

# John Samuelson

## List of Publications by Year in descending order

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90  
papers

5,431  
citations

81839

39  
h-index

85498

71  
g-index

95  
all docs

95  
docs citations

95  
times ranked

4046  
citing authors

#	ARTICLE	IF	CITATIONS
1	The genome of the protist parasite <i>Entamoeba histolytica</i> . <i>Nature</i> , 2005, 433, 865-868.	13.7	783
2	Genomic Minimalism in the Early Diverging Intestinal Parasite <i>Giardia lamblia</i> . <i>Science</i> , 2007, 317, 1921-1926.	6.0	725
3	The diversity of dolichol-linked precursors to Asn-linked glycans likely results from secondary loss of sets of glycosyltransferases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 1548-1553.	3.3	244
4	Hsp60 Is Targeted to a Cryptic Mitochondrion-Derived Organelle (â€œCryptonâ€) in the Microaerophilic Protozoan Parasite <i>Entamoeba histolytica</i> . <i>Molecular and Cellular Biology</i> , 1999, 19, 2198-2205.	1.1	184
5	Why Metronidazole Is Active against both Bacteria and Parasites. <i>Antimicrobial Agents and Chemotherapy</i> , 1999, 43, 1533-1541.	1.4	181
6	A spliceosomal intron in <i>Giardia lamblia</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 3701-3705.	3.3	151
7	The evolution of N-glycan-dependent endoplasmic reticulum quality control factors for glycoprotein folding and degradation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 11676-11681.	3.3	130
8	Evidence for Lateral Transfer of Genes Encoding Ferredoxins, Nitroreductases, NADH Oxidase, and Alcohol Dehydrogenase 3 from Anaerobic Prokaryotes to <i>Giardia lamblia</i> and <i>Entamoeba histolytica</i> . <i>Eukaryotic Cell</i> , 2002, 1, 181-190.	3.4	121
9	Suggestive Evidence for Darwinian Selection against Asparagine-Linked Glycans of <i>Plasmodium falciparum</i> and <i>Toxoplasma gondii</i> . <i>Eukaryotic Cell</i> , 2010, 9, 228-241.	3.4	95
10	Early lateral transfer of genes encoding malic enzyme, acetyl-CoA synthetase and alcohol dehydrogenases from anaerobic prokaryotes to <i>Entamoeba histolytica</i> . <i>Molecular Microbiology</i> , 2000, 38, 446-455.	1.2	93
11	Chitinase Secretion by Encysting <i>Entamoeba invadens</i> and Transfected <i>Entamoeba histolytica</i> Trophozoites: Localization of Secretory Vesicles, Endoplasmic Reticulum, and Golgi Apparatus. <i>Infection and Immunity</i> , 1999, 67, 3073-3081.	1.0	93
12	Molecular Epidemiology of <i>Entamoeba</i> spp.: Evidence of a Bottleneck (Demographic Sweep) and Transcontinental Spread of Diploid Parasites. <i>Journal of Clinical Microbiology</i> , 2000, 38, 3815-3821.	1.8	89
13	<i>Giardia</i> , <i>Entamoeba</i> , and <i>Trichomonas</i> Enzymes Activate Metronidazole (Nitroreductases) and Inactivate Metronidazole (Nitroimidazole Reductases). <i>Antimicrobial Agents and Chemotherapy</i> , 2009, 53, 458-464.	1.4	86
14	The Most Abundant Glycoprotein of Amebic Cyst Walls (Jacob) Is a Lectin with Five Cys-Rich, Chitin-Binding Domains. <i>Infection and Immunity</i> , 2000, 68, 4217-4224.	1.0	81
15	Evidence for a â€œWattle and Daubâ€ Model of the Cyst Wall of <i>Entamoeba</i> . <i>PLoS Pathogens</i> , 2009, 5, e1000498.	2.1	75
16	Gene Discovery in the Genome. <i>Protist</i> , 2005, 156, 203-214.	0.6	74
17	Cloning and expression of chitinases of <i>Entamoebae</i> . <i>Molecular and Biochemical Parasitology</i> , 1997, 85, 139-147.	0.5	72
18	Differential Roles for Inner Membrane Complex Proteins across <i>Toxoplasma gondii</i> and <i>Sarcocystis neurona</i> Development. <i>MSphere</i> , 2017, 2, .	1.3	71

