

# Ronald B Walter

## List of Publications by Year in descending order

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104  
papers

2,760  
citations

186265

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223800

46  
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105  
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105  
docs citations

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times ranked

3257  
citing authors

#	ARTICLE	IF	CITATIONS
1	The genome of the platyfish, <i>Xiphophorus maculatus</i> , provides insights into evolutionary adaptation and several complex traits. <i>Nature Genetics</i> , 2013, 45, 567-572.	21.4	251
2	Genomic and physiological footprint of the Deepwater Horizon oil spill on resident marsh fishes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 20298-20302.	7.1	226
3	Silver nanospheres are cytotoxic and genotoxic to fish cells. <i>Aquatic Toxicology</i> , 2010, 97, 34-41.	4.0	195
4	Clonal polymorphism and high heterozygosity in the celibate genome of the Amazon molly. <i>Nature Ecology and Evolution</i> , 2018, 2, 669-679.	7.8	117
5	UV causation of melanoma in <i>Xiphophorus</i> is dominated by melanin photosensitized oxidant production. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 4111-4115.	7.1	111
6	A Microsatellite Genetic Linkage Map for <i>Xiphophorus</i> Sequence data from this article have been deposited with the EMBL/GenBank Data Libraries under accession nos. AY258640, AY258896.. <i>Genetics</i> , 2004, 168, 363-372.	2.9	59
7	Base Excision Repair Is Limited by Different Proteins in Male Germ Cell Nuclear Extracts Prepared from Young and Old Mice. <i>Molecular and Cellular Biology</i> , 2002, 22, 2410-2418.	2.3	57
8	Multiple tissue gene expression analyses in Japanese medaka ( <i>Oryzias latipes</i> ) exposed to hypoxia. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2007, 145, 134-144.	2.6	57
9	Localization of a CDKN2 gene in linkage group V of <i>Xiphophorus</i> fishes defines it as a candidate for the DIFF tumor suppressor. , 1998, 22, 210-220.		52
10	Nucleotide Excision Repair Activity Varies Among Murine Spermatogenic Cell Types1. <i>Biology of Reproduction</i> , 2005, 73, 123-130.	2.7	47
11	Sperm cryopreservation of green swordtail <i>Xiphophorus helleri</i> , a fish with internal fertilization. <i>Cryobiology</i> , 2004, 48, 295-308.	0.7	46
12	Transcriptome Analysis of Female and Male <i>Xiphophorus maculatus</i> Jp 163 A. <i>PLoS ONE</i> , 2011, 6, e18379.	2.5	45
13	Genomic approaches in the identification of hypoxia biomarkers in model fish species. <i>Journal of Experimental Marine Biology and Ecology</i> , 2009, 381, S180-S187.	1.5	42
14	Effect of glycerol on plasmid transfer in genetically competent <i>Haemophilus influenzae</i> . <i>Molecular Genetics and Genomics</i> , 1986, 203, 296-299.	2.4	39
15	Recognition of the DNA helix stabilizing anthracycline-N2 guanine adduct by UVRABC nuclease. <i>Journal of Molecular Biology</i> , 1988, 203, 939-947.	4.2	39
16	Effect of osmotic immobilization on refrigerated storage and cryopreservation of sperm from a viviparous fish, the green swordtail <i>Xiphophorus helleri</i> . <i>Cryobiology</i> , 2006, 52, 209-218.	0.7	39
17	Initial studies on sperm cryopreservation of a live-bearing fish, the green swordtail <i>Xiphophorus helleri</i> . <i>Theriogenology</i> , 2004, 62, 179-194.	2.1	38
18	Interaction of Oxo-Bridged Vanadium(III) Phenanthroline and Bipyridine Dimers with DNA. <i>Inorganic Chemistry</i> , 2000, 39, 3881-3889.	4.0	37

