

Rachel Green

List of Publications by Citations

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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	miRNA-mediated gene silencing by translational repression followed by mRNA deadenylation and decay. <i>Science</i> , 2012 , 336, 237-40	33.3	661
113	Inhibition of eukaryotic translation elongation by cycloheximide and lactimidomycin. <i>Nature Chemical Biology</i> , 2010 , 6, 209-217	11.7	559
112	A parsimonious model for gene regulation by miRNAs. <i>Science</i> , 2011 , 331, 550-3	33.3	409
111	Hypusine-containing protein eIF5A promotes translation elongation. <i>Nature</i> , 2009 , 459, 118-21	50.4	304
110	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, 589-99	56.2	278
109	Fidelity at the molecular level: lessons from protein synthesis. <i>Cell</i> , 2009 , 136, 746-62	56.2	272
108	Translation drives mRNA quality control. <i>Nature Structural and Molecular Biology</i> , 2012 , 19, 594-601	17.6	271
107	The elongation, termination, and recycling phases of translation in eukaryotes. <i>Cold Spring Harbor Perspectives in Biology</i> , 2012 , 4, a013706	10.2	261
106	Dom34 rescues ribosomes in 3Tuntranslated regions. <i>Cell</i> , 2014 , 156, 950-62	56.2	260
105	Substrate-assisted catalysis of peptide bond formation by the ribosome. <i>Nature Structural and Molecular Biology</i> , 2004 , 11, 1101-6	17.6	239
104	Dom34:Hbs1 promotes subunit dissociation and peptidyl-tRNA drop-off to initiate no-go decay. <i>Science</i> , 2010 , 330, 369-72	33.3	235
103	A base pair between tRNA and 23S rRNA in the peptidyl transferase centre of the ribosome. <i>Nature</i> , 1995 , 377, 309-14	50.4	224
102	eIF5A Functions Globally in Translation Elongation and Termination. <i>Molecular Cell</i> , 2017 , 66, 194-205.e5	17.6	208
101	Ribosomopathies: There's strength in numbers. <i>Science</i> , 2017 , 358,	33.3	206
100	Visualization of the hybrid state of tRNA binding promoted by spontaneous ratcheting of the ribosome. <i>Molecular Cell</i> , 2008 , 32, 190-7	17.6	203
99	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	11.5	195
98	An active role for tRNA in decoding beyond codon:anticodon pairing. <i>Science</i> , 2005 , 308, 1178-80	33.3	184

97	Structural basis of highly conserved ribosome recycling in eukaryotes and archaea. <i>Nature</i> , 2012 , 482, 501-6	50.4	179
96	Quality control by the ribosome following peptide bond formation. <i>Nature</i> , 2009 , 457, 161-6	50.4	167
95	High-precision analysis of translational pausing by ribosome profiling in bacteria lacking EFP. <i>Cell Reports</i> , 2015 , 11, 13-21	10.6	162
94	Can Multidrug-Resistant <i>Candida auris</i> Be Reliably Identified in Clinical Microbiology Laboratories?. <i>Journal of Clinical Microbiology</i> , 2017 , 55, 638-640	9.7	155
93	The DEAD-Box Protein Dhh1p Couples mRNA Decay and Translation by Monitoring Codon Optimality. <i>Cell</i> , 2016 , 167, 122-132.e9	56.2	148
92	Rli1/ABCE1 Recycles Terminating Ribosomes and Controls Translation Reinitiation in 3TUTRs In Vivo. <i>Cell</i> , 2015 , 162, 872-84	56.2	132
91	Clarifying the Translational Pausing Landscape in Bacteria by Ribosome Profiling. <i>Cell Reports</i> , 2016 , 14, 686-694	10.6	121
90	High-Resolution Ribosome Profiling Defines Discrete Ribosome Elongation States and Translational Regulation during Cellular Stress. <i>Molecular Cell</i> , 2019 , 73, 959-970.e5	17.6	116
89	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	11.5	102
88	Roadblocks and resolutions in eukaryotic translation. <i>Nature Reviews Molecular Cell Biology</i> , 2018 , 19, 526-541	48.7	98
87	Mutational analysis of S12 protein and implications for the accuracy of decoding by the ribosome. <i>Journal of Molecular Biology</i> , 2007 , 374, 1065-76	6.5	97
86	Ribosome pausing, arrest and rescue in bacteria and eukaryotes. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2017 , 372,	5.8	96
85	Analysis of Dom34 and its function in no-go decay. <i>Molecular Biology of the Cell</i> , 2009 , 20, 3025-32	3.5	88
84	One-dimensional SDS-polyacrylamide gel electrophoresis (1D SDS-PAGE). <i>Methods in Enzymology</i> , 2014 , 541, 151-9	1.7	84
83	A systematically-revised ribosome profiling method for bacteria reveals pauses at single-codon resolution. <i>ELife</i> , 2019 , 8,	8.9	81
82	The interaction between C75 of tRNA and the A loop of the ribosome stimulates peptidyl transferase activity. <i>Rna</i> , 2006 , 12, 33-9	5.8	80
81	Two distinct components of release factor function uncovered by nucleophile partitioning analysis. <i>Molecular Cell</i> , 2007 , 28, 458-67	17.6	79
80	Translation Elongation and Recoding in Eukaryotes. <i>Cold Spring Harbor Perspectives in Biology</i> , 2018 , 10,	10.2	78

