Tim Welch

List of Publications by Year
in descending order

73 papers	3,600 citations	136885 32 h-index	138417 58 g-index
75 all docs	75 docs citations	75 times ranked	3401 citing authors

#	Article	IF	Citations
1	Multiple Antimicrobial Resistance in Plague: An Emerging Public Health Risk. PLoS ONE, 2007, 2, e309.	1.1	344
2	Stress response of Escherichia coli to elevated hydrostatic pressure. Journal of Bacteriology, 1993, 175, 7170-7177.	1.0	243
3	Comparative Genomics of the IncA/C Multidrug Resistance Plasmid Family. Journal of Bacteriology, 2009, 191, 4750-4757.	1.0	199
4	Genetic Organization of the Region Encoding Regulation, Biosynthesis, and Transport of Rhizobactin 1021, a Siderophore Produced by Sinorhizobium meliloti. Journal of Bacteriology, 2001, 183, 2576-2585.	1.0	191
5	Aquacultured Rainbow Trout (Oncorhynchus mykiss) Possess a Large Core Intestinal Microbiota That Is Resistant to Variation in Diet and Rearing Density. Applied and Environmental Microbiology, 2013, 79, 4974-4984.	1.4	191
6	Spleen Size Predicts Resistance of Rainbow Trout to Flavobacterium psychrophilum Challenge. Journal of Immunology, 2008, 180, 4156-4165.	0.4	140
7	Rainbow trout resistance to bacterial cold-water disease is moderately heritable and is not adversely correlated with growth1. Journal of Animal Science, 2009, 87, 860-867.	0.2	120
8	Evaluation of Genome-Enabled Selection for Bacterial Cold Water Disease Resistance Using Progeny Performance Data in Rainbow Trout: Insights on Genotyping Methods and Genomic Prediction Models. Frontiers in Genetics, 2016, 7, 96.	1.1	118
9	Identification of a regulatory protein required for pressureâ€responsive gene expression in the deepâ€sea bacteriumPhotobacteriumspecies strain SS9. Molecular Microbiology, 1998, 27, 977-985.	1.2	116
10	Response to selection for bacterial cold water disease resistance in rainbow trout1,2. Journal of Animal Science, 2010, 88, 1936-1946.	0.2	114
11	High Prevalence of Multidrug-Tolerant Bacteria and Associated Antimicrobial Resistance Genes Isolated from Ornamental Fish and Their Carriage Water. PLoS ONE, 2009, 4, e8388.	1.1	105
12	Complete Sequence of Virulence Plasmid pJM1 from the Marine Fish Pathogen Vibrio anguillarum Strain 775. Journal of Bacteriology, 2003, 185, 5822-5830.	1.0	86
13	Similar Genetic Architecture with Shared and Unique Quantitative Trait Loci for Bacterial Cold Water Disease Resistance in Two Rainbow Trout Breeding Populations. Frontiers in Genetics, 2017, 8, 156.	1.1	80
14	Comparative Phenotypic and Genotypic Analysis of Edwardsiella Isolates from Different Hosts and Geographic Origins, with Emphasis on Isolates Formerly Classified as E. tarda, and Evaluation of Diagnostic Methods. Journal of Clinical Microbiology, 2017, 55, 3466-3491.	1.8	70
15	Assessment of Genetic Correlation between Bacterial Cold Water Disease Resistance and Spleen Index in a Domesticated Population of Rainbow Trout: Identification of QTL on Chromosome Omy19. PLoS ONE, 2013, 8, e75749.	1.1	68
16	Transcription Termination within the Iron Transport-Biosynthesis Operon of Vibrio anguillarum Requires an Antisense RNA. Journal of Bacteriology, 2007, 189, 3479-3488.	1.0	67
17	On-farm performance of rainbow trout (Oncorhynchus mykiss) selectively bred for resistance to bacterial cold water disease: Effect of rearing environment on survival phenotype. Aquaculture, 2013, 388-391, 128-136.	1.7	65
18	Yersinia ruckeri biotype 2 isolates from mainland Europe and the UK likely represent different clonal groups. Diseases of Aquatic Organisms, 2009, 84, 25-33.	0.5	58

