

Rachel Green

List of Publications by Year in descending order

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110
papers

12,687
citations

28190

55
h-index

30848

102
g-index

133
all docs

133
docs citations

133
times ranked

12576
citing authors

#	ARTICLE	IF	CITATIONS
1	miRNA-Mediated Gene Silencing by Translational Repression Followed by mRNA Deadenylation and Decay. <i>Science</i> , 2012, 336, 237-240.	6.0	765
2	Inhibition of eukaryotic translation elongation by cycloheximide and lactimidomycin. <i>Nature Chemical Biology</i> , 2010, 6, 209-217.	3.9	757
3	A Parsimonious Model for Gene Regulation by miRNAs. <i>Science</i> , 2011, 331, 550-553.	6.0	442
4	Hypusine-containing protein eIF5A promotes translation elongation. <i>Nature</i> , 2009, 459, 118-121.	13.7	361
5	eIF5A Functions Globally in Translation Elongation and Termination. <i>Molecular Cell</i> , 2017, 66, 194-205.e5.	4.5	352
6	Ribosomopathies: Thereâ€™s strength in numbers. <i>Science</i> , 2017, 358, .	6.0	343
7	Dom34 Rescues Ribosomes in 3â€™ Untranslated Regions. <i>Cell</i> , 2014, 156, 950-962.	13.5	342
8	Translation drives mRNA quality control. <i>Nature Structural and Molecular Biology</i> , 2012, 19, 594-601.	3.6	334
9	The Elongation, Termination, and Recycling Phases of Translation in Eukaryotes. <i>Cold Spring Harbor Perspectives in Biology</i> , 2012, 4, a013706-a013706.	2.3	328
10	Fidelity at the Molecular Level: Lessons from Protein Synthesis. <i>Cell</i> , 2009, 136, 746-762.	13.5	323
11	The Active Site of the Ribosome Is Composed of Two Layers of Conserved Nucleotides with Distinct Roles in Peptide Bond Formation and Peptide Release. <i>Cell</i> , 2004, 117, 589-599.	13.5	315
12	Dom34:Hbs1 Promotes Subunit Dissociation and Peptidyl-tRNA Drop-Off to Initiate No-Go Decay. <i>Science</i> , 2010, 330, 369-372.	6.0	274
13	Substrate-assisted catalysis of peptide bond formation by the ribosome. <i>Nature Structural and Molecular Biology</i> , 2004, 11, 1101-1106.	3.6	264
14	Ribosome Collisions Trigger General Stress Responses to Regulate Cell Fate. <i>Cell</i> , 2020, 182, 404-416.e14.	13.5	253
15	A base pair between tRNA and 23S rRNA in the peptidyl transferase centre of the ribosome. <i>Nature</i> , 1995, 377, 309-314.	13.7	250
16	High-Resolution Ribosome Profiling Defines Discrete Ribosome Elongation States and Translational Regulation during Cellular Stress. <i>Molecular Cell</i> , 2019, 73, 959-970.e5.	4.5	234
17	The DEAD-Box Protein Dhh1p Couples mRNA Decay and Translation by Monitoring Codon Optimality. <i>Cell</i> , 2016, 167, 122-132.e9.	13.5	232
18	Kinetic analysis reveals the ordered coupling of translation termination and ribosome recycling in yeast. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, E1392-8.	3.3	225

