Larry Simpson

List of Publications by Year
in descending order

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113 papers	7,767 citations	50170 46 h-index	53109 85 g-index
114 all docs	114 docs citations	114 times ranked	2480 citing authors

#	Article	IF	Citations
1	Lexis and Grammar of Mitochondrial RNA Processing in Trypanosomes. Trends in Parasitology, 2020, 36, 337-355.	1.5	71
2	Leishmania tarentolae: Taxonomic classification and its application as a promising biotechnological expression host. PLoS Neglected Tropical Diseases, 2019, 13, e0007424.	1.3	46
3	Comparison of the Mitochondrial Genomes and Steady State Transcriptomes of Two Strains of the Trypanosomatid Parasite, Leishmania tarentolae. PLoS Neglected Tropical Diseases, 2015, 9, e0003841.	1.3	44
4	U-insertion/deletion RNA editing multiprotein complexes and mitochondrial ribosomes in Leishmania tarentolae are located in antipodal nodes adjacent to the kinetoplast DNA. Mitochondrion, 2015, 25, 76-86.	1.6	7
5	Trypanosome REH1 is an RNA helicase involved with the 3â€²â€“5â€² polarity of multiple gRNA-guided uridine insertion/deletion RNA editing. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 3542-3547.	3.3	54
6	A Personal Scientific Odyssey. Protist, 2011, 162, 188-206.	0.6	0
7	Guide to the Nomenclature of Kinetoplastid RNA Editing: A Proposal. Protist, 2010, 161, 2-6.	0.6	29
8	Uridine Insertion/Deletion RNA Editing in Trypanosomatids: Specific Stimulation in vitro of Leishmania tarentolae REL1 RNA Ligase Activity by the MP63 Zinc Finger Protein. Protist, 2010, 161, 489-496.	0.6	8
9	Structure of a mitochondrial ribosome with minimal RNA. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 9637-9642.	3.3	87
10	Structure of the core editing complex (L-complex) involved in uridine insertion/deletion RNA editing in trypanosomatid mitochondria. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 12306-12310.	3.3	55
11	Uridine insertion/deletion RNA editing in trypanosomatid mitochondria: In search of the editosome. Rna, 2009, 15, 1338-1344.	1.6	25
12	RNA editing and mitochondrial activity in promastigotes and amastigotes of Leishmania donovani. International Journal for Parasitology, 2009, 39, 635-644.	1.3	24
13	Uridylate-specific 3â€²â€“5â€²-Exoribonucleases Involved in Uridylate-deletion RNA Editing in Trypanosomatid Mitochondria. Journal of Biological Chemistry, 2007, 282, 29073-29080.	1.6	32
14	Strategies of Kinetoplastid Cryptogene Discovery and Analysis. Methods in Enzymology, 2007, 424, 127-139.	0.4	6
15	Proteomics and electron microscopic characterization of the unusual mitochondrial ribosome-related 45S complex in Leishmania tarentolae. Molecular and Biochemical Parasitology, 2007, 152, 203-212.	0.5	31
16	Isolation and characterization of mitochondrial ribosomes and ribosomal subunits from Leishmania tarentolae. Molecular and Biochemical Parasitology, 2006, 148, 69-78.	0.5	36
17	Reconstitution of full-round uridine-deletion RNA editing with three recombinant proteins. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 13944-13949.	3.3	35
18	Reconstitution of uridine-deletion precleaved RNA editing with two recombinant enzymes. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 1017-1022.	3.3	59

