

Padmanabhan Balasundaram

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

1,711
citations

840776

11
h-index

610901

24
g-index

28
all docs

28
docs citations

28
times ranked

2680
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural Basis for Defects of Keap1 Activity Provoked by Its Point Mutations in Lung Cancer. <i>Molecular Cell</i> , 2006, 21, 689-700.	9.7	631
2	Different Electrostatic Potentials Define ETGE and DLG Motifs as Hinge and Latch in Oxidative Stress Response. <i>Molecular and Cellular Biology</i> , 2007, 27, 7511-7521.	2.3	370
3	The Keap1-Nrf2 pathway: promising therapeutic target to counteract ROS-mediated damage in cancers and neurodegenerative diseases. <i>Biophysical Reviews</i> , 2017, 9, 41-56.	3.2	286
4	Real-Time Imaging of Histone H4K12-Specific Acetylation Determines the Modes of Action of Histone Deacetylase and Bromodomain Inhibitors. <i>Chemistry and Biology</i> , 2011, 18, 495-507.	6.0	99
5	Bromodomain and extra-terminal (BET) family proteins: New therapeutic targets in major diseases. <i>Journal of Biosciences</i> , 2016, 41, 295-311.	1.1	86
6	Structural insights into the multiple binding modes of Dimethyl Fumarate (DMF) and its analogs to the Kelch domain of Keap1. <i>FEBS Journal</i> , 2021, 288, 1599-1613.	4.7	41
7	Identification of a repurposed drug as an inhibitor of Spike protein of human coronavirus SARS-CoV-2 by computational methods. <i>Journal of Biosciences</i> , 2020, 45, 1.	1.1	40
8	Muscle biopsies from human muscle diseases with myopathic pathology reveal common alterations in mitochondrial function. <i>Journal of Neurochemistry</i> , 2016, 138, 174-191.	3.9	33
9	Assessment of ligand binding at a site relevant to SOD1 oxidation and aggregation. <i>FEBS Letters</i> , 2018, 592, 1725-1737.	2.8	20
10	Inhibition of mitochondrial complex II in neuronal cells triggers unique pathways culminating in autophagy with implications for neurodegeneration. <i>Scientific Reports</i> , 2021, 11, 1483.	3.3	16
11	Identification of New Inhibitors for Human SIRT1: An in-silico Approach. <i>Medicinal Chemistry</i> , 2016, 12, 347-361.	1.5	15
12	Rational discovery of a SOD1 tryptophan oxidation inhibitor with therapeutic potential for amyotrophic lateral sclerosis. <i>Journal of Biomolecular Structure and Dynamics</i> , 2019, 37, 3936-3946.	3.5	11
13	Molecular insights into α -synuclein interaction with individual human core histones, linker histone, and dsDNA. <i>Protein Science</i> , 2021, 30, 2121-2131.	7.6	11
14	A Novel Phenanthridinone Based Scaffold As a Potential Inhibitor of the BRD2 Bromodomain: Crystal Structure of the Complex. <i>PLoS ONE</i> , 2016, 11, e0156344.	2.5	11
15	Design, synthesis, in-vitro evaluation and molecular docking studies of novel indole derivatives as inhibitors of SIRT1 and SIRT2. <i>Bioorganic Chemistry</i> , 2019, 92, 103281.	4.1	9
16	Insights into the crystal structure of BRD2-BD2 phenanthridinone complex and theoretical studies on phenanthridinone analogs. <i>Journal of Biomolecular Structure and Dynamics</i> , 2018, 36, 2342-2360.	3.5	6
17	Novel pyrano 1,3 oxazine based ligand inhibits the epigenetic reader hBRD2 in glioblastoma. <i>Biochemical Journal</i> , 2020, 477, 2263-2279.	3.7	5
18	Chlorhexidine as a Keap1-Nrf2 inhibitor: a new target for an old drug for Parkinson's disease therapy. <i>Journal of Biomolecular Structure and Dynamics</i> , 2023, 41, 5367-5381.	3.5	5

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19	Identification of novel modulators for ionotropic glutamate receptor, iGluA2 by in-silico screening. Theoretical Biology and Medical Modelling, 2013, 10, 46.	2.1	4
20	Purification, crystallization and preliminary X-ray diffraction of the C-terminal bromodomain from human BRD2. Acta Crystallographica Section F: Structural Biology Communications, 2007, 63, 613-615.	0.7	3
21	Biochemical insight into pseudouridine synthase 7 (PUS7) as a novel interactor of sirtuin, SIRT1. Biochemical and Biophysical Research Communications, 2019, 518, 598-604.	2.1	2
22	Crystal structure of the MazG-related nucleoside triphosphate pyrophosphohydrolase from Thermotoga maritima MSB8. Journal of Structural and Functional Genomics, 2015, 16, 81-89.	1.2	1
23	A Dominant C150Y Mutation in FHL1 Induces Structural Alterations in LIM2 Domain Causing Protein Aggregation In Human and Drosophila Indirect Flight Muscles. Journal of Molecular Neuroscience, 2021, 71, 2324-2335.	2.3	1
24	In silico screening of small molecule modulators and their binding studies against human sirtuin-6 protein. Journal of Biomolecular Structure and Dynamics, 2022, 40, 10033-10044.	3.5	1
25	Crystal structure of putative CbiT from Methanocaldococcus jannaschii: an intermediate enzyme activity in cobalamin (vitamin B12) biosynthesis. BMC Structural Biology, 2013, 13, 10.	2.3	0
26	Structure of the hypothetical DUF1811-family protein GK0453 from Geobacillus kaustophilus HTA426. Acta Crystallographica Section F: Structural Biology Communications, 2013, 69, 342-345.	0.7	0
27	Structural investigation of a pyrano-1,3-oxazine derivative and the phenanthridinone core moiety against BRD2 bromodomains. Acta Crystallographica Section F, Structural Biology Communications, 2022, 78, 119-127.	0.8	0