

# Rachel Green

## List of Publications by Year in descending order

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110  
papers

12,687  
citations

28274  
55  
h-index

30922  
102  
g-index

133  
all docs

133  
docs citations

133  
times ranked

12576  
citing authors

#	ARTICLE	IF	CITATIONS
1	Evolutionarily conserved inhibitory uORFs sensitize <i>Hox</i> mRNA translation to start codon selection stringency. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	25
2	Ribosome collisions induce mRNA cleavage and ribosome rescue in bacteria. Nature, 2022, 603, 503-508.	27.8	50
3	Yeast translation elongation factor eEF3 promotes late stages of tRNA translocation. EMBO Journal, 2021, 40, e106449.	7.8	19
4	Live-cell imaging reveals kinetic determinants of quality control triggered by ribosome stalling. Molecular Cell, 2021, 81, 1830-1840.e8.	9.7	23
5	Ribosome states signal RNA quality control. Molecular Cell, 2021, 81, 1372-1383.	9.7	75
6	Translational control of stem cell function. Nature Reviews Molecular Cell Biology, 2021, 22, 671-690.	37.0	69
7	A small molecule that induces translational readthrough of CFTR nonsense mutations by eRF1 depletion. Nature Communications, 2021, 12, 4358.	12.8	59
8	Mechanisms that ensure speed and fidelity in eukaryotic translation termination. Science, 2021, 373, 876-882.	12.6	33
9	Translational repression of NMD targets by GIGYF2 and EIF4E2. PLoS Genetics, 2021, 17, e1009813.	3.5	25
10	Make or break: the ribosome as a regulator of mRNA decay. Cell Research, 2020, 30, 195-196.	12.0	0
11	Molecular mechanism of translational stalling by inhibitory codon combinations and poly(A) tracts. EMBO Journal, 2020, 39, e103365.	7.8	113
12	Bifunctional Nitrone-Conjugated Secondary Metabolite Targeting the Ribosome. Journal of the American Chemical Society, 2020, 142, 18369-18377.	13.7	7
13	GIGYF2 and 4EHP Inhibit Translation Initiation of Defective Messenger RNAs to Assist Ribosome-Associated Quality Control. Molecular Cell, 2020, 79, 950-962.e6.	9.7	119
14	Nuclease-mediated depletion biases in ribosome footprint profiling libraries. Rna, 2020, 26, 1481-1488.	3.5	29
15	Ribosome Collisions Trigger General Stress Responses to Regulate Cell Fate. Cell, 2020, 182, 404-416.e14.	28.9	253
16	Stop codon context influences genome-wide stimulation of termination codon readthrough by aminoglycosides. ELife, 2020, 9, .	6.0	122
17	Translational initiation in E. coli occurs at the correct sites genome-wide in the absence of mRNA-rRNA base-pairing. ELife, 2020, 9, .	6.0	73
18	EDF1 coordinates cellular responses to ribosome collisions. ELife, 2020, 9, .	6.0	96