79	Cryoelectron microscopic structures of eukaryotic translation termination complexes containing eRF1-eRF3 or eRF1-ABCE1. <i>Cell Reports</i> , 2014 , 8, 59-65	10.6	78
78	Ribosomes slide on lysine-encoding homopolymeric A stretches. <i>ELife</i> , 2015 , 4,	8.9	76
77	Peptide release on the ribosome: mechanism and implications for translational control. <i>Annual Review of Microbiology</i> , 2008 , 62, 353-73	17.5	74
76	Ribosome Collisions Trigger General Stress Responses to Regulate Cell Fate. <i>Cell</i> , 2020 , 182, 404-416.e14	36.2	73
75	Dynamic Regulation of a Ribosome Rescue Pathway in Erythroid Cells and Platelets. <i>Cell Reports</i> , 2016 , 17, 1-10	10.6	72
74	Translational control by lysine-encoding A-rich sequences. <i>Science Advances</i> , 2015 , 1,	14.3	71
73	The endonuclease Cue2 cleaves mRNAs at stalled ribosomes during No Go Decay. <i>ELife</i> , 2019 , 8,	8.9	69
72	Connections Underlying Translation and mRNA Stability. <i>Journal of Molecular Biology</i> , 2016 , 428, 3558-64	6.5	68
71	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, 533-43	17.6	60
70	Transformation of chemically competent E. coli. <i>Methods in Enzymology</i> , 2013 , 529, 329-36	1.7	59
69	Affinity purification of in vivo-assembled ribosomes for in vitro biochemical analysis. <i>Methods</i> , 2005 , 36, 305-12	4.6	57
68	Molecular mechanism of translational stalling by inhibitory codon combinations and poly(A) tracts. <i>EMBO Journal</i> , 2020 , 39, e103365	13	56
67	Translation of poly(A) tails leads to precise mRNA cleavage. <i>Rna</i> , 2017 , 23, 749-761	5.8	55
66	Dom34-Hbs1 mediated dissociation of inactive 80S ribosomes promotes restart of translation after stress. <i>EMBO Journal</i> , 2014 , 33, 265-76	13	54
65	Stop codon context influences genome-wide stimulation of termination codon readthrough by aminoglycosides. <i>ELife</i> , 2020 , 9,	8.9	53
64	Mutational analysis reveals two independent molecular requirements during transfer RNA selection on the ribosome. <i>Nature Structural and Molecular Biology</i> , 2007 , 14, 30-6	17.6	48
63	Coomassie blue staining. <i>Methods in Enzymology</i> , 2014 , 541, 161-7	1.7	46
62	Allosteric regulation of Argonaute proteins by miRNAs. <i>Nature Structural and Molecular Biology</i> , 2010 , 17, 144-50	17.6	46

