

# David A Horn

## List of Publications by Year in descending order

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109  
papers

9,411  
citations

50276

46  
h-index

42399

92  
g-index

112  
all docs

112  
docs citations

112  
times ranked

6512  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Genome Sequence of <i>Trypanosoma cruzi</i> , Etiologic Agent of Chagas Disease. <i>Science</i> , 2005, 309, 409-415.	12.6	1,273
2	The Genome of the Kinetoplastid Parasite, <i>Leishmania major</i> . <i>Science</i> , 2005, 309, 436-442.	12.6	1,237
3	High-throughput phenotyping using parallel sequencing of RNA interference targets in the African trypanosome. <i>Genome Research</i> , 2011, 21, 915-924.	5.5	404
4	A mechanism for cross-resistance to nifurtimox and benznidazole in trypanosomes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 5022-5027.	7.1	370
5	Anti-trypanosomatid drug discovery: an ongoing challenge and a continuing need. <i>Nature Reviews Microbiology</i> , 2017, 15, 217-231.	28.6	315
6	High-throughput decoding of antitrypanosomal drug efficacy and resistance. <i>Nature</i> , 2012, 482, 232-236.	27.8	276
7	Antigenic variation in African trypanosomes. <i>Molecular and Biochemical Parasitology</i> , 2014, 195, 123-129.	1.1	246
8	Drug resistance in African trypanosomiasis: the melarsoprol and pentamidine story. <i>Trends in Parasitology</i> , 2013, 29, 110-118.	3.3	207
9	Genome-wide dissection of the quorum sensing signalling pathway in <i>Trypanosoma brucei</i> . <i>Nature</i> , 2014, 505, 681-685.	27.8	186
10	A doubly inducible system for RNA interference and rapid RNAi plasmid construction in <i>Trypanosoma brucei</i> . <i>Molecular and Biochemical Parasitology</i> , 2005, 139, 75-82.	1.1	150
11	A developmentally regulated position effect at a telomeric locus in <i>Trypanosoma brucei</i> . <i>Cell</i> , 1995, 83, 555-561.	28.9	142
12	Tagging a <i>T. brucei</i> rRNA locus improves stable transfection efficiency and circumvents inducible expression position effects. <i>Molecular and Biochemical Parasitology</i> , 2005, 144, 142-148.	1.1	135
13	Aquaglyceroporin 2 controls susceptibility to melarsoprol and pentamidine in African trypanosomes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 10996-11001.	7.1	134
14	Single-locus targeting constructs for reliable regulated RNAi and transgene expression in <i>Trypanosoma brucei</i> . <i>Molecular and Biochemical Parasitology</i> , 2008, 161, 76-79.	1.1	133
15	Molecular mechanisms underlying the control of antigenic variation in African trypanosomes. <i>Current Opinion in Microbiology</i> , 2010, 13, 700-705.	5.1	130
16	Preclinical candidate for the treatment of visceral leishmaniasis that acts through proteasome inhibition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 9318-9323.	7.1	119
17	A sirtuin in the African trypanosome is involved in both DNA repair and telomeric gene silencing but is not required for antigenic variation. <i>Molecular Microbiology</i> , 2007, 63, 724-36.	2.5	109
18	<i>Trypanosoma brucei</i> aquaglyceroporin 2 is a high-affinity transporter for pentamidine and melaminophenyl arsenic drugs and the main genetic determinant of resistance to these drugs. <i>Journal of Antimicrobial Chemotherapy</i> , 2014, 69, 651-663.	3.0	106