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19	Ribosome recycling is not critical for translational coupling in Escherichia coli. ELife, 2020, 9, .	6.0	19
20	Puromycin reactivity does not accurately localize translation at the subcellular level. ELife, 2020, 9, .	6.0	51
21	High-Resolution Ribosome Profiling Defines Discrete Ribosome Elongation States and Translational Regulation during Cellular Stress. Molecular Cell, 2019, 73, 959-970.e5.	9.7	234
22	Ribosome queuing enables non-AUG translation to be resistant to multiple protein synthesis inhibitors. Genes and Development, 2019, 33, 871-885.	5.9	60
23	A systematically-revised ribosome profiling method for bacteria reveals pauses at single-codon resolution. ELife, 2019, 8, .	6.0	161
24	Assaying RNA structure with LASER-Seq. Nucleic Acids Research, 2019, 47, 43-55.	14.5	69
25	The endonuclease Cue2 cleaves mRNAs at stalled ribosomes during No Go Decay. ELife, 2019, 8, .	6.0	139
26	Translation Elongation and Recoding in Eukaryotes. Cold Spring Harbor Perspectives in Biology, 2018, 10, a032649.	5.5	154
27	An evolutionarily conserved ribosome-rescue pathway maintains epidermal homeostasis. Nature, 2018, 556, 376-380.	27.8	47
28	Directed hydroxyl radical probing reveals Upf1 binding to the 80S ribosomal E site rRNA at the L1 stalk. Nucleic Acids Research, 2018, 46, 2060-2073.	14.5	13
29	Roadblocks and resolutions in eukaryotic translation. Nature Reviews Molecular Cell Biology, 2018, 19, 526-541.	37.0	177
30	Structural characterization of mRNA-tRNA translocation intermediates. journal of hand surgery Asian-Pacific volume, The, 2018, , 450-455.	0.4	0
31	Rapid generation of hypomorphic mutations. Nature Communications, 2017, 8, 14112.	12.8	15
32	Slowed decay of mRNAs enhances platelet specific translation. Blood, 2017, 129, e38-e48.	1.4	68
33	Ribosome pausing, arrest and rescue in bacteria and eukaryotes. Philosophical Transactions of the Royal Society B: Biological Sciences, 2017, 372, 20160183.	4.0	149
34	Translation of poly(A) tails leads to precise mRNA cleavage. Rna, 2017, 23, 749-761.	3.5	77
35	Inhibition of Eukaryotic Translation by the Antitumor Natural Product Agelastatin A. Cell Chemical Biology, 2017, 24, 605-613.e5.	5.2	41
36	The ABC(E1)s of Ribosome Recycling and Reinitiation. Molecular Cell, 2017, 66, 578-580.	9.7	14

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37	eIF5A Functions Globally in Translation Elongation and Termination. <i>Molecular Cell</i> , 2017, 66, 194-205.e5.	9.7	352
38	Ribosomopathies: There's strength in numbers. <i>Science</i> , 2017, 358, .	12.6	343
39	Not just Salk. <i>Science</i> , 2017, 357, 1105-1106.	12.6	4
40	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.	7.1	175
41	Can Multidrug-Resistant <i>Candida auris</i> Be Reliably Identified in Clinical Microbiology Laboratories?. <i>Journal of Clinical Microbiology</i> , 2017, 55, 638-640.	3.9	181
42	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, .	6.0	64
43	When stop makes sense. <i>Science</i> , 2016, 354, 1106-1106.	12.6	4
44	Dynamic Regulation of a Ribosome Rescue Pathway in Erythroid Cells and Platelets. <i>Cell Reports</i> , 2016, 17, 1-10.	6.4	117
45	The DEAD-Box Protein Dhh1p Couples mRNA Decay and Translation by Monitoring Codon Optimality. <i>Cell</i> , 2016, 167, 122-132.e9.	28.9	232
46	Connections Underlying Translation and mRNA Stability. <i>Journal of Molecular Biology</i> , 2016, 428, 3558-3564.	4.2	97
47	Clarifying the Translational Pausing Landscape in Bacteria by Ribosome Profiling. <i>Cell Reports</i> , 2016, 14, 686-694.	6.4	161
48	High-Precision Analysis of Translational Pausing by Ribosome Profiling in Bacteria Lacking EFP. <i>Cell Reports</i> , 2015, 11, 13-21.	6.4	219
49	<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.	3.3	26
50	Exploring the Mechanism of Dhh1-Mediated Translational Repression. <i>Biophysical Journal</i> , 2015, 108, 391a.	0.5	1
51	Synthesis at the Speed of Codons. <i>Trends in Biochemical Sciences</i> , 2015, 40, 717-718.	7.5	14
52	Rli1/ABCE1 Recycles Terminating Ribosomes and Controls Translation Reinitiation in 3' UTRs In Vivo. <i>Cell</i> , 2015, 162, 872-884.	28.9	184
53	Translational control by lysine-encoding A-rich sequences. <i>Science Advances</i> , 2015, 1, .	10.3	94
54	Ribosomes slide on lysine-encoding homopolymeric A stretches. <i>ELife</i> , 2015, 4, .	6.0	98