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19	Identification of transcriptome SNPs between Xiphophorus lines and species for assessing allele specific gene expression within F1 interspecies hybrids. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2012, 155, 102-108.	2.6	37
20	Use of Random Amplified Polymorphic DNA (RAPD) for Identification of Largemouth Bass Subspecies and Their Intergrades. Transactions of the American Fisheries Society, 1998, 127, 825-832.	1.4	36
21	Genetic Analysis of Susceptibility to Spontaneous and UV-Induced Carcinogenesis in Xiphophorus Hybrid Fish. Marine Biotechnology, 2001, 3, S024-S036.	2.4	36
22	Comparison of gene expression responses to hypoxia in viviparous (Xiphophorus) and oviparous (Oryzias) fishes using a medaka microarray. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2009, 149, 258-265.	2.6	36
23	Decreased Levels of (6-4) Photoproduct Excision Repair in Hybrid Fish of the Genus Xiphophorus. Photochemistry and Photobiology, 2004, 79, 447.	2.5	35
24	Xiphophorus and Medaka Cancer Models. Advances in Experimental Medicine and Biology, 2016, 916, 531-552.	1.6	33
25	The Novel Evolution of the Sperm Whale Genome. Genome Biology and Evolution, 2017, 9, 3260-3264.	2.5	33
26	X. couchianus and X. hellerii genome models provide genomic variation insight among Xiphophorus species. BMC Genomics, 2016, 17, 37.	2.8	32
27	Matrix-assisted laser desorption/ionization time-of-flight mass spectrometry of 4-sulfophenyl isothiocyanate-derivatized peptides on AnchorChip? sample supports using the sodium-tolerant matrix 2,4,6-trihydroxyacetophenone and diammonium citrate. Rapid Communications in Mass Spectrometry, 2005, 19, 752-758.	1.5	31
28	DNA microarray technology in toxicogenomics of aquatic models: Methods and applications. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2007, 145, 5-14.	2.6	31
29	Detection of hypoxia-related proteins in medaka (Oryzias latipes) brain tissue by difference gel electrophoresis and de novo sequencing of 4-sulfophenyl isothiocyanate-derivatized peptides by matrix-assisted laser desorption/ionization time-of-flight mass spectrometry. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2007, 145, 120-133.	2.6	30
30	Production of F1 Interspecies Hybrid Offspring with Cryopreserved Sperm from a Live-Bearing Fish, the Swordtail Xiphophorus hellerii. Biology of Reproduction, 2007, 76, 401-406.	2.7	28
31	Production of F <sub>1</sub> Offspring with Vitrified Sperm from a Live-Bearing Fish, the Green Swordtail Xiphophorus hellerii. Zebrafish, 2011, 8, 167-179.	1.1	28
32	Long-term experimental hybridisation results in the evolution of a new sex chromosome in swordtail fish. Nature Communications, 2018, 9, 5136.	12.8	27
33	Induction, Distribution and Repair of UV Photodamage in the Platyfish, Xiphophorus signum. Photochemistry and Photobiology, 2000, 72, 260.	2.5	26
34	DNA repair in hybrid fish of the genus Xiphophorus. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2004, 138, 301-309.	2.6	25
35	Genetic Analysis of Neoplasia Induced by N-Nitroso-N-methylurea in Xiphophorus Hybrid Fish. Marine Biotechnology, 2001, 3, S037-S043.	2.4	24
36	Molecular genetic response of Xiphophorus maculatus X. couchianus interspecies hybrid skin to UVB exposure. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2015, 178, 86-92.	2.6	24

