

Carlos Renato R Machado

List of Publications by Year in descending order

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79
papers

5,211
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172457

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88630

70
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80
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80
docs citations

80
times ranked

4588
citing authors

#	ARTICLE	IF	CITATIONS
1	Importance of <i>Angomonas deanei</i> KAP4 for kDNA arrangement, cell division and maintenance of the host-bacterium relationship. <i>Scientific Reports</i> , 2021, 11, 9210.	3.3	1
2	Bioinformatics and expression analysis of the <i>Xeroderma Pigmentosum</i> complementation group C (XPC) of <i>Trypanosoma evansi</i> in <i>Trypanosoma cruzi</i> cells. <i>Brazilian Journal of Biology</i> , 2021, 83, e243910.	0.9	0
3	Mitochondrial behavior during nuclear and mitochondrial DNA repair in <i>Trypanosoma cruzi</i> epimastigotes. <i>Experimental Parasitology</i> , 2020, 219, 108016.	1.2	2
4	Differential Modulation of Mouse Heart Gene Expression by Infection With Two <i>Trypanosoma cruzi</i> Strains: A Transcriptome Analysis. <i>Frontiers in Genetics</i> , 2020, 11, 1031.	2.3	7
5	ATR Kinase Is a Crucial Player Mediating the DNA Damage Response in <i>Trypanosoma brucei</i> . <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 602956.	3.7	7
6	<i>Trypanosoma brucei</i> and <i>Trypanosoma cruzi</i> DNA Mismatch Repair Proteins Act Differently in the Response to DNA Damage Caused by Oxidative Stress. <i>Frontiers in Cellular and Infection Microbiology</i> , 2020, 10, 154.	3.9	2
7	The Influence of Recombinational Processes to Induce Dormancy in <i>Trypanosoma cruzi</i> . <i>Frontiers in Cellular and Infection Microbiology</i> , 2020, 10, 5.	3.9	23
8	DNA lesions and repair in trypanosomatids infection. <i>Genetics and Molecular Biology</i> , 2020, 43, e20190163.	1.3	8
9	The heterologous expression of <i>Escherichia coli</i> MutT enzyme is involved in the protection against oxidative stress in <i>Leishmania braziliensis</i> . <i>Memorias Do Instituto Oswaldo Cruz</i> , 2020, 115, e190469.	1.6	0
10	Landscape of the spliced leader trans-splicing mechanism in <i>Schistosoma mansoni</i> . <i>Scientific Reports</i> , 2018, 8, 3877.	3.3	20
11	Recruitment kinetics of the homologous recombination pathway in procyclic forms of <i>Trypanosoma brucei</i> after ionizing radiation treatment. <i>Scientific Reports</i> , 2018, 8, 5405.	3.3	22
12	UvrB protein of <i>Corynebacterium pseudotuberculosis</i> complements the phenotype of knockout <i>Escherichia coli</i> and recognizes DNA damage caused by UV radiation but not 8-oxoguanine in vitro. <i>Gene</i> , 2018, 639, 34-43.	2.2	1
13	The in vivo and in vitro roles of <i>Trypanosoma cruzi</i> Rad51 in the repair of DNA double strand breaks and oxidative lesions. <i>PLoS Neglected Tropical Diseases</i> , 2018, 12, e0006875.	3.0	14
14	The recombinase Rad51 plays a key role in events of genetic exchange in <i>Trypanosoma cruzi</i> . <i>Scientific Reports</i> , 2018, 8, 13335.	3.3	23
15	Assessment of genetic mutation frequency induced by oxidative stress in <i>Trypanosoma cruzi</i> . <i>Genetics and Molecular Biology</i> , 2018, 41, 466-474.	1.3	18
16	Chitosan grafted into mesoporous silica nanoparticles as benznidazol carrier for Chagas diseases treatment. <i>Microporous and Mesoporous Materials</i> , 2018, 272, 265-275.	4.4	40
17	Chaetocin "A histone methyltransferase inhibitor" Impairs proliferation, arrests cell cycle and induces nucleolar disassembly in <i>Trypanosoma cruzi</i> . <i>Acta Tropica</i> , 2017, 170, 149-160.	2.0	12
18	Prostaglandin F2 synthase in <i>Trypanosoma cruzi</i> plays critical roles in oxidative stress and susceptibility to benznidazole. <i>Royal Society Open Science</i> , 2017, 4, 170773.	2.4	21