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19	Cloning of the Eh <i>cdc2</i> gene from <i>Entamoeba histolytica</i> encoding a protein kinase p34cdc2 homologue. <i>Gene</i> , 1993, 127, 203-207.	1.0	66
20	Changes in the <i>N</i> -Glycome, Glycoproteins with Asn-Linked Glycans, of <i>Giardia lamblia</i> with Differentiation from Trophozoites to Cysts. <i>Eukaryotic Cell</i> , 2008, 7, 1930-1940.	3.4	66
21	Strategies To Discover the Structural Components of Cyst and Oocyst Walls. <i>Eukaryotic Cell</i> , 2013, 12, 1578-1587.	3.4	66
22	Stable episomal transfection of <i>Entamoeba histolytica</i> . <i>Molecular and Biochemical Parasitology</i> , 1995, 71, 265-267.	0.5	65
23	How <i>Giardia</i> Swim and Divide. <i>Infection and Immunity</i> , 2001, 69, 7866-7872.	1.0	61
24	The <i>Entamoeba histolytica</i> Mitochondrion-Derived Organelle (Crypton) Contains Double-Stranded DNA and Appears To Be Bound by a Double Membrane. <i>Infection and Immunity</i> , 2000, 68, 4319-4322.	1.0	54
25	Gene discovery in the <i>Entamoeba invadens</i> genome. <i>Molecular and Biochemical Parasitology</i> , 2003, 129, 23-31.	0.5	54
26	Molecular characterization of nucleocytosolic O-GlcNAc transferases of <i>Giardia lamblia</i> and <i>Cryptosporidium parvum</i> . <i>Glycobiology</i> , 2009, 19, 331-336.	1.3	53
27	A serological assay for the detection of cell surface receptors of nerve growth factor. <i>Journal of Supramolecular Structure</i> , 1978, 9, 351-361.	2.3	51
28	Evidence for a Structural Role for Acid-Fast Lipids in Oocyst Walls of <i>Cryptosporidium</i> , <i>Toxoplasma</i> , and <i>Eimeria</i> . <i>MBio</i> , 2013, 4, e00387-13.	1.8	51
29	CRISPR/Cas9 and glycomics tools for <i>Toxoplasma</i> glycobiology. <i>Journal of Biological Chemistry</i> , 2019, 294, 1104-1125.	1.6	51
30	Unique Posttranslational Modifications of Chitin-Binding Lectins of <i>Entamoeba invadens</i> Cyst Walls. <i>Eukaryotic Cell</i> , 2006, 5, 836-848.	3.4	50
31	Evidence for Mucin-Like Glycoproteins That Tether Sporozoites of <i>Cryptosporidium parvum</i> to the Inner Surface of the Oocyst Wall. <i>Eukaryotic Cell</i> , 2010, 9, 84-96.	3.4	50
32	Increase in mRNA of multiple Eh <i>pgp</i> genes encoding P-glycoprotein homologues in emetine-resistant <i>Entamoeba histolytica</i> parasites. <i>Gene</i> , 1995, 164, 179-184.	1.0	47
33	Iron-Dependent Hydrogenases of <i>Entamoeba histolytica</i> and <i>Giardia lamblia</i> : Activity of the Recombinant <i>Entamoebic</i> Enzyme and Evidence for Lateral Gene Transfer. <i>Biological Bulletin</i> , 2003, 204, 1-9.	0.7	47
34	Dolichol-linked oligosaccharide selection by the oligosaccharyltransferase in protist and fungal organisms. <i>Journal of Cell Biology</i> , 2007, 177, 29-37.	2.3	46
35	The cyst wall of <i>Entamoeba invadens</i> contains chitosan (deacetylated chitin). <i>Molecular and Biochemical Parasitology</i> , 2006, 148, 86-92.	0.5	44
36	LINEs and SINE-like elements of the protist <i>Entamoeba histolytica</i> . <i>Gene</i> , 2002, 297, 229-239.	1.0	43

