

# Rachel Green

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

114  
papers

9,105  
citations

50  
h-index

95  
g-index

133  
ext. papers

11,170  
ext. citations

16.9  
avg, IF

6.86  
L-index

#	Paper	IF	Citations
114	Evolutionarily conserved inhibitory uORFs sensitize mRNA translation to start codon selection stringency.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2022</b> , 119,	11.5	4
113	Ribosome collisions induce mRNA cleavage and ribosome rescue in bacteria.. <i>Nature</i> , <b>2022</b> ,	50.4	4
112	Translational repression of NMD targets by GIGYF2 and EIF4E2. <i>PLoS Genetics</i> , <b>2021</b> , 17, e1009813	6	9
111	Live-cell imaging reveals kinetic determinants of quality control triggered by ribosome stalling. <i>Molecular Cell</i> , <b>2021</b> , 81, 1830-1840.e8	17.6	6
110	Ribosome states signal RNA quality control. <i>Molecular Cell</i> , <b>2021</b> , 81, 1372-1383	17.6	18
109	Translational control of stem cell function. <i>Nature Reviews Molecular Cell Biology</i> , <b>2021</b> , 22, 671-690	48.7	11
108	A small molecule that induces translational readthrough of CFTR nonsense mutations by eRF1 depletion. <i>Nature Communications</i> , <b>2021</b> , 12, 4358	17.4	12
107	Yeast translation elongation factor eEF3 promotes late stages of tRNA translocation. <i>EMBO Journal</i> , <b>2021</b> , 40, e106449	13	6
106	Mechanisms that ensure speed and fidelity in eukaryotic translation termination. <i>Science</i> , <b>2021</b> , 373, 876-882	33.3	6
105	Nuclease-mediated depletion biases in ribosome footprint profiling libraries. <i>Rna</i> , <b>2020</b> , 26, 1481-1488	5.8	11
104	Ribosome Collisions Trigger General Stress Responses to Regulate Cell Fate. <i>Cell</i> , <b>2020</b> , 182, 404-416.e14	46.2	73
103	Stop codon context influences genome-wide stimulation of termination codon readthrough by aminoglycosides. <i>ELife</i> , <b>2020</b> , 9,	8.9	53
102	Translational initiation in occurs at the correct sites genome-wide in the absence of mRNA-rRNA base-pairing. <i>ELife</i> , <b>2020</b> , 9,	8.9	30
101	EDF1 coordinates cellular responses to ribosome collisions. <i>ELife</i> , <b>2020</b> , 9,	8.9	27
100	Ribosome recycling is not critical for translational coupling in. <i>ELife</i> , <b>2020</b> , 9,	8.9	5
99	Puromycin reactivity does not accurately localize translation at the subcellular level. <i>ELife</i> , <b>2020</b> , 9,	8.9	22
98	Make or break: the ribosome as a regulator of mRNA decay. <i>Cell Research</i> , <b>2020</b> , 30, 195-196	24.7	

97	Molecular mechanism of translational stalling by inhibitory codon combinations and poly(A) tracts. <i>EMBO Journal</i> , <b>2020</b> , 39, e103365	13	56
96	Bifunctional Nitrene-Conjugated Secondary Metabolite Targeting the Ribosome. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 18369-18377	16.4	5
95	GIGYF2 and 4EHP Inhibit Translation Initiation of Defective Messenger RNAs to Assist Ribosome-Associated Quality Control. <i>Molecular Cell</i> , <b>2020</b> , 79, 950-962.e6	17.6	36
94	High-Resolution Ribosome Profiling Defines Discrete Ribosome Elongation States and Translational Regulation during Cellular Stress. <i>Molecular Cell</i> , <b>2019</b> , 73, 959-970.e5	17.6	116
93	Ribosome queuing enables non-AUG translation to be resistant to multiple protein synthesis inhibitors. <i>Genes and Development</i> , <b>2019</b> , 33, 871-885	12.6	32
92	The endonuclease Cue2 cleaves mRNAs at stalled ribosomes during No Go Decay. <i>ELife</i> , <b>2019</b> , 8,	8.9	69
91	A systematically-revised ribosome profiling method for bacteria reveals pauses at single-codon resolution. <i>ELife</i> , <b>2019</b> , 8,	8.9	81
90	Assaying RNA structure with LASER-Seq. <i>Nucleic Acids Research</i> , <b>2019</b> , 47, 43-55	20.1	26
89	Translation Elongation and Recoding in Eukaryotes. <i>Cold Spring Harbor Perspectives in Biology</i> , <b>2018</b> , 10,	10.2	78
88	An evolutionarily conserved ribosome-rescue pathway maintains epidermal homeostasis. <i>Nature</i> , <b>2018</b> , 556, 376-380	50.4	30
87	Directed hydroxyl radical probing reveals Upf1 binding to the 80S ribosomal E site rRNA at the L1 stalk. <i>Nucleic Acids Research</i> , <b>2018</b> , 46, 2060-2073	20.1	9
86	Structural characterization of mRNA-tRNA translocation intermediates. <i>Journal of Hand Surgery Asian-Pacific Volume</i> , <b>2018</b> , 450-455	0.5	
85	Roadblocks and resolutions in eukaryotic translation. <i>Nature Reviews Molecular Cell Biology</i> , <b>2018</b> , 19, 526-541	48.7	98
84	Rapid generation of hypomorphic mutations. <i>Nature Communications</i> , <b>2017</b> , 8, 14112	17.4	12
83	Slowed decay of mRNAs enhances platelet specific translation. <i>Blood</i> , <b>2017</b> , 129, e38-e48	2.2	39
82	Ribosome pausing, arrest and rescue in bacteria and eukaryotes. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2017</b> , 372,	5.8	96
81	Translation of poly(A) tails leads to precise mRNA cleavage. <i>Rna</i> , <b>2017</b> , 23, 749-761	5.8	55
80	Inhibition of Eukaryotic Translation by the Antitumor Natural Product Agelastatin A. <i>Cell Chemical Biology</i> , <b>2017</b> , 24, 605-613.e5	8.2	30

