

Anil K Tyagi

List of Publications by Year in descending order

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100
papers

3,659
citations

109321

35
h-index

149698

56
g-index

107
all docs

107
docs citations

107
times ranked

4085
citing authors

#	ARTICLE	IF	CITATIONS
1	Inhibition of ABCG2 efflux pumps renders the Mycobacterium tuberculosis hiding in mesenchymal stem cells responsive to antibiotic treatment. <i>Infection, Genetics and Evolution</i> , 2021, 87, 104662.	2.3	4
2	Unraveling the role of the transcriptional regulator VirS in low pH-induced responses of Mycobacterium tuberculosis and identification of VirS inhibitors. <i>Journal of Biological Chemistry</i> , 2019, 294, 10055-10075.	3.4	9
3	Challenges and Advances in TB Drug Discovery. , 2019, , 463-495.		2
4	A combination of docking and cheminformatics approaches for the identification of inhibitors against 4-epi-phosphopantetheinyl transferase of Mycobacterium tuberculosis. <i>RSC Advances</i> , 2018, 8, 328-341.	3.6	10
5	Identification of Mycobacterium tuberculosis BioA inhibitors by using structure-based virtual screening. <i>Drug Design, Development and Therapy</i> , 2018, Volume 12, 1065-1079.	4.3	13
6	Necrosis Driven Triglyceride Synthesis Primes Macrophages for Inflammation During Mycobacterium tuberculosis Infection. <i>Frontiers in Immunology</i> , 2018, 9, 1490.	4.8	45
7	Virtual Screening, pharmacophore development and structure based similarity search to identify inhibitors against IdeR, a transcription factor of Mycobacterium tuberculosis. <i>Scientific Reports</i> , 2017, 7, 4653.	3.3	40
8	Boosting with recombinant MVA expressing M. tuberculosis Î±-crystallin antigen augments the protection imparted by BCG against tuberculosis in guinea pigs. <i>Scientific Reports</i> , 2017, 7, 17286.	3.3	8
9	An attenuated quadruple gene mutant of Mycobacterium tuberculosis imparts protection against tuberculosis in guinea pigs. <i>Biology Open</i> , 2017, 7, .	1.2	13
10	Differential Roles of Iron Storage Proteins in Maintaining the Iron Homeostasis in Mycobacterium tuberculosis. <i>PLoS ONE</i> , 2017, 12, e0169545.	2.5	42
11	bioA mutant of Mycobacterium tuberculosis shows severe growth defect and imparts protection against tuberculosis in guinea pigs. <i>PLoS ONE</i> , 2017, 12, e0179513.	2.5	18
12	Novel isoniazid-amidoether derivatives: synthesis, characterization and antimycobacterial activity evaluation. <i>MedChemComm</i> , 2015, 6, 131-137.	3.4	28
13	Apurinic/Apyrimidinic Endonucleases of Mycobacterium tuberculosis Protect against DNA Damage but Are Dispensable for the Growth of the Pathogen in Guinea Pigs. <i>PLoS ONE</i> , 2014, 9, e92035.	2.5	7
14	Comparative Analyses of Nonpathogenic, Opportunistic, and Totally Pathogenic Mycobacteria Reveal Genomic and Biochemical Variabilities and Highlight the Survival Attributes of Mycobacterium tuberculosis. <i>MBio</i> , 2014, 5, e02020.	4.1	64
15	Synthesis of novel 1,2,3-triazole derivatives of isoniazid and their in vitro and in vivo antimycobacterial activity evaluation. <i>European Journal of Medicinal Chemistry</i> , 2014, 81, 301-313.	5.5	83
16	Reply to Jones and Niederweis. <i>Journal of Infectious Diseases</i> , 2014, 209, 971-972.	4.0	2
17	Gene cooption in Mycobacteria and search for virulence attributes: Comparative proteomic analyses of Mycobacterium tuberculosis, Mycobacterium indicus pranii and other mycobacteria. <i>International Journal of Medical Microbiology</i> , 2014, 304, 742-748.	3.6	51
18	Unique Residues at the 3-Fold and 4-Fold Axis of Mycobacterial Ferritin Are Involved in Oligomer Switching. <i>Biochemistry</i> , 2013, 52, 1694-1704.	2.5	10