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37	The Developmental and Genetic Architecture of the Sexually Selected Male Ornament of Swordtails. <i>Current Biology</i> , 2021, 31, 911-922.e4.	3.9	24
38	An in silico mining for simple sequence repeats from expressed sequence tags of zebrafish, medaka, <i>Fundulus</i> , and <i>Xiphophorus</i> . <i>In Silico Biology</i> , 2005, 5, 439-63.	0.9	23
39	Mutation spectral changes in spermatogenic cells obtained from old mice. <i>DNA Repair</i> , 2004, 3, 495-504.	2.8	22
40	Alternative strategies for development of a reference transcriptome for quantification of allele specific expression in organisms having sparse genomic resources. <i>Comparative Biochemistry and Physiology Part D: Genomics and Proteomics</i> , 2013, 8, 11-16.	1.0	22
41	A Proposed Classification Scheme for <i>Xiphophorus</i> Melanomas Based on Histopathologic Analyses. <i>Marine Biotechnology</i> , 2001, 3, S100-S106.	2.4	21
42	MNU Induction of Neoplasia in a Platyfish Model. <i>Laboratory Investigation</i> , 2001, 81, 1191-1198.	3.7	21
43	Absence of global genomic cytosine methylation pattern erasure during medaka ( <i>Oryzias latipes</i> ) early embryo development. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2002, 133, 597-607.	1.6	21
44	Molecular genetic analysis of the melanoma regulatory locus in <i>Xiphophorus</i> interspecies hybrids. <i>Molecular Carcinogenesis</i> , 2017, 56, 1935-1944.	2.7	21
45	Comparison of <i>Xiphophorus</i> and human melanoma transcriptomes reveals conserved pathway interactions. <i>Pigment Cell and Melanoma Research</i> , 2018, 31, 496-508.	3.3	21
46	Oncogenic allelic interaction in <i>Xiphophorus</i> highlights hybrid incompatibility. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 29786-29794.	7.1	21
47	Homology-facilitated plasmid transfer in <i>Haemophilus influenzae</i> . <i>Molecular Genetics and Genomics</i> , 1986, 203, 288-295.	2.4	19
48	Relative Base Excision Repair in <i>Xiphophorus</i> Fish Tissue Extracts. <i>Marine Biotechnology</i> , 2001, 3, S050-S060.	2.4	19
49	The Genetic Map of <i>Xiphophorus</i> Fishes Represented by 24 Multipoint Linkage Groups. <i>Zebrafish</i> , 2004, 1, 287-304.	1.1	19
50	The Linkage Map of <i>Xiphophorus</i> Fishes. <i>ILAR Journal</i> , 1998, 39, 237-248.	1.8	17
51	UVB-induced gene expression in the skin of <i>Xiphophorus maculatus</i> Jp 163 B. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2014, 163, 86-94.	2.6	15
52	Exposure to fluorescent light triggers down regulation of genes involved with mitotic progression in <i>Xiphophorus</i> skin. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2015, 178, 93-103.	2.6	15
53	Analysis of the putative tumor suppressor gene <i>cdkn2ab</i> in pigment cells and melanoma of <i>Xiphophorus</i> and medaka. <i>Pigment Cell and Melanoma Research</i> , 2019, 32, 248-258.	3.3	15
54	Genomic Resources for <i>Xiphophorus</i> Research. <i>Zebrafish</i> , 2006, 3, 11-22.	1.1	14

