

# Jaume Fernandez-Borras

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3479785/publications.pdf>

Version: 2024-02-01

54  
papers

1,838  
citations

218677

26  
h-index

276875

41  
g-index

55  
all docs

55  
docs citations

55  
times ranked

1476  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Gilthead sea bream liver proteome altered at low temperatures by oxidative stress. <i>Proteomics</i> , 2010, 10, 963-975.   | 2.2 | 126       |
| 2  | Low-temperature challenges to gilthead sea bream culture: review of cold-induced alterations and "Winter Syndrome". <i>Reviews in Fish Biology and Fisheries</i> , 2010, 20, 539-556.   | 4.9 | 116       |
| 3  | Understanding fish muscle growth regulation to optimize aquaculture production. <i>Aquaculture</i> , 2017, 467, 28-40.  | 3.5 | 102       |
| 4  | Sustained swimming improves muscle growth and cellularity in gilthead sea bream. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2011, 181, 209-217.  | 1.5 | 91        |
| 5  | Effects of low temperatures and fasting on hematology and plasma composition of gilthead sea bream ( <i>Sparus aurata</i> ). <i>Fish Physiology and Biochemistry</i> , 2003, 29, 105-115.   | 2.3 | 84        |
| 6  | Functional alterations associated with "winter syndrome" in gilthead sea bream ( <i>Sparus aurata</i> ). <i>Aquaculture</i> , 2003, 223, 15-27.   | 3.5 | 74        |
| 7  | Cold-induced alterations on proximate composition and fatty acid profiles of several tissues in gilthead sea bream ( <i>Sparus aurata</i> ). <i>Aquaculture</i> , 2005, 249, 477-486.   | 3.5 | 71        |
| 8  | Plasma glucose kinetics and tissue uptake in brown trout in vivo: effect of an intravascular glucose load. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 1996, 165, 534-541.  | 1.5 | 67        |
| 9  | Tracing metabolic routes of dietary carbohydrate and protein in rainbow trout ( <i>Oncorhynchus mykiss</i> ) during overloading of starches and sustained swimming. <i>British Journal of Nutrition</i> , 2012, 107, 834-844.   | 2.3 | 67        |
| 10 | Alterations in lipid metabolism and use of energy depots of gilthead sea bream ( <i>Sparus aurata</i> ) at low temperatures. <i>Aquaculture</i> , 2007, 262, 470-480.   | 3.5 | 66        |
| 11 | Oxygen consumption and feeding rates of gilthead sea bream ( <i>Sparus aurata</i> ) reveal lack of acclimation to cold. <i>Fish Physiology and Biochemistry</i> , 2003, 29, 313-321.  | 2.3 | 50        |
| 12 | Annual and daily variations of plasma cortisol in sea bass, <i>Dicentrarchus labrax</i> L.. <i>Aquaculture</i> , 1990, 91, 171-178.   | 3.5 | 45        |
| 13 | Fate of plasma glucose in tissues of brown trout in vivo: effects of fasting and glucose loading. <i>Fish Physiology and Biochemistry</i> , 2001, 24, 247-258.  | 2.3 | 45        |
| 14 | Effects of sustained swimming on the red and white muscle transcriptome of rainbow trout ( <i>Oncorhynchus mykiss</i> ) fed a carbohydrate-rich diet. <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , 2013, 166, 510-521. | 1.8 | 43        |
| 15 | Growth-promoting effects of sustained swimming in fingerlings of gilthead sea bream ( <i>Sparus aurata</i> ) during overloading of starches. <i>Aquaculture</i> , 2017, 467, 185-192.   | 1.5 | 43        |
| 16 | Plasma glucagon levels in different species of fish. <i>General and Comparative Endocrinology</i> , 1986, 63, 328-333.  | 1.8 | 40        |
| 17 | New Insights into Fish Swimming: A Proteomic and Isotopic Approach in Gilthead Sea Bream. <i>Journal of Proteome Research</i> , 2012, 11, 3533-3547.  | 3.7 | 40        |
| 18 | The effects of a temperature rise on oxygen consumption and energy budget in gilthead sea bream. <i>Aquaculture International</i> , 1997, 5, 415-426.   | 2.2 | 39        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Energy reserves and metabolic status affect the acclimation of gilthead sea bream ( <i>Sparus aurata</i> ) to cold. <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , 2010, 155, 319-326.  | 1.8 | 38        |
