

# Paul T Monis

## List of Publications by Citations

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120  
papers

6,240  
citations

43  
h-index

76  
g-index

121  
ext. papers

6,853  
ext. citations

5.9  
avg, IF

5.81  
L-index

#	Paper	IF	Citations
120	Discrimination of all genotypes of <i>Giardia duodenalis</i> at the glutamate dehydrogenase locus using PCR-RFLP. <i>Infection, Genetics and Evolution</i> , <b>2004</b> , 4, 125-30	4.5	381
119	Comparison of SYTO9 and SYBR Green I for real-time polymerase chain reaction and investigation of the effect of dye concentration on amplification and DNA melting curve analysis. <i>Analytical Biochemistry</i> , <b>2005</b> , 340, 24-34	3.1	225
118	Molecular systematics of the parasitic protozoan <i>Giardia intestinalis</i> . <i>Molecular Biology and Evolution</i> , <b>1999</b> , 16, 1135-44	8.3	225
117	Epidemiological and molecular evidence supports the zoonotic transmission of <i>Giardia</i> among humans and dogs living in the same community. <i>Parasitology</i> , <b>2004</b> , 128, 253-62	2.7	214
116	Genetic diversity within the morphological species <i>Giardia intestinalis</i> and its relationship to host origin. <i>Infection, Genetics and Evolution</i> , <b>2003</b> , 3, 29-38	4.5	205
115	Variation in <i>Giardia</i> : implications for taxonomy and epidemiology. <i>Advances in Parasitology</i> , <b>2004</b> , 58, 69-137	3.2	193
114	Variation in <i>Giardia</i> : towards a taxonomic revision of the genus. <i>Trends in Parasitology</i> , <b>2009</b> , 25, 93-100	6.4	189
113	Demonstration of preferential binding of SYBR Green I to specific DNA fragments in real-time multiplex PCR. <i>Nucleic Acids Research</i> , <b>2003</b> , 31, e136	20.1	181
112	Molecular and phylogenetic characterisation of <i>Cryptosporidium</i> from birds. <i>International Journal for Parasitology</i> , <b>2001</b> , 31, 289-96	4.3	161
111	Enumeration of water-borne bacteria using viability assays and flow cytometry: a comparison to culture-based techniques. <i>Journal of Microbiological Methods</i> , <b>2003</b> , 55, 585-97	2.8	160
110	<i>Cryptosporidium</i> and <i>Giardia</i> -zoonoses: fact or fiction?. <i>Infection, Genetics and Evolution</i> , <b>2003</b> , 3, 233-44	4.5	144
109	Critical processes affecting <i>Cryptosporidium</i> oocyst survival in the environment. <i>Parasitology</i> , <b>2007</b> , 134, 309-23	2.7	129
108	<i>Cryptosporidium suis</i> n. sp. (Apicomplexa: Cryptosporidiidae) in pigs ( <i>Sus scrofa</i> ). <i>Journal of Parasitology</i> , <b>2004</b> , 90, 769-73	0.9	124
107	Comparison of next-generation droplet digital PCR (ddPCR) with quantitative PCR (qPCR) for enumeration of <i>Cryptosporidium</i> oocysts in faecal samples. <i>International Journal for Parasitology</i> , <b>2014</b> , 44, 1105-13	4.3	123
106	Profiling bacterial survival through a water treatment process and subsequent distribution system. <i>Journal of Applied Microbiology</i> , <b>2005</b> , 99, 175-86	4.7	109
105	Novel lineages of <i>Giardia intestinalis</i> identified by genetic analysis of organisms isolated from dogs in Australia. <i>Parasitology</i> , <b>1998</b> , 116 ( Pt 1), 7-19	2.7	102
104	Biochemistry and genetics of taste- and odor-producing cyanobacteria. <i>Harmful Algae</i> , <b>2016</b> , 54, 112-127	5.3	101