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19	Characterization of <i>Trypanosoma cruzi</i> MutY DNA glycosylase ortholog and its role in oxidative stress response. <i>Infection, Genetics and Evolution</i> , 2017, 55, 332-342.	2.3	6
20	Catalase expression impairs oxidative stress-mediated signalling in <i>Trypanosoma cruzi</i> . <i>Parasitology</i> , 2017, 144, 1498-1510.	1.5	18
21	Adenine Glycosylase MutY of <i>Corynebacterium pseudotuberculosis</i> presents the antimutator phenotype and evidences of glycosylase/AP lyase activity in vitro. <i>Infection, Genetics and Evolution</i> , 2016, 44, 318-329.	2.3	6
22	Cytotoxic, mutagenicity, and genotoxicity effects of guanylhydrazone derivatives. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2016, 806, 1-10.	1.7	4
23	How <i>Trypanosoma cruzi</i> deals with oxidative stress: Antioxidant defence and DNA repair pathways. <i>Mutation Research - Reviews in Mutation Research</i> , 2016, 767, 8-22.	5.5	66
24	The <i>Corynebacterium pseudotuberculosis</i> genome contains two formamidopyrimidine-DNA glycosylase enzymes, only one of which recognizes and excises 8-oxoguanine lesion. <i>Gene</i> , 2016, 575, 233-243.	2.2	7
25	Replication Protein A Presents Canonical Functions and Is Also Involved in the Differentiation Capacity of <i>Trypanosoma cruzi</i> . <i>PLoS Neglected Tropical Diseases</i> , 2016, 10, e0005181.	3.0	29
26	Expression and the Peculiar Enzymatic Behavior of the <i>Trypanosoma cruzi</i> NTH1 DNA Glycosylase. <i>PLoS ONE</i> , 2016, 11, e0157270.	2.5	6
27	A novel ABCG-like transporter of <i>Trypanosoma cruzi</i> is involved in natural resistance to benznidazole. <i>Memorias Do Instituto Oswaldo Cruz</i> , 2015, 110, 433-444.	1.6	50
28	Unveiling the effects of berenil, a DNA-binding drug, on <i>Trypanosoma cruzi</i> : implications for kDNA ultrastructure and replication. <i>Parasitology Research</i> , 2015, 114, 419-430.	1.6	18
29	Proteomic Analysis of <i>Trypanosoma cruzi</i> Response to Ionizing Radiation Stress. <i>PLoS ONE</i> , 2014, 9, e97526.	2.5	13
30	Unveiling Benznidazole's mechanism of action through overexpression of DNA repair proteins in <i>Trypanosoma cruzi</i> . <i>Environmental and Molecular Mutagenesis</i> , 2014, 55, 309-321.	2.2	70
31	Nucleotide excision repair in <i>Trypanosoma brucei</i> : specialization of transcription-coupled repair due to multigenic transcription. <i>Molecular Microbiology</i> , 2014, 92, 756-776.	2.5	25
32	Characterization of two different Asf1 histone chaperones with distinct cellular localizations and functions in <i>Trypanosoma brucei</i> . <i>Nucleic Acids Research</i> , 2014, 42, 2906-2918.	14.5	14
33	How <i>Trypanosoma cruzi</i> handles cell cycle arrest promoted by camptothecin, a topoisomerase I inhibitor. <i>Molecular and Biochemical Parasitology</i> , 2014, 193, 93-100.	1.1	29
34	Evidence of substantial recombination among <i>Trypanosoma cruzi</i> II strains from Minas Gerais. <i>Infection, Genetics and Evolution</i> , 2014, 22, 183-191.	2.3	30
35	LSSP-PCR of <i>Trypanosoma cruzi</i> : how the single primer sequence affects the kDNA signature. <i>BMC Research Notes</i> , 2013, 6, 174.	1.4	2
36	Modeling the zing finger protein SmZF1 from <i>Schistosoma mansoni</i> : Insights into DNA binding and gene regulation. <i>Journal of Molecular Graphics and Modelling</i> , 2013, 39, 29-38.	2.4	4

