

Rachna Chaba

List of Publications by Year in descending order

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17
papers

1,707
citations

840776

11
h-index

888059

17
g-index

18
all docs

18
docs citations

18
times ranked

2509
citing authors

#	ARTICLE	IF	CITATIONS
1	Phenotypic Landscape of a Bacterial Cell. <i>Cell</i> , 2011, 144, 143-156.	28.9	623
2	Selective Ribosome Profiling Reveals the Cotranslational Chaperone Action of Trigger Factor In Vivo. <i>Cell</i> , 2011, 147, 1295-1308.	28.9	419
3	Dual Molecular Signals Mediate the Bacterial Response to Outer-Membrane Stress. <i>Science</i> , 2013, 340, 837-841.	12.6	159
4	Fine-tuning of the <i>Escherichia coli</i> σ^E envelope stress response relies on multiple mechanisms to inhibit signal-independent proteolysis of the transmembrane anti- σ factor, RseA. <i>Genes and Development</i> , 2004, 18, 2686-2697.	5.9	109
5	Design principles of the proteolytic cascade governing the σ^E -mediated envelope stress response in <i>Escherichia coli</i> : keys to graded, buffered, and rapid signal transduction. <i>Genes and Development</i> , 2007, 21, 124-136.	5.9	101
6	Evidence that a eukaryotic-type serine/threonine protein kinase from <i>Mycobacterium tuberculosis</i> regulates morphological changes associated with cell division. <i>FEBS Journal</i> , 2002, 269, 1078-1085.	0.2	92
7	Signal integration by DegS and RseB governs the σ^E -mediated envelope stress response in <i>Escherichia coli</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 2106-2111.	7.1	63
8	A genome-wide screen in <i>Escherichia coli</i> reveals that ubiquinone is a key antioxidant for metabolism of long-chain fatty acids. <i>Journal of Biological Chemistry</i> , 2017, 292, 20086-20099.	3.4	32
9	Interdomain Interaction Reconstitutes the Functionality of PknA, a Eukaryotic Type Ser/Thr Kinase from <i>Mycobacterium tuberculosis</i> . <i>Journal of Biological Chemistry</i> , 2008, 283, 8023-8033.	3.4	26
10	B-subunit of Phosphate-specific Transporter from <i>Mycobacterium tuberculosis</i> Is a Thermostable ATPase. <i>Journal of Biological Chemistry</i> , 2001, 276, 44590-44597.	3.4	24
11	Molecular and Functional Insights into the Regulation of σ^D -Galactonate Metabolism by the Transcriptional Regulator DgoR in <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 2019, 201, .	2.2	14
12	The excised heat-shock domain of β crystallin is a folded, proteolytically susceptible trimer with significant surface hydrophobicity and a tendency to self-aggregate upon heating. <i>Protein Expression and Purification</i> , 2004, 36, 263-271.	1.3	11
13	Analyzing the Interaction of RseA and RseB, the Two Negative Regulators of the σ^E Envelope Stress Response, Using a Combined Bioinformatic and Experimental Strategy. <i>Journal of Biological Chemistry</i> , 2009, 284, 5403-5413.	3.4	11
14	Molecular insights into effector binding by DgoR, a GntR/FadR family transcriptional repressor of σ^D -galactonate metabolism in <i>Escherichia coli</i> . <i>Molecular Microbiology</i> , 2021, 115, 591-609.	2.5	8
15	Revisiting long-chain fatty acid metabolism in <i>Escherichia coli</i> : integration with stress responses. <i>Current Genetics</i> , 2021, 67, 573-582.	1.7	8
16	Metabolism of long-chain fatty acids affects disulfide bond formation in <i>Escherichia coli</i> and activates envelope stress response pathways as a combat strategy. <i>PLoS Genetics</i> , 2020, 16, e1009081.	3.5	6
17	Ubiquinone is a Key Antioxidant during Long Chain Fatty Acid Metabolism in <i>Escherichia coli</i> . <i>FASEB Journal</i> , 2018, 32, 538.3.	0.5	1