103	Genetic analysis of Giardia from hoofed farm animals reveals artiodactyl-specific and potentially zoonotic genotypes. <i>Journal of Eukaryotic Microbiology</i> , <b>1997</b> , 44, 626-35	3.6	97
102	A comparative study of carboxyfluorescein diacetate and carboxyfluorescein diacetate succinimidyl ester as indicators of bacterial activity. <i>Journal of Microbiological Methods</i> , <b>2003</b> , 52, 379-88	2.8	96
101	It's official - Cryptosporidium is a gregarine: What are the implications for the water industry?. <i>Water Research</i> , <b>2016</b> , 105, 305-313	12.5	92
100	Isolation and characterization of the gene associated with geosmin production in cyanobacteria. <i>Environmental Science &amp; Technology</i> , <b>2008</b> , 42, 8027-32	10.3	92
99	Nucleic acid amplification-based techniques for pathogen detection and identification. <i>Infection, Genetics and Evolution</i> , <b>2006</b> , 6, 2-12	4.5	92
98	Cryptosporidium--biotechnological advances in the detection, diagnosis and analysis of genetic variation. <i>Biotechnology Advances</i> , <b>2008</b> , 26, 304-17	17.8	91
97	Complete development of Cryptosporidium parvum in host cell-free culture. <i>International Journal for Parasitology</i> , <b>2004</b> , 34, 769-77	4.3	91
96	Metabolic flux network and analysis of fermentative hydrogen production. <i>Biotechnology Advances</i> , <b>2011</b> , 29, 375-87	17.8	85
95	Biosynthesis of 2-methylisoborneol in cyanobacteria. <i>Environmental Science &amp; Technology</i> , <b>2011</b> , 45, 992-8	10.3	79
94	Development and field testing of a real-time PCR assay for cylindrospermopsin-producing cyanobacteria. <i>Journal of Applied Microbiology</i> , <b>2008</b> , 104, 1503-15	4.7	79
93	Rapid, sensitive, and discriminating identification of Naegleria spp. by real-time PCR and melting-curve analysis. <i>Applied and Environmental Microbiology</i> , <b>2006</b> , 72, 5857-63	4.8	78
92	Environmental temperature controls Cryptosporidium oocyst metabolic rate and associated retention of infectivity. <i>Applied and Environmental Microbiology</i> , <b>2005</b> , 71, 3848-57	4.8	78
91	Giardia--from genome to proteome. <i>Advances in Parasitology</i> , <b>2012</b> , 78, 57-95	3.2	77
90	Culture-independent techniques for rapid detection of bacteria associated with loss of chloramine residual in a drinking water system. <i>Applied and Environmental Microbiology</i> , <b>2005</b> , 71, 6479-88	4.8	74
89	Phylogenetic Relationships among Isolates of Cryptosporidium: Evidence for Several New Species. <i>Journal of Parasitology</i> , <b>1999</b> , 85, 1126	0.9	71
88	Metabolic flux analysis of hydrogen production network by Clostridium butyricum W5: Effect of pH and glucose concentrations. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 6681-6690	6.7	64
87	Solar UV reduces Cryptosporidium parvum oocyst infectivity in environmental waters. <i>Journal of Applied Microbiology</i> , <b>2008</b> , 104, 1311-23	4.7	62
86	Cell culture-Taqman PCR assay for evaluation of Cryptosporidium parvum disinfection. <i>Applied and Environmental Microbiology</i> , <b>2003</b> , 69, 2505-11	4.8	62