79	The ABC(E1)s of Ribosome Recycling and Reinitiation. <i>Molecular Cell</i> , <b>2017</b> , 66, 578-580	17.6	9
78	eIF5A Functions Globally in Translation Elongation and Termination. <i>Molecular Cell</i> , <b>2017</b> , 66, 194-205.e517.6	517.6	208
77	Ribosomopathies: There's strength in numbers. <i>Science</i> , <b>2017</b> , 358,	33.3	206
76	Regulated Ire1-dependent mRNA decay requires no-go mRNA degradation to maintain endoplasmic reticulum homeostasis in. <i>ELife</i> , <b>2017</b> , 6,	8.9	41
75	Not just Salk. <i>Science</i> , <b>2017</b> , 357, 1105-1106	33.3	3
74	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> , <b>2017</b> , 114, E10745-E10754	11.5	102
73	Can Multidrug-Resistant <i>Candida auris</i> Be Reliably Identified in Clinical Microbiology Laboratories?. <i>Journal of Clinical Microbiology</i> , <b>2017</b> , 55, 638-640	9.7	155
72	The DEAD-Box Protein Dhh1p Couples mRNA Decay and Translation by Monitoring Codon Optimality. <i>Cell</i> , <b>2016</b> , 167, 122-132.e9	56.2	148
71	Connections Underlying Translation and mRNA Stability. <i>Journal of Molecular Biology</i> , <b>2016</b> , 428, 3558-64.5	64.5	68
70	Clarifying the Translational Pausing Landscape in Bacteria by Ribosome Profiling. <i>Cell Reports</i> , <b>2016</b> , 14, 686-694	10.6	121
69	When stop makes sense. <i>Science</i> , <b>2016</b> , 354, 1106	33.3	2
68	Dynamic Regulation of a Ribosome Rescue Pathway in Erythroid Cells and Platelets. <i>Cell Reports</i> , <b>2016</b> , 17, 1-10	10.6	72
67	Synthesis at the Speed of Codons. <i>Trends in Biochemical Sciences</i> , <b>2015</b> , 40, 717-718	10.3	9
66	Rli1/ABCE1 Recycles Terminating Ribosomes and Controls Translation Reinitiation in 3TUTRs In Vivo. <i>Cell</i> , <b>2015</b> , 162, 872-84	56.2	132
65	Translational control by lysine-encoding A-rich sequences. <i>Science Advances</i> , <b>2015</b> , 1,	14.3	71
64	High-precision analysis of translational pausing by ribosome profiling in bacteria lacking EFP. <i>Cell Reports</i> , <b>2015</b> , 11, 13-21	10.6	162
63	<i>Saccharomyces cerevisiae</i> Ski7 Is a GTP-Binding Protein Adopting the Characteristic Conformation of Active Translational GTPases. <i>Structure</i> , <b>2015</b> , 23, 1336-43	5.2	23
62	Ribosomes slide on lysine-encoding homopolymeric A stretches. <i>ELife</i> , <b>2015</b> , 4,	8.9	76

