

Arbind Kumar

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

1,309
citations

361413

20
h-index

395702

33
g-index

60
all docs

60
docs citations

60
times ranked

1413
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Pharmaco-immunomodulatory interventions for averting cytokine storm-linked disease severity in SARS-CoV-2 infection. <i>Inflammopharmacology</i> , 2022, 30, 23-49. | 3.9 | 8 |
| 2 | A Phagosomally Expressed Gene, rv0428c, of <i>Mycobacterium tuberculosis</i> Demonstrates Acetyl Transferase Activity and Plays a Protective Role Under Stress Conditions. <i>Protein Journal</i> , 2022, 41, 260-273. | 1.6 | 1 |
| 3 | Environment dependent expression of mycobacterium hormone sensitive lipases: expression pattern under ex-vivo and individual in-vitro stress conditions in <i>M. tuberculosis</i> H37Ra. <i>Molecular Biology Reports</i> , 2022, 49, 4583-4593. | 2.3 | 2 |
| 4 | Mutation in Eth A protein of <i>Mycobacterium tuberculosis</i> conferred drug tolerance against enthioamide in <i>Mycobacterium smegmatis</i> mc2155. <i>Computational Biology and Chemistry</i> , 2022, 98, 107677. | 2.3 | 4 |
| 5 | 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. | 1.2 | 6 |
| 6 | 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. | 2.0 | 5 |
| 7 | 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. | 5.8 | 9 |
| 8 | 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. | 2.2 | 3 |
| 9 | 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, . | 1.3 | 6 |
| 10 | 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. | 7.5 | 18 |
| 11 | Structural and functional insights about unique extremophilic bacterial lipolytic enzyme from metagenome source. <i>International Journal of Biological Macromolecules</i> , 2020, 152, 593-604. | 7.5 | 12 |
| 12 | Engineering lipases for temperature adaptation: Structure function correlation. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2019, 1867, 140261. | 2.3 | 22 |
| 13 | 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. | 7.5 | 21 |
| 14 | 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. | 2.0 | 6 |
| 15 | 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. | 3.5 | 12 |
| 16 | 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. | 3.5 | 3 |
| 17 | Molecular characterization and immunogenic function of ML1899 (LipG) of <i>Mycobacterium leprae</i> . <i>Journal of Medical Microbiology</i> , 2019, 68, 1629-1640. | 1.8 | 1 |
| 18 | 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. | 3.1 | 8 |

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|----|---|-----|-----------|
| 19 | Alanine mutation of the catalytic sites of Pantothenate Synthetase causes distinct conformational changes in the ATP binding region. Scientific Reports, 2018, 8, 903. | 3.3 | 18 |
| 20 | mbtJ: an iron stress-induced acetyl hydrolase/esterase of <i>Mycobacterium tuberculosis</i> helps bacteria to survive during iron stress. Future Microbiology, 2018, 13, 547-564. | 2.0 | 6 |
| 21 | Dynamics of fluoroquinolones induced resistance in DNA gyrase of <i>Mycobacterium tuberculosis</i> . Journal of Biomolecular Structure and Dynamics, 2018, 36, 362-375. | 3.5 | 23 |
| 22 | Structural and functional insights into thermostable and organic solvent stable variant Pro247-Ser of Bacillus lipase. International Journal of Biological Macromolecules, 2018, 108, 845-852. | 7.5 | 15 |
| 23 | Strategies for optimization of heterologous protein expression in E. coli: Roadblocks and reinforcements. International Journal of Biological Macromolecules, 2018, 106, 803-822. | 7.5 | 245 |
| 24 | Characterization of ML0314c of Mycobacterium leprae and deciphering its role in the immune response in leprosy patients. Gene, 2018, 643, 26-34. | 2.2 | 20 |
| 25 | Rv1288, a Two Domain, Cell Wall Anchored, Nutrient Stress Inducible Carboxyl-Esterase of Mycobacterium tuberculosis, Modulates Cell Wall Lipid. Frontiers in Cellular and Infection Microbiology, 2018, 8, 421. | 3.9 | 16 |
| 26 | 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. | 3.5 | 26 |
| 27 | Thirty-degree shift in optimum temperature of a thermophilic lipase by a single-point mutation: effect of serine to threonine mutation on structural flexibility. Molecular and Cellular Biochemistry, 2017, 430, 21-30. | 3.1 | 12 |
| 28 | Rv0774c, an iron stress inducible, extracellular esterase is involved in immune-suppression associated with altered cytokine and TLR2 expression. International Journal of Medical Microbiology, 2017, 307, 126-138. | 3.6 | 19 |
| 29 | The immunosuppressive effects of a novel recombinant LipQ (Rv2485c) protein of Mycobacterium tuberculosis on human macrophage cell lines. Microbial Pathogenesis, 2017, 107, 361-367. | 2.9 | 9 |
| 30 | mesT, a unique epoxide hydrolase, is essential for optimal growth of <i>Mycobacterium tuberculosis</i> in the presence of styrene oxide. Future Microbiology, 2017, 12, 527-546. | 2.0 | 22 |
| 31 | Characterization of an extracellular protein, Rv1076 from M. tuberculosis with a potential role in humoral response. International Journal of Biological Macromolecules, 2017, 101, 621-629. | 7.5 | 13 |
| 32 | Multifaceted role of lipids in Mycobacterium leprae. Future Microbiology, 2017, 12, 315-335. | 2.0 | 24 |
| 33 | Enantiomeric separation of pharmaceutically important drug intermediates using a Metagenomic lipase and optimization of its large scale production. International Journal of Biological Macromolecules, 2017, 95, 995-1003. | 7.5 | 20 |
| 34 | Modulation of Trehalose Dimycolate and Immune System by Rv0774c Protein Enhanced the Intracellular Survival of Mycobacterium smegmatis in Human Macrophages Cell Line. Frontiers in Cellular and Infection Microbiology, 2017, 7, 289. | 3.9 | 28 |
| 35 | Cell Wall Associated Factors of Mycobacterium tuberculosis as Major Virulence Determinants: Current Perspectives in Drugs Discovery and Design. Current Drug Targets, 2017, 18, 1904-1918. | 2.1 | 15 |
| 36 | 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. | 1.2 | 3 |

