John P Dalton

List of Publications by Year in descending order

83 papers	4,773 citations	117625 34 h-index	98798 67 g-index
86 all docs	86 docs citations	86 times ranked	3025 citing authors

#	Article	IF	Citations
1	Proteinases and Associated Genes of Parasitic Helminths. Advances in Parasitology, 1999, 43, 161-266.	3.2	253
2	An Integrated Transcriptomics and Proteomics Analysis of the Secretome of the Helminth Pathogen Fasciola hepatica. Molecular and Cellular Proteomics, 2009, 8, 1891-1907.	3.8	244
3	Fasciola hepatica cathepsin L-like proteases: biology, function, and potential in the development of first generation liver fluke vaccines. International Journal for Parasitology, 2003, 33, 1173-1181.	3.1	238
4	The Fasciola hepatica genome: gene duplication and polymorphism reveals adaptation to the host environment and the capacity for rapid evolution. Genome Biology, 2015, 16, 71.	8.8	224
5	The Extracellular Vesicles of the Helminth Pathogen, Fasciola hepatica: Biogenesis Pathways and Cargo Molecules Involved in Parasite Pathogenesis*. Molecular and Cellular Proteomics, 2015, 14, 3258-3273.	3.8	194
6	The silencing of cysteine proteases in Fasciola hepatica newly excysted juveniles using RNA interference reduces gut penetration. International Journal for Parasitology, 2008, 38, 149-155.	3.1	163
7	Immunomodulatory molecules of Fasciola hepatica: Candidates for both vaccine and immunotherapeutic development. Veterinary Parasitology, 2013, 195, 272-285.	1.8	162
8	Cathepsin L1, the Major Protease Involved in Liver Fluke (Fasciola hepatica) Virulence. Journal of Biological Chemistry, 2004, 279, 17038-17046.	3.4	141
9	Thiol proteases released in vitro by Fasciola hepatica. Molecular and Biochemical Parasitology, 1989, 35, 161-166.	1.1	138
10	Purification of a cathepsin L-like proteinase secreted by adult Fasciola hepatica. Molecular and Biochemical Parasitology, 1993, 62, 1-8.	1.1	138
11	Zoonotic helminth infections with particular emphasis on fasciolosis and other trematodiases. Philosophical Transactions of the Royal Society B: Biological Sciences, 2009, 364, 2763-2776.	4.0	134
12	Structural basis for the inhibition of the essential Plasmodium falciparum M1 neutral aminopeptidase. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 2537-2542.	7.1	133
13	Helminth pathogen cathepsin proteases: itâ€™s a family affair. Trends in Biochemical Sciences, 2008, 33, 601-608.	7.5	122
14	Fasciola hepatica: Parasite-Secreted Proteinases Degrade All Human IgG Subclasses: Determination of the Specific Cleavage Sites and Identification of the Immunoglobulin Fragments Produced. Experimental Parasitology, 2000, 94, 99-110.	1.2	118
15	Proteomics and Phylogenetic Analysis of the Cathepsin L Protease Family of the Helminth Pathogen Fasciola hepatica. Molecular and Cellular Proteomics, 2008, 7, 1111-1123.	3.8	118
16	A Family of Helminth Molecules that Modulate Innate Cell Responses via Molecular Mimicry of Host Antimicrobial Peptides. PLoS Pathogens, 2011, 7, e1002042.	4.7	115
17	Plasmodium falciparum neutral aminopeptidases: new targets for anti-malarials. Trends in Biochemical Sciences, 2010, 35, 53-61.	7.5	108
18	The role of aminopeptidases in haemoglobin degradation in Plasmodium falciparum-infected erythrocytes. Molecular and Biochemical Parasitology, 2001, 117, 37-48.	1.1	95