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37	Oxidative Stress and DNA Lesions: The Role of 8-Oxoguanine Lesions in <i>Trypanosoma cruzi</i> Cell Viability. <i>PLoS Neglected Tropical Diseases</i> , 2013, 7, e2279.	3.0	71
38	<i>Trypanosoma brucei</i> BRCA2 acts in a life cycle-specific genome stability process and dictates BRC repeat number-dependent RAD51 subnuclear dynamics. <i>Nucleic Acids Research</i> , 2013, 41, 943-960.	14.5	26
39	Is Pregnancy Associated with Severe Dengue? A Review of Data from the Rio de Janeiro Surveillance Information System. <i>PLoS Neglected Tropical Diseases</i> , 2013, 7, e2217.	3.0	88
40	Identification of a new <i>Schistosoma mansoni</i> SMYB1 partner: putative roles in RNA metabolism. <i>Parasitology</i> , 2013, 140, 1085-1095.	1.5	2
41	A directed approach for the identification of transcripts harbouring the spliced leader sequence and the effect of trans-splicing knockdown in <i>Schistosoma mansoni</i> . <i>Memorias Do Instituto Oswaldo Cruz</i> , 2013, 108, 707-717.	1.6	10
42	Predicting the Proteins of <i>Angomonas deanei</i> , <i>Strigomonas culicis</i> and Their Respective Endosymbionts Reveals New Aspects of the Trypanosomatidae Family. <i>PLoS ONE</i> , 2013, 8, e60209.	2.5	55
43	Unequivocal Identification of Subpopulations in Putative Multiclonal <i>Trypanosoma cruzi</i> Strains by FACs Single Cell Sorting and Genotyping. <i>PLoS Neglected Tropical Diseases</i> , 2012, 6, e1722.	3.0	18
44	The revised <i>Trypanosoma cruzi</i> subspecific nomenclature: Rationale, epidemiological relevance and research applications. <i>Infection, Genetics and Evolution</i> , 2012, 12, 240-253.	2.3	728
45	DNA polymerase beta from <i>Trypanosoma cruzi</i> is involved in kinetoplast DNA replication and repair of oxidative lesions. <i>Molecular and Biochemical Parasitology</i> , 2012, 183, 122-131.	1.1	29
46	<i>Trypanosoma cruzi</i> Gene Expression in Response to Gamma Radiation. <i>PLoS ONE</i> , 2012, 7, e29596.	2.5	13
47	Functional Characterization of 8-Oxoguanine DNA Glycosylase of <i>Trypanosoma cruzi</i> . <i>PLoS ONE</i> , 2012, 7, e42484.	2.5	34
48	<i>Trypanosoma cruzi</i> MSH2: Functional analyses on different parasite strains provide evidences for a role on the oxidative stress response. <i>Molecular and Biochemical Parasitology</i> , 2011, 176, 8-16.	1.1	31
49	Overview of DNA Repair in <i>Trypanosoma cruzi</i> , <i>Trypanosoma brucei</i> , and <i>Leishmania major</i> . <i>Journal of Nucleic Acids</i> , 2010, 2010, 1-14.	1.2	75
50	Coinfection with Different <i>Trypanosoma cruzi</i> Strains Interferes with the Host Immune Response to Infection. <i>PLoS Neglected Tropical Diseases</i> , 2010, 4, e846.	3.0	50
51	Genetic analyses of <i>Trypanosoma cruzi</i> isolates from naturally infected triatomines and humans in northeastern Brazil. <i>Acta Tropica</i> , 2010, 115, 205-211.	2.0	37
52	A new consensus for <i>Trypanosoma cruzi</i> intraspecific nomenclature: second revision meeting recommends TcI to TcVI. <i>Memorias Do Instituto Oswaldo Cruz</i> , 2009, 104, 1051-1054.	1.6	846
53	Molecular Characterization of the <i>Schistosoma mansoni</i> Zinc Finger Protein SmZF1 as a Transcription Factor. <i>PLoS Neglected Tropical Diseases</i> , 2009, 3, e547.	3.0	10
54	Probing Population Dynamics of <i>Trypanosoma cruzi</i> during Progression of the Chronic Phase in Chagasic Patients. <i>Journal of Clinical Microbiology</i> , 2009, 47, 1718-1725.	3.9	62

