Rajendra K Agrawal

List of Publications by Year
in descending order

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Version: 2024-02-01

28	2,317	361413	552781
papers	citations	20 h-index	26 g-index

29	29	29	2272
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A model of protein synthesis based on cryo-electron microscopy of the E. coli ribosome. Nature, 1995, 376, 441-444.	27.8	396
2	Structure of the Mammalian Mitochondrial Ribosome Reveals an Expanded Functional Role for Its Component Proteins. Cell, 2003, 115, 97-108.	28.9	317
3	EF-G-dependent GTP hydrolysis induces translocation accompanied by large conformational changes in the 70S ribosome. Nature Structural Biology, 1999, 6, 643-647.	9.7	282
4	Fragile X Mental Retardation Protein Regulates Translation by Binding Directly to the Ribosome. Molecular Cell, 2014, 54, 407-417.	9.7	215
5	Visualization of ribosome-recycling factor on theEscherichia coli70S ribosome: Functional implications. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 8900-8905.	7.1	147
6	Cryo-EM study of the spinach chloroplast ribosome reveals the structural and functional roles of plastid-specific ribosomal proteins. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 19315-19320.	7.1	101
7	Interaction of the Gâ€² Domain of Elongation Factor G and the C-Terminal Domain of Ribosomal Protein L7/L12 during Translocation as Revealed by Cryo-EM. Molecular Cell, 2005, 20, 723-731.	9.7	92
8	A Single Mammalian Mitochondrial Translation Initiation Factor Functionally Replaces Two Bacterial Factors. Molecular Cell, 2008, 29, 180-190.	9.7	90
9	A Structural Model for the Large Subunit of the Mammalian Mitochondrial Ribosome. Journal of Molecular Biology, 2006, 358, 193-212.	4.2	85
10	Cryo-EM structure of the small subunit of the mammalian mitochondrial ribosome. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 7284-7289.	7.1	72
11	PSRP1 Is Not a Ribosomal Protein, but a Ribosome-binding Factor That Is Recycled by the Ribosome-recycling Factor (RRF) and Elongation Factor G (EF-G). Journal of Biological Chemistry, 2010, 285, 4006-4014.	3.4	66
12	Zinc depletion induces ribosome hibernation in mycobacteria. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 8191-8196.	7.1	64
13	Insertion domain within mammalian mitochondrial translation initiation factor 2 serves the role of eubacterial initiation factor 1. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 3918-3923.	7.1	51
14	Progression of the Ribosome Recycling Factor through the Ribosome Dissociates the Two Ribosomal Subunits. Molecular Cell, 2007, 27, 250-261.	9.7	50
15	Structural insights into initial and intermediate steps of the ribosome-recycling process. EMBO Journal, 2012, 31, 1836-1846.	7.8	43
16	Initial bridges between two ribosomal subunits are formed within 9.4 milliseconds, as studied by time-resolved cryo-EM. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 9822-9827.	7.1	40
17	Structural aspects of mitochondrial translational apparatus. Current Opinion in Structural Biology, 2012, 22, 797-803.	5.7	36
18	Structure of Human Mitochondrial Translation Initiation Factor 3 Bound to the Small Ribosomal Subunit. IScience, 2019, 12, 76-86.	4.1	36

#	Article	IF	Citations
19	Structures of the human mitochondrial ribosome bound to EF-G1 reveal distinct features of mitochondrial translation elongation. Nature Communications, 2020, 11, 3830.	12.8	36
20	Structural insights into unique features of the human mitochondrial ribosome recycling. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 8283-8288.	7.1	33
21	The 55S mammalian mitochondrial ribosome and its tRNA-exit region. Biochimie, 2015, 114, 119-126.	2.6	18
22	Ribosome hibernation: a new molecular framework for targeting nonreplicating persisters of mycobacteria. Microbiology (United Kingdom), 2021, 167, .	1.8	16
23	Insights into Structural Basis of Mammalian Mitochondrial Translation. , 2013, , 1-28.		9
24	Reply to Tobiasson et al.: Zinc depletion is a specific signal for induction of ribosome hibernation in mycobacteria. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 2398-2399.	7.1	8
25	Distinct mechanisms of the human mitoribosome recycling and antibiotic resistance. Nature Communications, 2021, 12, 3607.	12.8	7
26	Replacement of S14 Protein in Ribosomes of Zinc-Starved Mycobacteria Reduces Spectinamide Sensitivity. Antimicrobial Agents and Chemotherapy, 2021, 65, .	3.2	3
27	Joachim Frank's Binding with the Ribosome. Structure, 2019, 27, 411-419.	3.3	1
28	Purification of Hibernating and Active Câ^' Ribosomes from Zinc-Starved Mycobacteria. Methods in Molecular Biology, 2021, 2314, 151-166.	0.9	1