

László Orbán

List of Publications by Year in descending order

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105
papers

4,162
citations

101543

36
h-index

128289

60
g-index

112
all docs

112
docs citations

112
times ranked

3773
citing authors

#	ARTICLE	IF	CITATIONS
1	Polygenic Sex Determination System in Zebrafish. PLoS ONE, 2012, 7, e34397.	2.5	210
2	Zebrafish sex: a complicated affair. Briefings in Functional Genomics, 2014, 13, 172-187.	2.7	193
3	Anti-Allergic hormone and 11 β -hydroxylase show reciprocal expression to that of aromatase in the transforming gonad of zebrafish males. Developmental Dynamics, 2007, 236, 1329-1338.	1.8	149
4	Long and winding roads: Testis differentiation in zebrafish. Molecular and Cellular Endocrinology, 2009, 312, 35-41.	3.2	139
5	Early Depletion of Primordial Germ Cells in Zebrafish Promotes Testis Formation. Stem Cell Reports, 2015, 4, 61-73.	4.8	133
6	The timing and extent of "juvenile ovary" phase are highly variable during zebrafish testis differentiation. Journal of Fish Biology, 2007, 70, 33-44.	1.6	131
7	Duplication of fgfr1 Permits Fgf Signaling to Serve as a Target for Selection during Domestication. Current Biology, 2009, 19, 1642-1647.	3.9	110
8	Heat-induced masculinization in domesticated zebrafish is family-specific and yields a set of different gonadal transcriptomes. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E941-E950.	7.1	110
9	Zebrafish Androgen Receptor: Isolation, Molecular, and Biochemical Characterization1. Biology of Reproduction, 2008, 78, 361-369.	2.7	109
10	Transcriptomic Analyses Reveal Novel Genes with Sexually Dimorphic Expression in the Zebrafish Gonad and Brain. PLoS ONE, 2008, 3, e1791.	2.5	107
11	Chromosomal-Level Assembly of the Asian Seabass Genome Using Long Sequence Reads and Multi-layered Scaffolding. PLoS Genetics, 2016, 12, e1005954.	3.5	105
12	A simple and affordable method for high-throughput DNA extraction from animal tissues for polymerase chain reaction. Electrophoresis, 2005, 26, 3081-3083.	2.4	101
13	Male-specific DNA markers from African catfish (<i>Clarias gariepinus</i>). Genetica, 2000, 110, 267-276.	1.1	100
14	The Asian arowana (<i>Scleropages formosus</i>) genome provides new insights into the evolution of an early lineage of teleosts. Scientific Reports, 2016, 6, 24501.	3.3	89
15	Rapid isolation and characterization of microsatellites from the genome of Asian arowana (<i>Scleropages formosus</i> , Osteoglossidae, Pisces). Molecular Ecology, 2000, 9, 1007-1009.	3.9	88
16	TBP2, a Vertebrate-Specific Member of the TBP Family, Is Required in Embryonic Development of Zebrafish. Current Biology, 2004, 14, 593-598.	3.9	80
17	Microsatellites within genes and ESTs of common carp and their applicability in silver crucian carp. Aquaculture, 2004, 234, 85-98.	3.5	79
18	Gonad Differentiation in Zebrafish Is Regulated by the Canonical Wnt Signaling Pathway1. Biology of Reproduction, 2014, 90, 45.	2.7	79

