

# Rentala Madhubala

## List of Publications by Year in descending order

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114  
papers

3,184  
citations

126907

33  
h-index

182427

51  
g-index

115  
all docs

115  
docs citations

115  
times ranked

2961  
citing authors

#	ARTICLE	IF	CITATIONS
1	Drug targets in Leishmania. Journal of Parasitic Diseases, 2010, 34, 1-13.	1.0	162
2	Role of ABC transporter MRPA, $\gamma$ -glutamylcysteine synthetase and ornithine decarboxylase in natural antimony-resistant isolates of Leishmania donovani. Journal of Antimicrobial Chemotherapy, 2006, 59, 204-211.	3.0	153
3	Paromomycin: Uptake and resistance in Leishmania donovani. Molecular and Biochemical Parasitology, 2009, 164, 111-117.	1.1	132
4	Cholesterol is required for Leishmania donovani infection: implications in leishmaniasis. Molecular and Biochemical Parasitology, 2004, 133, 145-152.	1.1	109
5	Structure and regulation of mammalian S-adenosylmethionine decarboxylase.. Journal of Biological Chemistry, 1988, 263, 17040-17049.	3.4	108
6	Structure and regulation of mammalian S-adenosylmethionine decarboxylase. Journal of Biological Chemistry, 1988, 263, 17040-9.	3.4	90
7	Paromomycin Affects Translation and Vesicle-Mediated Trafficking as Revealed by Proteomics of Paromomycin "Susceptible "Resistant Leishmania donovani. PLoS ONE, 2011, 6, e26660.	2.5	85
8	Roles for mitochondria in pentamidine susceptibility and resistance in Leishmania donovani. Molecular and Biochemical Parasitology, 2006, 145, 1-10.	1.1	84
9	In the Human Malaria Parasite Plasmodium falciparum, Polyamines Are Synthesized by a Bifunctional Ornithine Decarboxylase, S-Adenosylmethionine Decarboxylase. Journal of Biological Chemistry, 2000, 275, 8097-8102.	3.4	82
10	Assessing aquaglyceroporin gene status and expression profile in antimony-susceptible and -resistant clinical isolates of Leishmania donovani from India. Journal of Antimicrobial Chemotherapy, 2010, 65, 496-507.	3.0	75
11	MicroRNA expression profiling of <i>Leishmania donovani</i> -infected host cells uncovers the regulatory role of MIR30A-3p in host autophagy. Autophagy, 2016, 12, 1817-1831.	9.1	70
12	The Leishmania donovani LD1 locus gene ORFG encodes a biopterin transporter (BT1). Molecular and Biochemical Parasitology, 1999, 104, 93-105.	1.1	67
13	Differential expression of proteins in antimony-susceptible and -resistant isolates of Leishmania donovani. Molecular and Biochemical Parasitology, 2011, 179, 91-99.	1.1	66
14	Novel Arylimidamides for Treatment of Visceral Leishmaniasis. Antimicrobial Agents and Chemotherapy, 2010, 54, 2507-2516.	3.2	62
15	Control of ornithine decarboxylase activity in alpha-difluoromethylornithine-resistant L1210 cells by polyamines and synthetic analogues. Journal of Biological Chemistry, 1988, 263, 11008-14.	3.4	55
16	A Heterologous Prime-Boost Vaccination Regimen Using ORFF DNA and Recombinant ORFF Protein Confers Protective Immunity against Experimental Visceral Leishmaniasis. Journal of Infectious Diseases, 2005, 191, 2130-2137.	4.0	54
17	Genomic organization and gene function in <i>Leishmania</i> . Biochemical Society Transactions, 2000, 28, 527-531.	3.4	52
18	Vaccination with DNA encoding ORFF antigen confers protective immunity in mice infected with Leishmania donovani. Vaccine, 2003, 21, 1292-1299.	3.8	51