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19	Functional complementation of Trypanosoma brucei RNA in vitro editing with recombinant RNA ligase. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 4712-4717.	3.3	16
20	Mitochondrial proteins and complexes in Leishmania and Trypanosoma involved in U-insertion/deletion RNA editing. Rna, 2004, 10, 159-170.	1.6	121
21	Disruption of the Zinc Finger Motifs in the Leishmania tarentolae LC-4 (=TbMP63) L-complex Editing Protein Affects the Stability of the L-complex. Journal of Biological Chemistry, 2004, 279, 3893-3899.	1.6	23
22	The Effect of RNA Interference Down-regulation of RNA Editing 3â€²-Terminal Uridylyl Transferase (TUTase) 1 on Mitochondrial de Novo Protein Synthesis and Stability of Respiratory Complexes in Trypanosoma brucei. Journal of Biological Chemistry, 2004, 279, 7819-7825.	1.6	28
23	RNA-editing Terminal Uridylyl Transferase 1. Journal of Biological Chemistry, 2004, 279, 24123-24130.	1.6	37
24	The I-complex in Leishmania tarentolae is an uniquely-structured F1-ATPase. Molecular and Biochemical Parasitology, 2004, 135, 221-224.	0.5	13
25	Multiple terminal uridylyltransferases of trypanosomes. FEBS Letters, 2004, 572, 15-18.	1.3	25
26	Wobble modification differences and subcellular localization of tRNAs in Leishmania tarentolae: implication for tRNA sorting mechanism. EMBO Journal, 2003, 22, 657-667.	3.5	106
27	Isolation of a U-insertion/deletion editing complex from Leishmania tarentolae mitochondria. EMBO Journal, 2003, 22, 913-924.	3.5	130
28	Genomic Organization of Kinetoplast DNA Minicircles. Protist, 2003, 154, 265-279.	0.6	47
29	A 100-kD complex of two RNA-binding proteins from mitochondria of Leishmania tarentolae catalyzes RNA annealing and interacts with several RNA editing components. Rna, 2003, 9, 62-76.	1.6	100
30	A tale of two TUTases. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 10617-10622.	3.3	107
31	Is the Trypanosoma brucei REL1 RNA Ligase Specific for U-deletion RNA Editing, and Is the REL2 RNA Ligase Specific for U-insertion Editing?. Journal of Biological Chemistry, 2003, 278, 27570-27574.	1.6	49
32	RBP38, a Novel RNA-Binding Protein from Trypanosomatid Mitochondria, Modulates RNA Stability. Eukaryotic Cell, 2003, 2, 560-568.	3.4	30
33	Uridine insertion/deletion RNA editing in trypanosome mitochondria: A complex business. Rna, 2003, 9, 265-276.	1.6	150
34	Modification of the universally unmodified uridine-33 in a mitochondria-imported edited tRNA and the role of the anticodon arm structure on editing efficiency. Rna, 2002, 8, 752-761.	1.6	47
35	Trypanosome Mitochondrial 3â€² Terminal Uridylyl Transferase (TUTase). Cell, 2002, 108, 637-648.	13.5	135
36	Differential localization of nuclear-encoded tRNAs between the cytosol and mitochondrion in Leishmania tarentolae. Rna, 2002, 8, 57-68.	1.6	24

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37	Guide RNAs of the recently isolated LEM125 strain of Leishmania tarentolae: An unexpected complexity. Rna, 2001, 7, 1335-1347.	1.6	25
38	Uridine insertion/deletion RNA editing in Leishmania tarentolae mitochondria shows cell cycle dependence. Molecular and Biochemical Parasitology, 2001, 113, 175-181.	0.5	6
39	Isolation and Characterization of a U-specific 3â€²-5â€²-Exonuclease from Mitochondria of Leishmania tarentolae. Journal of Biological Chemistry, 2001, 276, 21280-21284.	1.6	30
40	Selective importation of RNA into isolated mitochondria from Leishmania tarentolae. Rna, 2000, 6, 988-1003.	1.6	45
41	End Processing Precedes Mitochondrial Importation and Editing of tRNAs in Leishmania tarentolae. Journal of Biological Chemistry, 2000, 275, 37907-37914.	1.6	34
42	In vitro uridine insertion RNA editing mediated by cis-acting guide RNAs. Rna, 1999, 5, 656-669.	1.6	24
43	The Mitochondrial RNA Ligase from Leishmania tarentolae Can Join RNA Molecules Bridged by a Complementary RNA. Journal of Biological Chemistry, 1999, 274, 24289-24296.	1.6	38
44	Evolution of the U-Insertion/Deletion RNA Editing in Mitochondria of Kinetoplastid Protozoa. Annals of the New York Academy of Sciences, 1999, 870, 190-205.	1.8	30
45	Knockout of the glutamate dehydrogenase gene in bloodstream Trypanosoma brucei in culture has no effect on editing of mitochondrial mRNAs. Molecular and Biochemical Parasitology, 1999, 100, 5-17.	0.5	29
46	Phylogenetic Affinities of Diplonema within the Euglenozoa as Inferred from the SSU rRNA Gene and Partial COI Protein Sequences. Protist, 1999, 150, 33-42.	0.6	46
47	Uridine insertion/deletion RNA editing in trypanosome mitochondria â€" a review. Gene, 1999, 240, 247-260.	1.0	117
48	Are tRNAs imported into the mitochondria of kinetoplastid protozoa as 5â€²-extended precursors?. Molecular and Biochemical Parasitology, 1998, 93, 73-80.	0.5	15
49	Purification and Characterization of MAR1. Journal of Biological Chemistry, 1998, 273, 30003-30011.	1.6	22
50	The Mechanism of U Insertion/Deletion RNA Editing in Kinetoplastid Mitochondria. Nucleic Acids Research, 1997, 25, 3571-3759.	6.5	6
51	Guide RNA-independent and Guide RNA-dependent Uridine Insertion into Cytochrome b mRNA in a Mitochondrial Lysate from Leishmania tarentolae. Journal of Biological Chemistry, 1997, 272, 4212-4218.	1.6	29
52	Native gel analysis of ribonucleoprotein complexes from a Leishmania tarentolae mitochondrial extract. Molecular and Biochemical Parasitology, 1997, 85, 9-24.	0.5	38
53	The genomic organization of guide RNA genes in kinetoplastid protozoa: several conundrums and their solutions. Molecular and Biochemical Parasitology, 1997, 86, 133-141.	0.5	63
54	Phylogenetic Affinity of Mitochondria of Euglena gracilis and Kinetoplastids Using Cytochrome Oxidase I and hsp60. Journal of Molecular Evolution, 1997, 44, 341-347.	0.8	40