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19	Genetic variation and population structure of Asian seabass (<i>Lates calcarifer</i>) in the Asia-Pacific region. <i>Aquaculture</i> , 2009, 293, 22-28.	3.5	77
20	Genetic analysis of two common carp broodstocks by RAPD and microsatellite markers. <i>Aquaculture</i> , 2003, 219, 157-167.	3.5	73
21	The complete mitochondrial genome of a basal teleost, the Asian arowana (<i>Scleropages formosus</i>). <i>Tj ETQq1 1 0.784314 rgBT /Overlo</i>	2.8	73
22	Rapid Isolation of DNA from Fresh and Preserved Fish Scales for Polymerase Chain Reaction. <i>Marine Biotechnology</i> , 2001, 3, 199-204.	2.4	72
23	Mutation rate and pattern of microsatellites in common carp (<i>Cyprinus carpio</i> L.). <i>Genetica</i> , 2007, 129, 329-331.	1.1	67
24	Genomic resources and microarrays for the common carp <i>Cyprinus carpio</i> L.. <i>Journal of Fish Biology</i> , 2008, 72, 2095-2117.	1.6	60
25	Activation of NF- κ B Protein Prevents the Transition from Juvenile Ovary to Testis and Promotes Ovarian Development in Zebrafish. <i>Journal of Biological Chemistry</i> , 2012, 287, 37926-37938.	3.4	59
26	Characterization of Microsatellites in the IGF-2 and GH Genes of Asian Seabass (<i>Lates calcarifer</i>). <i>Marine Biotechnology</i> , 2001, 3, 1-3.	2.4	58
27	Activator effect of coinjectd enhancers on the muscle-specific expression of promoters in zebrafish embryos. <i>Molecular Reproduction and Development</i> , 1997, 47, 404-412.	2.0	53
28	Hatching out goldfish from common carp eggs: interspecific androgenesis between two cyprinid species. <i>Genome</i> , 1998, 41, 573-579.	2.0	52
29	Novel Microsatellites from Asian Sea Bass (<i>Lates Calcarifer</i>) and Their Application to Broodstock Analysis. <i>Marine Biotechnology</i> , 2002, 4, 503-511.	2.4	51
30	Monitoring the genetic diversity of three Asian arowana (<i>Scleropages formosus</i>) captive stocks using AFLP and microsatellites. <i>Aquaculture</i> , 2004, 237, 89-102.	3.5	51
31	Comparative Analysis of the Testis and Ovary Transcriptomes in Zebrafish by Combining Experimental and Computational Tools. <i>Comparative and Functional Genomics</i> , 2004, 5, 403-418.	2.0	48
32	Efficient transient expression system based on square pulse electroporation and in vivo luciferase assay of fertilized fish eggs. <i>FEBS Letters</i> , 1993, 324, 27-32.	2.8	47
33	Heat-Inducible Expression of a Reporter Gene Detected by Transient Assay in Zebrafish. <i>Experimental Cell Research</i> , 2000, 256, 282-290.	2.6	47
34	Comparison of three DNA marker systems for assessing genetic diversity in Asian arowana (<i>Scleropages formosus</i>). <i>Electrophoresis</i> , 2002, 23, 1025-1032.	2.4	44
35	Comparative genomics in cyprinids: common carp ESTs help the annotation of the zebrafish genome. <i>BMC Bioinformatics</i> , 2006, 7, S2.	2.6	40
36	Exposure of zebrafish to elevated temperature induces sex ratio shifts and alterations in the testicular epigenome of unexposed offspring. <i>Environmental Research</i> , 2020, 186, 109601.	7.5	37