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55	Characterization and differential expression of CPD and 6â€“4 DNA photolyases in Xiphophorus species and interspecies hybrids. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2014, 163, 77-85.	2.6	14
56	Sex-specific molecular genetic response to UVB exposure in Xiphophorus maculatus skin. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2015, 178, 76-85.	2.6	14
57	Characterization of telomeres and telomerase expression in Xiphophorus. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2012, 155, 89-94.	2.6	13
58	Germ cell and tumor associated piRNAs in the medaka and Xiphophorus melanoma models. <i>BMC Genomics</i> , 2016, 17, 357.	2.8	13
59	Assignment of the TP53 orthologue to a new linkage group (LG XIV) in fish of the genus xiphophorus (Teleostei: Poeciliidae). <i>Cancer Genetics and Cytogenetics</i> , 1996, 88, 144-150.	1.0	12
60	Identification of robust hypoxia biomarker candidates from fin of medaka ( <i>Oryzias latipes</i> ). <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2012, 155, 11-17.	2.6	12
61	Xiphophorus Genetic Linkage Map: Beginnings of Comparative Gene Mapping in Fishes. <i>Marine Biotechnology</i> , 2001, 3, S153-S161.	2.4	11
62	Transcriptomic analysis of cultured whale skin cells exposed to hexavalent chromium [Cr(VI)]. <i>Aquatic Toxicology</i> , 2013, 134-135, 74-81.	4.0	11
63	The transcriptional response of skin to fluorescent light exposure in viviparous ( <i>Xiphophorus</i> ) and oviparous ( <i>Danio, Oryzias</i> ) fishes. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2018, 208, 77-86.	2.6	11
64	Expression signatures of early-stage and advanced medaka melanomas. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2018, 208, 20-28.	2.6	11
65	Fixation of allelic gene expression landscapes and expression bias pattern shape the transcriptome of the clonal Amazon molly. <i>Genome Research</i> , 2021, 31, 372-379.	5.5	11
66	Characterization of the Xiphophorus fish (Teleostei: Poeciliidae) ERCC2/XPD locus. <i>Genomics</i> , 1995, 26, 70-76.	2.9	10
67	Aquaria Fish Models of Human Disease: Reports and Recommendations from the Working Groups. <i>Marine Biotechnology</i> , 2001, 3, S249-S258.	2.4	10
68	Sperm Cryopreservation in Live-Bearing <i>Xiphophorus</i> Fishes: Offspring Production from <i>Xiphophorus variatus</i> and Strategies for Establishment of Sperm Repositories. <i>Zebrafish</i> , 2012, 9, 126-134.	1.1	10
69	Linkage assignment of a DNA sequence (ERCC2L1) homologous to a human DNA repair gene in Xiphophorus fishes: Implications for the evolutionary derivation of human chromosome 19. <i>Genomics</i> , 1991, 10, 1083-1086.	2.9	9
70	Aquatic animal models of human disease: Selected papers and recommendations from the 4th Conference. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2009, 149, 121-128.	2.6	9
71	Molecular genetic response to varied wavelengths of light in Xiphophorus maculatus skin. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2015, 178, 104-115.	2.6	9
72	Workshop report: The medaka model for comparative assessment of human disease mechanisms. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2015, 178, 156-162.	2.6	9

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73	Fluorescent light exposure incites acute and prolonged immune responses in zebrafish ( <i>Danio rerio</i> ) skin. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2018, 208, 87-95.	2.6	9
74	Particulate hexavalent chromium alters microRNAs in human lung cells that target key carcinogenic pathways. <i>Toxicology and Applied Pharmacology</i> , 2022, 438, 115890.	2.8	9
75	Offspring production with cryopreserved sperm from a live-bearing fish <i>Xiphophorus maculatus</i> and implications for female fecundity. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2012, 155, 55-63.	2.6	8
76	Gene expression variation and parental allele inheritance in a <i>Xiphophorus</i> interspecies hybridization model. <i>PLoS Genetics</i> , 2018, 14, e1007875.	3.5	8
77	Four Resource Centers for Fishes: Specifies, Stocks, and Services. <i>Marine Biotechnology</i> , 2001, 3, S239-S248.	2.4	7
78	Novel Method for Analysis of Allele Specific Expression in Triploid <i>Oryzias latipes</i> Reveals Consistent Pattern of Allele Exclusion. <i>PLoS ONE</i> , 2014, 9, e100250.	2.5	7
79	Application of the Transcriptional Disease Signature (TDSs) to Screen Melanoma-Effective Compounds in a Small Fish Model. <i>Scientific Reports</i> , 2019, 9, 530.	3.3	7
80	Introduction: Aquaria Fish Models of Human Disease. <i>Marine Biotechnology</i> , 2001, 3, S001-S002.	2.4	6
81	Perturbation of DNA repair gene expression due to interspecies hybridization. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2007, 145, 156-163.	2.6	6
82	Expression Signatures of Cisplatin- and Trametinib-Treated Early-Stage Medaka Melanomas. <i>G3: Genes, Genomes, Genetics</i> , 2019, 9, 2267-2276.	1.8	6
83	Fluorescent Light Incites a Conserved Immune and Inflammatory Genetic Response within Vertebrate Organs ( <i>Danio Rerio</i> , <i>Oryzias Latipes</i> and <i>Mus Musculus</i> ). <i>Genes</i> , 2019, 10, 271.	2.4	6
84	On-site Capabilities of a Mobile Laboratory for Aquatic Germplasm Cryopreservation. <i>North American Journal of Aquaculture</i> , 2019, 81, 349-363.	1.4	6
85	REPAIR OF ULTRAVIOLET-IRRADIATED TRANSFORMING DNA IN A <i>recA</i> MUTANT OF <i>Haemophilus influenzae</i> . <i>Photochemistry and Photobiology</i> , 1983, 37, 391-394.	2.5	5
86	DNA polymerase $\beta$ mRNA and protein expression in <i>Xiphophorus</i> fish. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2004, 138, 325-334.	2.6	5
87	Cloning of <i>JunA</i> and <i>JunB</i> and Comparison of mRNA Expression Levels in Two <i>Xiphophorus</i> Melanoma Models. <i>Zebrafish</i> , 2006, 3, 53-63.	1.1	5
88	Exposure to 4100 K fluorescent light elicits sex specific transcriptional responses in <i>Xiphophorus maculatus</i> skin. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2018, 208, 96-104.	2.6	5
89	Transcriptome assembly and candidate genes involved in nutritional programming in the swordtail fish <i>Xiphophorus multilineatus</i> . <i>PeerJ</i> , 2017, 5, e3275.	2.0	5
90	The sequence of the <i>Haemophilus influenzae</i> <i>mutB</i> gene indicates it encodes a DNA helicase II-like protein. <i>Gene</i> , 1993, 136, 35-40.	2.2	4

