Sheila M Donnelly

List of Publications by Year
in descending order

74 papers	4,538 citations	109321 35 h-index	106344 65 g-index
75 all docs	75 docs citations	75 times ranked	3714 citing authors

#	Article	IF	Citations
1	Thioredoxin Peroxidase Secreted by Fasciola hepatica Induces the Alternative Activation of Macrophages. Infection and Immunity, 2005, 73, 166-173.	2.2	258
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 choice of phorbol 12-myristate 13-acetate differentiation protocol influences the response of THP-1 macrophages to a pro-inflammatory stimulus. Journal of Immunological Methods, 2016, 430, 64-70.	1.4	236
5	Helminth 2â€Cys peroxiredoxin drives Th2 responses through a mechanism involving alternatively activated macrophages. FASEB Journal, 2008, 22, 4022-4032.	0.5	210
6	Immunomodulatory molecules of Fasciola hepatica: Candidates for both vaccine and immunotherapeutic development. Veterinary Parasitology, 2013, 195, 272-285.	1.8	162
7	Fasciola hepatica vaccine: We may not be there yet but weâ€™re on the right road. Veterinary Parasitology, 2015, 208, 101-111.	1.8	158
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	Structural basis for the inhibition of the essential <i>Plasmodium falciparum</i> M1 neutral aminopeptidase. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 2537-2542.	7.1	133
10	Helminth Cysteine Proteases Inhibit TRIF-dependent Activation of Macrophages via Degradation of TLR3. Journal of Biological Chemistry, 2010, 285, 3383-3392.	3.4	123
11	Helminth pathogen cathepsin proteases: itâ€™s a family affair. Trends in Biochemical Sciences, 2008, 33, 601-608.	7.5	122
12	Major Secretory Antigens of the Helminth <i>Fasciola hepatica</i> Activate a Suppressive Dendritic Cell Phenotype That Attenuates Th17 Cells but Fails To Activate Th2 Immune Responses. Infection and Immunity, 2010, 78, 793-801.	2.2	119
13	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
14	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
15	Characterization of the Plasmodium falciparum M17 Leucyl Aminopeptidase. Journal of Biological Chemistry, 2007, 282, 2069-2080.	3.4	111
16	Protection of cattle against a natural infection of Fasciola hepatica by vaccination with recombinant cathepsin L1 (rFhCL1). Vaccine, 2010, 28, 5551-5557.	3.8	111
17	Peroxiredoxin: a central player in immune modulation. Parasite Immunology, 2010, 32, 305-313.	1.5	102
18	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

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19	Helminth vaccines: from mining genomic information for vaccine targets to systems used for protein expression. International Journal for Parasitology, 2003, 33, 621-640.	3.1	88
20	Leucine aminopeptidase of the human blood flukes, Schistosoma mansoni and Schistosoma japonicum. International Journal for Parasitology, 2004, 34, 703-714.	3.1	78
21	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
22	A helminth cathelicidinâ€like protein suppresses antigen processing and presentation in macrophages<i>via</i>inhibition of lysosomal vATPase. FASEB Journal, 2012, 26, 4614-4627.	0.5	71
23	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
24	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
25	Cysteine Peptidases as Schistosomiasis Vaccines with Inbuilt Adjuvanticity. PLoS ONE, 2014, 9, e85401.	2.5	57
26	The immune modulatory peptide FhHDMâ€1 secreted by the helminth Fasciola hepatica prevents NLRP3 inflammasome activation by inhibiting endolysosomal acidification in macrophages. FASEB Journal, 2017, 31, 85-95.	0.5	54
27	Whole-Cell but Not Acellular Pertussis Vaccines Induce Convulsive Activity in Mice: Evidence of a Role for Toxin-Induced Interleukin-1Î² in a New Murine Model for Analysis of Neuronal Side Effects of Vaccination. Infection and Immunity, 2001, 69, 4217-4223.	2.2	53
28	Proteases in Helminth- and Allergen- Induced Inflammatory Responses. , 2005, 90, 45-64.		50
29	Helminths at mucosal barriersâ€"interaction with the immune system. Advanced Drug Delivery Reviews, 2004, 56, 853-868.	13.7	48
30	The M18 Aspartyl Aminopeptidase of the Human Malaria Parasite Plasmodium falciparum. Journal of Biological Chemistry, 2007, 282, 30817-30826.	3.4	48
31	The M17 Leucine Aminopeptidase of the Malaria Parasite <i>Plasmodium falciparum</i>: Importance of Active Site Metal Ions in the Binding of Substrates and Inhibitors. Biochemistry, 2009, 48, 5435-5439.	2.5	47
32	The cathepsin-like cysteine peptidases of trematodes of the genus Fasciola. Advances in Parasitology, 2019, 104, 113-164.	3.2	46
33	Fasciola hepatica: The therapeutic potential of a worm secretome. International Journal for Parasitology, 2013, 43, 283-291.	3.1	43
34	Immunological Interactions between 2 Common Pathogens, Th1-Inducing Protozoan Toxoplasma gondii and the Th2-Inducing Helminth Fasciola hepatica. PLoS ONE, 2009, 4, e5692.	2.5	42
35	<i>Fasciola hepatica</i> tegumental antigens indirectly induce an M2 macrophageâ€like phenotype <i>in vivo</i>. Parasite Immunology, 2014, 36, 531-539.	1.5	39
36	Biochemical characterisation of the recombinant peroxiredoxin (FhePrx) of the liver fluke,Fasciola hepatica. FEBS Letters, 2006, 580, 5016-5022.	2.8	37

