

Rita Tewari

List of Publications by Year in descending order

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papers

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101543

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docs citations

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times ranked

4653
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#	ARTICLE	IF	CITATIONS
1	Calcium and a Calcium-Dependent Protein Kinase Regulate Gamete Formation and Mosquito Transmission in a Malaria Parasite. <i>Cell</i> , 2004, 117, 503-514.	28.9	415
2	The conserved plant sterility gene <i>HAP2</i> functions after attachment of fusogenic membranes in <i>Chlamydomonas</i> and <i>Plasmodium</i> gametes. <i>Genes and Development</i> , 2008, 22, 1051-1068.	5.9	286
3	The Systematic Functional Analysis of Plasmodium Protein Kinases Identifies Essential Regulators of Mosquito Transmission. <i>Cell Host and Microbe</i> , 2010, 8, 377-387.	11.0	267
4	The malaria circumsporozoite protein has two functional domains, each with distinct roles as sporozoites journey from mosquito to mammalian host. <i>Journal of Experimental Medicine</i> , 2011, 208, 341-356.	8.5	266
5	Armado-repeat protein functions: questions for little creatures. <i>Trends in Cell Biology</i> , 2010, 20, 470-481.	7.9	222
6	Heparan Sulfate Proteoglycans Provide a Signal to Plasmodium Sporozoites to Stop Migrating and Productively Invade Host Cells. <i>Cell Host and Microbe</i> , 2007, 2, 316-327.	11.0	221
7	Validation of N-myristoyltransferase as an antimalarial drug target using an integrated chemical biology approach. <i>Nature Chemistry</i> , 2014, 6, 112-121.	13.6	196
8	Nutrient sensing modulates malaria parasite virulence. <i>Nature</i> , 2017, 547, 213-216.	27.8	146
9	A NIMA-related Protein Kinase Is Essential for Completion of the Sexual Cycle of Malaria Parasites. <i>Journal of Biological Chemistry</i> , 2005, 280, 31957-31964.	3.4	138
10	An atypical mitogen-activated protein kinase controls cytokinesis and flagellar motility during male gamete formation in a malaria parasite. <i>Molecular Microbiology</i> , 2005, 58, 1253-1263.	2.5	127
11	Genome-wide Functional Analysis of Plasmodium Protein Phosphatases Reveals Key Regulators of Parasite Development and Differentiation. <i>Cell Host and Microbe</i> , 2014, 16, 128-140.	11.0	122
12	Reverse genetics screen identifies six proteins important for malaria development in the mosquito. <i>Molecular Microbiology</i> , 2008, 70, 209-220.	2.5	119
13	An Apicomplexan Actin-Binding Protein Serves as a Connector and Lipid Sensor to Coordinate Motility and Invasion. <i>Cell Host and Microbe</i> , 2016, 20, 731-743.	11.0	107
14	Function of Region I and II Adhesive Motifs of Plasmodium falciparum Circumsporozoite Protein in Sporozoite Motility and Infectivity. <i>Journal of Biological Chemistry</i> , 2002, 277, 47613-47618.	3.4	98
15	An Essential Role for the Plasmodium Nek-2 Nima-related Protein Kinase in the Sexual Development of Malaria Parasites. <i>Journal of Biological Chemistry</i> , 2009, 284, 20858-20868.	3.4	94
16	A Unique Protein Phosphatase with Kelch-Like Domains (PPKL) in Plasmodium Modulates Ookinete Differentiation, Motility and Invasion. <i>PLoS Pathogens</i> , 2012, 8, e1002948.	4.7	90
17	Changes in genome organization of parasite-specific gene families during the Plasmodium transmission stages. <i>Nature Communications</i> , 2018, 9, 1910.	12.8	82
18	Sterile Protection against Malaria Is Independent of Immune Responses to the Circumsporozoite Protein. <i>PLoS ONE</i> , 2007, 2, e1371.	2.5	81

