

Michael Duchene

List of Publications by Year in descending order

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66
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3,780
citations

172457

29
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123424

61
g-index

66
all docs

66
docs citations

66
times ranked

3187
citing authors

#	ARTICLE	IF	CITATIONS
1	The genome of the protist parasite <i>Entamoeba histolytica</i> . <i>Nature</i> , 2005, 433, 865-868.	27.8	783
2	Microarrayed allergen molecules: diagnostic gatekeepers for allergy treatment. <i>FASEB Journal</i> , 2002, 16, 414-416.	0.5	420
3	Molecular and Immunological Characterization of Arginine Kinase from the Indianmeal Moth, <i>Plodia interpunctella</i> , a Novel Cross-Reactive Invertebrate Pan-Allergen. <i>Journal of Immunology</i> , 2001, 167, 5470-5477.	0.8	176
4	Antiprotozoal activities of phospholipid analogues. <i>Molecular and Biochemical Parasitology</i> , 2003, 126, 165-172.	1.1	161
5	Recombinant allergens for immunoblot diagnosis of tree-pollen allergy. <i>Journal of Allergy and Clinical Immunology</i> , 1991, 88, 889-894.	2.9	156
6	Nitroimidazole Action in <i>Entamoeba histolytica</i> : A Central Role for Thioredoxin Reductase. <i>PLoS Biology</i> , 2007, 5, e211.	5.6	135
7	Properties of Tree and Grass Pollen Allergens: Reinvestigation of the Linkage between Solubility and Allergenicity. <i>International Archives of Allergy and Immunology</i> , 1993, 102, 160-169.	2.1	130
8	<i>Trichomonas vaginalis</i> : metronidazole and other nitroimidazole drugs are reduced by the flavin enzyme thioredoxin reductase and disrupt the cellular redox system. Implications for nitroimidazole toxicity and resistance. <i>Molecular Microbiology</i> , 2009, 72, 518-536.	2.5	125
9	Cytotoxic Activities of Alkylphosphocholines against Clinical Isolates of <i>Acanthamoeba</i> spp. <i>Antimicrobial Agents and Chemotherapy</i> , 2002, 46, 695-701.	3.2	109
10	Pyruvate:ferredoxin oxidoreductase and thioredoxin reductase are involved in 5-nitroimidazole activation while flavin metabolism is linked to 5-nitroimidazole resistance in <i>Giardia lamblia</i> . <i>Journal of Antimicrobial Chemotherapy</i> , 2011, 66, 1756-1765.	3.0	103
11	Complementary DNA cloning and expression in <i>Escherichia coli</i> of <i>Aln g I</i> , the major allergen in pollen of alder (<i>Alnus glutinosa</i>). <i>Journal of Allergy and Clinical Immunology</i> , 1992, 90, 909-917.	2.9	91
12	T-cell epitopes of <i>Phl p 1</i> , major pollen allergen of timothy grass (<i>Phleum pratense</i>): Evidence for crossreacting and non-crossreacting T-cell epitopes within grass group I allergens. <i>Journal of Allergy and Clinical Immunology</i> , 1995, 96, 986-996.	2.9	82
13	Protection against Invasive Amebiasis by a Single Monoclonal Antibody Directed against a Lipophosphoglycan Antigen Localized on the Surface of <i>Entamoeba histolytica</i> . <i>Journal of Experimental Medicine</i> , 1997, 186, 1557-1565.	8.5	67
14	IgE-binding capacity of recombinant timothy grass (<i>Phleum pratense</i>) pollen allergens. <i>Journal of Allergy and Clinical Immunology</i> , 1994, 94, 88-94.	2.9	61
15	Immunological and structural similarities among allergens: Prerequisite for a specific and component-based therapy of allergy. <i>Immunology and Cell Biology</i> , 1996, 74, 187-194.	2.3	57
16	Effects of procollagen peptides on the translation of type II collagen messenger ribonucleic acid and on collagen biosynthesis in chondrocytes. <i>Biochemistry</i> , 1981, 20, 3523-3527.	2.5	56
17	Major Role for Cysteine Proteases during the Early Phase of <i>Acanthamoeba castellanii</i> Encystment. <i>Eukaryotic Cell</i> , 2010, 9, 611-618.	3.4	52
18	Nitroimidazole drugs vary in their mode of action in the human parasite <i>Giardia lamblia</i> . <i>International Journal for Parasitology: Drugs and Drug Resistance</i> , 2012, 2, 166-170.	3.4	51