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55	RNA Editing. Annual Review of Neuroscience, 1996, 19, 27-52.	5.0	93
56	Phylogeny of trypanosomes as inferred from the small and large subunit rRNAs: implications for the evolution of parasitism in the trypanosomatid protozoa. Molecular and Biochemical Parasitology, 1996, 75, 197-205.	0.5	239
57	Analysis of the 3â€² uridylylation sites of guide RNAs from Leishmania tarentolae. Molecular and Biochemical Parasitology, 1996, 79, 229-234.	0.5	6
58	[10] RNA editing in trypanosomatid mitochondria. Methods in Enzymology, 1996, 264, 99-121.	0.4	21
59	Characterization of two nuclear-encoded protein components of mitochondrial ribonucleoprotein complexes from Leishmania tarentolae. Molecular and Biochemical Parasitology, 1995, 71, 65-79.	0.5	45
60	RNA-protein interactions in the ribonucleoprotein T-complexes in a mitochondrial extract from Leishmania tarentolae. Molecular and Biochemical Parasitology, 1995, 72, 65-76.	0.5	10
61	Editing and mismediting of transcripts of the kinetoplast maxicircle G5 (ND3) cryptogene in an old laboratory strain of Leishmania tarentolae. Molecular and Biochemical Parasitology, 1994, 68, 155-159.	0.5	20
62	Evolution of RNA editing in kinetoplastid protozoa. Nature, 1994, 368, 345-348.	13.7	146
63	Ancient origin of RNA editing in kinetoplastid protozoa. Current Opinion in Genetics and Development, 1994, 4, 887-894.	1.5	26
64	Organization of mini-exon and 5S rRNA genes in the kinetoplastid Trypanoplasma borreli. Molecular and Biochemical Parasitology, 1993, 61, 127-135.	0.5	24
65	Computer methods for locating kinetoplastid cryptogenes. Nucleic Acids Research, 1992, 20, 2717-2724.	6.5	13
66	The polarity of editing within a multiple gRNA-mediated domain is due to formation of anchors for upstream gRNAs by downstream editing. Cell, 1992, 70, 459-467.	13.5	156
67	Generation of unexpected editing patterns in Leishmania tarentolae mitochondrial mRNAs: Misediting produced by misguiding. Cell, 1992, 70, 469-476.	13.5	80
68	Recurrent polymorphisms in small chromosomes of Leishmania tarentolae after nutrient stress or subcloning. Molecular and Biochemical Parasitology, 1992, 50, 115-125.	0.5	48
69	Chimeric gRNA-mRNA molecules with oligo(U) tails covalently linked at sites of RNA editing suggest that U addition occurs by transesterification. Cell, 1991, 65, 543-550.	13.5	153
70	Polymerase chain reaction amplification of Trypanosoma cruzi kinetoplast minicircle DNA isolated from whole blood lysates: diagnosis of chronic Chagas' disease. Molecular and Biochemical Parasitology, 1991, 48, 211-221.	0.5	203
71	Leishmania tarentolaeminicircles of different sequence classes encode single guide RNAs located in the variable region approximately 150 bp from the conserved region. Nucleic Acids Research, 1991, 19, 6277-6281.	6.5	63
72	Schizodeme analysis of Trypanosoma cruzi stocks from South and Central America by analysis of PCR-amplified minicircle variable region sequences. Molecular and Biochemical Parasitology, 1990, 42, 175-187.	0.5	85