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55	One-dimensional SDS-Polyacrylamide Gel Electrophoresis (1D SDS-PAGE). Methods in Enzymology, 2014, 541, 151-159.	1.0	129
56	Dom34 Rescues Ribosomes in 3' Untranslated Regions. Cell, 2014, 156, 950-962.	28.9	342
57	Dom34-Hbs1 mediated dissociation of inactive 80S ribosomes promotes restart of translation after stress. EMBO Journal, 2014, 33, n/a-n/a.	7.8	74
58	In Vitro Synthesis of Proteins in Bacterial Extracts. Methods in Enzymology, 2014, 539, 3-15.	1.0	4
59	Cryoelectron Microscopic Structures of Eukaryotic Translation Termination Complexes Containing eRF1-eRF3 or eRF1-ABCE1. Cell Reports, 2014, 8, 59-65.	6.4	105
60	Distinct Roles for Release Factor 1 and Release Factor 2 in Translational Quality Control. Journal of Biological Chemistry, 2014, 289, 17589-17596.	3.4	29
61	Coomassie Blue Staining. Methods in Enzymology, 2014, 541, 161-167.	1.0	77
62	RF3:GTP promotes rapid dissociation of the class 1 termination factor. Rna, 2014, 20, 609-620.	3.5	34
63	Polysome Analysis of Mammalian Cells. Methods in Enzymology, 2013, 530, 183-192.	1.0	19
64	Eukaryotic Release Factor 3 Is Required for Multiple Turnovers of Peptide Release Catalysis by Eukaryotic Release Factor 1. Journal of Biological Chemistry, 2013, 288, 29530-29538.	3.4	31
65	Regulation of Argonaute Slicer Activity by Guide RNA 3' End Interactions with the N-terminal Lobe. Journal of Biological Chemistry, 2013, 288, 7829-7840.	3.4	40
66	In Vitro Transcription from Plasmid or PCR-amplified DNA. Methods in Enzymology, 2013, 530, 101-114.	1.0	29
67	Transformation of Chemically Competent E. coli. Methods in Enzymology, 2013, 529, 329-336.	1.0	129
68	mRNA surveillance is driven by translation. FASEB Journal, 2013, 27, 325.3.	0.5	0
69	Structural basis of highly conserved ribosome recycling in eukaryotes and archaea. Nature, 2012, 482, 501-506.	27.8	210
70	Translation drives mRNA quality control. Nature Structural and Molecular Biology, 2012, 19, 594-601.	8.2	334
71	miRNA-Mediated Gene Silencing by Translational Repression Followed by mRNA Deadenylation and Decay. Science, 2012, 336, 237-240.	12.6	765
72	The Elongation, Termination, and Recycling Phases of Translation in Eukaryotes. Cold Spring Harbor Perspectives in Biology, 2012, 4, a013706-a013706.	5.5	328

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73	Distinct response of yeast ribosomes to a miscoding event during translation. <i>Rna</i> , 2011, 17, 925-932.	3.5	34
74	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.	7.1	225
75	Inhibition of eukaryotic translation elongation by the antitumor natural product Mycalamide B. <i>Rna</i> , 2011, 17, 1578-1588.	3.5	23
76	A Parsimonious Model for Gene Regulation by miRNAs. <i>Science</i> , 2011, 331, 550-553.	12.6	442
77	Allosteric regulation of Argonaute proteins by miRNAs. <i>Nature Structural and Molecular Biology</i> , 2010, 17, 144-150.	8.2	60
78	Visualization of codon-dependent conformational rearrangements during translation termination. <i>Nature Structural and Molecular Biology</i> , 2010, 17, 465-470.	8.2	28
79	Inhibition of eukaryotic translation elongation by cycloheximide and lactimidomycin. <i>Nature Chemical Biology</i> , 2010, 6, 209-217.	8.0	757
80	Kinetic basis for global loss of fidelity arising from mismatches in the P-site codon:anticodon helix. <i>Rna</i> , 2010, 16, 1980-1989.	3.5	18
81	Functional elucidation of a key contact between tRNA and the large ribosomal subunit rRNA during decoding. <i>Rna</i> , 2010, 16, 2002-2013.	3.5	13
82	Dom34:Hbs1 Promotes Subunit Dissociation and Peptidyl-tRNA Drop-Off to Initiate No-Go Decay. <i>Science</i> , 2010, 330, 369-372.	12.6	274
83	Hypusine-containing Protein eIF5A Promotes Translation Elongation. <i>FASEB Journal</i> , 2010, 24, 79.2.	0.5	0
84	An expanded seed sequence definition accounts for full regulation of the 3' UTR by bantam miRNA. <i>Rna</i> , 2009, 15, 814-822.	3.5	32
85	Quality control by the ribosome following peptide bond formation. <i>Nature</i> , 2009, 457, 161-166.	27.8	193
86	Hypusine-containing protein eIF5A promotes translation elongation. <i>Nature</i> , 2009, 459, 118-121.	27.8	361
87	Fidelity at the Molecular Level: Lessons from Protein Synthesis. <i>Cell</i> , 2009, 136, 746-762.	28.9	323
88	Analysis of Dom34 and Its Function in No-Go Decay. <i>Molecular Biology of the Cell</i> , 2009, 20, 3025-3032.	2.1	108
89	Visualization of the Hybrid State of tRNA Binding Promoted by Spontaneous Ratcheting of the Ribosome. <i>Molecular Cell</i> , 2008, 32, 190-197.	9.7	224
90	Recognition of aminoacyl-tRNA: a common molecular mechanism revealed by cryo-EM. <i>EMBO Journal</i> , 2008, 27, 3322-3331.	7.8	49