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19	Disruption of Mycobactin Biosynthesis Leads to Attenuation of Mycobacterium tuberculosis for Growth and Virulence. <i>Journal of Infectious Diseases</i> , 2013, 208, 1255-1265.	4.0	129
20	Whole-Cell Screening-Based Identification of Inhibitors against the Intraphagosomal Survival of Mycobacterium tuberculosis. <i>Antimicrobial Agents and Chemotherapy</i> , 2013, 57, 6372-6377.	3.2	12
21	KefB inhibits phagosomal acidification but its role is unrelated to M. tuberculosis survival in host. <i>Scientific Reports</i> , 2013, 3, 3527.	3.3	6
22	Adjunctive immunotherapy with $\hat{\iota}$ -crystallin based DNA vaccination reduces Tuberculosis chemotherapy period in chronically infected mice. <i>Scientific Reports</i> , 2013, 3, 1821.	3.3	17
23	Secreted Acid Phosphatase (SapM) of Mycobacterium tuberculosis Is Indispensable for Arresting Phagosomal Maturation and Growth of the Pathogen in Guinea Pig Tissues. <i>PLoS ONE</i> , 2013, 8, e70514.	2.5	84
24	Endonuclease IV Is the Major Apurinic/Apyrimidinic Endonuclease in Mycobacterium tuberculosis and Is Important for Protection against Oxidative Damage. <i>PLoS ONE</i> , 2013, 8, e71535.	2.5	20
25	Secretory Phosphatases Deficient Mutant of Mycobacterium tuberculosis Imparts Protection at the Primary Site of Infection in Guinea Pigs. <i>PLoS ONE</i> , 2013, 8, e77930.	2.5	37
26	Massive gene acquisitions in Mycobacterium indicus pranii provide a perspective on mycobacterial evolution. <i>Nucleic Acids Research</i> , 2012, 40, 10832-10850.	14.5	36
27	Response of the authors to the letter entitled, "Warning: Differences in the copy number of duplication unit 2 (DU2) within BCG Danish 1331 may influence findings involving genetically-modified BCG Danish strains" by Dr. Douglas S. Kernodle. <i>Vaccine</i> , 2012, 30, 6015.	3.8	0
28	Development of the first oligonucleotide microarray for global gene expression profiling in guinea pigs: defining the transcription signature of infectious diseases. <i>BMC Genomics</i> , 2012, 13, 520.	2.8	12
29	Iron Storage Proteins Are Essential for the Survival and Pathogenesis of Mycobacterium tuberculosis in THP-1 Macrophages and the Guinea Pig Model of Infection. <i>Journal of Bacteriology</i> , 2012, 194, 567-575.	2.2	123
30	Over-expression of superoxide dismutase obliterates the protective effect of BCG against tuberculosis by modulating innate and adaptive immune responses. <i>Vaccine</i> , 2011, 29, 8118-8125.	3.8	21
31	Diversity in Functional Organization of Class I and Class II Biotin Protein Ligase. <i>PLoS ONE</i> , 2011, 6, e16850.	2.5	5
32	Identification of Inhibitors against Mycobacterium tuberculosis Thiamin Phosphate Synthase, an Important Target for the Development of Anti-TB Drugs. <i>PLoS ONE</i> , 2011, 6, e22441.	2.5	22
33	Development of vaccines against tuberculosis. <i>Tuberculosis</i> , 2011, 91, 469-478.	1.9	11
34	Structural biology of Mycobacterium tuberculosis proteins: The Indian efforts. <i>Tuberculosis</i> , 2011, 91, 456-468.	1.9	22
35	Molecular modeling studies of Fatty acyl-CoA synthetase (FadD13) from Mycobacterium tuberculosis "a potential target for the development of antitubercular drugs. <i>Journal of Molecular Modeling</i> , 2011, 17, 301-313.	1.8	20
36	Ferritin Structure from Mycobacterium tuberculosis: Comparative Study with Homologues Identifies Extended C-Terminus Involved in Ferroxidase Activity. <i>PLoS ONE</i> , 2011, 6, e18570.	2.5	57