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73	A model for RNA editing in kinetoplastid mitochondria: RNA molecules transcribed from maxicircle DNA provide the edited information. Cell, 1990, 60, 189-198.	13.5	594
74	Partially edited mRNAs for cytochrome b and subunit III of cytochrome oxidase from leishmania tarentolae mitochondria: RNA editing intermediates. Cell, 1990, 61, 871-878.	13.5	110
75	Kinetoplast DNA minicircles encode guide RNAs for editing of cytochrome oxidase subunit III mRNA. Cell, 1990, 61, 879-884.	13.5	228
76	Guide RNAs in kinetoplastid mitochondria have a nonencoded 3â€² oligo(U) tail involved in recognition of the preedited region. Cell, 1990, 62, 391-397.	13.5	242
77	Structure, genomic organization and transcription of the bifunctional dihydrofolate reductase-thymidylate synthase gene from Crithidia fasciculata. Molecular and Biochemical Parasitology, 1989, 34, 155-166.	0.5	31
78	Sensitive detection and schizodeme classification of Trypanosoma cruzi cells by amplification of kinetoplast minicircle DNA sequences: use in diagnosis of Chagas' disease. Molecular and Biochemical Parasitology, 1989, 33, 205-214.	0.5	274
79	Genomic organisation of nuclear tRNAGly and tRNALeu genes in Trypanosoma brucei. Molecular and Biochemical Parasitology, 1989, 37, 257-262.	0.5	20
80	Sequence of a cDNA for the ND1 gene from Leishmania major: potential uridine addition in the polyadenosine tail. Molecular and Biochemical Parasitology, 1989, 36, 197-199.	0.5	19
81	RNA editing and the mitochondrial cryptogenes of kinetoplastid protozoa. Cell, 1989, 57, 355-366.	13.5	261
82	Kinetoplastid mitochondria contain functional tRNAs which are encoded in nuclear DNA and also contain small mlnltircJe and maxicircle transcripts of unknown function. Nucleic Acids Research, 1989, 17, 5427-5446.	6.5	189
83	Characterization of a protein fraction containing cytochromes b and c1 from mitochondria of Leishmania tarentolae. Experimental Parasitology, 1989, 68, 443-449.	0.5	6
84	Peculiar sequence organization of kinetoplast DNA minicircles from Trypanosoma cruzi. Molecular and Biochemical Parasitology, 1988, 27, 63-70.	0.5	117
85	Comparison of several lizard Leishmania species and strains in terms of kinetoplast minicircle and maxicircle DNA sequences, nuclear chromosomes, and membrane lipids. Molecular and Biochemical Parasitology, 1988, 27, 143-158.	0.5	51
86	Editing of kinetoplastid mitochondrial mRNAs by uridine addition and deletion generates conserved amino acid sequences and AUG initiation codons. Cell, 1988, 53, 401-411.	13.5	225
87	Kinetoplast DNA in Trypanosomid Flagellates. International Review of Cytology, 1986, 99, 119-179.	6.2	148
88	Specific cleavage of kinetoplast minicircle DNA fromLeishmania tarentolaeby mung bean nuclease and identification of several additional minicircle sequence classes. Nucleic Acids Research, 1986, 14, 5531-5556.	6.5	22
89	Trypanosoma brucei: Differentiation of in Vitro-Grown Bloodstream Trypomastigotes into Procyclic Forms1. Journal of Protozoology, 1985, 32, 672-677.	0.9	28
90	Primary sequence and partial secondary structure of the 12S kinetoplast (mitochondrial) ribosomal RNA fromLeishmania tarentolae: conservation of peptidyl-transferase structural elements. Nucleic Acids Research, 1985, 13, 2337-2356.	6.5	66