#	ARTICLE	IF	CITATIONS
19	Identification and Characterization of a Novel Deoxyhypusine Synthase in <i>Leishmania donovani</i> . <i>Journal of Biological Chemistry</i> , 2010, 285, 453-463.	3.4	47
20	Role of Aquaglyceroporin (AQP1) Gene and Drug Uptake in Antimony-resistant Clinical Isolates of <i>Leishmania donovani</i> . <i>American Journal of Tropical Medicine and Hygiene</i> , 2008, 79, 69-75.	1.4	47
21	Increased Expression of <i>LD1</i> Genes Transcribed by RNA Polymerase I in <i>Leishmania donovani</i> as a Result of Duplication into the <i>rRNA</i> Gene Locus. <i>Molecular and Cellular Biology</i> , 1995, 15, 6845-6853.	2.3	46
22	Proteomic-Based Approach To Gain Insight into Reprogramming of THP-1 Cells Exposed to <i>Leishmania donovani</i> over an Early Temporal Window. <i>Infection and Immunity</i> , 2015, 83, 1853-1868.	2.2	46
23	Glyoxalase I from <i>Leishmania donovani</i> : A potential target for anti-parasite drug. <i>Biochemical and Biophysical Research Communications</i> , 2005, 337, 1237-1248.	2.1	40
24	Glyoxalase I Gene Deletion Mutants of <i>Leishmania donovani</i> Exhibit Reduced Methylglyoxal Detoxification. <i>PLoS ONE</i> , 2009, 4, e6805.	2.5	40
25	Antileishmanial Effect of 3-Aminoxy-1-Aminopropane Is Due to Polyamine Depletion. <i>Antimicrobial Agents and Chemotherapy</i> , 2007, 51, 528-534.	3.2	39
26	Immunization with recombinant LD1 antigens protects against experimental leishmaniasis. <i>Vaccine</i> , 2000, 19, 423-430.	3.8	37
27	Characterization of the gene encoding glyoxalase II from <i>Leishmania donovani</i> : a potential target for anti-parasite drugs. <i>Biochemical Journal</i> , 2006, 393, 227-234.	3.7	37
28	Unusual domain architecture of aminoacyl tRNA synthetases and their paralogs from <i>Leishmania major</i> . <i>BMC Genomics</i> , 2012, 13, 621.	2.8	37
29	The <i>Leishmania</i> genome project: new insights into gene organization and function. <i>Medical Microbiology and Immunology</i> , 2001, 190, 9-12.	4.8	36
30	Immunostimulatory oligodeoxynucleotides are potent enhancers of protective immunity in mice immunized with recombinant ORFF leishmanial antigen. <i>Vaccine</i> , 2004, 22, 3053-3060.	3.8	35
31	The sterol-binding antibiotic nystatin inhibits entry of non-opsonized <i>Leishmania donovani</i> into macrophages. <i>Biochemical and Biophysical Research Communications</i> , 2006, 339, 661-666.	2.1	34
32	Ubiquitin Conjugation of Open Reading Frame F DNA Vaccine Leads to Enhanced Cell-Mediated Immune Response and Induces Protection against Both Antimony-Susceptible and -Resistant Strains of <i>Leishmania donovani</i> . <i>Journal of Immunology</i> , 2009, 183, 7719-7731.	0.8	34
33	Serodiagnosis of leishmaniasis with recombinant ORFF antigen.. <i>American Journal of Tropical Medicine and Hygiene</i> , 1999, 61, 482-487.	1.4	34
34	Quantitative proteomic profiling of the promastigotes and the intracellular amastigotes of <i>Leishmania donovani</i> isolates identifies novel proteins having a role in <i>Leishmania</i> differentiation and intracellular survival. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2012, 1824, 1342-1350.	2.3	33
35	Properties of L1210 cells resistant to alpha-difluoromethylornithine. <i>Cancer Research</i> , 1988, 48, 2678-82.	0.9	32
36	A Unique Modification of the Eukaryotic Initiation Factor 5A Shows the Presence of the Complete Hypusine Pathway in <i>Leishmania donovani</i> . <i>PLoS ONE</i> , 2012, 7, e33138.	2.5	30