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37	Latency Antigen $\hat{\pm}$ -Crystallin Based Vaccination Imparts a Robust Protection against TB by Modulating the Dynamics of Pulmonary Cytokines. PLoS ONE, 2011, 6, e18773.	2.5	28
38	A Booster Vaccine Expressing a Latency-Associated Antigen Augments BCG Induced Immunity and Confers Enhanced Protection against Tuberculosis. PLoS ONE, 2011, 6, e23360.	2.5	39
39	The sigma factors of <i>Mycobacterium</i> $\hat{\epsilon}$ tuberculosis: regulation of the regulators. FEBS Journal, 2010, 277, 605-626.	4.7	141
40	Structural Ordering of Disordered Ligand-Binding Loops of Biotin Protein Ligase into Active Conformations as a Consequence of Dehydration. PLoS ONE, 2010, 5, e9222.	2.5	25
41	Dissecting the Role of Critical Residues and Substrate Preference of a Fatty Acyl-CoA Synthetase (FadD13) of <i>Mycobacterium tuberculosis</i> . PLoS ONE, 2009, 4, e8387.	2.5	25
42	A novel nucleoid-associated protein of <i>Mycobacterium tuberculosis</i> is a sequence homolog of GroEL. Nucleic Acids Research, 2009, 37, 4944-4954.	14.5	60
43	Facilitated Oligomerization of Mycobacterial GroEL: Evidence for Phosphorylation-Mediated Oligomerization. Journal of Bacteriology, 2009, 191, 6525-6538.	2.2	40
44	Mechanistic and functional insights into fatty acid activation in <i>Mycobacterium tuberculosis</i> . Nature Chemical Biology, 2009, 5, 166-173.	8.0	119
45	Boosting with a DNA vaccine expressing ESAT-6 (DNAE6) obliterates the protection imparted by recombinant BCG (rBCGE6) against aerosol <i>Mycobacterium tuberculosis</i> infection in guinea pigs. Vaccine, 2009, 28, 63-70.	3.8	22
46	Polyphasic Taxonomic Analysis Establishes <i>Mycobacterium indicus pranii</i> as a Distinct Species. PLoS ONE, 2009, 4, e6263.	2.5	78
47	Crystal Structure of Bfr A from <i>Mycobacterium tuberculosis</i> : Incorporation of Selenomethionine Results in Cleavage and Demetallation of Haem. PLoS ONE, 2009, 4, e8028.	2.5	41
48	Cloning, expression, purification, crystallization and preliminary X-ray crystallographic analysis of bacterioferritin A from <i>Mycobacterium tuberculosis</i> . Acta Crystallographica Section F: Structural Biology Communications, 2008, 64, 398-401.	0.7	10
49	Crystallization and preliminary X-ray diffraction analysis of biotin acetyl-CoA carboxylase ligase (BirA) from <i>Mycobacterium tuberculosis</i> . Acta Crystallographica Section F: Structural Biology Communications, 2008, 64, 524-527.	0.7	1
50	Functional Studies of Multiple Thioredoxins from <i>Mycobacterium tuberculosis</i> . Journal of Bacteriology, 2008, 190, 7087-7095.	2.2	54
51	Mechanistic Insights into a Novel Exporter-Importer System of <i>Mycobacterium tuberculosis</i> Unravel Its Role in Trafficking of Iron. PLoS ONE, 2008, 3, e2087.	2.5	51
52	Enhanced and Enduring Protection against Tuberculosis by Recombinant BCG-Ag85C and Its Association with Modulation of Cytokine Profile in Lung. PLoS ONE, 2008, 3, e3869.	2.5	58
53	Serine threonine protein kinases of mycobacterial genus: phylogeny to function. Physiological Genomics, 2007, 29, 66-75.	2.3	76
54	Molecular Analysis of a Leprosy Immunotherapeutic Bacillus Provides Insights into <i>Mycobacterium</i> Evolution. PLoS ONE, 2007, 2, e968.	2.5	39