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91	The divergent region of theLeishmania tarentolaekinetoplast maxicircle DNA contains a diverse set of repetitive sequences. Nucleic Acids Research, 1985, 13, 3241-3260.	6.5	37
92	Mapping and 5â€² end determination of kinetoplast maxicircle gene transcripts fromLeishmania tarentolae. Nucleic Acids Research, 1985, 13, 5977-5993.	6.5	35
93	Autonomous replication sequences in the maxicircle kinetoplast DNA of Leishmania tarentolae. Molecular and Biochemical Parasitology, 1984, 13, 263-275.	0.5	13
94	Sequence heterogeneity and anomalous electrophoretic mobility of kinetoplast minicircle DNA from Leishmania tarentolae. Gene, 1984, 27, 265-277.	1.0	96
95	Flagellar Adherence ofCrithidia fasciculataCells in Culture1. Journal of Protozoology, 1983, 30, 635-641.	0.9	7
96	Transcription of the maxicircle kinetoplast DNA of Leishmania tarentolae. Molecular and Biochemical Parasitology, 1982, 6, 237-252.	0.5	27
97	Identification of maxicircle DNA sequences in Leishmania tarentolae that are homologous to sequences of specific yeast mitochondrial structural genes. Molecular and Biochemical Parasitology, 1982, 6, 253-264.	0.5	17
98	Kinetoplast DNA and RNA of Trypanosoma brucei. Molecular and Biochemical Parasitology, 1980, 2, 93-108.	0.5	33
99	The Kinetoplast DNA of the Hemoflagellate Protozoa. American Journal of Tropical Medicine and Hygiene, 1980, 29, 1053-1063.	0.6	43
100	Restriction map, partial cloning and localization of 9S and 12S kinetoplast RNA genes on the maxicircle component of the kinetoplast DNA of Leishmania tarentolae. Gene, 1979, 6, 51-73.	1.0	30
101	Isolation and characterization of kinetoplast DNA and RNA of Phytomonas davidi. Plasmid, 1978, 1, 297-315.	0.4	25
102	Pulse-Labeling of Kinetoplast DNA: Localization of 2 Sites of Synthesis Within the Networks and Kinetics of Labeling of Closed Minicircles*. Journal of Protozoology, 1976, 23, 583-587.	0.9	53
103	Labeling ofCrithidia fasciculataDNA with [3H]Thymidine. Journal of Protozoology, 1974, 21, 379-382.	0.9	14
104	Isolation of the Kinetoplast DNA ofLeishmania tarentolaein the Form of a Network*. Journal of Protozoology, 1974, 21, 382-393.	0.9	75
105	Isolation of Kinetoplast-Mitochondrial Complexes fromLeishmania tarentolae*. Journal of Protozoology, 1974, 21, 782-790.	0.9	127
106	Replication of the kinetoplast DNA of Leishmania tarentolae and Crithidia fasciculata. Nucleic Acids and Protein Synthesis, 1974, 349, 161-172.	1.7	50
107	Isolation and Characterization of Kinetoplast DNA Networks and Minicircles fromCrithidia fasciculata*. Journal of Protozoology, 1974, 21, 774-781.	0.9	65
108	Structure and Function of Kinetoplast DNA*â€. Journal of Protozoology, 1973, 20, 2-8.	0.9	23

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109	Studies on kinetoplast DNA II. Biophysical properties of minicircular DNA from Leishmania tarentolae. Nucleic Acids and Protein Synthesis, 1973, 319, 254-266.	1.7	25
110	Studies on kinetoplast DNA III. Kinetic complexity of kinetoplast and nuclear DNA from Leishmania tarentolae. Nucleic Acids and Protein Synthesis, 1973, 319, 267-276.	1.7	41
111	The Kinetoplast of the Hernoflagellates. International Review of Cytology, 1972, , 139-207.	6.2	172
112	Isolation and characterization of kinetoplast DNA from Leishmania tarentolae. Journal of Molecular Biology, 1971, 56, 443-473.	2.0	99
113	Synchronization ofLeishmania tarentolaeby Hydroxyurea. Journal of Protozoology, 1970, 17, 511-517.	0.9	123