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19	RNA Interference Identifies Two Hydroperoxide Metabolizing Enzymes That Are Essential to the Bloodstream Form of the African Trypanosome. <i>Journal of Biological Chemistry</i> , 2003, 278, 31640-31646.	3.4	105
20	NUP-1 Is a Large Coiled-Coil Nucleoskeletal Protein in Trypanosomes with Lamin-Like Functions. <i>PLoS Biology</i> , 2012, 10, e1001287.	5.6	105
21	Sequence homology and microhomology dominate chromosomal double-strand break repair in African trypanosomes. <i>Nucleic Acids Research</i> , 2008, 36, 2608-2618.	14.5	103
22	Genome-wide RNAi screens in African trypanosomes identify the nifurtimox activator NTR and the eflornithine transporter AAT6. <i>Molecular and Biochemical Parasitology</i> , 2011, 176, 55-57.	1.1	102
23	Trypanosomal histone H2A and the DNA damage response. <i>Molecular and Biochemical Parasitology</i> , 2012, 183, 78-83.	1.1	94
24	Melarsoprol Resistance in African Trypanosomiasis. <i>Trends in Parasitology</i> , 2018, 34, 481-492.	3.3	93
25	DNA Break Site at Fragile Subtelomeres Determines Probability and Mechanism of Antigenic Variation in African Trypanosomes. <i>PLoS Pathogens</i> , 2013, 9, e1003260.	4.7	92
26	VEX1 controls the allelic exclusion required for antigenic variation in trypanosomes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 7225-7230.	7.1	90
27	Clinical and veterinary trypanocidal benzoxaboroles target CPSF3. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 9616-9621.	7.1	90
28	Chromosome-Wide Analysis of Gene Function by RNA Interference in the African Trypanosome. <i>Eukaryotic Cell</i> , 2006, 5, 1539-1549.	3.4	77
29	Position-dependent and promoter-specific regulation of gene expression in <i>Trypanosoma brucei</i> . <i>EMBO Journal</i> , 1997, 16, 7422-7431.	7.8	76
30	Functional characterisation of the iron superoxide dismutase gene repertoire in <i>Trypanosoma brucei</i> . <i>Free Radical Biology and Medicine</i> , 2006, 40, 198-209.	2.9	75
31	Codon usage bias controls mRNA and protein abundance in trypanosomatids. <i>ELife</i> , 2018, 7, .	6.0	74
32	Two essential MYST family proteins display distinct roles in histone H4K10 acetylation and telomeric silencing in trypanosomes. <i>Molecular Microbiology</i> , 2008, 69, 1054-1068.	2.5	73
33	Monoallelic expression and epigenetic inheritance sustained by a <i>Trypanosoma brucei</i> variant surface glycoprotein exclusion complex. <i>Nature Communications</i> , 2019, 10, 3023.	12.8	73
34	Microhomology-mediated deletion and gene conversion in African trypanosomes. <i>Nucleic Acids Research</i> , 2011, 39, 1372-1380.	14.5	68
35	Analysis of <i>Trypanosoma brucei</i> vsg expression site switching in vitro. <i>Molecular and Biochemical Parasitology</i> , 1997, 84, 189-201.	1.1	67
36	Histone deacetylases play distinct roles in telomeric VSG expression site silencing in African trypanosomes. <i>Molecular Microbiology</i> , 2010, 77, 1237-1245.	2.5	65