61	One-dimensional SDS-polyacrylamide gel electrophoresis (1D SDS-PAGE). <i>Methods in Enzymology</i> , <b>2014</b> , 541, 151-9	1.7	84
60	Dom34 rescues ribosomes in 3Tuntranslated regions. <i>Cell</i> , <b>2014</b> , 156, 950-62	56.2	260
59	Dom34-Hbs1 mediated dissociation of inactive 80S ribosomes promotes restart of translation after stress. <i>EMBO Journal</i> , <b>2014</b> , 33, 265-76	13	54
58	In vitro synthesis of proteins in bacterial extracts. <i>Methods in Enzymology</i> , <b>2014</b> , 539, 3-15	1.7	3
57	Cryoelectron microscopic structures of eukaryotic translation termination complexes containing eRF1-eRF3 or eRF1-ABCE1. <i>Cell Reports</i> , <b>2014</b> , 8, 59-65	10.6	78
56	Distinct roles for release factor 1 and release factor 2 in translational quality control. <i>Journal of Biological Chemistry</i> , <b>2014</b> , 289, 17589-96	5.4	21
55	Coomassie blue staining. <i>Methods in Enzymology</i> , <b>2014</b> , 541, 161-7	1.7	46
54	RF3:GTP promotes rapid dissociation of the class 1 termination factor. <i>Rna</i> , <b>2014</b> , 20, 609-20	5.8	28
53	Polysome analysis of mammalian cells. <i>Methods in Enzymology</i> , <b>2013</b> , 530, 183-92	1.7	14
52	Eukaryotic release factor 3 is required for multiple turnovers of peptide release catalysis by eukaryotic release factor 1. <i>Journal of Biological Chemistry</i> , <b>2013</b> , 288, 29530-8	5.4	30
51	Regulation of Argonaute slicer activity by guide RNA 3Tend interactions with the N-terminal lobe. <i>Journal of Biological Chemistry</i> , <b>2013</b> , 288, 7829-7840	5.4	21
50	In vitro transcription from plasmid or PCR-amplified DNA. <i>Methods in Enzymology</i> , <b>2013</b> , 530, 101-14	1.7	21
49	Transformation of chemically competent E. coli. <i>Methods in Enzymology</i> , <b>2013</b> , 529, 329-36	1.7	59
48	mRNA surveillance is driven by translation. <i>FASEB Journal</i> , <b>2013</b> , 27, 325.3	0.9	
47	Structural basis of highly conserved ribosome recycling in eukaryotes and archaea. <i>Nature</i> , <b>2012</b> , 482, 501-6	50.4	179
46	Translation drives mRNA quality control. <i>Nature Structural and Molecular Biology</i> , <b>2012</b> , 19, 594-601	17.6	271
45	miRNA-mediated gene silencing by translational repression followed by mRNA deadenylation and decay. <i>Science</i> , <b>2012</b> , 336, 237-40	33.3	661
44	The elongation, termination, and recycling phases of translation in eukaryotes. <i>Cold Spring Harbor Perspectives in Biology</i> , <b>2012</b> , 4, a013706	10.2	261