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37	Genetically Engineered Ascorbic acid-deficient Live Mutants of Leishmania donovani induce long lasting Protective Immunity against Visceral Leishmaniasis. Scientific Reports, 2015, 5, 10706.	3.3	29
38	Leishmania lipophosphoglycan activates the transcription factor activating protein 1 in J774A.1 macrophages through the extracellular signal-related kinase (ERK) and p38 mitogen-activated protein kinase. Molecular and Biochemical Parasitology, 2005, 139, 117-127.	1.1	27
39	Effect of the microtubule stabilising agent taxol on leishmanial protozoan parasites in vitro. FEMS Microbiology Letters, 1999, 176, 429-435.	1.8	25
40	Vaccination withLeishmaniasoluble antigen and immunostimulatory oligodeoxynucleotides induces specific immunity and protection againstLeishmania donovaniinfection. FEMS Immunology and Medical Microbiology, 2004, 42, 241-248.	2.7	25
41	Co-administration of IL-12 DNA with rORFF antigen confers long-term protective immunity against experimental visceral leishmaniasis. Vaccine, 2006, 24, 2409-2416.	3.8	25
42	Role of aquaglyceroporin (AQP1) gene and drug uptake in antimony-resistant clinical isolates of Leishmania donovani. American Journal of Tropical Medicine and Hygiene, 2008, 79, 69-75.	1.4	25
43	Inhibition of glutathione synthesis as a chemotherapeutic strategy for leishmaniasis. Tropical Medicine and International Health, 2000, 5, 438-442.	2.3	24
44	Leishmania donovani Parasites Are Inhibited by the Benzoxaborole AN2690 Targeting Leucyl-tRNA Synthetase. Antimicrobial Agents and Chemotherapy, 2018, 62, .	3.2	24
45	Effect of a Bis(Benzyl)Polyamine Analogue, and DL-1±-difluoromethylornithine on Parasite Suppression and Cellular Polyamine Levels in Golden Hamster During Leishmania Donovanii Infection. Pharmacological Research, 1993, 28, 359-366.	7.1	23
46	Leishmaniasis: Current Status of Vaccine Development. Current Molecular Medicine, 2004, 4, 667-679.	1.3	23
47	A quantitative proteomic screen to identify potential drug resistance mechanism in 1±-difluoromethylornithine (DFMO) resistant Leishmania donovani. Journal of Proteomics, 2014, 102, 44-59.	2.4	23
48	Effects of Bis(benzyl)polyamine Analogs on Leishmania donovani Promastigotes. Experimental Parasitology, 1995, 81, 39-46.	1.2	22
49	The mitochondrial SIR2 related protein 2 (SIR2RP2) impacts Leishmania donovani growth and infectivity. PLoS Neglected Tropical Diseases, 2017, 11, e0005590.	3.0	20
50	High-throughput screening of amastigotes of Leishmania donovani clinical isolates against drugs using a colorimetric beta-lactamase assay. Indian Journal of Experimental Biology, 2009, 47, 475-9.	0.0	19
51	ANTILEISHMANIAL EFFECT OF A POTENT S-ADENOSYLMETHIONINE DECARBOXYLASE INHIBITOR: CGP 40215A. Pharmacological Research, 1996, 33, 67-70.	7.1	18
52	Leishmania donovani encodes a functional enzyme involved in vitamin c biosynthesis: Arabino-1,4-lactone oxidase. Molecular and Biochemical Parasitology, 2011, 180, 76-85.	1.1	18
53	Leishmania donovani: Characterization and Expression of ORFF, a Gene Amplified from the LDI Locus. Experimental Parasitology, 1999, 93, 225-230.	1.2	17
54	Leishmania donovani induces interferon regulatory factor in murine macrophages: a host defense response. Biochemical and Biophysical Research Communications, 2004, 317, 639-647.	2.1	17