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37	Aquaporin 2 Mutations in <i>Trypanosoma brucei</i> gambiense Field Isolates Correlate with Decreased Susceptibility to Pentamidine and Melarsoprol. <i>PLoS Neglected Tropical Diseases</i> , 2013, 7, e2475.	3.0	63
38	Intracellular redistribution of neuropeptides and secretory proteins during differentiation of neuronal cell lines. <i>Neuroscience</i> , 1992, 46, 881-889.	2.3	60
39	Histone deacetylases in <i>Trypanosoma brucei</i> : two are essential and another is required for normal cell cycle progression. <i>Molecular Microbiology</i> , 2002, 45, 89-97.	2.5	60
40	Trypanosomatid histones. <i>Molecular Microbiology</i> , 2004, 53, 365-372.	2.5	60
41	Cyclic AMP Effectors in African Trypanosomes Revealed by Genome-Scale RNA Interference Library Screening for Resistance to the Phosphodiesterase Inhibitor CpdA. <i>Antimicrobial Agents and Chemotherapy</i> , 2013, 57, 4882-4893.	3.2	59
42	Genetic manipulation indicates that ARD1 is an essential N <sup>1</sup> -acetyltransferase in <i>Trypanosoma brucei</i> . <i>Molecular and Biochemical Parasitology</i> , 2000, 111, 309-317.	1.1	57
43	The central roles of telomeres and subtelomeres in antigenic variation in African trypanosomes. <i>Chromosome Research</i> , 2005, 13, 525-533.	2.2	56
44	Vitamin C biosynthesis in trypanosomes: A role for the glycosome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 11645-11650.	7.1	56
45	Cell-cycle-regulated control of VSG expression site silencing by histones and histone chaperones ASF1A and CAF-1b in <i>Trypanosoma brucei</i> . <i>Nucleic Acids Research</i> , 2012, 40, 10150-10160.	14.5	56
46	Antigenic variation in African trypanosomes: the importance of chromosomal and nuclear context in VSG expression control. <i>Cellular Microbiology</i> , 2013, 15, 1984-1993.	2.1	55
47	Acetylation of histone H4K4 is cell cycle regulated and mediated by HAT3 in <i>Trypanosoma brucei</i> . <i>Molecular Microbiology</i> , 2008, 67, 762-771.	2.5	54
48	PPL2 Translesion Polymerase Is Essential for the Completion of Chromosomal DNA Replication in the African Trypanosome. <i>Molecular Cell</i> , 2013, 52, 554-565.	9.7	54
49	Antiparasitic Chemotherapy: From Genomes to Mechanisms. <i>Annual Review of Pharmacology and Toxicology</i> , 2014, 54, 71-94.	9.4	53
50	Inducible high-efficiency CRISPR-Cas9-targeted gene editing and precision base editing in African trypanosomes. <i>Scientific Reports</i> , 2018, 8, 7960.	3.3	53
51	Epigenetic Regulation of Virulence Gene Expression in Parasitic Protozoa. <i>Cell Host and Microbe</i> , 2016, 19, 629-640.	11.0	51
52	Spatial integration of transcription and splicing in a dedicated compartment sustains monogenic antigen expression in African trypanosomes. <i>Nature Microbiology</i> , 2021, 6, 289-300.	13.3	50
53	Genome-scale RNAi screens for high-throughput phenotyping in bloodstream-form African trypanosomes. <i>Nature Protocols</i> , 2015, 10, 106-133.	12.0	49
54	Genetic dissection of drug resistance in trypanosomes. <i>Parasitology</i> , 2013, 140, 1478-1491.	1.5	47

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55	Repression of polymerase $\lambda$ -mediated gene expression at <i>Trypanosoma brucei</i> telomeres. <i>EMBO Reports</i> , 2006, 7, 93-99.	4.5	46
56	Pentamidine Is Not a Permeant but a Nanomolar Inhibitor of the <i>Trypanosoma brucei</i> Aquaglyceroporin-2. <i>PLoS Pathogens</i> , 2016, 12, e1005436.	4.7	46
57	Deletion of a trypanosome telomere leads to loss of silencing and progressive loss of terminal DNA in the absence of cell cycle arrest. <i>Nucleic Acids Research</i> , 2007, 35, 872-880.	14.5	45
58	Chimerization at the AQP2â€“AQP3 locus is the genetic basis of melarsoprolâ€“pentamidine cross-resistance in clinical <i>Trypanosoma brucei gambiense</i> isolates. <i>International Journal for Parasitology: Drugs and Drug Resistance</i> , 2015, 5, 65-68.	3.4	44
59	Genome-wide and protein kinase-focused RNAi screens reveal conserved and novel damage response pathways in <i>Trypanosoma brucei</i> . <i>PLoS Pathogens</i> , 2017, 13, e1006477.	4.7	44
60	Insights into antitrypanosomal drug mode-of-action from cytology-based profiling. <i>PLoS Neglected Tropical Diseases</i> , 2018, 12, e0006980.	3.0	41
61	Receptor-mediated endocytosis for drug delivery in African trypanosomes: fulfilling Paul Ehrlich's vision of chemotherapy. <i>Trends in Parasitology</i> , 2013, 29, 207-212.	3.3	40
62	Deletion of the <i>Trypanosoma brucei</i> Superoxide Dismutase Gene <i>sodb1</i> Increases Sensitivity to Nifurtimox and Benznidazole. <i>Antimicrobial Agents and Chemotherapy</i> , 2007, 51, 755-758.	3.2	39
63	Vacuolar ATPase depletion affects mitochondrial ATPase function, kinetoplast dependency, and drug sensitivity in trypanosomes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 9112-9117.	7.1	39
64	Telomere maintenance and length regulation in <i>Trypanosoma brucei</i> . <i>EMBO Journal</i> , 2000, 19, 2332-2339.	7.8	38
65	Site-specific DNA double-strand breaks greatly increase stable transformation efficiency in <i>Trypanosoma brucei</i> . <i>Molecular and Biochemical Parasitology</i> , 2009, 166, 194-197.	1.1	38
66	Aquaglyceroporin-null trypanosomes display glycerol transport defects and respiratory-inhibitor sensitivity. <i>PLoS Pathogens</i> , 2017, 13, e1006307.	4.7	37
67	Modulation of the Surface Proteome through Multiple Ubiquitylation Pathways in African Trypanosomes. <i>PLoS Pathogens</i> , 2015, 11, e1005236.	4.7	34
68	Benzoxaborole treatment perturbs S-adenosyl-L-methionine metabolism in <i>Trypanosoma brucei</i> . <i>PLoS Neglected Tropical Diseases</i> , 2018, 12, e0006450.	3.0	33
69	The Molecular Control of Antigenic Variation in <i>Trypanosoma brucei</i> . <i>Current Molecular Medicine</i> , 2004, 4, 563-576.	1.3	32
70	Cathepsin-L Can Resist Lysis by Human Serum in <i>Trypanosoma brucei brucei</i> . <i>PLoS Pathogens</i> , 2014, 10, e1004130.	4.7	32
71	Gluconeogenesis using glycerol as a substrate in bloodstream-form <i>Trypanosoma brucei</i> . <i>PLoS Pathogens</i> , 2018, 14, e1007475.	4.7	32
72	Suramin exposure alters cellular metabolism and mitochondrial energy production in African trypanosomes. <i>Journal of Biological Chemistry</i> , 2020, 295, 8331-8347.	3.4	32