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19	Visualization of the Hybrid State of tRNA Binding Promoted by Spontaneous Ratcheting of the Ribosome. <i>Molecular Cell</i> , 2008, 32, 190-197.	4.5	224
20	High-Precision Analysis of Translational Pausing by Ribosome Profiling in Bacteria Lacking EFP. <i>Cell Reports</i> , 2015, 11, 13-21.	2.9	219
21	Structural basis of highly conserved ribosome recycling in eukaryotes and archaea. <i>Nature</i> , 2012, 482, 501-506.	13.7	210
22	Quality control by the ribosome following peptide bond formation. <i>Nature</i> , 2009, 457, 161-166.	13.7	193
23	An Active Role for tRNA in Decoding Beyond Codon:Anticodon Pairing. <i>Science</i> , 2005, 308, 1178-1180.	6.0	192
24	Rli1/ABCE1 Recycles Terminating Ribosomes and Controls Translation Reinitiation in 3' UTRs In Vivo. <i>Cell</i> , 2015, 162, 872-884.	13.5	184
25	Can Multidrug-Resistant <i>Candida auris</i> Be Reliably Identified in Clinical Microbiology Laboratories?. <i>Journal of Clinical Microbiology</i> , 2017, 55, 638-640.	1.8	181
26	Roadblocks and resolutions in eukaryotic translation. <i>Nature Reviews Molecular Cell Biology</i> , 2018, 19, 526-541.	16.1	177
27	Precision genome editing using synthesis-dependent repair of Cas9-induced DNA breaks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E10745-E10754.	3.3	175
28	Clarifying the Translational Pausing Landscape in Bacteria by Ribosome Profiling. <i>Cell Reports</i> , 2016, 14, 686-694.	2.9	161
29	A systematically-revised ribosome profiling method for bacteria reveals pauses at single-codon resolution. <i>ELife</i> , 2019, 8, .	2.8	161
30	Translation Elongation and Recoding in Eukaryotes. <i>Cold Spring Harbor Perspectives in Biology</i> , 2018, 10, a032649.	2.3	154
31	Ribosome pausing, arrest and rescue in bacteria and eukaryotes. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2017, 372, 20160183.	1.8	149
32	The endonuclease Cue2 cleaves mRNAs at stalled ribosomes during No Go Decay. <i>ELife</i> , 2019, 8, .	2.8	139
33	Transformation of Chemically Competent <i>E. coli</i> . <i>Methods in Enzymology</i> , 2013, 529, 329-336.	0.4	129
34	One-dimensional SDS-Polyacrylamide Gel Electrophoresis (1D SDS-PAGE). <i>Methods in Enzymology</i> , 2014, 541, 151-159.	0.4	129
35	Stop codon context influences genome-wide stimulation of termination codon readthrough by aminoglycosides. <i>ELife</i> , 2020, 9, .	2.8	122
36	GIGYF2 and 4EHP Inhibit Translation Initiation of Defective Messenger RNAs to Assist Ribosome-Associated Quality Control. <i>Molecular Cell</i> , 2020, 79, 950-962.e6.	4.5	119

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37	Dynamic Regulation of a Ribosome Rescue Pathway in Erythroid Cells and Platelets. <i>Cell Reports</i> , 2016, 17, 1-10.	2.9	117
38	Mutational Analysis of S12 Protein and Implications for the Accuracy of Decoding by the Ribosome. <i>Journal of Molecular Biology</i> , 2007, 374, 1065-1076.	2.0	114
39	Molecular mechanism of translational stalling by inhibitory codon combinations and poly(A) tracts. <i>EMBO Journal</i> , 2020, 39, e103365.	3.5	113
40	Analysis of Dom34 and Its Function in No-Go Decay. <i>Molecular Biology of the Cell</i> , 2009, 20, 3025-3032.	0.9	108
41	Cryoelectron Microscopic Structures of Eukaryotic Translation Termination Complexes Containing eRF1-eRF3 or eRF1-ABCE1. <i>Cell Reports</i> , 2014, 8, 59-65.	2.9	105
42	Ribosomes slide on lysine-encoding homopolymeric A stretches. <i>ELife</i> , 2015, 4, .	2.8	98
43	Connections Underlying Translation and mRNA Stability. <i>Journal of Molecular Biology</i> , 2016, 428, 3558-3564.	2.0	97
44	EDF1 coordinates cellular responses to ribosome collisions. <i>ELife</i> , 2020, 9, .	2.8	96
45	Translational control by lysine-encoding A-rich sequences. <i>Science Advances</i> , 2015, 1, .	4.7	94
46	Two Distinct Components of Release Factor Function Uncovered by Nucleophile Partitioning Analysis. <i>Molecular Cell</i> , 2007, 28, 458-467.	4.5	90
47	Peptide Release on the Ribosome: Mechanism and Implications for Translational Control. <i>Annual Review of Microbiology</i> , 2008, 62, 353-373.	2.9	88
48	The interaction between C75 of tRNA and the A loop of the ribosome stimulates peptidyl transferase activity. <i>Rna</i> , 2006, 12, 33-39.	1.6	87
49	Coomassie Blue Staining. <i>Methods in Enzymology</i> , 2014, 541, 161-167.	0.4	77
50	Translation of poly(A) tails leads to precise mRNA cleavage. <i>Rna</i> , 2017, 23, 749-761.	1.6	77
51	Ribosome states signal RNA quality control. <i>Molecular Cell</i> , 2021, 81, 1372-1383.	4.5	75
52	Affinity purification of in vivo-assembled ribosomes for in vitro biochemical analysis. <i>Methods</i> , 2005, 36, 305-312.	1.9	74
53	Dom34-Hbs1 mediated dissociation of inactive 80S ribosomes promotes restart of translation after stress. <i>EMBO Journal</i> , 2014, 33, n/a-n/a.	3.5	74
54	Translational initiation in <i>E. coli</i> occurs at the correct sites genome-wide in the absence of mRNA-rRNA base-pairing. <i>ELife</i> , 2020, 9, .	2.8	73