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55	Sensing Host Arginine Is Essential for <i>Leishmania</i> Parasites'™ Intracellular Development. <i>MBio</i> , 2020, 11, .	4.1	17
56	Effect of antioxidants on the growth and polyamine levels of <i>Leishmania donovani</i> . <i>Biochemical Pharmacology</i> , 1994, 47, 611-615.	4.4	16
57	<i>Leishmania donovani</i> activates nuclear transcription factor- $\kappa$ B in macrophages through reactive oxygen intermediates. <i>Biochemical and Biophysical Research Communications</i> , 2004, 322, 1086-1095.	2.1	16
58	Novel convenient synthesis of biologically active esters of hydroxylamine. <i>Amino Acids</i> , 2010, 38, 509-517.	2.7	16
59	Visceral and post-Kala-Azar dermal leishmaniasis isolates show significant difference in their in vitro drug susceptibility pattern. <i>Parasitology Research</i> , 2013, 112, 1001-1009.	1.6	16
60	Unique posttranslational modifications in eukaryotic translation factors and their roles in protozoan parasite viability and pathogenesis. <i>Molecular and Biochemical Parasitology</i> , 2013, 187, 21-31.	1.1	16
61	The arginine sensing and transport binding sites are distinct in the human pathogen <i>Leishmania</i> . <i>PLoS Neglected Tropical Diseases</i> , 2019, 13, e0007304.	3.0	16
62	Characterization of the <i>Entamoeba histolytica</i> Ornithine Decarboxylase-Like Enzyme. <i>PLoS Neglected Tropical Diseases</i> , 2008, 2, e115.	3.0	16
63	Characterization of <i>Leishmania donovani</i> Aquaporins Shows Presence of Subcellular Aquaporins Similar to Tonoplast Intrinsic Proteins of Plants. <i>PLoS ONE</i> , 2011, 6, e24820.	2.5	16
64	Detection of <i>Leishmania</i> causing visceral leishmaniasis in the Old and New Worlds by a polymerase chain reaction assay based on telomeric sequences.. <i>American Journal of Tropical Medicine and Hygiene</i> , 2001, 65, 573-582.	1.4	16
65	Effect of prostaglandins on ornithine decarboxylase activity in the testis of immature rat. <i>Prostaglandins</i> , 1980, 20, 503-513.	1.2	15
66	Antileishmanial activity of berenil and methylglyoxal bis (guanylylhydrazone) and its correlation with S-adenosylmethionine decarboxylase and polyamines. <i>International Journal of Biochemistry and Cell Biology</i> , 1995, 27, 55-59.	2.8	15
67	<i>Leishmania</i> genome analysis and high-throughput immunological screening identifies tuzin as a novel vaccine candidate against visceral leishmaniasis. <i>Vaccine</i> , 2014, 32, 3816-3822.	3.8	15
68	Deletion of <i>V</i> itamin <i>C</i> biosynthesis enzyme, <i>A</i> rabino- $\epsilon$ -lactone oxidase in <i>Leishmania donovani</i> results in increased pro-inflammatory responses from host immune cells. <i>Molecular Microbiology</i> , 2014, 91, 1227-1239.	2.5	15
69	Twin Attributes of Tyrosyl-tRNA Synthetase of <i>Leishmania donovani</i> . <i>Journal of Biological Chemistry</i> , 2016, 291, 17754-17771.	3.4	15
70	Structural Insight into DFMO Resistant Ornithine Decarboxylase from <i>Entamoeba histolytica</i> : An Inking to Adaptive Evolution. <i>PLoS ONE</i> , 2013, 8, e53397.	2.5	15
71	CHARACTERIZATION OF ALPHA-DIFLUOROMETHYLORNITHINE RESISTANT <i>LEISHMANIA DONOVANI</i> AND ITS SUSCEPTIBILITY TO OTHER INHIBITORS OF THE POLYAMINE BIOSYNTHETIC PATHWAY. <i>Pharmacological Research</i> , 1996, 34, 43-46.	7.1	14
72	Identification and Functional Characterization of a Novel Bacterial Type Asparagine Synthetase A. <i>Journal of Biological Chemistry</i> , 2014, 289, 12096-12108.	3.4	14