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19	Independent Emergence of Yersinia ruckeri Biotype 2 in the United States and Europe. Applied and Environmental Microbiology, 2011, 77, 3493-3499.	1.4	54
20	Flavobacterium branchiophilum and F.Âsuccinicans associated with bacterial gill disease in rainbow trout Oncorhynchus mykiss (Walbaum) in water recirculation aquaculture systems. Journal of Fish Diseases, 2015, 38, 409-413.	0.9	54
21	Isolation and characterization of the structural gene for OmpL, a pressure-regulated porin-like protein from the deep-sea bacterium Photobacterium species strain SS9. Journal of Bacteriology, 1996, 178, 5027-5031.	1.0	53
22	Identification of novel rainbow trout (Onchorynchus mykiss) chemokines, CXCd1 and CXCd2: mRNA expression after Yersinia ruckeri vaccination and challenge. Immunogenetics, 2006, 58, 308-323.	1.2	52
23	IncA/C Plasmid-Mediated Florfenicol Resistance in the Catfish Pathogen Edwardsiella ictaluri. Antimicrobial Agents and Chemotherapy, 2009, 53, 845-846.	1.4	52
24	Intragenomic heterogeneity in the 16<scp>S</scp> r<scp>RNA</scp> genes of <scp>F</scp>lavobacterium columnare and standard protocol for genomovar assignment. Journal of Fish Diseases, 2014, 37, 657-669.	0.9	52
25	Suggestive Association of Major Histocompatibility IB Genetic Markers with Resistance to Bacterial Cold Water Disease in Rainbow Trout (Oncorhynchus mykiss). Marine Biotechnology, 2008, 10, 429-437.	1.1	48
26	ompH gene expression is regulated by multiple environmental cues in addition to high pressure in the deep-sea bacterium Photobacterium species strain SS9. Journal of Bacteriology, 1995, 177, 1008-1016.	1.0	43
27	Plasmid-mediated iron uptake and virulence in Vibrio anguillarum. Plasmid, 2002, 48, 222-228.	0.4	43
28	Shotgun proteomic analysis of Yersinia ruckeri strains under normal and iron-limited conditions. Veterinary Research, 2016, 47, 100.	1.1	42
29	The Overlapping angB and angG Genes Are Encoded within the trans-Acting Factor Region of the Virulence Plasmid in Vibrio anguillarum: Essential Role in Siderophore Biosynthesis. Journal of Bacteriology, 2000, 182, 6762-6773.	1.0	41
30	Comparative genomic analysis of bacteriophages specific to the channel catfish pathogen Edwardsiella ictaluri. Virology Journal, 2011, 8, 6.	1.4	36
31	Characterization of the Interaction between Fur and the Iron Transport Promoter of the Virulence Plasmid in Vibrio anguillarum. Journal of Biological Chemistry, 1998, 273, 33841-33847.	1.6	35
32	Complete Genome Sequence of Flavobacterium psychrophilum Strain CSF259-93, Used To Select Rainbow Trout for Increased Genetic Resistance against Bacterial Cold Water Disease. Genome Announcements, 2014, 2, .	0.8	34
33	Construction of a virulent, green fluorescent protein-tagged Yersinia ruckeri and detection in trout tissues after intraperitoneal and immersion challenge. Diseases of Aquatic Organisms, 2005, 67, 267-272.	0.5	34
34	Identification of Flagellar Motility Genes in Yersinia ruckeri by Transposon Mutagenesis. Applied and Environmental Microbiology, 2009, 75, 6630-6633.	1.4	30
35	Cortisol Response to a Crowding Stress: Heritability and Association with Disease Resistance to Yersinia ruckeri in Rainbow Trout. North American Journal of Aquaculture, 2008, 70, 425-433.	0.7	27
36	Multilocus Variable-Number Tandem-Repeat Analysis of Yersinia ruckeri Confirms the Existence of Host Specificity, Geographic Endemism, and Anthropogenic Dissemination of Virulent Clones. Applied and Environmental Microbiology, 2018, 84, .	1.4	27