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19	Life cycle studies of the hexose transporter of <i>Plasmodium</i> species and genetic validation of their essentiality. <i>Molecular Microbiology</i> , 2010, 75, 1402-1413.	2.5	71
20	Erythroid Kruppel-like factor (EKLF) is active in primitive and definitive erythroid cells and is required for the function of 5'HS3 of the beta -globin locus control region. <i>EMBO Journal</i> , 1998, 17, 2334-2341.	7.8	70
21	Plasmodium P-Type Cyclin CYC3 Modulates Endomitotic Growth during Oocyst Development in Mosquitoes. <i>PLoS Pathogens</i> , 2015, 11, e1005273.	4.7	70
22	Sex chromosome polymorphism and heterogametic males revealed by two cloned DNA probes in the ZW/ZZ fish <i>Leporinus elongatus</i> . <i>Chromosoma</i> , 1994, 103, 31-39.	2.2	67
23	Female Inheritance of Malarial <i>lap</i> Genes Is Essential for Mosquito Transmission. <i>PLoS Pathogens</i> , 2007, 3, e30.	4.7	65
24	Comparative 3D genome organization in apicomplexan parasites. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 3183-3192.	7.1	65
25	Altered DNA-binding specificity mutants of EKLF and Sp1 show that EKLF is an activator of the beta -globin locus control region in vivo. <i>Genes and Development</i> , 1998, 12, 2863-2873.	5.9	60
26	The Armadillo Repeat Protein PF16 Is Essential for Flagellar Structure and Function in Plasmodium Male Gametes. <i>PLoS ONE</i> , 2010, 5, e12901.	2.5	57
27	Molecular characterization of the conoid complex in <i>Toxoplasma</i> reveals its conservation in all apicomplexans, including <i>Plasmodium</i> species. <i>PLoS Biology</i> , 2021, 19, e3001081.	5.6	56
28	Functional and comparative analysis of globin loci in pufferfish and humans. <i>Blood</i> , 2003, 101, 2842-2849.	1.4	53
29	A Putative Homologue of CDC20/CDH1 in the Malaria Parasite Is Essential for Male Gamete Development. <i>PLoS Pathogens</i> , 2012, 8, e1002554.	4.7	52
30	Unique apicomplexan IMC sub-compartment proteins are early markers for apical polarity in the malaria parasite. <i>Biology Open</i> , 2013, 2, 1160-1170.	1.2	51
31	The Repeat Region of the Circumsporozoite Protein is Critical for Sporozoite Formation and Maturation in <i>Plasmodium</i> . <i>PLoS ONE</i> , 2014, 9, e113923.	2.5	51
32	Commit and Transmit: Molecular Players in <i>Plasmodium</i> Sexual Development and Zygote Differentiation. <i>Trends in Parasitology</i> , 2015, 31, 676-685.	3.3	51
33	Real-time dynamics of <i>Plasmodium</i> NDC80 reveals unusual modes of chromosome segregation during parasite proliferation. <i>Journal of Cell Science</i> , 2020, 134, .	2.0	51
34	Malaria Induces Anemia through CD8 ⁺ T Cell-Dependent Parasite Clearance and Erythrocyte Removal in the Spleen. <i>MBio</i> , 2015, 6, .	4.1	46
35	Hypervariable and Highly Divergent Intron?Exon Organizations in the Chordate <i>Oikopleura dioica</i> . <i>Journal of Molecular Evolution</i> , 2004, 59, 448-457.	1.8	44
36	An Ancient Protein Phosphatase, SHLP1, Is Critical to Microneme Development in <i>Plasmodium</i> Ookinetes and Parasite Transmission. <i>Cell Reports</i> , 2013, 3, 622-629.	6.4	44