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|----|--|-----|-----------|
| 37 | 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 |
| 38 | 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 |
| 39 | Point mutation Gln121-Arg increased temperature optima of Bacillus lipase (1.4 subfamily) by fifteen degrees. International Journal of Biological Macromolecules, 2016, 88, 507-514. | 7.5 | 13 |
| 40 | 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. | 2.6 | 38 |
| 41 | Characterization of a novel esterase Rv1497 of <i>Mycobacterium tuberculosis</i> H37Rv demonstrating β -lactamase activity. Enzyme and Microbial Technology, 2016, 82, 180-190. | 3.2 | 29 |
| 42 | Point Mutation Ile137-Met Near Surface Conferred Psychrophilic Behaviour and Improved Catalytic Efficiency to Bacillus Lipase of 1.4 Subfamily. Applied Biochemistry and Biotechnology, 2016, 178, 753-765. | 2.9 | 15 |
| 43 | Disruption of N terminus long range non covalent interactions shifted temp.opt 25 $^{\circ}$ C to cold: Evolution of point mutant Bacillus lipase by error prone PCR. Gene, 2016, 576, 237-243. | 2.2 | 11 |
| 44 | Differential expression of two members of Rv1922-LipD operon in <i>Mycobacterium tuberculosis</i> : Does rv1923 qualify for membership?. Pathogens and Disease, 2015, 73, . | 2.0 | 3 |
| 45 | New Insight into Old <i>Bacillus</i> Lipase: Solvent Stable Mesophilic Lipase Demonstrating Enzyme Activity towards Cold. Journal of Molecular Microbiology and Biotechnology, 2015, 25, 340-348. | 1.0 | 4 |
| 46 | 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 |
| 47 | Insights into controlling role of substitution mutation, E315G on thermostability of a lipase cloned from metagenome of hot spring soil. 3 Biotech, 2014, 4, 189-196. | 2.2 | 15 |
| 48 | Molecular Characterization of Oxidative Stress-Inducible LipD of <i>Mycobacterium tuberculosis</i> H37Rv. Current Microbiology, 2014, 68, 387-396. | 2.2 | 27 |
| 49 | Characterization of an acid inducible lipase Rv3203 from <i>Mycobacterium tuberculosis</i> H37Rv. Molecular Biology Reports, 2014, 41, 285-296. | 2.3 | 28 |
| 50 | Combinatorial reshaping of a lipase structure for thermostability: Additive role of surface stabilizing single point mutations. Biochemical and Biophysical Research Communications, 2014, 447, 626-632. | 2.1 | 18 |
| 51 | Characterization and evolution of a metagenome-derived lipase towards enhanced enzyme activity and thermostability. Molecular and Cellular Biochemistry, 2013, 373, 149-159. | 3.1 | 19 |
| 52 | 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 |
| 53 | Engineering of a metagenome derived lipase toward thermal tolerance: Effect of asparagine to lysine mutation on the protein surface. Gene, 2012, 491, 264-271. | 2.2 | 39 |
| 54 | Cloning, expression and characterization of a metagenome derived thermoactive/thermostable pectinase. Molecular Biology Reports, 2012, 39, 8353-8361. | 2.3 | 39 |

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|----|---|-----|-----------|
| 55 | Characterization of a thermostable lipase showing loss of secondary structure at ambient temperature. Molecular Biology Reports, 2012, 39, 2795-2804. | 2.3 | 32 |
| 56 | 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. | 2.3 | 45 |
| 57 | Lipid hydrolizing enzymes in virulence: <i>Mycobacterium tuberculosis</i> as a model system. Critical Reviews in Microbiology, 2010, 36, 259-269. | 6.1 | 70 |
| 58 | A thermostable lipolytic enzyme from a thermophilic Bacillus sp.: Purification and characterization. Molecular and Cellular Biochemistry, 2006, 290, 17-22. | 3.1 | 32 |
| 59 | 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. | 1.3 | 23 |
| 60 | Immobilization, stability and esterification studies of a lipase from a Bacillus sp.. Biotechnology and Applied Biochemistry, 2002, 36, 7. | 3.1 | 77 |