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37	Novel Role of the Lipopolysaccharide O1 Side Chain in Ferric Siderophore Transport and Virulence of Vibrio anguillarum. Infection and Immunity, 2005, 73, 5864-5872.	1.0	26
38	Yersinia ruckeri lipopolysaccharide is necessary and sufficient for eliciting a protective immune response in rainbow trout (Oncorhynchus mykiss, Walbaum). Fish and Shellfish Immunology, 2016, 49, 420-426.	1.6	26
39	Mortality associated with Weissellosis (Weissella sp.) in USA farmed rainbow trout: Potential for control by vaccination. Aquaculture, 2013, 388-391, 122-127.	1.7	25
40	Comparative susceptibility of Atlantic salmon and rainbow trout to Yersinia ruckeri: Relationship to O antigen serotype and resistance to serum killing. Veterinary Microbiology, 2011, 147, 155-161.	0.8	22
41	Evidence of major genes affecting resistance to bacterial cold water disease in rainbow trout using Bayesian methods of segregation analysis1. Journal of Animal Science, 2010, 88, 3814-3832.	0.2	21
42	Myoglobin production in emperor penguins. Journal of Experimental Biology, 2010, 213, 1901-1906.	0.8	21
43	Complete Genome Sequence of Yersinia ruckeri Strain CSF007-82, Etiologic Agent of Red Mouth Disease in Salmonid Fish. Genome Announcements, 2015, 3, .	0.8	21
44	Comparison of disease resistance between diploid, induced-triploid, and intercross-triploid rainbow trout including trout selected for resistance to Flavobacterium psychrophilum. Aquaculture, 2013, 410-411, 66-71.	1.7	18
45	Virulence and molecular variation of Flavobacterium columnare affecting rainbow trout in Idaho, USA. Aquaculture, 2016, 464, 106-110.	1.7	18
46	Proteome analysis reveals a role of rainbow trout lymphoid organs during Yersinia ruckeri infection process. Scientific Reports, 2018, 8, 13998.	1.6	18
47	Detection of the florfenicol resistance gene floR in Chryseobacterium isolates from rainbow trout. Exception to the general rule?. FEMS Microbiology Ecology, 2017, 93, .	1.3	17
48	Isolation and characterization ofLactococcus garvieaefrom rainbow trout, Onchorhyncus mykiss, from California, USA. Transboundary and Emerging Diseases, 2022, 69, 2326-2343.	1.3	17
49	Global proteomic profiling of Yersinia ruckeri strains. Veterinary Research, 2017, 48, 55.	1.1	16
50	Genome Sequence of Weissella ceti NC36, an Emerging Pathogen of Farmed Rainbow Trout in the United States. Genome Announcements, 2013, 1, .	0.8	15
51	The flagellar master operon flh <scp>DC</scp> is a pleiotropic regulator involved in motility and virulence of the fish pathogen Yersinia ruckeri. Journal of Applied Microbiology, 2017, 122, 578-588.	1.4	15
52	An oligonucleotide microarray to characterize multidrug resistant plasmids. Journal of Microbiological Methods, 2010, 81, 96-100.	0.7	14
53	Diagnostic tools for rapid detection and quantification of Weissella ceti NC36 infections in rainbow trout. Letters in Applied Microbiology, 2015, 60, 103-110.	1.0	14
54	Cloning, sequencing and overexpression of the gene encoding malate dehydrogenase from the deep-sea bacterium Photobacterium species strain SS9. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 1997, 1350, 41-46.	2.4	12

