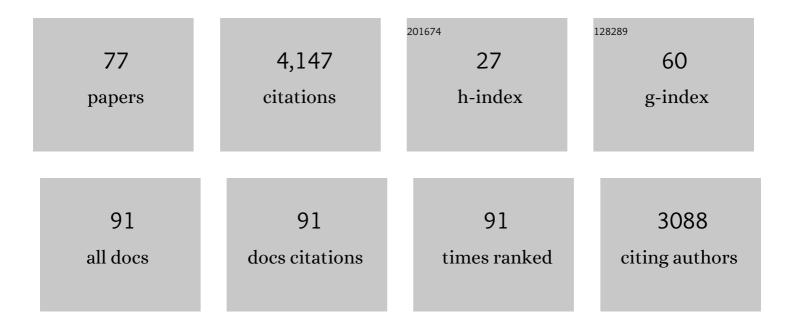
Richard McCulloch

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Editorial: Nuclear Genome Stability: DNA Replication, Telomere Maintenance, and DNA Repair. Frontiers in Cell and Developmental Biology, 2022, 10, 875749.	3.7	0
2	Read, Write, Adapt: Challenges and Opportunities during Kinetoplastid Genome Replication. Trends in Genetics, 2021, 37, 21-34.	6.7	9
3	The MRN complex promotes DNA repair by homologous recombination and restrains antigenic variation in African trypanosomes. Nucleic Acids Research, 2021, 49, 1436-1454.	14.5	11
4	Application of single-cell transcriptomics to kinetoplastid research. Parasitology, 2021, 148, 1223-1236.	1.5	11
5	Unpicking the Roles of DNA Damage Protein Kinases in Trypanosomatids. Frontiers in Cell and Developmental Biology, 2021, 9, 636615.	3.7	2
6	Single-cell transcriptomic analysis of bloodstream Trypanosoma brucei reconstructs cell cycle progression and developmental quorum sensing. Nature Communications, 2021, 12, 5268.	12.8	42
7	Targeting the trypanosome kinetochore with CLK1 protein kinase inhibitors. Nature Microbiology, 2020, 5, 1207-1216.	13.3	45
8	Genome maintenance functions of a putative Trypanosoma brucei translesion DNA polymerase include telomere association and a role in antigenic variation. Nucleic Acids Research, 2020, 48, 9660-9680.	14.5	12
9	Trypanosoma brucei and Trypanosoma cruzi DNA Mismatch Repair Proteins Act Differently in the Response to DNA Damage Caused by Oxidative Stress. Frontiers in Cellular and Infection Microbiology, 2020, 10, 154.	3.9	2
10	Conditional knockout of RAD51-related genes in Leishmania major reveals a critical role for homologous recombination during genome replication. PLoS Genetics, 2020, 16, e1008828.	3.5	21
11	Replication origin location might contribute to genetic variability in Trypanosoma cruzi. BMC Genomics, 2020, 21, 414.	2.8	10
12	Trypanosoma brucei ATR Links DNA Damage Signaling during Antigenic Variation with Regulation of RNA Polymerase I-Transcribed Surface Antigens. Cell Reports, 2020, 30, 836-851.e5.	6.4	24
13	Genome duplication in Leishmania major relies on persistent subtelomeric DNA replication. ELife, 2020, 9, .	6.0	17
14	Next-Generation Analysis of Trypanosomatid Genome Stability and Instability. Methods in Molecular Biology, 2020, 2116, 225-262.	0.9	2
15	Title is missing!. , 2020, 16, e1008828.		0
16	Title is missing!. , 2020, 16, e1008828.		0
17	Title is missing!. , 2020, 16, e1008828.		0

