

Arbind Kumar

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

1,309
citations

361045

20
h-index

395343

33
g-index

60
all docs

60
docs citations

60
times ranked

1413
citing authors

#	ARTICLE	IF	CITATIONS
1	Strategies for optimization of heterologous protein expression in E. coli: Roadblocks and reinforcements. International Journal of Biological Macromolecules, 2018, 106, 803-822.	3.6	245
2	Immobilization, stability and esterification studies of a lipase from a Bacillus sp.. Biotechnology and Applied Biochemistry, 2002, 36, 7.	1.4	77
3	Lipid hydrolyzing enzymes in virulence: <i>Mycobacterium tuberculosis</i> as a model system. Critical Reviews in Microbiology, 2010, 36, 259-269.	2.7	70
4	Engineering of Bacillus lipase by directed evolution for enhanced thermal stability: effect of isoleucine to threonine mutation at protein surface. Molecular Biology Reports, 2011, 38, 2919-2926.	1.0	45
5	Engineering of a metagenome derived lipase toward thermal tolerance: Effect of asparagine to lysine mutation on the protein surface. Gene, 2012, 491, 264-271.	1.0	39
6	Cloning, expression and characterization of a metagenome derived thermoactive/thermostable pectinase. Molecular Biology Reports, 2012, 39, 8353-8361.	1.0	39
7	Characterization of LipN (Rv2970c) of <i>Mycobacterium Tuberculosis</i> H37Rv and its Probable Role in Xenobiotic Degradation. Journal of Cellular Biochemistry, 2016, 117, 390-401.	1.2	38
8	A thermostable lipolytic enzyme from a thermophilic Bacillus sp.: Purification and characterization. Molecular and Cellular Biochemistry, 2006, 290, 17-22.	1.4	32
9	Characterization of a thermostable lipase showing loss of secondary structure at ambient temperature. Molecular Biology Reports, 2012, 39, 2795-2804.	1.0	32
10	Characterization of a novel esterase Rv1497 of <i>Mycobacterium tuberculosis</i> H37Rv demonstrating β -lactamase activity. Enzyme and Microbial Technology, 2016, 82, 180-190.	1.6	29
11	Characterization of an acid inducible lipase Rv3203 from <i>Mycobacterium tuberculosis</i> H37Rv. Molecular Biology Reports, 2014, 41, 285-296.	1.0	28
12	Modulation of Trehalose Dimycolate and Immune System by Rv0774c Protein Enhanced the Intracellular Survival of <i>Mycobacterium smegmatis</i> in Human Macrophages Cell Line. Frontiers in Cellular and Infection Microbiology, 2017, 7, 289.	1.8	28
13	Molecular Characterization of Oxidative Stress-Inducible LipD of <i>Mycobacterium tuberculosis</i> H37Rv. Current Microbiology, 2014, 68, 387-396.	1.0	27
14	Characterization and molecular modelling of an engineered organic solvent tolerant, thermostable lipase with enhanced enzyme activity. Journal of Molecular Catalysis B: Enzymatic, 2013, 97, 243-251.	1.8	26
15	Functional characterization of hypothetical proteins of <i>Mycobacterium tuberculosis</i> with possible esterase/lipase signature: a cumulative <i>in silico</i> and <i>in vitro</i> approach. Journal of Biomolecular Structure and Dynamics, 2017, 35, 1226-1243.	2.0	26
16	Multifaceted role of lipids in <i>Mycobacterium leprae</i> . Future Microbiology, 2017, 12, 315-335.	1.0	24
17	Biochemical Analysis of a Native and Proteolytic Fragment of a High-Molecular-Weight Thermostable Lipase from a Mesophilic Bacillus sp.. Protein Expression and Purification, 2002, 24, 71-75.	0.6	23
18	Primer Based Approach for PCR Amplification of High GC Content Gene: <i>Mycobacterium</i> Gene as a Model. Molecular Biology International, 2014, 2014, 1-7.	1.7	23