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55	Improved husbandry to control an outbreak of rainbow trout fry syndrome caused by infection with Flavobacterium psychrophilum. Journal of the American Veterinary Medical Association, 2007, 231, 114-116.	0.2	12
56	Flagellar regulation mediated by the Rcs pathway is required for virulence in the fish pathogen Yersinia ruckeri. Fish and Shellfish Immunology, 2019, 91, 306-314.	1.6	12
57	Draft Genome Sequence of Lactococcus garvieae Strain PAQ102015-99, an Outbreak Strain Isolated from a Commercial Trout Farm in the Northwestern United States. Genome Announcements, 2016, 4, .	0.8	11
58	Type IX Secretion System Effectors and Virulence of the Model Flavobacterium columnare Strain MS-FC-4. Applied and Environmental Microbiology, 2022, 88, AEM0170521.	1.4	11
59	Modified LiveEdwardsiella ictaluriVaccine, AQUAVAC-ESC, Lacks Multidrug Resistance Plasmids. Journal of Aquatic Animal Health, 2011, 23, 195-199.	0.6	10
60	Assessing the impact of swimming exercise and the relative susceptibility of rainbow trout Oncorhynchus mykiss (Walbaum) and Atlantic salmon Salmo salar L. following injection challenge with Weissella ceti. Journal of Fish Diseases, 2016, 39, 1387-1391.	0.9	10
61	Transfer of serum and cells from Yersinia ruckeri vaccinated doubled-haploid hot creek rainbow trout into outcross F1 progeny elucidates mechanisms of vaccine-induced protection. Developmental and Comparative Immunology, 2014, 44, 145-151.	1.0	9
62	Assessing peracetic acid for controlling postâ€vaccination Saprolegnia spp.â€associated mortality in juvenile Atlantic salmon Salmo salar in freshwater recirculation aquaculture systems. Aquaculture Research, 2020, 51, 2624-2627.	0.9	9
63	High pressure sensing and adaptation in the deep-sea bacterium Photobacterium species strain SS9.. Progress in Biotechnology, 1996, 13, 29-36.	0.2	8
64	Systemic granuloma observed in Atlantic salmon Salmo salar raised to market size in a freshwater recirculation aquaculture system. Aquaculture Research, 2016, 47, 3679-3683.	0.9	8
65	Acute Mortality, Bacterial Load, and Pathology of Select Lines of Adult Rainbow Trout Challenged with Weissella sp. NC36. Journal of Aquatic Animal Health, 2013, 25, 230-236.	0.6	7
66	Characterization of a novel Yersinia ruckeri serotype O1â€specific bacteriophage with virulenceâ€neutralizing activity. Journal of Fish Diseases, 2020, 43, 285-293.	0.9	6
67	Rapid genotyping assays for the identification and differentiation of Yersinia ruckeri biotype 2 strains. Letters in Applied Microbiology, 2011, 53, 383-385.	1.0	4
68	Disruption of the Francisella noatunensis subsp. orientalis pdpA Gene Results in Virulence Attenuation and Protection in Zebrafish. Infection and Immunity, 2021, 89, e0022021.	1.0	4
69	Biogeography of the fish pathogen Aeromonas salmonicida inferred by vapA genotyping. FEMS Microbiology Letters, 2019, 366, .	0.7	3
70	Assembly line biosynthesis of anguibactin, a siderophore from the fish pathogen Vibrio anguillarum. Fisheries Science, 2002, 68, 1099-1104.	0.7	3
71	Genetic characterization of heterologous Edwardsiella piscicida isolates from diverse fish hosts and virulence assessment in a Chinook salmon Oncorhynchus tshawytscha model. Journal of Fish Diseases, 2021, 44, 1959-1970.	0.9	2
72	Transferable green fluorescence-tagged pEI2 in Edwardsiella ictaluri and preliminary investigation of its effects on virulence. Diseases of Aquatic Organisms, 2013, 105, 75-79.	0.5	0

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73	Efficacy testing of 35â€yearâ€old commercially produced <scp>ERM</scp> bacterin reveals the remarkable stability of this product. Journal of Fish Diseases, 2017, 40, 1921-1924.	0.9	0