| 20 | 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.   | 1.8 | 36        |
| 21 | Variations in tissue reserves, plasma metabolites and pancreatic hormones during fasting in immature carp ( <i>Cyprinus carpio</i> ). <i>Comparative Biochemistry and Physiology A, Comparative Physiology</i> , 1992, 103, 357-363.   | 0.6 | 33        |
| 22 | Metabolic rate and tissue reserves in gilthead sea bream ( <i>Sparus aurata</i> ) under thermal fluctuations and fasting and their capacity for recovery. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2007, 64, 1034-1042.   | 1.4 | 33        |
| 23 | Annual cycle of plasma insulin and glucose of sea bass <i>Dicentrarchus labrax</i> , L.. <i>Fish Physiology and Biochemistry</i> , 1987, 4, 137-141.   | 2.3 | 32        |
| 24 | Natural abundance of <sup>15</sup> N and <sup>13</sup> C in fish tissues and the use of stable isotopes as dietary protein tracers in rainbow trout and gilthead sea bream. <i>Aquaculture Nutrition</i> , 2009, 15, 9-18.   | 2.7 | 32        |
| 25 | Effects of sustained exercise on GH-IGFs axis in gilthead sea bream ( <i>Sparus aurata</i> ). <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2016, 310, R313-R322.  | 1.8 | 32        |
| 26 | The effects of starvation and refeeding on plasma amino acid levels in carp, <i>Cyprinus carpio</i> L., 1758. <i>Journal of Fish Biology</i> , 1991, 38, 587-598.  | 1.6 | 30        |
| 27 | Insulin, IGF-I, and muscle MAPK pathway responses after sustained exercise and their contribution to growth and lipid metabolism regulation in gilthead sea bream. <i>Domestic Animal Endocrinology</i> , 2013, 45, 145-153.   | 1.6 | 25        |
| 28 | Redox Challenge in a Cultured Temperate Marine Species During Low Temperature and Temperature Recovery. <i>Frontiers in Physiology</i> , 2018, 9, 923.   | 2.8 | 24        |
| 29 | Beneficial effects of sustained activity on the use of dietary protein and carbohydrate traced with stable isotopes <sup>15</sup> N and <sup>13</sup> C in gilthead sea bream ( <i>Sparus aurata</i> ). <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2012, 183, 223-34. | 1.5 | 23        |
| 30 | Moderate and sustained exercise modulates muscle proteolytic and myogenic markers in gilthead sea bream ( <i>Sparus aurata</i> ). <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2017, 312, R643-R653.  | 1.8 | 22        |
| 31 | Naturally Occurring Stable Isotopes Reflect Changes in Protein Turnover and Growth in Gilthead Sea Bream ( <i>Sparus aurata</i> ) Juveniles under Different Dietary Protein Levels. <i>Journal of Agricultural and Food Chemistry</i> , 2013, 61, 8924-8933.   | 5.2 | 20        |
| 32 | Seasonal, ontogenetic and sexual changes in lipid metabolism of the small-spotted catshark ( <i>Scyliorhinus canicula</i> ) in deep-sea free-living conditions. <i>Journal of Experimental Marine Biology and Ecology</i> , 2016, 483, 59-63.  | 1.5 | 20        |
| 33 | Seasonal variations of insulin and some metabolites in dogfish plasma, <i>Scyliorhinus canicula</i> , L. <i>General and Comparative Endocrinology</i> , 1988, 70, 1-8.   | 1.8 | 18        |
| 34 | A long-term growth hormone treatment stimulates growth and lipolysis in gilthead sea bream juveniles. <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , 2019, 232, 67-78.  | 1.8 | 18        |
| 35 | Annual cycle of plasma lipids in sea bass, <i>Dicentrarchus labrax</i> L.: Effects of environmental conditions and reproductive cycle. <i>Comparative Biochemistry and Physiology A, Comparative Physiology</i> , 1989, 93, 407-412.   | 0.6 | 17        |
| 36 | Ghrelin and Its Receptors in Gilthead Sea Bream: Nutritional Regulation. <i>Frontiers in Endocrinology</i> , 2018, 9, 399.   | 3.5 | 17        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 37 | Effects of variable protein and lipid proportion in gilthead sea bream ( <i>Sparus aurata</i> ) diets on fillet structure and quality. <i>Aquaculture Nutrition</i> , 2013, 19, 368-381.   | 2.7 | 15        |
