Kent L Hill

List of Publications by Year
in descending order

35 papers	1,968 citations	218662 26 h-index	361001 35 g-index
39 all docs	39 docs citations	39 times ranked	1470 citing authors

#	Article	IF	Citations
1	Flagellar Motility Contributes to Cytokinesis in Trypanosoma brucei and Is Modulated by an Evolutionarily Conserved Dynein Regulatory System. Eukaryotic Cell, 2006, 5, 696-711.	3.4	154
2	Motility and more: the flagellum of Trypanosoma brucei. Nature Reviews Microbiology, 2014, 12, 505-518.	28.6	148
3	Independent Analysis of the Flagellum Surface and Matrix Proteomes Provides Insight into Flagellum Signaling in Mammalian-infectious Trypanosoma brucei. Molecular and Cellular Proteomics, 2011, 10, M111.010538.	3.8	147
4	The Trypanosoma brucei Flagellum: Moving Parasites in New Directions. Annual Review of Microbiology, 2009, 63, 335-362.	7.3	108
5	Social Motility in African Trypanosomes. PLoS Pathogens, 2010, 6, e1000739.	4.7	98
6	Functional genomics in Trypanosoma brucei identifies evolutionarily conserved components of motile flagella. Journal of Cell Science, 2007, 120, 478-491.	2.0	97
7	Stuck in reverse: loss of LC1 in Trypanosoma brucei disrupts outer dynein arms and leads to reverse flagellar beat and backward movement. Journal of Cell Science, 2007, 120, 1513-1520.	2.0	77
8	Trypanin, a Component of the Flagellar Dynein Regulatory Complex, Is Essential in Bloodstream Form African Trypanosomes. PLoS Pathogens, 2006, 2, e101.	4.7	74
9	Biology and Mechanism of Trypanosome Cell Motility. Eukaryotic Cell, 2003, 2, 200-208.	3.4	72
10	Insect Stage-Specific Receptor Adenylate Cyclases Are Localized to Distinct Subdomains of the Trypanosoma brucei Flagellar Membrane. Eukaryotic Cell, 2014, 13, 1064-1076.	3.4	68
11	Insect Stage-Specific Adenylate Cyclases Regulate Social Motility in African Trypanosomes. Eukaryotic Cell, 2015, 14, 104-112.	3.4	67
12	Propulsion of African trypanosomes is driven by bihelical waves with alternating chirality separated by kinks. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 19322-19327.	7.1	66
13	The flagellum of Trypanosoma brucei: New tricks from an old dog. International Journal for Parasitology, 2008, 38, 869-884.	3.1	53
14	Cell Surface Proteomics Provides Insight into Stage-Specific Remodeling of the Host-Parasite Interface in Trypanosoma brucei*. Molecular and Cellular Proteomics, 2015, 14, 1977-1988.	3.8	50
15	Flagellar cAMP signaling controls trypanosome progression through host tissues. Nature Communications, 2019, 10, 803.	12.8	50
16	eIF4F-like complexes formed by cap-binding homolog TbEIF4E5 with TbEIF4G1 or TbEIF4G2 are implicated in post-transcriptional regulation in Trypanosoma brucei. Rna, 2014, 20, 1272-1286.	3.5	48
17	Cyclic AMP Regulates Social Behavior in African Trypanosomes. MBio, 2015, 6, e01954-14.	4.1	47
18	Parasite motility is critical for virulence of African trypanosomes. Scientific Reports, 2018, 8, 9122.	3.3	47

#	Article	IF	Citations
19	T Lymphocyte-triggering Factor of African Trypanosomes Is Associated with the Flagellar Fraction of the Cytoskeleton and Represents a New Family of Proteins That Are Present in Several Divergent Eukaryotes. Journal of Biological Chemistry, 2000, 275, 39369-39378.	3.4	46
20	Cryo electron tomography with volta phase plate reveals novel structural foundations of the 96-nm axonemal repeat in the pathogen Trypanosoma brucei. ELife, 2019, 8, .	6.0	46
21	Motility-based label-free detection of parasites in bodily fluids using holographic speckle analysis and deep learning. Light: Science and Applications, 2018, 7, 108.	16.6	45
22	Three-Dimensional Structure of the Trypanosome Flagellum Suggests that the Paraflagellar Rod Functions as a Biomechanical Spring. PLoS ONE, 2012, 7, e25700.	2.5	42
23	Trypanosoma brucei Translation Initiation Factor Homolog EIF4E6 Forms a Tripartite Cytosolic Complex with EIF4G5 and a Capping Enzyme Homolog. Eukaryotic Cell, 2014, 13, 896-908.	3.4	41
24	Loss of the BBSome perturbs endocytic trafficking and disrupts virulence of Trypanosoma brucei. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 632-637.	7.1	38
25	Structure-Function Analysis of Dynein Light Chain 1 Identifies Viable Motility Mutants in Bloodstream-Form Trypanosoma brucei. Eukaryotic Cell, 2011, 10, 884-894.	3.4	35
26	Approaches for Functional Analysis of Flagellar Proteins in African Trypanosomes. Methods in Cell Biology, 2009, 93, 21-57.	1.1	34
27	CMF70 is a subunit of the dynein regulatory complex. Journal of Cell Science, 2010, 123, 3587-3595.	2.0	30
28	Parasites in motion: flagellum-driven cell motility in African trypanosomes. Current Opinion in Microbiology, 2010, 13, 459-465.	5.1	25
29	Mouse infection and pathogenesis byTrypanosoma bruceimotility mutants. Cellular Microbiology, 2014, 16, 912-924.	2.1	20
30	"With a Little Help from My Friends"â€"Social Motility in Trypanosoma brucei. PLoS Pathogens, 2015, 11, e1005272.	4.7	20
31	APEX2 Proximity Proteomics Resolves Flagellum Subdomains and Identifies Flagellum Tip-Specific Proteins in Trypanosoma brucei. MSphere, 2021, 6, .	2.9	18
32	CMF22 Is a Broadly Conserved Axonemal Protein and Is Required for Propulsive Motility in Trypanosoma brucei. Eukaryotic Cell, 2013, 12, 1202-1213.	3.4	17
33	Identification of Positive Chemotaxis in the Protozoan Pathogen Trypanosoma brucei. MSphere, 2020, 5, .	2.9	15
34	Structure of the trypanosome paraflagellar rod and insights into non-planar motility of eukaryotic cells. Cell Discovery, 2021, 7, 51.	6.7	12
35	Right place, right time: Environmental sensing and signal transduction directs cellular differentiation and motility in Trypanosoma brucei. Molecular Microbiology, 2021, 115, 930-941.	2.5	9