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55	Mycobacterial transcriptional signals: requirements for recognition by RNA polymerase and optimal transcriptional activity. <i>Nucleic Acids Research</i> , 2006, 34, 4245-4257.	14.5	44
56	Deciphering the genes involved in pathogenesis of <i>Mycobacterium tuberculosis</i> . <i>Tuberculosis</i> , 2005, 85, 325-335.	1.9	33
57	Requirement of the <i>mymA</i> Operon for Appropriate Cell Wall Ultrastructure and Persistence of <i>Mycobacterium tuberculosis</i> in the Spleens of Guinea Pigs. <i>Journal of Bacteriology</i> , 2005, 187, 4173-4186.	2.2	101
58	Role of <i>Mycobacterium tuberculosis</i> Ser/Thr Kinase PknF: Implications in Glucose Transport and Cell Division. <i>Journal of Bacteriology</i> , 2005, 187, 3415-3420.	2.2	87
59	Expression and purification of recombinant 38-kDa and Mtb81 antigens of <i>Mycobacterium tuberculosis</i> for application in serodiagnosis. <i>Protein Expression and Purification</i> , 2005, 40, 169-176.	1.3	10
60	Expression and purification of recombinant antigens of <i>Mycobacterium tuberculosis</i> for application in serodiagnosis. <i>Protein Expression and Purification</i> , 2005, 44, 75-85.	1.3	20
61	Elicitation of efficient, protective immune responses by using DNA vaccines against tuberculosis. <i>Vaccine</i> , 2005, 23, 5655-5665.	3.8	37
62	Oral Silibinin Inhibits Lung Tumor Growth in Athymic Nude Mice and Forms a Novel Chemocombination with Doxorubicin Targeting Nuclear Factor κ B-Mediated Inducible Chemoresistance. <i>Clinical Cancer Research</i> , 2004, 10, 8641-8647.	7.0	116
63	Nuclear Localization and in Situ DNA Damage by <i>Mycobacterium tuberculosis</i> Nucleoside-diphosphate Kinase. <i>Journal of Biological Chemistry</i> , 2004, 279, 50142-50149.	3.4	27
64	Immunogenicity of recombinant BCG vaccine strains overexpressing components of the antigen 85 complex of <i>Mycobacterium tuberculosis</i> . <i>Medical Microbiology and Immunology</i> , 2004, 193, 19-25.	4.8	25
65	Nucleoside diphosphate kinase of <i>Mycobacterium tuberculosis</i> acts as GTPase-activating protein for Rho-GTPases. <i>FEBS Letters</i> , 2004, 571, 212-216.	2.8	31
66	Skewing of the Th1/Th2 responses in mice due to variation in the level of expression of an antigen in a recombinant BCG system. <i>Immunology Letters</i> , 2003, 88, 175-184.	2.5	35
67	Role of 5'-TGN-3' motif in the interaction of mycobacterial RNA polymerase with a promoter of σ -extended σ '10 class. <i>FEMS Microbiology Letters</i> , 2003, 225, 75-83.	1.8	25
68	<i>mymA</i> operon of <i>Mycobacterium tuberculosis</i> : its regulation and importance in the cell envelope. <i>FEMS Microbiology Letters</i> , 2003, 227, 53-63.	1.8	78
69	Disruption of <i>mptpB</i> impairs the ability of <i>Mycobacterium tuberculosis</i> to survive in guinea pigs. <i>Molecular Microbiology</i> , 2003, 50, 751-762.	2.5	174
70	Cytotoxic activity of nucleoside diphosphate kinase secreted from <i>Mycobacterium tuberculosis</i> . <i>FEBS Journal</i> , 2003, 270, 625-634.	0.2	68
71	Phosphoprotein phosphatase of <i>Mycobacterium tuberculosis</i> dephosphorylates serine-threonine kinases PknA and PknB. <i>Biochemical and Biophysical Research Communications</i> , 2003, 311, 112-120.	2.1	57
72	Recent Advances in Tuberculosis Research in India. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2003, 84, 211-273.	1.1	3