61	Recognition of aminoacyl-tRNA: a common molecular mechanism revealed by cryo-EM. <i>EMBO Journal</i> , 2008 , 27, 3322-31	13	44
60	Regulated Ire1-dependent mRNA decay requires no-go mRNA degradation to maintain endoplasmic reticulum homeostasis in. <i>ELife</i> , 2017 , 6,	8.9	41
59	Slowed decay of mRNAs enhances platelet specific translation. <i>Blood</i> , 2017 , 129, e38-e48	2.2	39
58	Peptide release on the ribosome depends critically on the 2TOH of the peptidyl-tRNA substrate. <i>Rna</i> , 2008 , 14, 1526-31	5.8	39
57	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	17.6	36
56	Structure of a conserved RNA component of the peptidyl transferase centre. <i>Nature Structural Biology</i> , 1997 , 4, 775-8		34
55	The path to perdition is paved with protons. <i>Cell</i> , 2002 , 110, 665-8	56.2	33
54	Ribosome queuing enables non-AUG translation to be resistant to multiple protein synthesis inhibitors. <i>Genes and Development</i> , 2019 , 33, 871-885	12.6	32
53	Inhibition of Eukaryotic Translation by the Antitumor Natural Product Agelastatin A. <i>Cell Chemical Biology</i> , 2017 , 24, 605-613.e5	8.2	30
52	An evolutionarily conserved ribosome-rescue pathway maintains epidermal homeostasis. <i>Nature</i> , 2018 , 556, 376-380	50.4	30
51	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, 29530-8	5.4	30
50	Translational initiation in occurs at the correct sites genome-wide in the absence of mRNA-rRNA base-pairing. <i>ELife</i> , 2020 , 9,	8.9	30
49	Distinct response of yeast ribosomes to a miscoding event during translation. <i>Rna</i> , 2011 , 17, 925-32	5.8	29
48	RF3:GTP promotes rapid dissociation of the class 1 termination factor. <i>Rna</i> , 2014 , 20, 609-20	5.8	28
47	An expanded seed sequence definition accounts for full regulation of the hid 3TUTR by bantam miRNA. <i>Rna</i> , 2009 , 15, 814-22	5.8	28
46	Visualization of codon-dependent conformational rearrangements during translation termination. <i>Nature Structural and Molecular Biology</i> , 2010 , 17, 465-70	17.6	27
45	EDF1 coordinates cellular responses to ribosome collisions. <i>ELife</i> , 2020 , 9,	8.9	27
44	Peptidyl transferase activity catalyzed by protein-free 23S ribosomal RNA remains elusive. <i>Rna</i> , 1999 , 5, 605-8	5.8	26

43	Assaying RNA structure with LASER-Seq. <i>Nucleic Acids Research</i> , 2019 , 47, 43-55	20.1	26
42	<i>Saccharomyces cerevisiae</i> Ski7 Is a GTP-Binding Protein Adopting the Characteristic Conformation of Active Translational GTPases. <i>Structure</i> , 2015 , 23, 1336-43	5.2	23
41	Puromycin reactivity does not accurately localize translation at the subcellular level. <i>ELife</i> , 2020 , 9,	8.9	22
40	Distinct roles for release factor 1 and release factor 2 in translational quality control. <i>Journal of Biological Chemistry</i> , 2014 , 289, 17589-96	5.4	21
39	Regulation of Argonaute slicer activity by guide RNA 3Tend interactions with the N-terminal lobe. <i>Journal of Biological Chemistry</i> , 2013 , 288, 7829-7840	5.4	21
38	In vitro transcription from plasmid or PCR-amplified DNA. <i>Methods in Enzymology</i> , 2013 , 530, 101-14	1.7	21
37	Inhibition of eukaryotic translation elongation by the antitumor natural product Mycalamide B. <i>Rna</i> , 2011 , 17, 1578-88	5.8	20
36	Ribosome states signal RNA quality control. <i>Molecular Cell</i> , 2021 , 81, 1372-1383	17.6	18
35	Kinetic basis for global loss of fidelity arising from mismatches in the P-site codon:anticodon helix. <i>Rna</i> , 2010 , 16, 1980-9	5.8	15
34	Polysome analysis of mammalian cells. <i>Methods in Enzymology</i> , 2013 , 530, 183-92	1.7	14
33	Functional elucidation of a key contact between tRNA and the large ribosomal subunit rRNA during decoding. <i>Rna</i> , 2010 , 16, 2002-13	5.8	13
32	Rapid generation of hypomorphic mutations. <i>Nature Communications</i> , 2017 , 8, 14112	17.4	12
31	A small molecule that induces translational readthrough of CFTR nonsense mutations by eRF1 depletion. <i>Nature Communications</i> , 2021 , 12, 4358	17.4	12
30	Nuclease-mediated depletion biases in ribosome footprint profiling libraries. <i>Rna</i> , 2020 , 26, 1481-1488	5.8	11
29	Translational control of stem cell function. <i>Nature Reviews Molecular Cell Biology</i> , 2021 , 22, 671-690	48.7	11
28	The ABC(E1)s of Ribosome Recycling and Reinitiation. <i>Molecular Cell</i> , 2017 , 66, 578-580	17.6	9
27	Synthesis at the Speed of Codons. <i>Trends in Biochemical Sciences</i> , 2015 , 40, 717-718	10.3	9
26	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	20.1	9