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19	<i>Trichomonas vaginalis</i> flavin reductase 1 and its role in metronidazole resistance. <i>Molecular Microbiology</i> , 2014, 91, 198-208.	2.5	50
20	The flavin inhibitor diphenyleneiodonium renders <i>Trichomonas vaginalis</i> resistant to metronidazole, inhibits thioredoxin reductase and flavin reductase, and shuts off hydrogenosomal enzymatic pathways. <i>Molecular and Biochemical Parasitology</i> , 2010, 171, 17-24.	1.1	49
21	Profilin, a Novel Plant Pan-Allergen. <i>International Archives of Allergy and Immunology</i> , 1992, 99, 271-273.	2.1	46
22	Phosphorothioate Oligonucleotides Reduce Melanoma Growth in a SCID-hu Mouse Model by a Nonantisense Mechanism. <i>Antisense Research and Development</i> , 1995, 5, 271-277.	3.1	44
23	Common IgE-epitopes of recombinant Phl p I, the major timothy grass pollen allergen and natural group I grass pollen isoallergens. <i>Molecular Immunology</i> , 1996, 33, 417-426.	2.2	38
24	<i>Acanthamoeba</i> strains lose their abilities to encyst synchronously upon prolonged axenic culture. <i>Parasitology Research</i> , 2008, 102, 1069-1072.	1.6	36
25	Anti- <i>Acanthamoeba</i> efficacy and toxicity of miltefosine in an organotypic skin equivalent. <i>Journal of Antimicrobial Chemotherapy</i> , 2009, 64, 539-545.	3.0	36
26	Down-regulation of flavin reductase and alcohol dehydrogenase-1 (ADH1) in metronidazole-resistant isolates of <i>Trichomonas vaginalis</i> . <i>Molecular and Biochemical Parasitology</i> , 2012, 183, 177-183.	1.1	36
27	Pathogenic <i>Entamoeba histolytica</i> : cDNA cloning of a histone H3 with a divergent primary structure. <i>Molecular and Biochemical Parasitology</i> , 1993, 59, 315-322.	1.1	34
28	Levels of collagen mRNA in dedifferentiating chondrocytes. <i>Experimental Cell Research</i> , 1982, 142, 317-324.	2.6	33
29	<i>Entamoeba histolytica</i> : identification of thioredoxin-targeted proteins and analysis of serine acetyltransferase-1 as a prototype example. <i>Biochemical Journal</i> , 2013, 451, 277-288.	3.7	32
30	<i>Acanthamoeba castellanii</i> : growth on human cell layers reactivates attenuated properties after prolonged axenic culture. <i>FEMS Microbiology Letters</i> , 2009, 299, 121-127.	1.8	30
31	The basic isoform of profilin in pathogenic <i>Entamoeba histolytica</i> . cDNA Cloning, Heterologous Expression, and Actin-Binding Properties. <i>FEBS Journal</i> , 1995, 233, 976-981.	0.2	27
32	An intron-containing gene coding for a novel 39-kilodalton antigen of <i>Entamoeba histolytica</i> . <i>Molecular and Biochemical Parasitology</i> , 1994, 66, 181-185.	1.1	26
33	Sequence and organization of an unusual histone H4 gene in the human parasite <i>Entamoeba histolytica</i> . <i>Molecular and Biochemical Parasitology</i> , 1995, 71, 243-247.	1.1	26
34	<i>Entamoeba histolytica</i> : Analysis of the trophozoite proteome by two-dimensional polyacrylamide gel electrophoresis. <i>Experimental Parasitology</i> , 2005, 110, 191-195.	1.2	24
35	A Low Molecular Weight Allergen of White Birch (<i>Betula verrucosa</i>) Is Highly Homologous to Human Profilin. <i>International Archives of Allergy and Immunology</i> , 1991, 94, 368-370.	2.1	23
36	Differences in substrate specificity and kinetic properties of the recombinant hexokinases HXK1 and HXK2 from <i>Entamoeba histolytica</i> . <i>Molecular and Biochemical Parasitology</i> , 2000, 105, 71-80.	1.1	23