85	Benthic cyanobacteria: A source of cylindrospermopsin and microcystin in Australian drinking water reservoirs. <i>Water Research</i> , <b>2017</b> , 124, 454-464	12.5	60
84	Molecular and phylogenetic analysis of <i>Cryptosporidium muris</i> from various hosts. <i>Parasitology</i> , <b>2000</b> , 120 ( Pt 5), 457-64	2.7	55
83	Pathogen and Particle Associations in Wastewater: Significance and Implications for Treatment and Disinfection Processes. <i>Advances in Applied Microbiology</i> , <b>2016</b> , 97, 63-119	4.9	54
82	A molecular phylogeny of nuclear and mitochondrial sequences in <i>Hymenolepis nana</i> (Cestoda) supports the existence of a cryptic species. <i>Parasitology</i> , <b>2002</b> , 125, 567-75	2.7	53
81	Biodegradation of multiple cyanobacterial metabolites in drinking water supplies. <i>Chemosphere</i> , <b>2012</b> , 87, 1149-54	8.4	48
80	Emerging technologies for the detection and genetic characterization of protozoan parasites. <i>Trends in Parasitology</i> , <b>2005</b> , 21, 340-6	6.4	48
79	Genetic manipulation of butyrate formation pathways in <i>Clostridium butyricum</i> . <i>Journal of Biotechnology</i> , <b>2011</b> , 155, 269-74	3.7	46
78	Cooperative biodegradation of geosmin by a consortium comprising three gram-negative bacteria isolated from the biofilm of a sand filter column. <i>Letters in Applied Microbiology</i> , <b>2006</b> , 43, 417-23	2.9	44
77	Multi-locus analysis of <i>Giardia duodenalis</i> intra-Assemblage B substitution patterns in cloned culture isolates suggests sub-Assemblage B analyses will require multi-locus genotyping with conserved and variable genes. <i>International Journal for Parasitology</i> , <b>2011</b> , 41, 495-503	4.3	43
76	The isolation and microbial community analysis of hydrogen producing bacteria from activated sludge. <i>Journal of Applied Microbiology</i> , <b>2007</b> , 103, 1415-23	4.7	43
75	Using Amplicon Sequencing To Characterize and Monitor Bacterial Diversity in Drinking Water Distribution Systems. <i>Applied and Environmental Microbiology</i> , <b>2015</b> , 81, 6463-73	4.8	42
74	Comparison of drinking water treatment process streams for optimal bacteriological water quality. <i>Water Research</i> , <b>2012</b> , 46, 3934-42	12.5	42
73	<i>Cryptosporidium</i> spp. in domestic dogs: the "dog" genotype. <i>Applied and Environmental Microbiology</i> , <b>2000</b> , 66, 2220-3	4.8	42
72	Zoonotic <i>Cryptosporidium</i> Species in Animals Inhabiting Sydney Water Catchments. <i>PLoS ONE</i> , <b>2016</b> , 11, e0168169	3.7	42
71	Use of DNA melting simulation software for in silico diagnostic assay design: targeting regions with complex melting curves and confirmation by real-time PCR using intercalating dyes. <i>BMC Bioinformatics</i> , <b>2007</b> , 8, 107	3.6	40
70	Cyst morphology and sequence analysis of the small subunit rDNA and ef1 alpha identifies a novel <i>Giardia</i> genotype in a quenda ( <i>Isoodon obesulus</i> ) from Western Australia. <i>Infection, Genetics and Evolution</i> , <b>2004</b> , 4, 365-70	4.5	40
69	A genetic and metabolic approach to redirection of biochemical pathways of <i>Clostridium butyricum</i> for enhancing hydrogen production. <i>Biotechnology and Bioengineering</i> , <b>2013</b> , 110, 338-42	4.9	38
68	Multiplication of the waterborne pathogen <i>Cryptosporidium parvum</i> in an aquatic biofilm system. <i>Parasites and Vectors</i> , <b>2013</b> , 6, 270	4	38