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37	Giardia Cyst Wall Protein 1 Is a Lectin That Binds to Curled Fibrils of the GalNAc Homopolymer. PLoS Pathogens, 2010, 6, e1001059.	2.1	43
38	Effects of N-glycan precursor length diversity on quality control of protein folding and on protein glycosylation. Seminars in Cell and Developmental Biology, 2015, 41, 121-128.	2.3	42
39	Golgi and Endoplasmic Reticulum Functions Take Place in Different Subcellular Compartments of Entamoeba histolytica. Journal of Biological Chemistry, 2005, 280, 32168-32176.	1.6	41
40	Molecular cloning of a rho family gene of Entamoeba histolytica. Molecular and Biochemical Parasitology, 1993, 58, 177-180.	0.5	40
41	Entamoeba histolytica Lectins Contain Unique 6-Cys or 8-Cys Chitin-Binding Domains. Infection and Immunity, 2002, 70, 3259-3263.	1.0	40
42	Responses of Entamoeba invadens to Heat Shock and Encystation are Related. Journal of Eukaryotic Microbiology, 2000, 47, 511-514.	0.8	39
43	$\alpha$ -fucosylated glycoproteins form assemblies in close proximity to the nuclear pore complexes of <i>Toxoplasma gondii</i> . Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 11567-11572.	3.3	39
44	Entamoeba histolytica: Physiology of multidrug resistance. Experimental Parasitology, 1990, 71, 169-175.	0.5	38
45	Heterogeneity of Entamoeba histolytica rac genes encoding p21rac homologues. Gene, 1996, 173, 205-208.	1.0	37
46	$\beta$ -1,3-Glucan, Which Can Be Targeted by Drugs, Forms a Trabecular Scaffold in the Oocyst Walls of <i>Toxoplasma</i> and <i>Eimeria</i> . MBio, 2012, 3, .	1.8	36
47	Darwinian selection for sites of Asn-linked glycosylation in phylogenetically disparate eukaryotes and viruses. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 13421-13426.	3.3	35
48	A simple fibril and lectin model for cyst walls of Entamoeba and perhaps Giardia. Trends in Parasitology, 2011, 27, 17-22.	1.5	33
49	Chymotrypsin C Is a Co-activator of Human Pancreatic Procarboxypeptidases A1 and A2. Journal of Biological Chemistry, 2011, 286, 1819-1827.	1.6	31
50	An Entamoeba histolytica inositol 1,3,4-trisphosphate 5/6-kinase has a novel 3-kinase activity. Molecular and Biochemical Parasitology, 2000, 108, 119-123.	0.5	30
51	Unique Asn-linked Oligosaccharides of the Human Pathogen Entamoeba histolytica. Journal of Biological Chemistry, 2008, 283, 18355-18364.	1.6	29
52	Giardia lamblia Groups A and B Among Young Adults in India. Clinical Infectious Diseases, 1998, 26, 190-191.	2.9	28
53	Protein $\alpha$ - and $\beta$ -Glycosylation pathways in <i>Toxoplasma gondii</i> and <i>Plasmodium falciparum</i> . Parasitology, 2019, 146, 1755-1766.	0.7	28
54	O-Fucosylation of thrombospondin-like repeats is required for processing of microneme protein 2 and for efficient host cell invasion by Toxoplasma gondii tachyzoites. Journal of Biological Chemistry, 2019, 294, 1967-1983.	1.6	27