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37	A Monoclonal Antibody to the Amebic Lipophosphoglycan-Proteophosphoglycan Antigens Can Prevent Disease in Human Intestinal Xenografts Infected with <i>Entamoeba histolytica</i> . <i>Infection and Immunity</i> , 2002, 70, 5873-5876.	2.2	22
38	<i>Entamoeba histolytica</i> : Response of the parasite to metronidazole challenge on the levels of mRNA and protein expression. <i>Experimental Parasitology</i> , 2008, 120, 403-410.	1.2	19
39	Protection of immunosuppressed mice against translocation of <i>Pseudomonas aeruginosa</i> from the gut by oral immunization with recombinant <i>Pseudomonas aeruginosa</i> outer membrane protein I expressing <i>Salmonella dublin</i> . <i>Vaccine</i> , 1994, 12, 1215-1221.	3.8	18
40	Molecular analysis of two hexokinase isoenzymes from <i>Entamoeba histolytica</i> . <i>Molecular and Biochemical Parasitology</i> , 1995, 73, 189-198.	1.1	17
41	The sequence and organization of the core histone H3 and H4 genes in the early branching amitochondriate protist <i>Trichomonas vaginalis</i> . <i>Journal of Molecular Evolution</i> , 1996, 43, 563-571.	1.8	17
42	Antigenicity and immunogenicity of phage library-selected peptide mimics of the major surface proteophosphoglycan antigens of <i>Entamoeba histolytica</i> . <i>Parasite Immunology</i> , 2002, 24, 321-328.	1.5	17
43	Genetic Variation of <i>Bordetella pertussis</i> in Austria. <i>PLoS ONE</i> , 2015, 10, e0132623.	2.5	17
44	Molecular and biochemical characterization of phosphoglucomutases from <i>Entamoeba histolytica</i> and <i>Entamoeba dispar</i> . Note: Nucleotide sequence data from the <i>Entamoeba</i> phosphoglucomutases reported in this paper are available in the EMBL, GenBank, and DDJB data bases under the accession numbers Y14444 (<i>E. histolytica</i>) and Y14445 (<i>E. dispar</i>). <i>Molecular and Biochemical Parasitology</i> , 1997, 90, 121-129.	1.1	16
45	Crystal and molecular structure of quinolinium trichlorodimethylstannate(IV). <i>Journal of the Chemical Society Dalton Transactions</i> , 1975, , 2230.	1.1	15
46	Association of autoantibodies against small nuclear ribonucleoproteins (snRNPs) with symptomatic <i>Toxocara canis</i> infestation. <i>Parasite Immunology</i> , 2004, 26, 327-333.	1.5	14
47	<i>Entamoeba histolytica</i> trophozoites transfer lipophosphopeptidoglycans to enteric cell layers. <i>International Journal for Parasitology</i> , 2004, 34, 549-556.	3.1	14
48	Expression in <i>Escherichia coli</i> and Purification of Folded rDer p 20, the Arginine Kinase From <i>Dermatophagoides pteronyssinus</i> : A Possible Biomarker for Allergic Asthma. <i>Allergy, Asthma and Immunology Research</i> , 2021, 13, 154.	2.9	14
49	Molecular consequences of truncations of the first exon for in vitro splicing of yeast actin pre-mRNA. <i>Nucleic Acids Research</i> , 1988, 16, 7233-7239.	14.5	13
50	Molecular Characterization of the cDNA Coding for Translation Elongation Factor-2 of Pathogenic <i>Entamoeba histolytica</i> . <i>DNA and Cell Biology</i> , 1993, 12, 89-96.	1.9	12
51	Humoral immune response against proteophosphoglycan surface antigens of <i>Entamoeba histolytica</i> elicited by immunization with synthetic mimotope peptides. <i>FEMS Immunology and Medical Microbiology</i> , 2003, 37, 179-183.	2.7	12
52	In vitro activity of N-chlorotaurine (NCT) in combination with NH ₄ Cl against <i>Trichomonas vaginalis</i> . <i>International Journal of Antimicrobial Agents</i> , 2011, 37, 171-173.	2.5	12
53	Thioredoxin from the Indian meal Moth <i>Plodia interpunctella</i> : Cloning and Test of the Allergenic Potential in Mice. <i>PLoS ONE</i> , 2012, 7, e42026.	2.5	12
54	Recombinant dissection of myosin heavy chain of <i>Toxocara canis</i> shows strong clustering of antigenic regions. <i>Parasitology Research</i> , 2001, 87, 383-389.	1.6	11