67	Molecular epidemiology: a multidisciplinary approach to understanding parasitic zoonoses. <i>International Journal for Parasitology</i> , <b>2005</b> , 35, 1295-307	4.3	38
66	Cryptosporidium species and subtypes in animals inhabiting drinking water catchments in three states across Australia. <i>Water Research</i> , <b>2018</b> , 134, 327-340	12.5	37
65	Development of a nested-PCR assay for the detection of <i>Cryptosporidium parvum</i> in finished water. <i>Water Research</i> , <b>2001</b> , 35, 1641-8	12.5	37
64	Isolates of <i>Candidatus Nostocoida limicola</i> Blackall et al. 2000 should be described as three novel species of the genus <i>Tetrasphaera</i> , as <i>Tetrasphaera jenkinsii</i> sp. nov., <i>Tetrasphaera vanveenii</i> sp. nov. and <i>Tetrasphaera veronensis</i> sp. nov. <i>International Journal of Systematic and Evolutionary Microbiology</i> , <b>2006</b> , 56, 2279-2290	2.2	36
63	Monitoring of geosmin producing <i>Anabaena circinalis</i> using quantitative PCR. <i>Water Research</i> , <b>2014</b> , 49, 416-25	12.5	34
62	Biodegradation of geosmin by a novel Gram-negative bacterium; isolation, phylogenetic characterisation and degradation rate determination. <i>Water Research</i> , <b>2009</b> , 43, 2927-35	12.5	34
61	Molecular characterisation of <i>Cryptosporidium</i> and <i>Giardia</i> in cats ( <i>Felis catus</i> ) in Western Australia. <i>Experimental Parasitology</i> , <b>2015</b> , 155, 13-8	2.1	31
60	Complete development and multiplication of <i>Cryptosporidium hominis</i> in cell-free culture. <i>Veterinary Parasitology</i> , <b>2010</b> , 169, 29-36	2.8	30
59	Assessing the impact of water treatment on bacterial biofilms in drinking water distribution systems using high-throughput DNA sequencing. <i>Chemosphere</i> , <b>2014</b> , 117, 185-92	8.4	29
58	Molecular epidemiology: assumptions and limitations of commonly applied methods. <i>International Journal for Parasitology</i> , <b>1998</b> , 28, 981-7	4.3	28
57	Profiling the diversity of <i>Cryptosporidium</i> species and genotypes in wastewater treatment plants in Australia using next generation sequencing. <i>Science of the Total Environment</i> , <b>2018</b> , 644, 635-648	10.2	27
56	Extracellular excystation and development of <i>Cryptosporidium</i> : tracing the fate of oocysts within <i>Pseudomonas aquatic</i> biofilm systems. <i>BMC Microbiology</i> , <b>2014</b> , 14, 281	4.5	27
55	Biochemical kinetics of fermentative hydrogen production by <i>Clostridium butyricum</i> W5. <i>International Journal of Hydrogen Energy</i> , <b>2009</b> , 34, 791-798	6.7	27
54	<i>Legionella</i> confirmation using real-time PCR and SYTO9 is an alternative to current methodology. <i>Applied and Environmental Microbiology</i> , <b>2005</b> , 71, 8944-8	4.8	27
53	Comparison of the levels of intra-specific genetic variation within <i>Giardia muris</i> and <i>Giardia intestinalis</i> . <i>International Journal for Parasitology</i> , <b>1998</b> , 28, 1179-85	4.3	26
52	Molecular biology techniques in parasite ecology. <i>International Journal for Parasitology</i> , <b>2002</b> , 32, 551-62	4.3	26
51	Investigating source water <i>Cryptosporidium</i> concentration, species and infectivity rates during rainfall-runoff in a multi-use catchment. <i>Water Research</i> , <b>2014</b> , 67, 310-20	12.5	25
50	Identification of polymorphic genes for use in assemblage B genotyping assays through comparative genomics of multiple assemblage B <i>Giardia duodenalis</i> isolates. <i>Molecular and Biochemical Parasitology</i> , <b>2015</b> , 201, 1-4	1.9	24