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19	Purification and characterisation of a second cathepsin L proteinase secreted by the parasitic trematode Fasciola hepatica. FEBS Journal, 1994, 223, 91-98.	0.2	91
20	Structural and Functional Relationships in the Virulence-associated Cathepsin L Proteases of the Parasitic Liver Fluke, Fasciola hepatica. Journal of Biological Chemistry, 2008, 283, 9896-9908.	3.4	90
21	Surface molecules of extracellular vesicles secreted by the helminth pathogen Fasciola hepatica direct their internalisation by host cells. PLoS Neglected Tropical Diseases, 2019, 13, e0007087.	3.0	88
22	Infection by the Helminth Parasite Fasciola hepatica Requires Rapid Regulation of Metabolic, Virulence, and Invasive Factors to Adjust to Its Mammalian Host. Molecular and Cellular Proteomics, 2018, 17, 792-809.	3.8	76
23	Chapter 4 Peptidases of Trematodes. Advances in Parasitology, 2009, 69, 205-297.	3.2	70
24	The Importance of pH in Regulating the Function of the Fasciola hepatica Cathepsin L1 Cysteine Protease. PLoS Neglected Tropical Diseases, 2009, 3, e369.	3.0	69
25	Collagenolytic Activities of the Major Secreted Cathepsin L Peptidases Involved in the Virulence of the Helminth Pathogen, Fasciola hepatica. PLoS Neglected Tropical Diseases, 2011, 5, e1012.	3.0	66
26	Secreted Proteins from the Helminth Fasciola hepatica Inhibit the Initiation of Autoreactive T Cell Responses and Prevent Diabetes in the NOD Mouse. PLoS ONE, 2014, 9, e86289.	2.5	59
27	Cysteine Peptidases as Schistosomiasis Vaccines with Inbuilt Adjuvanticity. PLoS ONE, 2014, 9, e85401.	2.5	57
28	Fasciola hepatica Surface Tegument: Glycoproteins at the Interface of Parasite and Host. Molecular and Cellular Proteomics, 2016, 15, 3139-3153.	3.8	55
29	The Diagnosis of Human Fascioliasis by Enzyme-Linked Immunosorbent Assay (ELISA) Using Recombinant Cathepsin L Protease. PLoS Neglected Tropical Diseases, 2013, 7, e2414.	3.0	54
30	The cathepsin-like cysteine peptidases of trematodes of the genus Fasciola. Advances in Parasitology, 2019, 104, 113-164.	3.2	46
31	RNAi Dynamics in Juvenile Fasciola spp. Liver Flukes Reveals the Persistence of Gene Silencing In Vitro. PLoS Neglected Tropical Diseases, 2014, 8, e3185.	3.0	44
32	Protective immune responses against Schistosoma mansoni infection by immunization with functionally active gut-derived cysteine peptidases alone and in combination with glyceraldehyde 3-phosphate dehydrogenase. PLoS Neglected Tropical Diseases, 2017, 11, e0005443.	3.0	43
33	Fasciola hepatica-Derived Molecules as Regulators of the Host Immune Response. Frontiers in Immunology, 2020, 11, 2182.	4.8	42
34	Pathogenicity and virulence of the liver flukesFasciola hepaticaandFasciolaGiganticathat cause the zoonosis Fasciolosis. Virulence, 2021, 12, 2839-2867.	4.4	42
35	A vaccine consisting of Schistosoma mansoni cathepsin B formulated in Montanide ISA 720 VG induces high level protection against murine schistosomiasis. BMC Infectious Diseases, 2016, 16, 112.	2.9	41
36	Advances in Fasciola hepatica research using â€˜omicsâ€™ technologies. International Journal for Parasitology, 2018, 48, 321-331.	3.1	39