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73	Genome-wide RNAi selection identifies a regulator of transmission stage-enriched gene families and cell-type differentiation in <i>Trypanosoma brucei</i> . <i>PLoS Pathogens</i> , 2017, 13, e1006279.	4.7	30
74	Exploiting the Achilles™ heel of membrane trafficking in trypanosomes. <i>Current Opinion in Microbiology</i> , 2016, 34, 97-103.	5.1	28
75	Inhibitors of human histone deacetylase with potent activity against the African trypanosome <i>Trypanosoma brucei</i> . <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012, 22, 1886-1890.	2.2	27
76	Host-parasite co-metabolic activation of antitrypanosomal aminomethyl-benzoxaboroles. <i>PLoS Pathogens</i> , 2018, 14, e1006850.	4.7	26
77	Elongator Protein 3b Negatively Regulates Ribosomal DNA Transcription in African Trypanosomes. <i>Molecular and Cellular Biology</i> , 2011, 31, 1822-1832.	2.3	25
78	What has DNA sequencing revealed about the VSG expression sites of African trypanosomes?. <i>Trends in Parasitology</i> , 2009, 25, 359-363.	3.3	24
79	High-resolution analysis of multi-copy variant surface glycoprotein gene expression sites in African trypanosomes. <i>BMC Genomics</i> , 2016, 17, 806.	2.8	23
80	Co-dependence between trypanosome nuclear lamina components in nuclear stability and control of gene expression. <i>Nucleic Acids Research</i> , 2016, 44, 10554-10570.	14.5	23
81	Nuclear gene transcription and chromatin in <i>Trypanosoma brucei</i> . <i>International Journal for Parasitology</i> , 2001, 31, 1157-1165.	3.1	22
82	Locus-specific control of DNA resection and suppression of subtelomeric VSG recombination by HAT3 in the African trypanosome. <i>Nucleic Acids Research</i> , 2014, 42, 12600-12613.	14.5	22
83	Comparative genomics of drug resistance in <i>Trypanosoma brucei rhodesiense</i> . <i>Cellular and Molecular Life Sciences</i> , 2016, 73, 3387-3400.	5.4	22
84	A profile of research on the parasitic trypanosomatids and the diseases they cause. <i>PLoS Neglected Tropical Diseases</i> , 2022, 16, e0010040.	3.0	22
85	The Role of Folate Transport in Antifolate Drug Action in <i>Trypanosoma brucei</i> . <i>Journal of Biological Chemistry</i> , 2016, 291, 24768-24778.	3.4	21
86	Expression of the SmN Splicing Protein Is Developmentally Regulated in the Rodent Brain but Not in the Rodent Heart. <i>Developmental Biology</i> , 1993, 156, 319-323.	2.0	20
87	Introducing histone modification in trypanosomes. <i>Trends in Parasitology</i> , 2007, 23, 239-242.	3.3	18
88	Veterinary trypanocidal benzoxaboroles are peptidase-activated prodrugs. <i>PLoS Pathogens</i> , 2020, 16, e1008932.	4.7	16
89	Expression of the tissue specific splicing protein SmN in neuronal cell lines and in regions of the brain with different splicing capacities. <i>Molecular Brain Research</i> , 1992, 16, 13-19.	2.3	14
90	A post-transcriptional respiratome regulon in trypanosomes. <i>Nucleic Acids Research</i> , 2019, 47, 7063-7077.	14.5	14