49	Novel toxic effects associated with a tropical <i>Limnothrix</i> / <i>Geitlerinema</i> -like cyanobacterium. <i>Environmental Toxicology</i> , <b>2011</b> , 26, 260-70	4.2	24
48	Polyphasic identification of cyanobacterial isolates from Australia. <i>Water Research</i> , <b>2014</b> , 59, 248-61	12.5	22
47	Humans, dogs and parasitic zoonoses--unravelling the relationships in a remote endemic community in northeast India using molecular tools. <i>Parasitology Research</i> , <b>2003</b> , 90 Suppl 3, S156-7	2.4	22
46	Understanding human infectious <i>Cryptosporidium</i> risk in drinking water supply catchments. <i>Water Research</i> , <b>2018</b> , 138, 282-292	12.5	21
45	Comparison of various staining methods for the detection of <i>Cryptosporidium</i> in cell-free culture. <i>Experimental Parasitology</i> , <b>2008</b> , 120, 67-72	2.1	21
44	The importance of systematics in parasitological research. <i>International Journal for Parasitology</i> , <b>1999</b> , 29, 381-8	4.3	20
43	<i>Cryptosporidium</i> cell culture infectivity assay design. <i>Parasitology</i> , <b>2011</b> , 138, 671-81	2.7	19
42	Wastewater-based epidemiology-surveillance and early detection of waterborne pathogens with a focus on SARS-CoV-2, <i>Cryptosporidium</i> and <i>Giardia</i> . <i>Parasitology Research</i> , <b>2021</b> , 120, 4167-4188	2.4	18
41	<i>Cryptosporidium</i> Attenuation across the Wastewater Treatment Train: Recycled Water Fit for Purpose. <i>Applied and Environmental Microbiology</i> , <b>2017</b> , 83,	4.8	17
40	EXPRESSION OF THE GEOSMIN SYNTHASE GENE IN THE CYANOBACTERIUM ANABAENA CIRCINALIS AWQC318(1). <i>Journal of Phycology</i> , <b>2011</b> , 47, 1338-43	3	17
39	Development and Evaluation of Three Real-Time PCR Assays for Genotyping and Source Tracking <i>Cryptosporidium</i> spp. in Water. <i>Applied and Environmental Microbiology</i> , <b>2015</b> , 81, 5845-54	4.8	15
38	Is nitrification the only cause of microbiologically induced chloramine decay?. <i>Water Research</i> , <b>2016</b> , 88, 904-911	12.5	15
37	Dissection of the hierarchy and synergism of the bile derived signal on <i>Cryptosporidium parvum</i> excystation and infectivity. <i>Parasitology</i> , <b>2012</b> , 139, 1533-46	2.7	15
36	Effect of water treatment processes on <i>Cryptosporidium</i> infectivity. <i>Water Research</i> , <b>2008</b> , 42, 1805-11	12.5	14
35	Integrated <i>cryptosporidium</i> assay to determine oocyst density, infectivity, and genotype for risk assessment of source and reuse water. <i>Applied and Environmental Microbiology</i> , <b>2015</b> , 81, 3471-81	4.8	13
34	Virus removal by ultrafiltration: Understanding long-term performance change by application of Bayesian analysis. <i>Water Research</i> , <b>2017</b> , 122, 269-279	12.5	13
33	Organoids and Bioengineered Intestinal Models: Potential Solutions to the Culturing Dilemma. <i>Microorganisms</i> , <b>2020</b> , 8,	4.9	12
32	Toolbox for the sampling and monitoring of benthic cyanobacteria. <i>Water Research</i> , <b>2020</b> , 169, 115222	12.5	12