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55	Assaying RNA structure with LASER-Seq. <i>Nucleic Acids Research</i> , 2019, 47, 43-55.	6.5	69
56	Translational control of stem cell function. <i>Nature Reviews Molecular Cell Biology</i> , 2021, 22, 671-690.	16.1	69
57	Slowed decay of mRNAs enhances platelet specific translation. <i>Blood</i> , 2017, 129, e38-e48.	0.6	68
58	Stop Codon Recognition by Release Factors Induces Structural Rearrangement of the Ribosomal Decoding Center that Is Productive for Peptide Release. <i>Molecular Cell</i> , 2007, 28, 533-543.	4.5	66
59	Regulated Ire1-dependent mRNA decay requires no-go mRNA degradation to maintain endoplasmic reticulum homeostasis in <i>S. pombe</i> . <i>ELife</i> , 2017, 6, .	2.8	64
60	Allosteric regulation of Argonaute proteins by miRNAs. <i>Nature Structural and Molecular Biology</i> , 2010, 17, 144-150.	3.6	60
61	Ribosome queuing enables non-AUG translation to be resistant to multiple protein synthesis inhibitors. <i>Genes and Development</i> , 2019, 33, 871-885.	2.7	60
62	A small molecule that induces translational readthrough of CFTR nonsense mutations by eRF1 depletion. <i>Nature Communications</i> , 2021, 12, 4358.	5.8	59
63	Mutational analysis reveals two independent molecular requirements during transfer RNA selection on the ribosome. <i>Nature Structural and Molecular Biology</i> , 2007, 14, 30-36.	3.6	55
64	Puromycin reactivity does not accurately localize translation at the subcellular level. <i>ELife</i> , 2020, 9, .	2.8	51
65	Ribosome collisions induce mRNA cleavage and ribosome rescue in bacteria. <i>Nature</i> , 2022, 603, 503-508.	13.7	50
66	Recognition of aminoacyl-tRNA: a common molecular mechanism revealed by cryo-EM. <i>EMBO Journal</i> , 2008, 27, 3322-3331.	3.5	49
67	An evolutionarily conserved ribosome-rescue pathway maintains epidermal homeostasis. <i>Nature</i> , 2018, 556, 376-380.	13.7	47
68	Peptide release on the ribosome depends critically on the 2' OH of the peptidyl-tRNA substrate. <i>Rna</i> , 2008, 14, 1526-1531.	1.6	41
69	Inhibition of Eukaryotic Translation by the Antitumor Natural Product Agelastatin A. <i>Cell Chemical Biology</i> , 2017, 24, 605-613.e5.	2.5	41
70	Regulation of Argonaute Slicer Activity by Guide RNA 3' End Interactions with the N-terminal Lobe. <i>Journal of Biological Chemistry</i> , 2013, 288, 7829-7840.	1.6	40
71	The Path to Perdition Is Paved with Protons. <i>Cell</i> , 2002, 110, 665-668.	13.5	36
72	Structure of a conserved RNA component of the peptidyl transferase centre. <i>Nature Structural Biology</i> , 1997, 4, 775-778.	9.7	35