43	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> , <b>2011</b> , 108, E1392-8	11.5	195
42	Inhibition of eukaryotic translation elongation by the antitumor natural product Mycalamide B. <i>Rna</i> , <b>2011</b> , 17, 1578-88	5.8	20
41	A parsimonious model for gene regulation by miRNAs. <i>Science</i> , <b>2011</b> , 331, 550-3	33.3	409
40	Distinct response of yeast ribosomes to a miscoding event during translation. <i>Rna</i> , <b>2011</b> , 17, 925-32	5.8	29
39	Allosteric regulation of Argonaute proteins by miRNAs. <i>Nature Structural and Molecular Biology</i> , <b>2010</b> , 17, 144-50	17.6	46
38	Visualization of codon-dependent conformational rearrangements during translation termination. <i>Nature Structural and Molecular Biology</i> , <b>2010</b> , 17, 465-70	17.6	27
37	Inhibition of eukaryotic translation elongation by cycloheximide and lactimidomycin. <i>Nature Chemical Biology</i> , <b>2010</b> , 6, 209-217	11.7	559
36	Kinetic basis for global loss of fidelity arising from mismatches in the P-site codon:anticodon helix. <i>Rna</i> , <b>2010</b> , 16, 1980-9	5.8	15
35	Functional elucidation of a key contact between tRNA and the large ribosomal subunit rRNA during decoding. <i>Rna</i> , <b>2010</b> , 16, 2002-13	5.8	13
34	Dom34:Hbs1 promotes subunit dissociation and peptidyl-tRNA drop-off to initiate no-go decay. <i>Science</i> , <b>2010</b> , 330, 369-72	33.3	235
33	Hypusine-containing Protein eIF5A Promotes Translation Elongation. <i>FASEB Journal</i> , <b>2010</b> , 24, 79.2	0.9	
32	An expanded seed sequence definition accounts for full regulation of the hid 3TUTR by bantam miRNA. <i>Rna</i> , <b>2009</b> , 15, 814-22	5.8	28
31	Quality control by the ribosome following peptide bond formation. <i>Nature</i> , <b>2009</b> , 457, 161-6	50.4	167
30	Hypusine-containing protein eIF5A promotes translation elongation. <i>Nature</i> , <b>2009</b> , 459, 118-21	50.4	304
29	Fidelity at the molecular level: lessons from protein synthesis. <i>Cell</i> , <b>2009</b> , 136, 746-62	56.2	272
28	Analysis of Dom34 and its function in no-go decay. <i>Molecular Biology of the Cell</i> , <b>2009</b> , 20, 3025-32	3.5	88
27	Visualization of the hybrid state of tRNA binding promoted by spontaneous ratcheting of the ribosome. <i>Molecular Cell</i> , <b>2008</b> , 32, 190-7	17.6	203
26	Recognition of aminoacyl-tRNA: a common molecular mechanism revealed by cryo-EM. <i>EMBO Journal</i> , <b>2008</b> , 27, 3322-31	13	44

25	Peptide release on the ribosome: mechanism and implications for translational control. <i>Annual Review of Microbiology</i> , <b>2008</b> , 62, 353-73	17.5	74
24	Peptide release on the ribosome depends critically on the 2TOH of the peptidyl-tRNA substrate. <i>Rna</i> , <b>2008</b> , 14, 1526-31	5.8	39
23	Mechanistic studies of ribosome function and potential implications for translational control. <i>FASEB Journal</i> , <b>2008</b> , 22, 398.2	0.9	
22	Mutational analysis reveals two independent molecular requirements during transfer RNA selection on the ribosome. <i>Nature Structural and Molecular Biology</i> , <b>2007</b> , 14, 30-6	17.6	48
21	Stop codon recognition by release factors induces structural rearrangement of the ribosomal decoding center that is productive for peptide release. <i>Molecular Cell</i> , <b>2007</b> , 28, 533-43	17.6	60
20	Mutational analysis of S12 protein and implications for the accuracy of decoding by the ribosome. <i>Journal of Molecular Biology</i> , <b>2007</b> , 374, 1065-76	6.5	97
19	Two distinct components of release factor function uncovered by nucleophile partitioning analysis. <i>Molecular Cell</i> , <b>2007</b> , 28, 458-67	17.6	79
18	Conformational flexibility required for class I release factor function. <i>FASEB Journal</i> , <b>2007</b> , 21, A647	0.9	
17	The interaction between C75 of tRNA and the A loop of the ribosome stimulates peptidyl transferase activity. <i>Rna</i> , <b>2006</b> , 12, 33-9	5.8	80
16	Affinity purification of in vivo-assembled ribosomes for in vitro biochemical analysis. <i>Methods</i> , <b>2005</b> , 36, 305-12	4.6	57
15	An active role for tRNA in decoding beyond codon:anticodon pairing. <i>Science</i> , <b>2005</b> , 308, 1178-80	33.3	184
14	Substrate-assisted catalysis of peptide bond formation by the ribosome. <i>Nature Structural and Molecular Biology</i> , <b>2004</b> , 11, 1101-6	17.6	239
13	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> , <b>2004</b> , 117, 589-99	56.2	278
12	The path to perdition is paved with protons. <i>Cell</i> , <b>2002</b> , 110, 665-8	56.2	33
11	Peptidyl transferase activity catalyzed by protein-free 23S ribosomal RNA remains elusive. <i>Rna</i> , <b>1999</b> , 5, 605-8	5.8	26
10	The ribosome revealed. <i>Nature Structural Biology</i> , <b>1999</b> , 6, 999-1003		7
9	Structure of a conserved RNA component of the peptidyl transferase centre. <i>Nature Structural Biology</i> , <b>1997</b> , 4, 775-8		34
8	A base pair between tRNA and 23S rRNA in the peptidyl transferase centre of the ribosome. <i>Nature</i> , <b>1995</b> , 377, 309-14	50.4	224

7	Nuclease-mediated depletion biases in ribosome footprint profiling libraries	2
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