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37	Genome and gene manipulation in the common carp. <i>Aquaculture</i> , 1995, 129, 157-181.	3.5	36
38	Small-scale transcriptomics reveals differences among gonadal stages in Asian seabass (<i>Lates calcarifer</i>). <i>Overlock</i> 10 Tf 50 702	3.3	36
39	High transgene activity in the yolk syncytial layer affects quantitative transient expression assays in zebrafish (<i>Danio rerio</i>) embryos. <i>Transgenic Research</i> , 1996, 5, 433-442.	2.4	34
40	Ferguson plots based on absolute mobilities in polyacrylamide gel electrophoresis: Dependence of linearity of polymerization conditions and application to the determination of free mobility. <i>Electrophoresis</i> , 1988, 9, 293-298.	2.4	32
41	Morpho-histological characterisation of the alimentary canal of an important food fish, Asian seabass (<i>Lates calcarifer</i>). <i>PeerJ</i> , 2016, 4, e2377.	2.0	32
42	Polymorphic microsatellites from silver crucian carp (<i>Carassius auratus gibelio</i> Bloch) and cross-amplification in common carp (<i>Cyprinus carpio</i> L.). <i>Molecular Ecology Notes</i> , 2002, 2, 534-536.	1.7	28
43	Insights into the microbiome of farmed Asian sea bass (<i>Lates calcarifer</i>) with symptoms of tenacibaculosis and description of <i>Tenacibaculum singaporense</i> sp. nov.. <i>Antonie Van Leeuwenhoek</i> , 2020, 113, 737-752.	1.7	28
44	A standard panel of microsatellites for Asian seabass (<i>Lates calcarifer</i>). <i>Animal Genetics</i> , 2010, 41, 208-212.	1.7	26
45	Heat Shock Factor 5 Is Essential for Spermatogenesis in Zebrafish. <i>Cell Reports</i> , 2018, 25, 3252-3261.e4.	6.4	26
46	Microsatellites from genes show polymorphism in two related <i>Oreochromis</i> species. <i>Molecular Ecology Notes</i> , 2002, 2, 99-100.	1.7	25
47	Differential Transcriptomic Response in the Spleen and Head Kidney Following Vaccination and Infection of Asian Seabass with <i>Streptococcus iniae</i> . <i>PLoS ONE</i> , 2014, 9, e99128.	2.5	25
48	The first transcriptome and genetic linkage map for Asian arowana. <i>Molecular Ecology Resources</i> , 2014, 14, 622-635.	4.8	23
49	Information on DNA conformation derived from the Ferguson plot of DNA fragments of up to 9 kb in size, using polyacrylamide gel electrophoresis in a discontinuous buffer system. <i>Electrophoresis</i> , 1991, 12, 241-246.	2.4	22
50	Extensive search does not identify genomic sex markers in <i>Tetraodon nigroviridis</i> . <i>Journal of Fish Biology</i> , 2002, 61, 1314-1317.	1.6	22
51	The <i>vasa</i> Locus in Zebrafish: Multiple RGG Boxes from Duplications. <i>DNA and Cell Biology</i> , 2003, 22, 47-54.	1.9	22
52	Mapping QTL for Sex and Growth Traits in Salt-Tolerant Tilapia (<i>Oreochromis</i> spp. X <i>O. mossambicus</i>). <i>PLoS ONE</i> , 2016, 11, e0166723.	2.5	22
53	Mapping QTL for an Adaptive Trait: The Length of Caudal Fin in <i>Lates calcarifer</i> . <i>Marine Biotechnology</i> , 2011, 13, 74-82.	2.4	21
54	Barcoding of Asian seabass across its geographic range provides evidence for its bifurcation into two distinct species. <i>Frontiers in Marine Science</i> , 2014, 1, .	2.5	21

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55	Mapping QTL for Omega-3 Content in Hybrid Saline Tilapia. <i>Marine Biotechnology</i> , 2018, 20, 10-19.	2.4	21
56	A New Problem with Cross-Species Amplification of Microsatellites: Generation of Non-Homologous Products. <i>Zoological Research</i> , 2010, 31, 131-140.	0.6	21
57	Accumulation of pesticides in the organs of carp, <i>Cyprinus carpio</i> L., at 4 °C and 20 °C. <i>Bulletin of Environmental Contamination and Toxicology</i> , 1987, 39, 370-378.	2.7	20
58	An improved voltage measurement device for gel electrophoresis in tube apparatus. <i>Electrophoresis</i> , 1988, 9, 32-36.	2.4	20
59	Discontinuous buffer system for polyacrylamide and agarose gel electrophoresis of DNA fragments. <i>Electrophoresis</i> , 1991, 12, 233-240.	2.4	20
60	Liposome-mediated gene transfer in fish embryos. <i>Transgenic Research</i> , 1994, 3, 116-119.	2.4	20
61	A strain-specific and a sex-associated STS marker for Asian arowana (<i>Scleropages formosus</i> ,) Tj ETQq1 1 0.784314 rgBT /Overlock 10	1.8	20
62	Primary analysis of repeat elements of the Asian seabass (<i>Lates calcarifer</i>) transcriptome and genome. <i>Frontiers in Genetics</i> , 2014, 5, 223.	2.3	19
63	Microsatellites from <i>Clarias batrachus</i> and their polymorphism in seven additional catfish species. <i>Molecular Ecology Notes</i> , 2003, 3, 465-468.	1.7	18
64	Characterization of the electrophoretic properties of nucleosome core particles by transverse polyacrylamide pore gradient gel electrophoresis. <i>Electrophoresis</i> , 1993, 14, 720-724.	2.4	16
65	Investigations on Paraquat Toxicity in Fishes. <i>Water International</i> , 1985, 10, 79-81.	1.0	15
66	Estimating reproductive success of brooders and heritability of growth traits in Asian sea bass (<i>Lates</i>) Tj ETQq0 0 0 rgBT /Overlock 10	1.8	15
67	A <i>Neurexin2aa</i> deficiency results in axon pathfinding defects and increased anxiety in zebrafish. <i>Human Molecular Genetics</i> , 2021, 29, 3765-3780.	2.9	15
68	A convex Ferguson plot of polystyrene particles in electrophoresis on 0.25 to 2.0 % polyacrylamide (30 % Bis-crosslinked). <i>Electrophoresis</i> , 1987, 8, 471-476.	2.4	14
69	FluoMEP: A new genotyping method combining the advantages of randomly amplified polymorphic DNA and amplified fragment length polymorphism. <i>Electrophoresis</i> , 2007, 28, 525-534.	2.4	14
70	<i>Cyprinids</i> , 2008, , 45-83.		14
71	Nutrigenomic and Nutritional Analyses Reveal the Effects of Pelleted Feeds on Asian Seabass (<i>Lates</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 10	2.5	14
72	Sex-associated DNA markers from turbot. <i>Marine Biology Research</i> , 2011, 7, 378-387.	0.7	13