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91	Peptide Release on the Ribosome: Mechanism and Implications for Translational Control. Annual Review of Microbiology, 2008, 62, 353-373.	7.3	88
92	Peptide release on the ribosome depends critically on the 2' OH of the peptidyl-tRNA substrate. Rna, 2008, 14, 1526-1531.	3.5	41
93	Mechanistic studies of ribosome function and potential implications for translational control. FASEB Journal, 2008, 22, 398.2.	0.5	0
94	Stop Codon Recognition by Release Factors Induces Structural Rearrangement of the Ribosomal Decoding Center that Is Productive for Peptide Release. Molecular Cell, 2007, 28, 533-543.	9.7	66
95	Mutational Analysis of S12 Protein and Implications for the Accuracy of Decoding by the Ribosome. Journal of Molecular Biology, 2007, 374, 1065-1076.	4.2	114
96	Two Distinct Components of Release Factor Function Uncovered by Nucleophile Partitioning Analysis. Molecular Cell, 2007, 28, 458-467.	9.7	90
97	Mutational analysis reveals two independent molecular requirements during transfer RNA selection on the ribosome. Nature Structural and Molecular Biology, 2007, 14, 30-36.	8.2	55
98	Catalysis And Communication In Two Active Sites Of The Ribosome. FASEB Journal, 2007, 21, .	0.5	0
99	Conformational flexibility required for class I release factor function. FASEB Journal, 2007, 21, A647.	0.5	0
100	The interaction between C75 of tRNA and the A loop of the ribosome stimulates peptidyl transferase activity. Rna, 2006, 12, 33-39.	3.5	87
101	An Active Role for tRNA in Decoding Beyond Codon:Anticodon Pairing. Science, 2005, 308, 1178-1180.	12.6	192
102	Affinity purification of in vivo-assembled ribosomes for in vitro biochemical analysis. Methods, 2005, 36, 305-312.	3.8	74
103	Substrate-assisted catalysis of peptide bond formation by the ribosome. Nature Structural and Molecular Biology, 2004, 11, 1101-1106.	8.2	264
104	The Active Site of the Ribosome Is Composed of Two Layers of Conserved Nucleotides with Distinct Roles in Peptide Bond Formation and Peptide Release. Cell, 2004, 117, 589-599.	28.9	315
105	The Path to Perdition Is Paved with Protons. Cell, 2002, 110, 665-668.	28.9	36
106	Peptidyl transferase activity catalyzed by protein-free 23S ribosomal RNA remains elusive. Rna, 1999, 5, 605-608.	3.5	30
107	The ribosome revealed. , 1999, 6, 999-1003.		10
108	Structure of a conserved RNA component of the peptidyl transferase centre. Nature Structural Biology, 1997, 4, 775-778.	9.7	35

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109	A base pair between tRNA and 23S rRNA in the peptidyl transferase centre of the ribosome. Nature, 1995, 377, 309-314.	27.8	250
110	Studies on the Structure and Function of Ribosomes by Combined Use of Chemical Probing and X-Ray Crystallography. , 0, , 127-150.		1