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55	Anti-Leishmanial Activity of Plant-Derived Acridones, Flavaglines, and Sulfur-Containing Amides. Vector-Borne and Zoonotic Diseases, 2011, 11, 793-798.	1.5	11
56	Proteomic aspects of <i>Parachlamydia acanthamoebae</i> infection in <i>Acanthamoeba</i> spp.. ISME Journal, 2010, 4, 1366-1374.	9.8	10
57	Activity of methylgerambullin from <i>Glycosmis</i> species (Rutaceae) against <i>Entamoeba histolytica</i> and <i>Giardia duodenalis</i> in vitro. International Journal for Parasitology: Drugs and Drug Resistance, 2019, 10, 109-117.	3.4	10
58	Comparison of the proteome profiles of <i>Entamoeba histolytica</i> and its close but non-pathogenic relative <i>Entamoeba dispar</i> . Wiener Klinische Wochenschrift, 2006, 118, 37-41.	1.9	9
59	High antitrypanosomal activity of plant-derived sulphur-containing amides. International Journal of Antimicrobial Agents, 2010, 36, 570-572.	2.5	9
60	Unexpected properties of NADP-dependent secondary alcohol dehydrogenase (ADH-1) in <i>Trichomonas vaginalis</i> and other microaerophilic parasites. Experimental Parasitology, 2013, 134, 374-380.	1.2	9
61	In vitro synthesis and degradation of collagen by chick chondrocytes and fibroblasts. FEBS Letters, 1981, 135, 119-122.	2.8	8
62	Molecular and biochemical characterization of <i>Entamoeba histolytica</i> fructokinase. Parasitology Research, 2015, 114, 1939-1947.	1.6	5
63	Development of a pharmacodynamic screening model with <i>Entamoeba histolytica</i> . Wiener Klinische Wochenschrift, 2007, 119, 88-95.	1.9	4
64	A New Approach for Chemotherapy Against <i>Entamoeba histolytica</i> . Archives of Medical Research, 2000, 31, S6-S7.	3.3	3
65	<i>Entamoeba histolytica</i> : Construction and applications of subgenomic databases. Experimental Parasitology, 2005, 110, 178-183.	1.2	2
66	Isolation of Phage Mimotopes Mimicking a Protective Epitope of GPI-Linked Proteophosphoglycan Antigens of <i>Entamoeba histolytica</i> . Archives of Medical Research, 2000, 31, S309-S310.	3.3	0