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73	Transcriptome Survey of a Marine Food Fish: Asian Seabass (<i>Lates calcarifer</i>). <i>Journal of Marine Science and Engineering</i> , 2015, 3, 382-400.	2.6	13
74	A chromosome-level genome assembly of the Asian arowana, <i>Scleropages formosus</i> . <i>Scientific Data</i> , 2016, 3, 160105.	5.3	13
75	New observations about the fertilisation capacity and latency time of sperm inseminated into the ovary of African catfish (<i>Clarias gariepinus</i>), an oviparous model fish. <i>Aquaculture</i> , 2020, 522, 735109.	3.5	12
76	Computer-aided analysis of DNA curves on transverse gradient gels. <i>Journal of Proteomics</i> , 1992, 24, 171-180.	2.4	11
77	Accelerated separation of random complex DNA patterns in gels: Comparing the performance of discontinuous and continuous buffers. <i>Electrophoresis</i> , 1999, 20, 1462-1468.	2.4	11
78	B Chromosomes of the Asian Seabass (<i>Lates calcarifer</i>) Contribute to Genome Variations at the Level of Individuals and Populations. <i>Genes</i> , 2018, 9, 464.	2.4	11
79	Discontinuous buffer systems optimized for the agarose gel electrophoresis of subcellular particles. <i>Electrophoresis</i> , 1988, 9, 167-171.	2.4	10
80	A thin-layer multistrip polyacrylamide gel electrophoresis apparatus for ferguson plot analysis at the sub-microgram load level. <i>Electrophoresis</i> , 1989, 10, 726-729.	2.4	9
81	Re-Visiting Phylogenetic and Taxonomic Relationships in the Genus <i>Saga</i> (Insecta: Orthoptera). <i>PLoS ONE</i> , 2012, 7, e42229.	2.5	8
82	Toward Genome-Based Selection in Asian Seabass: What Can We Learn From Other Food Fishes and Farm Animals?. <i>Frontiers in Genetics</i> , 2021, 12, 506754.	2.3	8
83	Physical identification of a virus in a crude leaf extract by its ferguson plot in agarose gel electrophoresis. <i>Electrophoresis</i> , 1988, 9, 162-166.	2.4	7
84	Agarose electrophoresis of DNA in discontinuous buffers, using a horizontal slab apparatus and a buffer system with improved properties. <i>Electrophoresis</i> , 1993, 14, 179-184.	2.4	7
85	Novel microsatellites from the green swordtail (<i>Xiphophorus hellerii</i>) also display polymorphism in guppy (<i>Poecilia reticulata</i>). <i>Molecular Ecology Notes</i> , 2004, 4, 474-476.	1.7	7
86	Disappearing Scales in Carps: Re-Visiting Kirpichnikov's Model on the Genetics of Scale Pattern Formation. <i>PLoS ONE</i> , 2013, 8, e83327.	2.5	7
87	Quantitative gel electrophoresis of polystyrene particles with 20-60 nm radii on 30% crosslinked polyacrylamide gel. <i>Electrophoresis</i> , 1987, 8, 465-471.	2.4	6
88	Characterization of nine novel microsatellites isolated from Mozambique tilapia, <i>Oreochromis mossambicus</i> . <i>Conservation Genetics Resources</i> , 2010, 2, 385-387.	0.8	6
89	Being Merle: The Molecular Genetic Background of the Canine Merle Mutation. <i>Genes</i> , 2020, 11, 660.	2.4	6
90	Electrophoretic studies on the phosphorylation of stathmin and mitogen-activated protein kinases in neuronal cell death induced by oxidized very-low-density lipoprotein with apolipoprotein E. <i>Electrophoresis</i> , 2002, 23, 998-1004.	2.4	5