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73	Epigenetic regulation of defense genes by histone deacetylase1 in human cell line-derived macrophages promotes intracellular survival of Leishmania donovani. PLoS Neglected Tropical Diseases, 2020, 14, e0008167.	3.0	14
74	Stimulation of ornithine decarboxylase activity by prostaglandins in the isolated cells of immature rat testis. FEBS Letters, 1980, 122, 197-198.	2.8	13
75	Leishmania donovani: Cellular control of ornithine decarboxylase in promastigotes. International Journal of Biochemistry and Cell Biology, 1995, 27, 947-952.	2.8	13
76	Sequencing of Coat Protein Gene of an isolate of Cucumber mosaic virus Infecting Black Pepper (Piper) Tj ETQq0 0 0 rgBT /Overlock 10	1.7	13
77	Novel agmatine analogue, $\hat{1}^3$ -guanidinoxypropylamine (GAPA) efficiently inhibits proliferation of Leishmania donovani by depletion of intracellular polyamine levels. Biochemical and Biophysical Research Communications, 2008, 375, 168-172.	2.1	13
78	A glutathione-specific aldose reductase of Leishmania donovani and its potential implications for methylglyoxal detoxification pathway. Gene, 2009, 429, 1-9.	2.2	13
79	Leishmania donovani Encodes a Functional Selenocysteinyl-tRNA Synthase. Journal of Biological Chemistry, 2016, 291, 1203-1220.	3.4	12
80	Genetic manipulation of Leishmania donovani threonyl tRNA synthetase facilitates its exploration as a potential therapeutic target. PLoS Neglected Tropical Diseases, 2018, 12, e0006575.	3.0	12
81	Antileishmanial activity and modification of hepatic xenobiotic metabolizing enzymes in golden hamster by 2(3)-tert-butyl-4-hydroxyanisole following infection with Leishmania donovani. Biochemical Pharmacology, 1994, 47, 253-256.	4.4	11
82	Expression of bipterin transporter (BT1) protein in Leishmania. FEMS Microbiology Letters, 2002, 208, 89-91.	1.8	11
83	Stigmasterol as a potential biomarker for amphotericin B resistance in Leishmania donovani. Journal of Antimicrobial Chemotherapy, 2020, 75, 942-950.	3.0	11
84	Inhibition of Ornithine Decarboxylase Activity by Follicle Stimulating Hormone in Primary Culture of Rat Sertoli Cells. Journal of Andrology, 1987, 8, 383-387.	2.0	9
85	EFFECT OF LEISHMANIA DONOVANI LIPOPHOSPHOGLYCAN ON ORNITHINE DECARBOXYLASE ACTIVITY IN MACROPHAGES. Journal of Parasitology, 2001, 87, 1071-1076.	0.7	9
86	A Plant like Cytochrome P450 Subfamily CYP710C1 Gene in Leishmania donovani Encodes Sterol C-22 Desaturase and its Over-expression Leads to Resistance to Amphotericin B. PLoS Neglected Tropical Diseases, 2019, 13, e0007260.	3.0	9
87	Effect of catecholamines on ornithin decarboxylase activity in the testis of immature rat. Biochemical and Biophysical Research Communications, 1981, 102, 1096-1103.	2.1	8
88	Isolation of a taxol-resistant Leishmania donovani promastigote mutant that exhibits a multidrug-resistant phenotype. FEMS Microbiology Letters, 1999, 176, 437-441.	1.8	8
89	Biochemical, Mutational and In Silico Structural Evidence for a Functional Dimeric Form of the Ornithine Decarboxylase from Entamoeba histolytica. PLoS Neglected Tropical Diseases, 2012, 6, e1559.	3.0	8
90	Rapid diagnosis of Leishmania infection with a portable loop-mediated isothermal amplification device. Journal of Biosciences, 2021, 46, 1.	1.1	8