| 38 | Effect of bonito insulin injection on plasma immunoreactive glucagon levels and carbohydrate and lipid metabolism of sea bass ( <i>Dicentrarchus labrax</i> ). <i>Comparative Biochemistry and Physiology A, Comparative Physiology</i> , 1989, 94, 33-36.                     | 0.6 | 14        |
| 39 | Sustained swimming enhances white muscle capillarisation and growth by hyperplasia in gilthead sea bream ( <i>Sparus aurata</i> ) fingerlings. <i>Aquaculture</i> , 2019, 501, 397-403.  | 3.5 | 14        |
| 40 | Cold-induced growth arrest in gilthead sea bream <i>Sparus aurata</i> : metabolic reorganisation and recovery. <i>Aquaculture Environment Interactions</i> , 2018, 10, 511-528.  | 1.8 | 14        |
| 41 | Proteomic characterization of primary cultured myocytes in a fish model at different myogenesis stages. <i>Scientific Reports</i> , 2019, 9, 14126.  | 3.3 | 13        |
| 42 | Effects of the protein/carbohydrate ratio of extruded diets on protein synthesis, protein growth and body composition in juvenile brown trout ( <i>Salmo trutta</i> ). <i>Aquaculture International</i> , 2006, 14, 337-353.   | 2.2 | 11        |
| 43 | Diets labelled with <sup>13</sup> C-starch and <sup>15</sup> N-protein reveal daily rhythms of nutrient use in gilthead sea bream ( <i>Sparus aurata</i> ). <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , 2015, 179, 95-103. | 1.8 | 11        |
| 44 | Using stable isotope analysis to study skin mucus exudation and renewal in fish. <i>Journal of Experimental Biology</i> , 2019, 222, .   | 1.7 | 11        |
| 45 | Annual variations of some carbohydrate and lipid parameters in the fish <i>Spicara chryselis</i> during captivity. <i>Comparative Biochemistry and Physiology A, Comparative Physiology</i> , 1980, 67, 383-389.   | 0.6 | 10        |
| 46 | Generic skills needs for graduate employment in the aquaculture, fisheries and related sectors in Europe. <i>Aquaculture International</i> , 2015, 23, 767-786.  | 2.2 | 8         |
| 47 | Stable Isotope Analysis Combined with Metabolic Indices Discriminates between Gilthead Sea Bream ( <i>Sparus aurata</i> ) Fingerlings Produced in Various Hatcheries. <i>Journal of Agricultural and Food Chemistry</i> , 2011, 59, 10261-10270.                               | 5.2 | 7         |
| 48 | Diet and Exercise Modulate GH-IGFs Axis, Proteolytic Markers and Myogenic Regulatory Factors in Juveniles of Gilthead Sea Bream ( <i>Sparus aurata</i> ). <i>Animals</i> , 2021, 11, 2182.   | 2.3 | 7         |
| 49 | Mitochondrial Adaptation to Diet and Swimming Activity in Gilthead Seabream: Improved Nutritional Efficiency. <i>Frontiers in Physiology</i> , 2021, 12, 678985.   | 2.8 | 6         |
| 50 | Amino acid levels in whole blood and plasma of <i>Scylliorhinus canicula</i> . <i>Comparative Biochemistry and Physiology A, Comparative Physiology</i> , 1987, 87, 57-61.   | 0.6 | 5         |
| 51 | Evaluating mucus exudation dynamics through isotopic enrichment and turnover of skin mucus fractions in a marine fish model. , 2020, 8, coaa095.   |     | 4         |
| 52 | Interaction between the Effects of Sustained Swimming Activity and Dietary Macronutrient Proportions on the Redox Status of Gilthead Sea Bream Juveniles ( <i>Sparus aurata</i> L.). <i>Antioxidants</i> , 2022, 11, 319.  | 5.1 | 3         |
| 53 | Transcriptomic and Proteomic Response of Skeletal Muscle to Swimming-Induced Exercise in Fish. , 2013, , 237-256.  |     | 2         |
| 54 | Recombinant Bovine Growth Hormone-Induced Metabolic Remodelling Enhances Growth of Gilthead Sea-Bream ( <i>Sparus aurata</i> ): Insights from Stable Isotopes Composition and Proteomics. <i>International Journal of Molecular Sciences</i> , 2021, 22, 13107.                | 4.1 | 2         |