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37	Plasmodium APC3 mediates chromosome condensation and cytokinesis during atypical mitosis in male gametogenesis. <i>Scientific Reports</i> , 2018, 8, 5610.	3.3	43
38	Plasmodium kinesin-8X associates with mitotic spindles and is essential for oocyst development during parasite proliferation and transmission. <i>PLoS Pathogens</i> , 2019, 15, e1008048.	4.7	43
39	SAS6-like protein in Plasmodium indicates that conoid-associated apical complex proteins persist in invasive stages within the mosquito vector. <i>Scientific Reports</i> , 2016, 6, 28604.	3.3	41
40	Compositional and expression analyses of the glideosome during the Plasmodium life cycle reveal an additional myosin light chain required for maximum motility. <i>Journal of Biological Chemistry</i> , 2017, 292, 17857-17875.	3.4	41
41	A divergent cyclin/cyclin-dependent kinase complex controls the atypical replication of a malaria parasite during gametogony and transmission. <i>ELife</i> , 2020, 9, .	6.0	41
42	Minimal Role for the Circumsporozoite Protein in the Induction of Sterile Immunity by Vaccination with Live Rodent Malaria Sporozoites. <i>Infection and Immunity</i> , 2010, 78, 2182-2188.	2.2	40
43	Use of a Selective Inhibitor To Define the Chemotherapeutic Potential of the Plasmodial Hexose Transporter in Different Stages of the Parasite's Life Cycle. <i>Antimicrobial Agents and Chemotherapy</i> , 2011, 55, 2824-2830.	3.2	39
44	Photosensitized INA-Labelled protein 1 (PhIL1) is novel component of the inner membrane complex and is required for Plasmodium parasite development. <i>Scientific Reports</i> , 2017, 7, 15577.	3.3	39
45	Systematic analysis of <i>Plasmodium</i> myosins reveals differential expression, localisation, and function in invasive and proliferative parasite stages. <i>Cellular Microbiology</i> , 2019, 21, e13082.	2.1	37
46	A Role for Immune Responses against Non-CS Components in the Cross-Species Protection Induced by Immunization with Irradiated Malaria Sporozoites. <i>PLoS ONE</i> , 2009, 4, e7717.	2.5	36
47	<i>Plasmodium</i> centrin <i>Pb</i> CEN-4 localizes to the putative MTOC and is dispensable for malaria parasite proliferation. <i>Biology Open</i> , 2019, 8, .	1.2	36
48	The Plasmodium berghei Ca ²⁺ /H ⁺ Exchanger, PbCAX, Is Essential for Tolerance to Environmental Ca ²⁺ during Sexual Development. <i>PLoS Pathogens</i> , 2013, 9, e1003191.	4.7	35
49	Disruption of Plasmodium berghei merozoite surface protein 7 gene modulates parasite growth in vivo. <i>Blood</i> , 2005, 105, 394-396.	1.4	34
50	Kinesin-8B controls basal body function and flagellum formation and is key to malaria transmission. <i>Life Science Alliance</i> , 2019, 2, e201900488.	2.8	33
51	Mendelian transmission, structure and expression of transgenes following their injection into the cytoplasm of trout eggs. <i>Transgenic Research</i> , 1992, 1, 250-260.	2.4	32
52	The Plasmodium Class XIV Myosin, MyoB, Has a Distinct Subcellular Location in Invasive and Motile Stages of the Malaria Parasite and an Unusual Light Chain. <i>Journal of Biological Chemistry</i> , 2015, 290, 12147-12164.	3.4	31
53	Sexual Development in Plasmodium: Lessons from Functional Analyses. <i>PLoS Pathogens</i> , 2012, 8, e1002404.	4.7	29
54	Motility and infectivity of Plasmodium berghei sporozoites expressing avian Plasmodium gallinaceum circumsporozoite protein. <i>Cellular Microbiology</i> , 2005, 7, 699-707.	2.1	26