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73	Serine/threonine protein kinases PknF and PknG of <i>Mycobacterium tuberculosis</i> : characterization and localization. <i>Microbiology (United Kingdom)</i> , 2001, 147, 2307-2314.	1.8	95
74	Recombinant BCG approach for development of vaccines: cloning and expression of immunodominant antigens of <i>M. tuberculosis</i> . <i>FEMS Microbiology Letters</i> , 2000, 190, 309-316.	1.8	29
75	Cloning and Characterization of Secretory Tyrosine Phosphatases of <i>Mycobacterium tuberculosis</i> . <i>Journal of Bacteriology</i> , 2000, 182, 5425-5432.	2.2	170
76	Recombinant BCG approach for development of vaccines: cloning and expression of immunodominant antigens of <i>M. tuberculosis</i> . <i>FEMS Microbiology Letters</i> , 2000, 190, 309-316.	1.8	3
77	Analysis, expression and prevalence of the <i>Mycobacterium tuberculosis</i> homolog of bacterial virulence regulating proteins. <i>FEMS Microbiology Letters</i> , 1999, 172, 137-143.	1.8	15
78	Expression Systems for Study of Mycobacterial Gene Regulation and Development of Recombinant BCG Vaccines. <i>Biochemical and Biophysical Research Communications</i> , 1998, 246, 797-804.	2.1	54
79	Identification and Analysis of Extended Promoters from Mycobacteria. <i>Journal of Bacteriology</i> , 1998, 180, 2568-2573.	2.2	53
80	Construction of shuttle vectors for genetic manipulation and molecular analysis of mycobacteria. <i>Gene</i> , 1997, 190, 37-44.	2.2	61
81	MchAI and MchAII, two class-II restriction endonucleases from <i>Mycobacterium chelonae</i> . <i>Gene</i> , 1993, 132, 119-123.	2.2	9
82	Sequence of a newly identified <i>Mycobacterium tuberculosis</i> gene encoding a protein with sequence homology to virulence-regulating proteins. <i>Gene</i> , 1993, 126, 157-158.	2.2	31
83	Purification and characterization of restriction endonuclease MgoI from <i>Mycobacterium goodii</i> . <i>Gene</i> , 1993, 131, 153-154.	2.2	9
84	MfoAI, a novel isoschizomer of <i>HaeIII</i> from <i>Mycobacterium fortuitum</i> recognizing 5'-GG/CC-3'. <i>Nucleic Acids Research</i> , 1992, 20, 2890-2890.	14.5	8
85	MhaAI, a novel isoschizomer of <i>PstI</i> from <i>Mycobacterium habana</i> recognizing 5'-CTGCA/G-3'. <i>Nucleic Acids Research</i> , 1992, 20, 2891-2891.	14.5	10
86	Modulation of arginine decarboxylase activity from <i>Mycobacterium smegmatis</i> . Evidence for pyridoxal-5'-phosphate-mediated conformational changes in the enzyme. <i>FEBS Journal</i> , 1989, 183, 339-345.	0.2	4
87	Regulation of ornithine decarboxylase from <i>Mycobacterium smegmatis</i> . <i>Archives of Biochemistry and Biophysics</i> , 1988, 264, 288-294.	3.0	2
88	Role of polyamines in the synthesis of RNA in mycobacteria. <i>Molecular and Cellular Biochemistry</i> , 1987, 78, 3-8.	3.1	8
89	Benzofurano derivatives of coumarins as possible antifertility agents. <i>Journal of Heterocyclic Chemistry</i> , 1985, 22, 235-237.	2.6	1
90	Biochemical Pharmacology, Metabolism, and Mechanism of Action of L-Alanosine, a Novel, Natural Antitumor Agent. <i>Advances in Pharmacology</i> , 1984, 20, 69-121.	2.0	19

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91	Prospects for the chemotherapy of cancer using analogs of l-aspartic acid. Trends in Pharmacological Sciences, 1983, 4, 299-304.	8.7	6
92	[19] Ornithine decarboxylase (<i>Saccharomyces cerevisiae</i>). Methods in Enzymology, 1983, 94, 135-139.	1.0	14
93	Inactivation of yeast ornithine decarboxylase by polyamines in vivo does not result from the incorporation of polyamines into enzyme protein. Biochemical and Biophysical Research Communications, 1982, 109, 533-540.	2.1	21
94	Studies on the mechanism of resistance of selected murine tumors to l-alanosine. Biochemical Pharmacology, 1981, 30, 915-924.	4.4	12
95	Determinants of the toxicity of L-alanosine to various organs of the mouse. Toxicology, 1981, 21, 59-69.	4.2	5
96	Interaction of l-alanosine (NSC 153, 353) with enzymes metabolizing l-aspartic acid, l-glutamic acid and their amides. Biochemical Pharmacology, 1980, 29, 227-245.	4.4	23
97	A radiometric technique for the measurement of adenylosuccinate lyase. Journal of Proteomics, 1980, 2, 291-297.	2.4	3
98	Use of automated chromatography on the amino acid analyzer with lithium citrate buffers to separate nucleic acid bases, nucleosides, nucleotides and their precursors. Journal of Proteomics, 1979, 1, 221-226.	2.4	9
99	Metabolites of alanosine, an antitumor antibiotic. Biochemical Pharmacology, 1979, 28, 3551-3566.	4.4	22
100	The Role of Mycobacterial Kinases and Phosphatases in Growth, Pathogenesis, and Cell Wall Metabolism. , 0, , 323-343.		0