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91	Combined action of inhibitors of polyamine biosynthetic pathway with a known antimalarial drug chloroquine on plasmodium falciparum. <i>Pharmacological Research</i> , 1995, 31, 189-193.	7.1	7
92	Genetic Validation of <i>Leishmania donovani</i> Lysyl-tRNA Synthetase Shows that It Is Indispensable for Parasite Growth and Infectivity. <i>MSphere</i> , 2017, 2, .	2.9	7
93	Stimulation of ornithine decarboxylase activity by luteinizing hormone releasing hormone in the testis of immature rat. <i>Biochemical and Biophysical Research Communications</i> , 1982, 109, 269-274.	2.1	6
94	Chemoprevention of DMBA-induced transplacental and translactational carcinogenesis in mice by oil from mustard seeds ( <i>Brassica</i> spp.). <i>Cancer Letters</i> , 1998, 134, 217-226.	7.2	6
95	Deciphering the interaction of benzoxaborole inhibitor AN2690 with connective polypeptide 1 (CP1) editing domain of <i>Leishmania donovani</i> leucyl-tRNA synthetase. <i>Journal of Biosciences</i> , 2020, 45, 1.	1.1	6
96	Inhibition of epinephrine and gonadotropic hormone induced ornithine decarboxylase activity by phenoxybenzamine in the testis of immature rat. <i>FEBS Letters</i> , 1983, 152, 199-201.	2.8	4
97	Combined Action of Inhibitors of S-Adenosylmethionine Decarboxylase with an Antimalarial Drug, Chloroquine, on <i>Plasmodium falciparum</i> . <i>Journal of Eukaryotic Microbiology</i> , 1997, 44, 12-17.	1.7	4
98	<i>Cryptosporidium parvum</i> has an active hypusine biosynthesis pathway. <i>Molecular and Biochemical Parasitology</i> , 2014, 195, 14-22.	1.1	4
99	Glyoxalase Pathway of Trypanosomatid Parasites: A Promising Chemotherapeutic Target. <i>Current Drug Targets</i> , 2008, 9, 957-965.	2.1	4
100	<i>Plasmodium falciparum</i> : detection and strain identification of Indian isolates by polymerase chain reaction. <i>Southeast Asian Journal of Tropical Medicine and Public Health</i> , 2000, 31, 213-8.	1.0	4
101	Characterization and localization of ORFF gene from the LD1 locus of <i>Leishmania donovani</i> . <i>Gene</i> , 2008, 416, 1-10.	2.2	3
102	Desensitization of ornithine decarboxylase activity to norepinephrine in the testis of rat. <i>Life Sciences</i> , 1984, 34, 1041-1046.	4.3	2
103	<i>Leishmania donovani</i> : Structural insight in the recognition of C-methylated analogues of spermidine as natural polyamines. <i>Molecular Biology</i> , 2011, 45, 619-623.	1.3	2
104	Chromatin-Remodeling Factor BRG1 Is a Negative Modulator of <i>L. donovani</i> in IFN $\gamma$ Stimulated and Infected THP-1 Cells. <i>Frontiers in Cellular and Infection Microbiology</i> , 2022, 12, 860058.	3.9	2
105	Effect of the microtubule stabilising agent taxol on leishmanial protozoan parasites in vitro. <i>FEMS Microbiology Letters</i> , 1999, 176, 429-435.	1.8	1
106	Isolation of a taxol-resistant <i>Leishmania donovani</i> promastigote mutant that exhibits a multidrug-resistant phenotype. <i>FEMS Microbiology Letters</i> , 1999, 176, 437-441.	1.8	1
107	The Cytochrome P450 Complement (CYPome) of <i>Leishmania</i> Leads to the Discovery of a Plant Like Cytochrome P450 Sub-Family CYP710C1 Gene. <i>Proceedings of the Indian National Science Academy</i> , 2017, 92, .	1.4	1
108	Title is missing!. <i>FEMS Immunology and Medical Microbiology</i> , 2005, 43, 103-103.	2.7	0

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109	Leishmania Vaccines: Past, Present, and Future. , 2013, , 143-163.		0
110	Role of two aminoacyl-tRNA synthetase associated proteins (Endothelial Monocyte Activating) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 70 224, 106128.	2.0	0
111	Title is missing!. , 2020, 14, e0008167.		0
112	Title is missing!. , 2020, 14, e0008167.		0
113	Title is missing!. , 2020, 14, e0008167.		0
114	Title is missing!. , 2020, 14, e0008167.		0