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55	Arrest of Nuclear Division in Plasmodium through Blockage of Erythrocyte Surface Exposed Ribosomal Protein P2. PLoS Pathogens, 2012, 8, e1002858.	4.7	25
56	Expression in Yeast Links Field Polymorphisms in PfATP6 to in Vitro Artemisinin Resistance and Identifies New Inhibitor Classes. Journal of Infectious Diseases, 2013, 208, 468-478.	4.0	25
57	Plasmodium Condensin Core Subunits SMC2/SMC4 Mediate Atypical Mitosis and Are Essential for Parasite Proliferation and Transmission. Cell Reports, 2020, 30, 1883-1897.e6.	6.4	22
58	<sc>RON</sc> 12, a novel <i><sc>P</sc> lasmodium </i> â€specific rhopty neck protein important for parasite proliferation. Cellular Microbiology, 2014, 16, 657-672.	2.1	21
59	Division and Transmission: Malaria Parasite Development in the Mosquito. Annual Review of Microbiology, 2022, 76, 113-134.	7.3	21
60	Targeted Disruption of py235ebp-1: Invasion of Erythrocytes by Plasmodium yoelii Using an Alternative Py235 Erythrocyte Binding Protein. PLoS Pathogens, 2011, 7, e1001288.	4.7	18
61	Plasmodium berghei Kinesin-5 Associates With the Spindle Apparatus During Cell Division and Is Important for Efficient Production of Infectious Sporozoites. Frontiers in Cellular and Infection Microbiology, 2020, 10, 583812.	3.9	18
62	Deletion of a Malaria Invasion Gene Reduces Death and Anemia, in Model Hosts. PLoS ONE, 2011, 6, e25477.	2.5	17
63	Protein phosphatase 1 regulates atypical mitotic and meiotic division in Plasmodium sexual stages. Communications Biology, 2021, 4, 760.	4.4	17
64	Identification of Two Distinct Subpopulations of Leishmania major -Specific T Helper 2 Cells. Infection and Immunity, 2002, 70, 5512-5520.	2.2	14
65	Cryo-EM structure of a microtubule-bound parasite kinesin motor and implications for its mechanism and inhibition. Journal of Biological Chemistry, 2021, 297, 101063.	3.4	13
66	Biliverdin targets enolase and eukaryotic initiation factor 2 (eIF2 \pm) to reduce the growth of intraerythrocytic development of the malaria parasite Plasmodium falciparum. Scientific Reports, 2016, 6, 22093.	3.3	12
67	<i>Plasmodium</i> SAS4: basal body component of male cell which is dispensable for parasite transmission. Life Science Alliance, 2022, 5, e202101329.	2.8	11
68	High throughput <i>in silico</i> identification and characterization of <i>Plasmodium falciparum</i> PRL phosphatase inhibitors. Journal of Biomolecular Structure and Dynamics, 2018, 36, 3531-3540.	3.5	9
69	Sex in Plasmodium falciparum: Silence Play between GDVI and HP1. Trends in Parasitology, 2018, 34, 450-452.	3.3	8
70	<i>Plasmodium</i> DEH is ER-localized and crucial for oocyst mitotic division during malaria transmission. Life Science Alliance, 2020, 3, e202000879.	2.8	6
71	Leukemic cells arise from cloned cytotoxic lymphocytes during cell culture. European Journal of Immunology, 1986, 16, 1269-1276.	2.9	5
72	Development of a Transgenic Plasmodium berghei Line (Pbpfpkg) Expressing the P. falciparum cGMP-Dependent Protein Kinase, a Novel Antimalarial Drug Target. PLoS ONE, 2014, 9, e96923.	2.5	5

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73	A simple, robust and versatile method to characterise intracellular parasitism. <i>Molecular and Biochemical Parasitology</i> , 2007, 153, 72-76.	1.1	4
74	Global expression profiling reveals shared and distinct transcript signatures in arrested act2(Δ) and CDPK4(Δ) <i>Plasmodium berghei</i> gametocytes. <i>Molecular and Biochemical Parasitology</i> , 2015, 201, 100-107.	1.1	4
75	MRE11 Is Crucial for Malaria Parasite Transmission and Its Absence Affects Expression of Interconnected Networks of Key Genes Essential for Life. <i>Cells</i> , 2020, 9, 2590.	4.1	2
76	<i>Plasmodium Peekaboo</i> : PK4 Mediates Parasite Latency. <i>Cell Host and Microbe</i> , 2017, 22, 724-725.	11.0	0