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19	Dynamics of fluoroquinolones induced resistance in DNA gyrase of <i>Mycobacterium tuberculosis</i> . <i>Journal of Biomolecular Structure and Dynamics</i> , 2018, 36, 362-375.	2.0	23
20	mesT, a unique epoxide hydrolase, is essential for optimal growth of <i>Mycobacterium tuberculosis</i> in the presence of styrene oxide. <i>Future Microbiology</i> , 2017, 12, 527-546.	1.0	22
21	Engineering lipases for temperature adaptation: Structure function correlation. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2019, 1867, 140261.	1.1	22
22	Rv0518, a nutritive stress inducible GDSL lipase of <i>Mycobacterium tuberculosis</i> , enhanced intracellular survival of bacteria by cell wall modulation. <i>International Journal of Biological Macromolecules</i> , 2019, 135, 180-195.	3.6	21
23	Enantiomeric separation of pharmaceutically important drug intermediates using a Metagenomic lipase and optimization of its large scale production. <i>International Journal of Biological Macromolecules</i> , 2017, 95, 995-1003.	3.6	20
24	Characterization of ML0314c of <i>Mycobacterium leprae</i> and deciphering its role in the immune response in leprosy patients. <i>Gene</i> , 2018, 643, 26-34.	1.0	20
25	Characterization and evolution of a metagenome-derived lipase towards enhanced enzyme activity and thermostability. <i>Molecular and Cellular Biochemistry</i> , 2013, 373, 149-159.	1.4	19
26	Rv0774c, an iron stress inducible, extracellular esterase is involved in immune-suppression associated with altered cytokine and TLR2 expression. <i>International Journal of Medical Microbiology</i> , 2017, 307, 126-138.	1.5	19
27	Combinatorial reshaping of a lipase structure for thermostability: Additive role of surface stabilizing single point mutations. <i>Biochemical and Biophysical Research Communications</i> , 2014, 447, 626-632.	1.0	18
28	Alanine mutation of the catalytic sites of Pantothenate Synthetase causes distinct conformational changes in the ATP binding region. <i>Scientific Reports</i> , 2018, 8, 903.	1.6	18
29	Rv2037c, a stress induced conserved hypothetical protein of <i>Mycobacterium tuberculosis</i> , is a phospholipase: Role in cell wall modulation and intracellular survival. <i>International Journal of Biological Macromolecules</i> , 2020, 153, 817-835.	3.6	18
30	Rv1288, a Two Domain, Cell Wall Anchored, Nutrient Stress Inducible Carboxyl-Esterase of <i>Mycobacterium tuberculosis</i> , Modulates Cell Wall Lipid. <i>Frontiers in Cellular and Infection Microbiology</i> , 2018, 8, 421.	1.8	16
31	Insights into controlling role of substitution mutation, E315G on thermostability of a lipase cloned from metagenome of hot spring soil. <i>3 Biotech</i> , 2014, 4, 189-196.	1.1	15
32	Point Mutation Ile137-Met Near Surface Conferred Psychrophilic Behaviour and Improved Catalytic Efficiency to Bacillus Lipase of 1.4 Subfamily. <i>Applied Biochemistry and Biotechnology</i> , 2016, 178, 753-765.	1.4	15
33	Cell Wall Associated Factors of <i>Mycobacterium tuberculosis</i> as Major Virulence Determinants: Current Perspectives in Drugs Discovery and Design. <i>Current Drug Targets</i> , 2017, 18, 1904-1918.	1.0	15
34	Structural and functional insights into thermostable and organic solvent stable variant Pro247-Ser of Bacillus lipase. <i>International Journal of Biological Macromolecules</i> , 2018, 108, 845-852.	3.6	15
35	Point mutation Gln121-Arg increased temperature optima of Bacillus lipase (1.4 subfamily) by fifteen degrees. <i>International Journal of Biological Macromolecules</i> , 2016, 88, 507-514.	3.6	13
36	Characterization of an extracellular protein, Rv1076 from <i>M. tuberculosis</i> with a potential role in humoral response. <i>International Journal of Biological Macromolecules</i> , 2017, 101, 621-629.	3.6	13