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37	Fasciola hepatica Extracellular Vesicles isolated from excretory-secretory products using a gravity flow method modulate dendritic cell phenotype and activity. PLoS Neglected Tropical Diseases, 2020, 14, e0008626.	3.0	38
38	Induction of Protective Immune Responses Against Schistosomiasis haematobium in Hamsters and Mice Using Cysteine Peptidase-Based Vaccine. Frontiers in Immunology, 2015, 6, 130.	4.8	37
39	Innate immunogenicity and in vitro protective potential of Schistosoma mansoni lung schistosomula excretoryâ€“secretory candidate vaccine antigens. Microbes and Infection, 2010, 12, 700-709.	1.9	35
40	A parasite-derived 68-mer peptide ameliorates autoimmune disease in murine models of Type 1 diabetes and multiple sclerosis. Scientific Reports, 2016, 6, 37789.	3.3	34
41	Induction of protective immune responses against schistosomiasis using functionally active cysteine peptidases. Frontiers in Genetics, 2014, 5, 119.	2.3	33
42	Immune signatures of pathogenesis in the peritoneal compartment during early infection of sheep with Fasciola hepatica. Scientific Reports, 2017, 7, 2782.	3.3	33
43	Tegument Glycoproteins and Cathepsins of Newly Excysted Juvenile Fasciola hepatica Carry Mannosidic and Paucimannosidic N-glycans. PLoS Neglected Tropical Diseases, 2016, 10, e0004688.	3.0	32
44	The Major Secreted Cathepsin L1 Protease of the Liver Fluke, Fasciola hepatica. Journal of Biological Chemistry, 2007, 282, 16532-16543.	3.4	30
45	Dissecting the Active Site of the Collagenolytic Cathepsin L3 Protease of the Invasive Stage of Fasciola hepatica. PLoS Neglected Tropical Diseases, 2013, 7, e2269.	3.0	29
46	Unexpected Activity of a Novel Kunitz-type Inhibitor. Journal of Biological Chemistry, 2016, 291, 19220-19234.	3.4	29
47	Complementary transcriptomic and proteomic analyses reveal the cellular and molecular processes that drive growth and development of Fasciola hepatica in the host liver. BMC Genomics, 2021, 22, 46.	2.8	28
48	Cysteine proteases during larval migration and development of helminths in their final host. PLoS Neglected Tropical Diseases, 2018, 12, e0005919.	3.0	27
49	Evaluation of the immune response and protective efficacy of Schistosoma mansoni Cathepsin B in mice using CpG dinucleotides as adjuvant. Vaccine, 2015, 33, 346-353.	3.8	26
50	Complex and dynamic transcriptional changes allow the helminth Fasciola gigantica to adjust to its intermediate snail and definitive mammalian hosts. BMC Genomics, 2019, 20, 729.	2.8	26
51	Antibody recognition of cathepsin L1-derived peptides in Fasciola hepatica-infected and/or vaccinated cattle and identification of protective linear B-cell epitopes. Vaccine, 2018, 36, 958-968.	3.8	24
52	The Plasmodium falciparum Malaria M1 Alanyl Aminopeptidase (PfA-M1): Insights of Catalytic Mechanism and Function from MD Simulations. PLoS ONE, 2011, 6, e28589.	2.5	24
53	The Endemicity of Human Fascioliasis in Guilan Province, Northern Iran: the Baseline for Implementation of Control Strategies. Iranian Journal of Public Health, 2015, 44, 501-11.	0.5	24
54	De-glycosylation of Pichia pastoris-produced Schistosoma mansoni cathepsin B eliminates non-specific reactivity with IgG in normal human serum. Journal of Immunological Methods, 2005, 304, 151-157.	1.4	21

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55	Recombinant vacuolar iron transporter family homologue PfVIT from human malaria-causing Plasmodium falciparum is a Fe2+/H+exchanger. Scientific Reports, 2017, 7, 42850.	3.3	20
56	A secreted schistosome cathepsin B1 cysteine protease and acute schistosome infection induce a transient T helper 17 response. PLoS Neglected Tropical Diseases, 2019, 13, e0007070.	3.0	20
57	Fasciola hepatica serine protease inhibitor family (serpins): Purposely crafted for regulating host proteases. PLoS Neglected Tropical Diseases, 2020, 14, e0008510.	3.0	20
58	A parasitic helminth-derived peptide that targets the macrophage lysosome is a novel therapeutic option for autoimmune disease. Immunobiology, 2015, 220, 262-269.	1.9	19
59	Diagnosis of sheep fasciolosis caused by Fasciola hepatica using cathepsin L enzyme-linked immunosorbent assays (ELISA). Veterinary Parasitology, 2021, 298, 109517.	1.8	17
60	Fasciola hepatica: comparison of immature and mature immunoreactive glycoproteins. Parasite Immunology, 1985, 7, 643-657.	1.5	15
61	Identification of Potent and Selective Inhibitors of the Plasmodium falciparum M18 Aspartyl Aminopeptidase (PfM18AAP) of Human Malaria via High-Throughput Screening. Journal of Biomolecular Screening, 2014, 19, 1107-1115.	2.6	15
62	A Plasmodium falciparum S33 proline aminopeptidase is associated with changes in erythrocyte deformability. Experimental Parasitology, 2016, 169, 13-21.	1.2	15
63	Large-scale growth of the Plasmodium falciparum malaria parasite in a wave bioreactor. International Journal for Parasitology, 2012, 42, 215-220.	3.1	14
64	An atypical and functionally diverse family of Kunitz-type cysteine/serine proteinase inhibitors secreted by the helminth parasite Fasciola hepatica. Scientific Reports, 2020, 10, 20657.	3.3	14
65	Biochemical and cellular characterisation of the Plasmodium falciparum M1 alanyl aminopeptidase (PfM1AAP) and M17 leucyl aminopeptidase (PfM17LAP). Scientific Reports, 2021, 11, 2854.	3.3	14
66	In silico analyses of protein glycosylating genes in the helminth Fasciola hepatica (liver fluke) predict protein-linked glycan simplicity and reveal temporally-dynamic expression profiles. Scientific Reports, 2018, 8, 11700.	3.3	13
67	Eudiplozoon nipponicum (Monogenea, Diplozoidae) and its adaptation to haematophagy as revealed by transcriptome and secretome profiling. BMC Genomics, 2021, 22, 274.	2.8	13
68	Autonomous Non Antioxidant Roles for Fasciola hepatica Secreted Thioredoxin-1 and Peroxiredoxin-1. Frontiers in Cellular and Infection Microbiology, 2021, 11, 667272.	3.9	13
69	Fasciola hepatica is refractory to complement killing by preventing attachment of mannose binding lectin (MBL) and inhibiting MBL-associated serine proteases (MASPs) with serpins. PLoS Pathogens, 2022, 18, e1010226.	4.7	13
70	Immune Mechanisms Involved in Schistosoma mansoni-Cathepsin B Vaccine Induced Protection in Mice. Frontiers in Immunology, 2018, 9, 1710.	4.8	11
71	Protection against Schistosoma haematobium infection in hamsters by immunization with Schistosoma mansoni gut-derived cysteine peptidases, SmCB1 and SmCL3. Vaccine, 2017, 35, 6977-6983.	3.8	10
72	Recognition Pattern of the Fasciola hepatica Excretome/Secretome during the Course of an Experimental Infection in Sheep by 2D Immunoproteomics. Pathogens, 2021, 10, 725.	2.8	10