31	Evaluation of chromogenic technologies for use in Australian potable water. <i>Journal of Applied Microbiology</i> , <b>2008</b> , 105, 1138-49	4.7	11
30	Selection of surrogate pathogens and process indicator organisms for pasteurisation of municipal wastewater. A survey of literature data on heat inactivation of pathogens. <i>Chemical Engineering Research and Design</i> , <b>2020</b> , 133, 301-314	5.5	11
29	Virus removal of new and aged UF membranes at full-scale in a wastewater reclamation plant. <i>Environmental Science: Water Research and Technology</i> , <b>2016</b> , 2, 1014-1021	4.2	11
28	DNA extraction from benthic Cyanobacteria: comparative assessment and optimization. <i>Journal of Applied Microbiology</i> , <b>2017</b> , 122, 294-304	4.7	10
27	Do skin peptide profiles reflect speciation in the Australian treefrog <i>Litoria caerulea</i> (Anura : Hylidae)?. <i>Australian Journal of Zoology</i> , <b>2000</b> , 48, 33	0.5	10
26	Epidemiological evaluation of sewage surveillance as a tool to detect the presence of COVID-19 cases in a low case load setting. <i>Science of the Total Environment</i> , <b>2021</b> , 786, 147469	10.2	10
25	Risk-based management of drinking water safety in Australia: Implementation of health based targets to determine water treatment requirements and identification of pathogen surrogates for validation of conventional filtration. <i>Food and Waterborne Parasitology</i> , <b>2017</b> , 8-9, 64-74	6	9
24	Detection and significance of the potentially pathogenic amoeboflagellate <i>Naegleria italica</i> in Australia. <i>Parasitology International</i> , <b>2004</b> , 53, 23-7	2.1	9
23	Solar radiation induces non-nuclear perturbations and a false start to regulated exocytosis in <i>Cryptosporidium parvum</i> . <i>PLoS ONE</i> , <b>2010</b> , 5, e11773	3.7	9
22	Independent validation and regulatory agency approval for high rate algal ponds to treat wastewater from rural communities. <i>Environmental Science: Water Research and Technology</i> , <b>2018</b> , 4, 195-205	4.2	8
21	Flow cytometric assessment of distinct physiological stages within <i>Cryptosporidium parvum</i> sporozoites post-exystation. <i>Parasitology</i> , <b>2009</b> , 136, 953-66	2.7	7
20	Novel Primer Sets for Next Generation Sequencing-Based Analyses of Water Quality. <i>PLoS ONE</i> , <b>2017</b> , 12, e0170008	3.7	6
19	Disaggregation of colonies of <i>Microcystis</i> (Cyanobacteria): efficiency of two techniques assessed using an image analysis system. <i>Journal of Applied Phycology</i> , <b>2004</b> , 16, 117-125	3.2	5
18	Inactivation, removal, and regrowth potential of opportunistic pathogens and antimicrobial resistance genes in recycled water systems. <i>Water Research</i> , <b>2021</b> , 201, 117324	12.5	5
17	Taxonomy of <i>Giardia</i> Species <b>2011</b> , 3-15		4
16	Disposable microfluidic micromixers for effective capture of oocysts from water samples. <i>Journal of Biological Engineering</i> , <b>2018</b> , 12, 4	6.3	3
15	PCR slippage across the ML-2 microsatellite of the <i>Cryptosporidium</i> MIC1 locus enables development of a PCR assay capable of distinguishing the zoonotic <i>Cryptosporidium parvum</i> from other human infectious <i>Cryptosporidium</i> species. <i>Zoonoses and Public Health</i> , <b>2014</b> , 61, 324-37	2.9	3
14	Validation of activated sludge plant performance for virus and protozoan reduction. <i>Journal of Water Reuse and Desalination</i> , <b>2013</b> , 3, 140-147	2.6	3



13	Field based pilot-scale drinking water distribution system: Simulation of long hydraulic retention times and microbiological mediated monochloramine decay. <i>MethodsX</i> , <b>2018</b> , 5, 684-696	1.9	2
12	Evaluation of heterotrophic plate and chromogenic agar colony counting in water quality laboratories. <i>MethodsX</i> , <b>2015</b> , 2, 415-22	1.9	2
11	Evaluating membrane performance in recycled water treatment plants for assets replacement strategy. <i>Water Science and Technology</i> , <b>2017</b> , 76, 2941-2948	2.2	1
10	Removal of pathogens by functionalised self-assembled monolayers <b>2008</b> , 57, 93-100		1
9	Stormwater monitoring using on-line UV-Vis spectroscopy. <i>Environmental Science and Pollution Research</i> , <b>2021</b> , 1	5.1	1
8	Wastewater monitoring for SARS-CoV-2. <i>Microbiology Australia</i> , <b>2021</b> , 42, 18	0.8	1
7	Removal and Inactivation of Cryptosporidium from Water <b>2014</b> , 515-552		0
6	Sanitation: Thwart fatal infant gut parasite. <i>Nature</i> , <b>2014</b> , 507, 431	50.4	
5	Cryptosporidium and the Environment Overview and Summary <b>2003</b> , 387-392		
4	The Use of Cell Culture and Real-time PCR to Assess Disinfection of Cryptosporidium Parvum <b>2003</b> , 257-260		
3	Evaluation of Oocyst DNA Extraction Methods Using Real-time PCR <b>2003</b> , 177-180		
2	A Novel and Rapid Legionella Detection System for Water Analysis 453-455		
1	Effectiveness and Energy Requirements of Pasteurisation for the Treatment of Unfiltered Secondary Effluent from a Municipal Wastewater Treatment Plant. <i>Water (Switzerland)</i> , <b>2020</b> , 12, 2100 <sup>3</sup>		