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55	Primary structure of an <i>Entamoeba histolytica</i> nicotinamide nucleotide transhydrogenase. <i>Molecular and Biochemical Parasitology</i> , 1994, 68, 323-328.	0.5	25
56	A Single <i>Caenorhabditis elegans</i> Golgi Apparatus-Type Transporter of UDP-Glucose, UDP-Galactose, UDP-N-Acetylglucosamine, and UDP-N-Acetylgalactosamine. <i>Biochemistry</i> , 2008, 47, 4337-4344.	1.2	25
57	Anti-Retroviral Lectins Have Modest Effects on Adherence of <i>Trichomonas vaginalis</i> to Epithelial Cells In Vitro and on Recovery of <i>Tritrichomonas foetus</i> in a Mouse Vaginal Model. <i>PLoS ONE</i> , 2015, 10, e0135340.	1.1	24
58	The Jacob2 Lectin of the <i>Entamoeba histolytica</i> Cyst Wall Binds Chitin and Is Polymorphic. <i>PLoS Neglected Tropical Diseases</i> , 2010, 4, e750.	1.3	23
59	The most abundant cyst wall proteins of <i>Acanthamoeba castellanii</i> are lectins that bind cellulose and localize to distinct structures in developing and mature cyst walls. <i>PLoS Neglected Tropical Diseases</i> , 2019, 13, e0007352.	1.3	23
60	Molecular cloning of <i>ras</i> and <i>rap</i> genes from <i>Entamoeba histolytica</i> . <i>Molecular and Biochemical Parasitology</i> , 1994, 64, 111-120.	0.5	22
61	Molecular characterization of the <i>cis</i> -prenyltransferase of <i>Giardia lamblia</i> . <i>Glycobiology</i> , 2010, 20, 824-832.	1.3	22
62	Sequence and structure evolved separately in a ribosomal ubiquitin variant. <i>EMBO Journal</i> , 2007, 26, 3474-3483.	3.5	21
63	Asparagine-Linked Glycans of <i>Cryptosporidium parvum</i> Contain a Single Long Arm, Are Barely Processed in the Endoplasmic Reticulum (ER) or Golgi, and Show a Strong Bias for Sites with Threonine. <i>Molecular and Cellular Proteomics</i> , 2017, 16, S42-S53.	2.5	21
64	A New Gene Family ( <i>ariel</i> ) Encodes Asparagine-Rich <i>Entamoeba histolytica</i> Antigens, Which Resemble the Amebic Vaccine Candidate Serine-Rich <i>E. histolytica</i> Protein. <i>Infection and Immunity</i> , 1998, 66, 353-355.	1.0	20
65	Use of <i>Giardia</i> , which appears to have a single nucleotide-sugar transporter for UDP-GlcNAc, to identify the UDP-Glc transporter of <i>Entamoeba</i> . <i>Molecular and Biochemical Parasitology</i> , 2008, 159, 44-53.	0.5	19
66	Molecular cloning of a <i>rac</i> family protein kinase and identification of a serine/threonine protein kinase gene family of <i>Entamoeba histolytica</i> . <i>Molecular and Biochemical Parasitology</i> , 1993, 60, 161-170.	0.5	18
67	Primary structure of <i>Entamoeba histolytica</i> $\beta$ -tubulin and localisation of amoebic microtubule organising centres. <i>Molecular and Biochemical Parasitology</i> , 1997, 90, 331-336.	0.5	18
68	<i>Cryptosporidium parvum</i> vaccine candidates are incompletely modified with O-linked-N-acetylgalactosamine or contain N-terminal N-myristate and S-palmitate. <i>PLoS ONE</i> , 2017, 12, e0182395.	1.1	18
69	The disruption of GDP-fucose de novo biosynthesis suggests the presence of a novel fucose-containing glycoconjugate in <i>Plasmodium</i> asexual blood stages. <i>Scientific Reports</i> , 2016, 6, 37230.	1.6	17
70	<i>Trichomonas</i> Transmembrane Cyclases Result from Massive Gene Duplication and Concomitant Development of Pseudogenes. <i>PLoS Neglected Tropical Diseases</i> , 2010, 4, e782.	1.3	16
71	Primary structure of the <i>Entamoeba histolytica</i> gene ( <i>Ehvmal</i> ) encoding the catalytic peptide of a putative vacuolar membrane proton-transporting ATPase (V-ATPase). <i>Molecular and Biochemical Parasitology</i> , 1994, 66, 165-169.	0.5	14
72	Vacuolar localization of an <i>Entamoeba histolytica</i> homologue of the plasma membrane ATPase (PMCA). <i>Molecular and Biochemical Parasitology</i> , 2000, 108, 125-130.	0.5	14