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73	Targeting Secreted Protease/Anti-Protease Balance as a Vaccine Strategy against the Helminth Fasciola hepatica. Vaccines, 2022, 10, 155.	4.4	10
74	Stage-specific miRNAs regulate gene expression associated with growth, development and parasite-host interaction during the intra-mammalian migration of the zoonotic helminth parasite Fasciola hepatica. BMC Genomics, 2022, 23, .	2.8	10
75	Improved diagnosis of SARS-CoV-2 by using nucleoprotein and spike protein fragment 2 in quantitative dual ELISA tests. Epidemiology and Infection, 2021, 149, e140.	2.1	9
76	Schistosoma mansoni immunomodulatory molecule Sm16/SPO-1/SmSLP is a member of the trematode-specific helminth defence molecules (HDMs). PLoS Neglected Tropical Diseases, 2020, 14, e0008470.	3.0	8
77	Steered molecular dynamics simulations reveal critical residues for (un)binding of substrates, inhibitors and a product to the malarial M1 aminopeptidase. PLoS Computational Biology, 2018, 14, e1006525.	3.2	7
78	The Zoonotic Helminth Parasite Fasciola hepatica: Virulence-Associated Cathepsin B and Cathepsin L Cysteine Peptidases Secreted by Infective Newly Excysted Juveniles (NEJ). Animals, 2021, 11, 3495.	2.3	7
79	Tuaimenal A, a Meroterpene from the Irish Deep-Sea Soft Coral Duva florida, Displays Inhibition of the SARS-CoV-2 3CLpro Enzyme. Journal of Natural Products, 2022, 85, 1315-1323.	3.0	6
80	The Impact of Lung Proteases on Snake-Derived Antimicrobial Peptides. Biomolecules, 2021, 11, 1106.	4.0	5
81	Activating the Cathepsin B1 of a Parasite: A Major Route with Alternative Pathways?. Structure, 2014, 22, 1696-1698.	3.3	3
82	Regulation of the Fasciola hepatica newly excysted juvenile cathepsin L3 (FhCL3) by its propeptide: a proposed â€˜clamp-likeâ€™ mechanism of binding and inhibition. BMC Molecular and Cell Biology, 2020, 21, 90.	2.0	2
83	Antigen-specific response of CD4+ T cells and hepatic lymph node cells to Fasciola hepatica-derived molecules at the early and late stage of the infection in sheep. Veterinary Research, 2021, 52, 99.	3.0	0