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91	Characterization of microsatellites located within the genes of goldfish (<i>Carassius auratus auratus</i>). <i>Molecular Ecology Notes</i> , 2004, 4, 404-405.	1.7	5
92	BAC-pool sequencing and analysis confirms growth-associated QTLs in the Asian seabass genome. <i>Scientific Reports</i> , 2016, 6, 36647.	3.3	5
93	An Alternative, High Throughput Method to Identify Csd Alleles of the Honey Bee. <i>Insects</i> , 2020, 11, 483.	2.2	5
94	Bloom syndrome helicase contributes to germ line development and longevity in zebrafish. <i>Cell Death and Disease</i> , 2022, 13, 363.	6.3	4
95	Detection of turnip crinkle virus on agarose gel electropherograms at the nanogram load level. <i>Electrophoresis</i> , 1988, 9, 299-302.	2.4	3
96	Sieving of ionic constituents across moving boundaries in gel electrophoresis. <i>Electrophoresis</i> , 1989, 10, 254-259.	2.4	3
97	A thin-layer multistrip agarose gel electrophoresis apparatus for Ferguson plot analysis at the sub-microgram load level. <i>Journal of Proteomics</i> , 1989, 19, 105-120.	2.4	3
98	Microsatellites from the compact genome of the green spotted pufferfish (<i>Tetraodon nigroviridis</i>). <i>Molecular Ecology</i> , 2000, 9, 2205-2207.	3.9	3
99	Detection of conformational and net charge differences in DNA-protein complexes by quantitative electrophoresis on polyacrylamite-agarose copolymer gels. <i>Electrophoresis</i> , 1991, 12, 391-396.	2.4	2
100	PCR-based identification of Adriatic specimen of three scorpionfish species (<i>Scorpaenidae</i>). <i>TJ ETQq0 0 0 rgBT /Overlock 10 Tf 50 382</i>	0.7	2
101	The effect of various ambient ammonia concentrations on the nitrogen metabolism of carp fry (<i>Cyprinus carpio</i> L.). <i>Comparative Biochemistry and Physiology A, Comparative Physiology</i> , 1987, 86, 449-452.	0.6	1
102	Novel microsatellites from the European plaice (<i>Pleuronectes platessa</i>) identification by data mining and cross-species amplification in other flatfishes. <i>Conservation Genetics</i> , 2009, 10, 1565-1568.	1.5	1
103	Masculinization of Zebrafish Through Partial Depletion of Primordial Germ by Injecting Diluted Oligonucleotides into. <i>Methods in Molecular Biology</i> , 2021, 2218, 49-60.	0.9	1
104	Species-specific markers provide molecular genetic evidence for natural introgression of bullhead catfishes in Hungary. <i>PeerJ</i> , 2017, 5, e2804.	2.0	1
105	Global Expression Profiling in Zebrafish Reveals Genes with Potential Roles in Sexual Differentiation. <i>Biology of Reproduction</i> , 2008, 78, 116-116.	2.7	1