25	Translational repression of NMD targets by GIGYF2 and EIF4E2. <i>PLoS Genetics</i> , 2021 , 17, e1009813	6	9
24	The ribosome revealed. <i>Nature Structural Biology</i> , 1999 , 6, 999-1003		7
23	Live-cell imaging reveals kinetic determinants of quality control triggered by ribosome stalling. <i>Molecular Cell</i> , 2021 , 81, 1830-1840.e8	17.6	6
22	Yeast translation elongation factor eEF3 promotes late stages of tRNA translocation. <i>EMBO Journal</i> , 2021 , 40, e106449	13	6
21	Mechanisms that ensure speed and fidelity in eukaryotic translation termination. <i>Science</i> , 2021 , 373, 876-882	33.3	6
20	Ribosome recycling is not critical for translational coupling in. <i>ELife</i> , 2020 , 9,	8.9	5
19	Bifunctional Nitrore-Conjugated Secondary Metabolite Targeting the Ribosome. <i>Journal of the American Chemical Society</i> , 2020 , 142, 18369-18377	16.4	5
18	Dynamic regulation of translation quality control associated with ribosome stalling		4
17	GIGYF2 and 4EHP Inhibit Translation Initiation of Defective Messenger RNAs to Assist Ribosome-Associated Quality Control		4
16	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> , 2022 , 119,	11.5	4
15	Ribosome collisions induce mRNA cleavage and ribosome rescue in bacteria.. <i>Nature</i> , 2022 ,	50.4	4
14	In vitro synthesis of proteins in bacterial extracts. <i>Methods in Enzymology</i> , 2014 , 539, 3-15	1.7	3
13	Not just Salk. <i>Science</i> , 2017 , 357, 1105-1106	33.3	3
12	Molecular mechanism of translational stalling by inhibitory codon combinations and poly(A) tracts		3
11	Mechanisms that ensure speed and fidelity in eukaryotic translation termination		3
10	Nuclease-mediated depletion biases in ribosome footprint profiling libraries		2
9	When stop makes sense. <i>Science</i> , 2016 , 354, 1106	33.3	2
8	Genetic screens identify connections between ribosome recycling and nonsense mediated decay		1

- 7 Conformational flexibility required for class I release factor function. *FASEB Journal*, **2007**, 21, A647 0.9
- 6 Mechanistic studies of ribosome function and potential implications for translational control. *FASEB Journal*, **2008**, 22, 398.2 0.9
- 5 Structural characterization of mRNA-tRNA translocation intermediates. *journal of hand surgery Asian-Pacific volume, The*, **2018**, 450-455 0.5
- 4 Hypusine-containing Protein eIF5A Promotes Translation Elongation. *FASEB Journal*, **2010**, 24, 79.2 0.9
- 3 mRNA surveillance is driven by translation. *FASEB Journal*, **2013**, 27, 325.3 0.9
- 2 Studies on the Structure and Function of Ribosomes by Combined Use of Chemical Probing and X-Ray Crystallography 127-150
- 1 Make or break: the ribosome as a regulator of mRNA decay. *Cell Research*, **2020**, 30, 195-196 24.7