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73	Distinct response of yeast ribosomes to a miscoding event during translation. <i>Rna</i> , 2011, 17, 925-932.	1.6	34
74	RF3:GTP promotes rapid dissociation of the class 1 termination factor. <i>Rna</i> , 2014, 20, 609-620.	1.6	34
75	Mechanisms that ensure speed and fidelity in eukaryotic translation termination. <i>Science</i> , 2021, 373, 876-882.	6.0	33
76	An expanded seed sequence definition accounts for full regulation of the 3' UTR by bantam miRNA. <i>Rna</i> , 2009, 15, 814-822.	1.6	32
77	Eukaryotic Release Factor 3 Is Required for Multiple Turnovers of Peptide Release Catalysis by Eukaryotic Release Factor 1. <i>Journal of Biological Chemistry</i> , 2013, 288, 29530-29538.	1.6	31
78	Peptidyl transferase activity catalyzed by protein-free 23S ribosomal RNA remains elusive. <i>Rna</i> , 1999, 5, 605-608.	1.6	30
79	In Vitro Transcription from Plasmid or PCR-amplified DNA. <i>Methods in Enzymology</i> , 2013, 530, 101-114.	0.4	29
80	Distinct Roles for Release Factor 1 and Release Factor 2 in Translational Quality Control. <i>Journal of Biological Chemistry</i> , 2014, 289, 17589-17596.	1.6	29
81	Nuclease-mediated depletion biases in ribosome footprint profiling libraries. <i>Rna</i> , 2020, 26, 1481-1488.	1.6	29
82	Visualization of codon-dependent conformational rearrangements during translation termination. <i>Nature Structural and Molecular Biology</i> , 2010, 17, 465-470.	3.6	28
83	<i>Saccharomyces cerevisiae</i> Ski7 Is a GTP-Binding Protein Adopting the Characteristic Conformation of Active Translational GTPases. <i>Structure</i> , 2015, 23, 1336-1343.	1.6	26
84	Translational repression of NMD targets by GIGYF2 and EIF4E2. <i>PLoS Genetics</i> , 2021, 17, e1009813.	1.5	25
85	Evolutionarily conserved inhibitory uORFs sensitize Hox mRNA translation to start codon selection stringency. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	25
86	Inhibition of eukaryotic translation elongation by the antitumor natural product Mycalamide B. <i>Rna</i> , 2011, 17, 1578-1588.	1.6	23
87	Live-cell imaging reveals kinetic determinants of quality control triggered by ribosome stalling. <i>Molecular Cell</i> , 2021, 81, 1830-1840.e8.	4.5	23
88	Polysome Analysis of Mammalian Cells. <i>Methods in Enzymology</i> , 2013, 530, 183-192.	0.4	19
89	Yeast translation elongation factor eEF3 promotes late stages of tRNA translocation. <i>EMBO Journal</i> , 2021, 40, e106449.	3.5	19
90	Ribosome recycling is not critical for translational coupling in <i>Escherichia coli</i> . <i>ELife</i> , 2020, 9, .	2.8	19

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91	Kinetic basis for global loss of fidelity arising from mismatches in the P-site codon:anticodon helix. <i>Rna</i> , 2010, 16, 1980-1989.	1.6	18
92	Rapid generation of hypomorphic mutations. <i>Nature Communications</i> , 2017, 8, 14112.	5.8	15
93	Synthesis at the Speed of Codons. <i>Trends in Biochemical Sciences</i> , 2015, 40, 717-718.	3.7	14
94	The ABC(E1)s of Ribosome Recycling and Reinitiation. <i>Molecular Cell</i> , 2017, 66, 578-580.	4.5	14
95	Functional elucidation of a key contact between tRNA and the large ribosomal subunit rRNA during decoding. <i>Rna</i> , 2010, 16, 2002-2013.	1.6	13
96	Directed hydroxyl radical probing reveals Upf1 binding to the 80S ribosomal E site rRNA at the L1 stalk. <i>Nucleic Acids Research</i> , 2018, 46, 2060-2073.	6.5	13
97	The ribosome revealed. , 1999, 6, 999-1003.		10
98	Bifunctional Nitro-Conjugated Secondary Metabolite Targeting the Ribosome. <i>Journal of the American Chemical Society</i> , 2020, 142, 18369-18377.	6.6	7
99	In Vitro Synthesis of Proteins in Bacterial Extracts. <i>Methods in Enzymology</i> , 2014, 539, 3-15.	0.4	4
100	When stop makes sense. <i>Science</i> , 2016, 354, 1106-1106.	6.0	4
101	Not just Salk. <i>Science</i> , 2017, 357, 1105-1106.	6.0	4
102	Exploring the Mechanism of Dhh1-Mediated Translational Repression. <i>Biophysical Journal</i> , 2015, 108, 391a.	0.2	1
103	Studies on the Structure and Function of Ribosomes by Combined Use of Chemical Probing and X-Ray Crystallography. , 0, , 127-150.		1
104	Make or break: the ribosome as a regulator of mRNA decay. <i>Cell Research</i> , 2020, 30, 195-196.	5.7	0
105	Catalysis And Communication In Two Active Sites Of The Ribosome. <i>FASEB Journal</i> , 2007, 21, .	0.2	0
106	Conformational flexibility required for class I release factor function. <i>FASEB Journal</i> , 2007, 21, A647.	0.2	0
107	Mechanistic studies of ribosome function and potential implications for translational control. <i>FASEB Journal</i> , 2008, 22, 398.2.	0.2	0
108	Hypusine-containing Protein eIF5A Promotes Translation Elongation. <i>FASEB Journal</i> , 2010, 24, 79.2.	0.2	0

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109	mRNA surveillance is driven by translation. FASEB Journal, 2013, 27, 325.3.	0.2	0
110	Structural characterization of mRNA-tRNA translocation intermediates. journal of hand surgery Asian-Pacific volume, The, 2018, , 450-455.	0.2	0