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91	Characterization and Purification of Flap Endonuclease-1 (xiFEN-1) from Xiphophorus maculatus. Zebrafish, 2004, 1, 273-285.	1.1	4
92	Cortisol release in response to UVB exposure in Xiphophorus fish. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2014, 163, 95-101.	2.6	4
93	Characterization of basal gene expression trends over a diurnal cycle in Xiphophorus maculatus skin, brain and liver. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2018, 208, 2-11.	2.6	4
94	Waveband specific transcriptional control of select genetic pathways in vertebrate skin (Xiphophorus maculatus). BMC Genomics, 2018, 19, 355.	2.8	4
95	Transformation-Associated Recombination (TAR) Cloning of Tumor-Inducing Xmrk2 Gene from Xiphophorus maculatus. Marine Biotechnology, 2001, 3, S168-S176.	2.4	3
96	Induction, Distribution and Repair of UV Photodamage in the Platyfish, Xiphophorus signum. Photochemistry and Photobiology, 2007, 72, 260-266.	2.5	3
97	ULTRAVIOLET SENSITIVITY OF THE ADDITION, DELETION and REPLACEMENT OF LONG NONHOMOLOGOUS DNA SEGMENTS BY GENETIC TRANSFORMATION OF HAEMOPHILUS INFLUENZAE. Photochemistry and Photobiology, 1982, 35, 337-341.	2.5	2
98	C3HeB/FeJ Mice mimic many aspects of gene expression and pathobiological features of human hepatocellular carcinoma. Molecular Carcinogenesis, 2019, 58, 309-320.	2.7	2
99	Aquatic animal models of human disease: Selected papers from the 5th Conference. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2012, 155, 9-10.	2.6	1
100	Intra-Strain Genetic Variation of Platyfish (Xiphophorus maculatus) Strains Determines Tumorigenic Trajectory. Frontiers in Genetics, 2020, 11, 562594.	2.3	1
101	Deconvoluting Wavelengths Leading to Fluorescent Light Induced Inflammation and Cellular Stress in Zebrafish (Danio rerio). Scientific Reports, 2020, 10, 3321.	3.3	1
102	Insight to new genes with sex-biased to bony-tongued fishes: Differentially expressed genes in adult individuals of <i>Arapaima gigas</i> revealed by RNA-Seq. Aquaculture Research, 2021, 52, 5617-5629.	1.8	1
103	Decreased Levels of (6 <sup>4</sup> ) Photoproduct Excision Repair in Hybrid Fish of the Genus <i>Xiphophorus</i> . Photochemistry and Photobiology, 2004, 79, 447-452.	2.5	0
104	Global assessment of organ specific basal gene expression over a diurnal cycle with analyses of gene copies exhibiting cyclic expression patterns. BMC Genomics, 2020, 21, 787.	2.8	0