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2016 , 310, R313-22	3.2	14
24	Disruption of gut integrity and permeability contributes to enteritis in a fish-parasite model: a story told from serum metabolomics. <i>Parasites and Vectors</i> , 2019 , 12, 486	4	13
23	Expression of growth hormone gene in the head kidney of gilthead sea bream (Sparus aurata). <i>The Journal of Experimental Zoology</i> , 1999 , 283, 326-330		13
22	Effects of diisononyl phthalate (DiNP) on the endocannabinoid and reproductive systems of male gilthead sea bream (Sparus aurata) during the spawning season. <i>Archives of Toxicology</i> , 2019 , 93, 727-741	5.8	10
21	Ghrelin and Its Receptors in Gilthead Sea Bream: Nutritional Regulation. <i>Frontiers in Endocrinology</i> , 2018 , 9, 399	5.7	10
20	Dietary sodium heptanoate helps to improve feed efficiency, growth hormone status and swimming performance in gilthead sea bream (Sparus aurata). <i>Aquaculture Nutrition</i> , 2018 , 24, 1638-1651	3.2	10
19	CDNA cloning and sequence of European sea bass (Dicentrarchus labrax) somatolactin. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2000 , 127, 183-92	2.3	10
18	A long-term growth hormone treatment stimulates growth and lipolysis in gilthead sea bream juveniles. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2019 , 232, 67-78	2.6	8
17	Genomic structure and functional analysis of promoter region of somatolactin gene of sea bream (Sparus aurata). <i>Marine Biotechnology</i> , 2004 , 6, 411-8	3.4	8
16	Local DNA methylation helps to regulate muscle sirtuin 1 gene expression across seasons and advancing age in gilthead sea bream (). <i>Frontiers in Zoology</i> , 2020 , 17, 15	2.8	7
15	Dietary tryptophan supplementation induces a transient immune enhancement of gilthead seabream (Sparus aurata) juveniles fed fishmeal-free diets. <i>Fish and Shellfish Immunology</i> , 2019 , 93, 240-250	4.3	7
14	Genome Sequencing and Transcriptome Analysis Reveal Recent Species-Specific Gene Duplications in the Plastic Gilthead Sea Bream (Sparus aurata). <i>Frontiers in Marine Science</i> , 2019 , 6,	4.5	7
13	Effects of Dietary Bisphenol A on the Reproductive Function of Gilthead Sea Bream () Testes. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	6
12	From operculum and body tail movements to different coupling of physical activity and respiratory frequency in farmed gilthead sea bream and European sea bass. Insights on aquaculture biosensing. <i>Computers and Electronics in Agriculture</i> , 2020 , 175, 105531	6.5	6
11	The Effects of Nisin-Producing Lactococcus lactis Strain Used as Probiotic on Gilthead Sea Bream (Sparus aurata) Growth, Gut Microbiota, and Transcriptional Response. <i>Frontiers in Marine Science</i> , 2021 , 8,	4.5	4
10	Reshaping of Gut Microbiota in Gilthead Sea Bream Fed Microbial and Processed Animal Proteins as the Main Dietary Protein Source. <i>Frontiers in Marine Science</i> , 2021 , 8,	4.5	4

9	Health status in gilthead seabream (<i>Sparus aurata</i>) juveniles fed diets devoid of fishmeal and supplemented with <i>Phaeodactylum tricornutum</i> . <i>Journal of Applied Phycology</i> , 2021 , 33, 979-996	3.2	4
8	Targeting the Mild-Hypoxia Driving Force for Metabolic and Muscle Transcriptional Reprogramming of Gilthead Sea Bream () Juveniles. <i>Biology</i> , 2021 , 10,	4.9	3
7	Effects of genetics and early-life mild hypoxia on size variation in farmed gilthead sea bream (<i>Sparus aurata</i>). <i>Fish Physiology and Biochemistry</i> , 2021 , 47, 121-133	2.7	3
6	Cross-Talk Between Intestinal Microbiota and Host Gene Expression in Gilthead Sea Bream () Juveniles: Insights in Fish Feeds for Increased Circularity and Resource Utilization. <i>Frontiers in Physiology</i> , 2021 , 12, 748265	4.6	2
5	Dietary Histidine, Threonine, or Taurine Supplementation Affects Gilthead Seabream () Immune Status. <i>Animals</i> , 2021 , 11,	3.1	2
4	Use of accelerometer technology for individual tracking of activity patterns, metabolic rates and welfare in farmed gilthead sea bream (<i>Sparus aurata</i>) facing a wide range of stressors. <i>Aquaculture</i> , 2021 , 539, 736609	4.4	2
3	A Novel Miniaturized Biosensor for Monitoring Atlantic Salmon Swimming Activity and Respiratory Frequency. <i>Animals</i> , 2021 , 11,	3.1	2
2	Modulation of Gilthead Sea Bream Gut Microbiota by a Bioactive Egg White Hydrolysate: Interactions Between Bacteria and Host Lipid Metabolism. <i>Frontiers in Marine Science</i> , 2021 , 8,	4.5	1
1	Physiological trade-offs associated with fasting weight loss, resistance to exercise and behavioral traits in farmed gilthead sea bream (<i>Sparus aurata</i>) selected by growth. <i>Aquaculture Reports</i> , 2021 , 20, 100645	2.3	1