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55	Cloning and characterization of γ -DNA polymerase from <i>Trypanosoma cruzi</i> : Roles for translesion bypass of oxidative damage. <i>Environmental and Molecular Mutagenesis</i> , 2009, 50, 375-386.	2.2	23
56	DNA polymerase kappa from <i>Trypanosoma cruzi</i> localizes to the mitochondria, bypasses 8-oxoguanine lesions and performs DNA synthesis in a recombination intermediate. <i>Molecular Microbiology</i> , 2009, 71, 185-197.	2.5	38
57	The MHC Gene Region of Murine Hosts Influences the Differential Tissue Tropism of Infecting <i>Trypanosoma cruzi</i> Strains. <i>PLoS ONE</i> , 2009, 4, e5113.	2.5	28
58	Virus-Host Coevolution: Common Patterns of Nucleotide Motif Usage in Flaviviridae and Their Hosts. <i>PLoS ONE</i> , 2009, 4, e6282.	2.5	156
59	<i>Trypanosoma cruzi</i> : ancestral genomes and population structure. <i>Memorias Do Instituto Oswaldo Cruz</i> , 2009, 104, 108-114.	1.6	23
60	Isolation and characterization of HC1: a novel human DNA repair gene. <i>Genetics and Molecular Research</i> , 2009, 8, 247-260.	0.2	1
61	Cell culture and animal infection with distinct <i>Trypanosoma cruzi</i> strains expressing red and green fluorescent proteins. <i>International Journal for Parasitology</i> , 2008, 38, 289-297.	3.1	29
62	Genetic profiling of <i>Trypanosoma cruzi</i> directly in infected tissues using nested PCR of polymorphic microsatellites. <i>International Journal for Parasitology</i> , 2008, 38, 839-850.	3.1	51
63	Biochemical studies with DNA polymerase β and DNA polymerase β -PAK of <i>Trypanosoma cruzi</i> suggest the involvement of these proteins in mitochondrial DNA maintenance. <i>DNA Repair</i> , 2008, 7, 1882-1892.	2.8	28
64	Sequence diversity and evolution of multigene families in <i>Trypanosoma cruzi</i> . <i>Molecular and Biochemical Parasitology</i> , 2008, 157, 65-72.	1.1	47
65	Mismatch repair in <i>Trypanosoma brucei</i> : Heterologous expression of MSH2 from <i>Trypanosoma cruzi</i> provides new insights into the response to oxidative damage. <i>Gene</i> , 2008, 411, 19-26.	2.2	16
66	Characterization of promoter regulatory elements involved in downexpression of the DNA polymerase β in colorectal cancer. <i>Oncogene</i> , 2007, 26, 3387-3394.	5.9	38
67	<i>Schistosoma mansoni</i> : The IMP4 gene is involved in DNA repair/tolerance after treatment with alkylating agent methyl methane sulfonate. <i>Experimental Parasitology</i> , 2007, 116, 25-34.	1.2	5
68	DNA metabolism and genetic diversity in Trypanosomes. <i>Mutation Research - Reviews in Mutation Research</i> , 2006, 612, 40-57.	5.5	37
69	Characterization of the <i>Trypanosoma cruzi</i> Rad51 gene and its role in recombination events associated with the parasite resistance to ionizing radiation. <i>Molecular and Biochemical Parasitology</i> , 2006, 149, 191-200.	1.1	42
70	Ancestral Genomes, Sex, and the Population Structure of <i>Trypanosoma cruzi</i> . <i>PLoS Pathogens</i> , 2006, 2, e24.	4.7	225
71	Functional complementation of a yeast knockout strain by <i>Schistosoma mansoni</i> Rho1 GTPase in the presence of caffeine, an agent that affects mutants defective in the protein kinase C signal transduction pathway. <i>Memorias Do Instituto Oswaldo Cruz</i> , 2006, 101, 323-326.	1.6	4
72	The Genome Sequence of <i>Trypanosoma cruzi</i> , Etiologic Agent of Chagas Disease. <i>Science</i> , 2005, 309, 409-415.	12.6	1,273

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73	Single-Nucleotide Polymorphisms of the <i>Trypanosoma cruzi</i> MSH2 Gene Support the Existence of Three Phylogenetic Lineages Presenting Differences in Mismatch-Repair Efficiency. <i>Genetics</i> , 2003, 164, 117-126.	2.9	40
74	<i>Escherichia coli</i> as a model system to study DNA repair genes of eukaryotic organisms. <i>Genetics and Molecular Research</i> , 2003, 2, 77-91.	0.2	12
75	Characterization and comparative functional analysis in yeast of a <i>Schistosoma mansoni</i> Rho1 GTPase gene. <i>Molecular and Biochemical Parasitology</i> , 2002, 125, 103-112.	1.1	14
76	Molecular cloning and characterization of the DNA mismatch repair gene class 2 from the <i>Trypanosoma cruzi</i> . <i>Gene</i> , 2001, 272, 323-333.	2.2	30
77	Cloning of a cDNA from <i>Arabidopsis thaliana</i> homologous to the human XPB gene. <i>Gene</i> , 1998, 208, 207-213.	2.2	37
78	Dual role for the yeast THI4 gene in thiamine biosynthesis and DNA damage tolerance. <i>Journal of Molecular Biology</i> , 1997, 273, 114-121.	4.2	111
79	Thi1, a thiamine biosynthetic gene in <i>Arabidopsis thaliana</i> , complements bacterial defects in DNA repair. <i>Plant Molecular Biology</i> , 1996, 31, 585-593.	3.9	100