RICHARD McCulloch

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19	Causes and Effects of Loss of Classical Nonhomologous End Joining Pathway in Parasitic Eukaryotes. MBio, 2019, 10, .	4.1	31
20	Trypanosoma brucei ribonuclease H2A is an essential R-loop processing enzyme whose loss causes DNA damage during transcription initiation and antigenic variation. Nucleic Acids Research, 2019, 47, 9180-9197.	14.5	32
21	Application of long read sequencing to determine expressed antigen diversity in Trypanosoma brucei infections. PLoS Neglected Tropical Diseases, 2019, 13, e0007262.	3.0	25
22	Transcription activity contributes to the firing of non-constitutive origins in African trypanosomes helping to maintain robustness in S-phase duration. Scientific Reports, 2019, 9, 18512.	3.3	17
23	The DNA damage response is developmentally regulated in the African trypanosome. DNA Repair, 2019, 73, 78-90.	2.8	8
24	The in vivo and in vitro roles of Trypanosoma cruzi Rad51 in the repair of DNA double strand breaks and oxidative lesions. PLoS Neglected Tropical Diseases, 2018, 12, e0006875.	3.0	14
25	Ribonuclease H1-targeted R-loops in surface antigen gene expression sites can direct trypanosome immune evasion. PLoS Genetics, 2018, 14, e1007729.	3.5	40
26	Evaluation of mechanisms that may generate DNA lesions triggering antigenic variation in African trypanosomes. PLoS Pathogens, 2018, 14, e1007321.	4.7	29
27	Conditional genome engineering reveals canonical and divergent roles for the Hus1 component of the 9–1–1 complex in the maintenance of the plastic genome of <i>Leishmania</i> . Nucleic Acids Research, 2018, 46, 11835-11846.	14.5	24
28	Genome-wide mapping reveals conserved and diverged R-loop activities in the unusual genetic landscape of the African trypanosome genome. Nucleic Acids Research, 2018, 46, 11789-11805.	14.5	27
29	Chromosomal copy number variation analysis by next generation sequencing confirms ploidy stability in Trypanosoma brucei subspecies. Microbial Genomics, 2018, 4, .	2.0	18
30	Conservation and Variation in Strategies for DNA Replication of Kinetoplastid Nuclear Genomes. Current Genomics, 2018, 19, 98-109.	1.6	19
31	Nuclear DNA Replication in Trypanosomatids: There Are No Easy Methods for Solving Difficult Problems. Trends in Parasitology, 2017, 33, 858-874.	3.3	35
32	RNAi screening identifies Trypanosoma brucei stress response protein kinases required for survival in the mouse. Scientific Reports, 2017, 7, 6156.	3.3	27
33	Does DNA replication direct locus-specific recombination during host immune evasion by antigenic variation in the African trypanosome?. Current Genetics, 2017, 63, 441-449.	1.7	23
34	Genome-wide and protein kinase-focused RNAi screens reveal conserved and novel damage response pathways in Trypanosoma brucei. PLoS Pathogens, 2017, 13, e1006477.	4.7	44
35	Emerging challenges in understanding trypanosome antigenic variation. Emerging Topics in Life Sciences, 2017, 1, 585-592.	2.6	29
36	Evaluation of Antigens for Development of a Serological Test for Human African Trypanosomiasis. PLoS ONE, 2016, 11, e0168074.	2.5	12

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37	Functional compartmentalization of Rad9 and Hus1 reveals diverse assembly of the 9â€1â€1 complex components during the DNA damage response in <i>Leishmania</i> . Molecular Microbiology, 2016, 101, 1054-1068.	2.5	26
38	The protozoan nucleus. Molecular and Biochemical Parasitology, 2016, 209, 76-87.	1.1	5
39	Diverged composition and regulation of theTrypanosoma bruceiorigin recognition complex that mediates DNA replication initiation. Nucleic Acids Research, 2016, 44, 4763-4784.	14.5	31
40	Mapping replication dynamics in Trypanosoma brucei reveals a link with telomere transcription and antigenic variation. ELife, 2016, 5, .	6.0	51
41	The within-host dynamics of African trypanosome infections. Philosophical Transactions of the Royal Society B: Biological Sciences, 2015, 370, 20140288.	4.0	61
42	DNA Recombination Strategies During Antigenic Variation in the African Trypanosome. Microbiology Spectrum, 2015, 3, MDNA3-0016-2014.	3.0	65
43	Genome-wide mapping reveals single-origin chromosome replication in Leishmania, a eukaryotic microbe. Genome Biology, 2015, 16, 230.	8.8	46
44	Quantitative sequencing confirms VSG diversity as central to immune evasion by Trypanosoma brucei. Trends in Parasitology, 2015, 31, 346-349.	3.3	19
45	Single molecule analysis of Trypanosoma brucei DNA replication dynamics. Nucleic Acids Research, 2015, 43, 2655-2665.	14.5	26
46	Targeting the Parasite's DNA with Methyltriazenyl Purine Analogs Is a Safe, Selective, and Efficacious Antitrypanosomal Strategy. Antimicrobial Agents and Chemotherapy, 2015, 59, 6708-6716.	3.2	18
47	Distinct Phenotypes Caused by Mutation of MSH2 in Trypanosome Insect and Mammalian Life Cycle Forms Are Associated with Parasite Adaptation to Oxidative Stress. PLoS Neglected Tropical Diseases, 2015, 9, e0003870.	3.0	20
48	Nucleotide excision repair in <scp><i>T</i></scp> <i>rypanosoma brucei</i> : specialization of transcriptionâ€coupled repair due to multigenic transcription. Molecular Microbiology, 2014, 92, 756-776.	2.5	25
49	Nuclear DNA replication initiation in kinetoplastid parasites: new insights into an ancient process. Trends in Parasitology, 2014, 30, 27-36.	3.3	32
50	Antigenic variation in A frican trypanosomes: the importance of chromosomal and nuclear context in VSG expression control. Cellular Microbiology, 2013, 15, 1984-1993.	2.1	55
51	Trypanosoma brucei BRCA2 acts in a life cycle-specific genome stability process and dictates BRC repeat number-dependent RAD51 subnuclear dynamics. Nucleic Acids Research, 2013, 41, 943-960.	14.5	26
52	Genome-wide Analysis Reveals Extensive Functional Interaction between DNA Replication Initiation and Transcription in the Genome of Trypanosoma brucei. Cell Reports, 2012, 2, 185-197.	6.4	93
53	Identification of ORC1/CDC6-Interacting Factors in Trypanosoma brucei Reveals Critical Features of Origin Recognition Complex Architecture. PLoS ONE, 2012, 7, e32674.	2.5	47
54	Interactions among <i>Trypanosoma brucei</i> RAD51 paralogues in DNA repair and antigenic variation. Molecular Microbiology, 2011, 81, 434-456.	2.5	29