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73	Cloning and expression of the gene for an NADP <sup>+</sup> -dependent aldehyde dehydrogenase of <i>Entamoeba histolytica</i> . <i>Molecular and Biochemical Parasitology</i> , 1994, 63, 157-161.	0.5	13
74	Dolichyl-Phosphate-Glucose Is Used To Make O-Glycans on Glycoproteins of <i>Trichomonas vaginalis</i> . <i>Eukaryotic Cell</i> , 2008, 7, 1344-1351.	3.4	12
75	A deeply divergent phosphoglucomutase (PGM) of <i>Giardia lamblia</i> has both PGM and phosphomannomutase activities. <i>Glycobiology</i> , 2010, 20, 1233-1240.	1.3	11
76	Killing of diverse eye pathogens ( <i>Acanthamoeba</i> spp., <i>Fusarium solani</i> , and <i>Chlamydia trachomatis</i> ) with alcohols. <i>PLoS Neglected Tropical Diseases</i> , 2017, 11, e0005382.	1.3	11
77	Hepatitis C Virus Reinfection in Orthotopic Liver Transplant Patients with or without Concomitant Hepatitis B Infection. <i>Diagnostic Molecular Pathology</i> , 1996, 5, 81-87.	2.1	10
78	<i>Entamoeba histolytica</i> : Isoprenylation of p21ras and p21rapin Vitro. <i>Experimental Parasitology</i> , 1996, 82, 65-68.	0.5	10
79	Molecular cloning of an <i>Entamoeba histolytica</i> gene encoding a putative mos family serine/threonine-kinase. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 1994, 1222, 122-124.	1.9	9
80	The nucleocytoplasmic O-fucosyltransferase SPINDLY affects protein expression and virulence in <i>Toxoplasma gondii</i> . <i>Journal of Biological Chemistry</i> , 2021, 296, 100039.	1.6	9
81	Molecular cloning of the gene for a novel ABC superfamily transporter of <i>Entamoeba histolytica</i> . <i>Molecular and Biochemical Parasitology</i> , 1993, 62, 131-134.	0.5	7
82	The Antiretroviral Lectin Cyanovirin-N Targets Well-Known and Novel Targets on the Surface of <i>Entamoeba histolytica</i> Trophozoites. <i>Eukaryotic Cell</i> , 2010, 9, 1661-1668.	3.4	7
83	Letter to the Glyco-Forum: Asparagine Linked Glycosylation in <i>Giardia</i> . <i>Glycobiology</i> , 2005, 15, 15G-16G.	1.3	5
84	Ethanol and Isopropanol in Concentrations Present in Hand Sanitizers Sharply Reduce Excystation of <i>Giardia</i> and <i>Entamoeba</i> and Eliminate Oral Infectivity of <i>Giardia</i> Cysts in Gerbils. <i>Antimicrobial Agents and Chemotherapy</i> , 2015, 59, 6749-6754.	1.4	5
85	Gene expansion in <i>Trichomonas vaginalis</i> : a case study on transmembrane cyclases. <i>Genome Informatics</i> , 2007, 18, 35-43.	0.4	5
86	The cDNA sequence of an abundant <i>Entamoeba histolytica</i> 20-kilodalton protein containing four repetitive domains. <i>Molecular and Biochemical Parasitology</i> , 1993, 60, 323-326.	0.5	4
87	GENE EXPANSION IN TRICHOMONAS VAGINALIS: A CASE STUDY ON TRANSMEMBRANE CYCLASES. , 2007, , .		1
88	The synthesis of novel N-glycans in <i>Entamoeba histolytica</i> and the quality control, secretion and cell surface arrangement of glycoproteins. <i>FASEB Journal</i> , 2006, 20, A514.	0.2	0
89	What <i>Entamoeba</i> and <i>Giardia</i> tell us about the diversity of Asn-linked glycosylation.. <i>FASEB Journal</i> , 2006, 20, A454.	0.2	0
90	The Glycoproteins of <i>Giardia</i> . , 2011, , 103-110.		0