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91	Ornithine uptake and the modulation of drug sensitivity in <i>Trypanosoma brucei</i> . <i>FASEB Journal</i> , 2017, 31, 4649-4660.	0.5	12
92	Genome-scale RNAi screens in African trypanosomes. <i>Trends in Parasitology</i> , 2022, 38, 160-173.	3.3	11
93	Identification of a Proteasome-Targeting Arylsulfonamide with Potential for the Treatment of Chagasâ€™ Disease. <i>Antimicrobial Agents and Chemotherapy</i> , 2022, 66, AAC0153521.	3.2	11
94	The Cardiac Form of the Tissue-Specific SmN Protein is Identical to the Brain and Embryonic Forms of the Protein. <i>Journal of Molecular and Cellular Cardiology</i> , 1993, 25, 321-329.	1.9	9
95	Mice lacking <i>Snrpn</i> expression show normal regulation of neuronal alternative splicing events. <i>Molecular Biology Reports</i> , 1994, 20, 19-25.	2.3	9
96	High-throughput decoding of drug targets and drug resistance mechanisms in African trypanosomes. <i>Parasitology</i> , 2014, 141, 77-82.	1.5	9
97	<i>Trypanosoma brucei</i> J protein 2 is a stress inducible and essential Hsp40. <i>International Journal of Biochemistry and Cell Biology</i> , 2015, 60, 93-98.	2.8	9
98	Faster growth with shorter antigens can explain a VSG hierarchy during African trypanosome infections: a feint attack by parasites. <i>Scientific Reports</i> , 2018, 8, 10922.	3.3	9
99	Redistribution of secretory granule components precedes that of synaptic vesicle proteins during differentiation of a neuronal cell line in serum-free medium. <i>Neuroscience</i> , 1992, 51, 575-582.	2.3	8
100	Antigenic Variation: Extending the Reach of Telomeric Silencing. <i>Current Biology</i> , 2009, 19, R496-R498.	3.9	8
101	RNA interference, growth and differentiation appear normal in African trypanosomes lacking <i>Tudor</i> staphylococcal nuclease. <i>Molecular and Biochemical Parasitology</i> , 2010, 174, 70-73.	1.1	8
102	Alternative splicing of the mRNA encoding the $\hat{\pm}$ subunits of the <i>Go</i> GTP-binding protein during brain development and in neuronal cell lines. <i>Neuroscience Letters</i> , 1993, 155, 57-60.	2.1	5
103	Analysis of Small GTPase Function in Trypanosomes. <i>Methods in Enzymology</i> , 2008, 438, 57-76.	1.0	5
104	Oligo targeting for profiling drug resistance mutations in the parasitic trypanosomatids. <i>Nucleic Acids Research</i> , 2022, 50, e79-e79.	14.5	5
105	A distal region of the <i>CALC-1</i> gene is necessary for regulated alternative splicing. <i>FEBS Letters</i> , 1993, 324, 123-126.	2.8	4
106	Distinct activation mechanisms trigger the trypanocidal activity of DNA damaging prodrugs. <i>Molecular Microbiology</i> , 2017, 106, 207-222.	2.5	4
107	Control of Variant Surface Glycoprotein Expression by CFB2 in <i>Trypanosoma brucei</i> and Quantitative Proteomic Connections to Translation and Cytokinesis. <i>MSphere</i> , 2022, 7, e0006922.	2.9	4
108	The tissue specific SmN protein does not influence the alternative splicing of endogenous N-Cam and C-SRC RNAs in transfected 3T3 cells. <i>Molecular Brain Research</i> , 1993, 19, 181-187.	2.3	1

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109	How Antiparasitic Drugs Work And Sometimes Stop Working!. PLoS Pathogens, 2016, 12, e1005430.	4.7	1