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37	The enigmatic asparaginyl endopeptidase of helminth parasites. Trends in Parasitology, 2009, 25, 59-61.	3.3	37
38	Selective induction of the Notch ligand Jaggedâ€1 in macrophages by soluble egg antigen from <i>Schistosoma mansoni</i> involves ERK signalling. Immunology, 2009, 127, 326-337.	4.4	35
39	Cathelicidin-like Helminth Defence Molecules (HDMs): Absence of Cytotoxic, Anti-microbial and Anti-protozoan Activities Imply a Specific Adaptation to Immune Modulation. PLoS Neglected Tropical Diseases, 2013, 7, e2307.	3.0	34
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	The Major Secreted Cathepsin L1 Protease of the Liver Fluke, Fasciola hepatica. Journal of Biological Chemistry, 2007, 282, 16532-16543.	3.4	30
44	Selection of reliable reference genes for the normalisation of gene expression levels following time course LPS stimulation of murine bone marrow derived macrophages. BMC Immunology, 2017, 18, 43.	2.2	28
45	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
46	How Pathogen-Derived Cysteine Proteases Modulate Host Immune Responses. Advances in Experimental Medicine and Biology, 2011, 712, 192-207.	1.6	26
47	Induction of inflammatory cytokines in the brain following respiratory infection with Bordetella pertussis. Journal of Neuroimmunology, 2000, 102, 172-181.	2.3	25
48	Worm secretory molecules are causing alarm. Trends in Parasitology, 2010, 26, 371-372.	3.3	25
49	Aminopeptidases of Malaria Parasites: New Targets for Chemotherapy. Infectious Disorders - Drug Targets, 2010, 10, 217-225.	0.8	25
50	Helminth defence moleculesâ€"immunomodulators designed by parasites!. Frontiers in Microbiology, 2013, 4, 296.	3.5	25
51	Targeting the <scp>PI3K</scp>/Akt signaling pathway in pancreatic Î²â€cells to enhance their survival and function: An emerging therapeutic strategy for type 1 diabetes. Journal of Diabetes, 2022, 14, 247-260.	1.8	25
52	Glycerol-induced seizure. NeuroReport, 1999, 10, 1821-1825.	1.2	24
53	Defense peptides secreted by helminth pathogens: antimicrobial and/or immunomodulator molecules?. Frontiers in Immunology, 2012, 3, 269.	4.8	23
54	Fasciola hepatica hijacks host macrophage miRNA machinery to modulate early innate immune responses. Scientific Reports, 2021, 11, 6712.	3.3	23

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55	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
56	Interleukin-1Î²-dependent changes in the hippocampus following parenteral immunization with a whole cell pertussis vaccine. Journal of Neuroimmunology, 2000, 111, 68-76.	2.3	20
57	Squamous cell carcinoma antigen 1 is an inhibitor of parasiteâ€derived cysteine proteases. FEBS Letters, 2007, 581, 4260-4264.	2.8	19
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	Proinflammatory Cytokines in the Adverse Systemic and Neurologic Effects Associated with Parenteral Injection of a Whole Cell Pertussis Vaccine. Annals of the New York Academy of Sciences, 1998, 856, 274-277.	3.8	18
60	The Impact of Helminth Infection on the Incidence of Metabolic Syndrome: A Systematic Review and Meta-Analysis. Frontiers in Endocrinology, 2021, 12, 728396.	3.5	18
61	Novel Therapeutics for Multiple Sclerosis Designed by Parasitic Worms. International Journal of Molecular Sciences, 2017, 18, 2141.	4.1	17
62	Proteomic Analysis of Extracellular HMGB1 Identifies Binding Partners and Exposes Its Potential Role in Airway Epithelial Cell Homeostasis. Journal of Proteome Research, 2018, 17, 33-45.	3.7	14
63	RAGE and TLR4 differentially regulate airway hyperresponsiveness: Implications for COPD. Allergy: European Journal of Allergy and Clinical Immunology, 2021, 76, 1123-1135.	5.7	14
64	An Evaluation of the Fasciola hepatica miRnome Predicts a Targeted Regulation of Mammalian Innate Immune Responses. Frontiers in Immunology, 2020, 11, 608686.	4.8	12
65	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
66	The parasitic 68-mer peptide FhHDM-1 inhibits mixed granulocytic inflammation and airway hyperreactivity in experimental asthma. Journal of Allergy and Clinical Immunology, 2018, 141, 2316-2319.	2.9	9
67	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
68	The parasite-derived peptide FhHDM-1 activates the PI3K/Akt pathway to prevent cytokine-induced apoptosis of Î²-cells. Journal of Molecular Medicine, 2021, 99, 1605-1621.	3.9	7
69	Exploring the role of macrophages in determining the pathogenesis of liver fluke infection. Parasitology, 2022, 149, 1364-1373.	1.5	6
70	Targeting the master regulator mTOR: a new approach to prevent the neurological of consequences of parasitic infections?. Parasites and Vectors, 2017, 10, 581.	2.5	5
71	Effectiveness of Helminth Therapy in the Prevention of Allograft Rejection: A Systematic Review of Allogeneic Transplantation. Frontiers in Immunology, 2020, 11, 1604.	4.8	4
72	Antimicrobial peptides: utility players in innate immunity. Frontiers in Immunology, 2012, 3, 325.	4.8	3

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73	Commandeering the mammalian Ago2 miRNA network: a newly discovered mechanism of helminth immunomodulation. Trends in Parasitology, 2021, 37, 1031-1033.	3.3	3
74	Applying 'omics' technologies to understand Fasciola spp. biology.. , 2021, , 338-378.		2