RICHARD McCulloch

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55	Molecular mechanisms underlying the control of antigenic variation in African trypanosomes. Current Opinion in Microbiology, 2010, 13, 700-705.	5.1	130
56	Hydroxyurea-induced synchronisation of bloodstream stage Trypanosoma brucei. Molecular and Biochemical Parasitology, 2009, 164, 131-136.	1.1	20
57	A key event in survival. Nature, 2009, 459, 172-173.	27.8	11
58	Antigenic variation in the African trypanosome: molecular mechanisms and phenotypic complexity. Cellular Microbiology, 2009, 11, 1724-1734.	2.1	104
59	<i>Trypanosoma brucei</i> BRCA2 acts in antigenic variation and has undergone a recent expansion in BRC repeat number that is important during homologous recombination. Molecular Microbiology, 2008, 68, 1237-1251.	2.5	78
60	Sequence homology and microhomology dominate chromosomal double-strand break repair in African trypanosomes. Nucleic Acids Research, 2008, 36, 2608-2618.	14.5	103
61	Antigenic Variation in Trypanosoma brucei: Joining the DOTs. PLoS Biology, 2008, 6, e185.	5.6	54
62	Ku Heterodimer-Independent End Joining in <i>Trypanosoma brucei</i> Cell Extracts Relies upon Sequence Microhomology. Eukaryotic Cell, 2007, 6, 1773-1781.	3.4	63
63	Trypanosoma brucei homologous recombination is dependent on substrate length and homology, though displays a differential dependence on mismatch repair as substrate length decreases. Nucleic Acids Research, 2007, 35, 3478-3493.	14.5	50
64	Trypanosoma brucei DMC1 does not act in DNA recombination, repair or antigenic variation in bloodstream stage cells. Molecular and Biochemical Parasitology, 2006, 145, 245-253.	1.1	17
65	Distinct roles for two RAD51-related genes in Trypanosoma brucei antigenic variation. Nucleic Acids Research, 2005, 33, 6906-6919.	14.5	75
66	The Genome Sequence of <i>Trypanosoma cruzi</i> , Etiologic Agent of Chagas Disease. Science, 2005, 309, 409-415.	12.6	1,273
67	Antigenic variation in African trypanosomes: monitoring progress. Trends in Parasitology, 2004, 20, 117-121.	3.3	56
68	Transformation of Monomorphic and Pleomorphic <1>Trypanosoma brucei 1 . , 2004, 262, 053-086.		75
69	Characterization of components of the mismatch repair machinery in Trypanosoma brucei. Molecular Microbiology, 2003, 51, 159-173.	2.5	24
70	Mismatch Repair Regulates Homologous Recombination, but Has Little Influence on Antigenic Variation, in Trypanosoma brucei. Journal of Biological Chemistry, 2003, 278, 45182-45188.	3.4	38
71	Inactivation of Mre11 Does Not Affect VSG Gene Duplication Mediated by Homologous Recombination in Trypanosoma brucei. Journal of Biological Chemistry, 2002, 277, 26185-26193.	3.4	60
72	Ku ls Important for Telomere Maintenance, but Not for Differential Expression of Telomeric VSG Genes, in African Trypanosomes. Journal of Biological Chemistry, 2002, 277, 21269-21277.	3.4	71

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73	Two pathways of homologous recombination in Trypanosoma brucei. Molecular Microbiology, 2002, 45, 1687-1700.	2.5	73
74	An update on antigenic variation in African trypanosomes. Trends in Parasitology, 2001, 17, 338-343.	3.3	97
75	Antigenic variation in trypanosomes: Enhanced phenotypic variation in a eukaryotic parasite. Advances in Parasitology, 2001, 49, 1-70.	3.2	260
76	Telomere exchange can be an important mechanism of Variant Surface Glycoprotein gene switching in Trypanosoma brucei. Molecular and Biochemical Parasitology, 1996, 80, 65-75.	1.1	66
77	DNA Recombination Strategies During Antigenic Variation in the African Trypanosome. , 0, , 409-435.		2