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37	Thirty-degree shift in optimum temperature of a thermophilic lipase by a single-point mutation: effect of serine to threonine mutation on structural flexibility. <i>Molecular and Cellular Biochemistry</i> , 2017, 430, 21-30.	1.4	12
38	Drug targeted virtual screening and molecular dynamics of LipU protein of <i>Mycobacterium tuberculosis</i> and <i>Mycobacterium leprae</i> . <i>Journal of Biomolecular Structure and Dynamics</i> , 2019, 37, 1254-1269.	2.0	12
39	Structural and functional insights about unique extremophilic bacterial lipolytic enzyme from metagenome source. <i>International Journal of Biological Macromolecules</i> , 2020, 152, 593-604.	3.6	12
40	Disruption of N terminus long range non covalent interactions shifted temp.opt 25Â°C to cold: Evolution of point mutant <i>Bacillus</i> lipase by error prone PCR. <i>Gene</i> , 2016, 576, 237-243.	1.0	11
41	The immunosuppressive effects of a novel recombinant LipQ (Rv2485c) protein of <i>Mycobacterium tuberculosis</i> on human macrophage cell lines. <i>Microbial Pathogenesis</i> , 2017, 107, 361-367.	1.3	9
42	Gene expression analysis for selection and validation of suitable housekeeping gene(s) in cadmium exposed pigeonpea plants inoculated with arbuscular mycorrhizae. <i>Plant Physiology and Biochemistry</i> , 2021, 162, 592-602.	2.8	9
43	Rv0646c, an esterase from <i>M. tuberculosis</i> , up-regulates the host immune response in THP-1 macrophages cells. <i>Molecular and Cellular Biochemistry</i> , 2018, 447, 189-202.	1.4	8
44	Pharmaco-immunomodulatory interventions for averting cytokine storm-linked disease severity in SARS-CoV-2 infection. <i>Inflammopharmacology</i> , 2022, 30, 23-49.	1.9	8
45	mbtj: an iron stress-induced acetyl hydrolase/esterase of <i>Mycobacterium tuberculosis</i> helps bacteria to survive during iron stress. <i>Future Microbiology</i> , 2018, 13, 547-564.	1.0	6
46	Rv2223c, an acid inducible carboxyl-esterase of <i>Mycobacterium tuberculosis</i> enhanced the growth and survival of <i>Mycobacterium smegmatis</i> . <i>Future Microbiology</i> , 2019, 14, 1397-1415.	1.0	6
47	Molecular Dynamics Assisted Mechanistic Insight of Val430-Ala Mutation of Rv1592c Protein in Isoniazid Resistant <i>Mycobacterium Tuberculosis</i> . <i>Current Computer-Aided Drug Design</i> , 2021, 17, 95-106.	0.8	6
48	Combating the progression of novel coronavirus SARS-CoV-2 infectious Disease: Current state and future prospects in molecular diagnostic and drug discovery. <i>Current Molecular Medicine</i> , 2021, 21, .	0.6	6
49	The lipolytic activity of LipJ, a stress-induced enzyme, is regulated by its C-terminal adenylate cyclase domain. <i>Future Microbiology</i> , 2021, 16, 487-507.	1.0	5
50	New Insight into Old <i>Bacillus</i> Lipase: Solvent Stable Mesophilic Lipase Demonstrating Enzyme Activity towards Cold. <i>Journal of Molecular Microbiology and Biotechnology</i> , 2015, 25, 340-348.	1.0	4
51	Mutation in Eth A protein of <i>Mycobacterium tuberculosis</i> conferred drug tolerance against ethionamide in <i>Mycobacterium smegmatis</i> mc2155. <i>Computational Biology and Chemistry</i> , 2022, 98, 107677.	1.1	4
52	Differential expression of two members of Rv1922-LipD operon in <i>Mycobacterium tuberculosis</i> : Does rv1923 qualify for membership?. <i>Pathogens and Disease</i> , 2015, 73, .	0.8	3
53	Conserved cysteine variants of metagenomic derived polygalacturonase concurrently shift its optima at acidic pH and enhanced thermostability: structural and functional analysis. <i>Journal of Biomolecular Structure and Dynamics</i> , 2019, 37, 265-273.	2.0	3
54	Correlation of over-expression of rv1900c with enhanced survival of <i>M. smegmatis</i> under stress conditions: Modulation of cell surface properties. <i>Gene</i> , 2021, 791, 145720.	1.0	3

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55	In-Silico Characterization of a Hypothetical Protein, Rv1288 of Mycobacterium tuberculosis Containing an Esterase Signature and an Uncommon LytE Domain. Current Computer-Aided Drug Design, 2017, 13, 101-111.	0.8	3
56	Comparative analysis of point mutations on protein COOH terminal near surface and its hydrophobic core provide insights on thermostability of Bacillus Lipase LipJ. Journal of Molecular Catalysis B: Enzymatic, 2016, 133, S482-S490.	1.8	2
57	Environment dependent expression of mycobacterium hormone sensitive lipases: expression pattern under ex-vivo and individual in-vitro stress conditions in M. tuberculosis H37Ra. Molecular Biology Reports, 2022, 49, 4583-4593.	1.0	2
58	Molecular characterization and immunogenic function of ML1899 (LipG) of Mycobacterium leprae. Journal of Medical Microbiology, 2019, 68, 1629-1640.	0.7	1
59	A Phagosomally Expressed Gene, rv0428c, of Mycobacterium tuberculosis Demonstrates Acetyl Transferase Activity and Plays a Protective Role Under Stress Conditions. Protein Journal, 2022, 41, 260-273.	0.7	1
60	Studies on Recombinant Lipase Production by <i>E. Coli</i> : Effect of Media And Bacterial Expression System Optimization. International Journal of Molecular Biology Open Access, 2017, 2, .	0.2	0