

Sebastian A Leidel

List of Publications by Year in descending order

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Version: 2024-02-01

59
papers

5,356
citations

136950

32
h-index

155660

55
g-index

67
all docs

67
docs citations

67
times ranked

6471
citing authors

#	ARTICLE	IF	CITATIONS
1	Functional genomic analysis of cell division in <i>C. elegans</i> using RNAi of genes on chromosome III. <i>Nature</i> , 2000, 408, 331-336.	27.8	854
2	Optimization of Codon Translation Rates via tRNA Modifications Maintains Proteome Integrity. <i>Cell</i> , 2015, 161, 1606-1618.	28.9	427
3	SAS-6 defines a protein family required for centrosome duplication in <i>C. elegans</i> and in human cells. <i>Nature Cell Biology</i> , 2005, 7, 115-125.	10.3	362
4	Regulated HsSAS-6 Levels Ensure Formation of a Single Procentriole per Centriole during the Centrosome Duplication Cycle. <i>Developmental Cell</i> , 2007, 13, 203-213.	7.0	305
5	Ubiquitin-related modifier Urm1 acts as a sulphur carrier in thiolation of eukaryotic transfer RNA. <i>Nature</i> , 2009, 458, 228-232.	27.8	245
6	SAS-4 Is Essential for Centrosome Duplication in <i>C. elegans</i> and Is Recruited to Daughter Centrioles Once per Cell Cycle. <i>Developmental Cell</i> , 2003, 4, 431-439.	7.0	208
7	Codon-specific translation reprogramming promotes resistance to targeted therapy. <i>Nature</i> , 2018, 558, 605-609.	27.8	177
8	A Dynamic Unfolded Protein Response Contributes to the Control of Cortical Neurogenesis. <i>Developmental Cell</i> , 2015, 35, 553-567.	7.0	169
9	Mutations in KEOPS-complex genes cause nephrotic syndrome with primary microcephaly. <i>Nature Genetics</i> , 2017, 49, 1529-1538.	21.4	164
10	Centriolar SAS-5 is required for centrosome duplication in <i>C. elegans</i> . <i>Nature Cell Biology</i> , 2004, 6, 656-664.	10.3	156
11	Synergism with the Coactivator OBF-1 (OCA-B, BOB-1) Is Mediated by a Specific POU Dimer Configuration. <i>Cell</i> , 2000, 103, 853-864.	28.9	134
12	Elp3 links tRNA modification to IRES-dependent translation of LEF1 to sustain metastasis in breast cancer. <i>Journal of Experimental Medicine</i> , 2016, 213, 2503-2523.	8.5	128
13	A fully automated high-throughput workflow for 3D-based chemical screening in human midbrain organoids. <i>ELife</i> , 2020, 9, .	6.0	117
14	Matching tRNA modifications in humans to their known and predicted enzymes. <i>Nucleic Acids Research</i> , 2019, 47, 2143-2159.	14.5	116
15	Modification of tRNA ^{Lys} UUU by Elongator Is Essential for Efficient Translation of Stress mRNAs. <i>PLoS Genetics</i> , 2013, 9, e1003647.	3.5	115
16	miR-31 Functions as a Negative Regulator of Lymphatic Vascular Lineage-Specific Differentiation <i>In Vitro</i> and Vascular Development <i>In Vivo</i> . <i>Molecular and Cellular Biology</i> , 2010, 30, 3620-3634.	2.3	102
17	Stepwise Clearance of Repressive Roadblocks Drives Cardiac Induction in Human ESCs. <i>Cell Stem Cell</i> , 2016, 18, 341-353.	11.1	89
18	The human methyltransferase ZCCHC4 catalyses N6-methyladenosine modification of 28S ribosomal RNA. <i>Nucleic Acids Research</i> , 2020, 48, 830-846.	14.5	88

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19	The Gcn4 transcription factor reduces protein synthesis capacity and extends yeast lifespan. <i>Nature Communications</i> , 2017, 8, 457.	12.8	83
20	Enzymatic or In Vivo Installation of Propargyl Groups in Combination with Click Chemistry for the Enrichment and Detection of Methyltransferase Target Sites in RNA. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 6342-6346.	13.8	82
21	Wobble uridine modificationsâ€“a reason to live, a reason to die?!. <i>RNA Biology</i> , 2017, 14, 1209-1222.	3.1	81
22	The dual methyltransferase METTL13 targets N terminus and Lys55 of eEF1A and modulates codon-specific translation rates. <i>Nature Communications</i> , 2018, 9, 3411.	12.8	81
23	An evolutionary approach uncovers a diverse response of tRNA 2-thiolation to elevated temperatures in yeast. <i>Rna</i> , 2015, 21, 202-212.	3.5	67
24	Modify or die? - RNA modification defects in metazoans. <i>RNA Biology</i> , 2014, 11, 1555-1567.	3.1	65
25	The novel lysine specific methyltransferase METTL21B affects mRNA translation through inducible and dynamic methylation of Lys-165 in human eukaryotic elongation factor 1 alpha (eEF1A). <i>Nucleic Acids Research</i> , 2017, 45, gkx002.	14.5	64
26	pymzML v2.0: introducing a highly compressed and seekable gzip format. <i>Bioinformatics</i> , 2018, 34, 2513-2514.	4.1	56
27	Urm1 at the crossroad of modifications. <i>EMBO Reports</i> , 2008, 9, 1196-1202.	4.5	53
28	Dual randomization of oligonucleotides to reduce the bias in ribosome-profiling libraries. <i>Methods</i> , 2016, 107, 89-97.	3.8	50
29	Centrosome Duplication and Nematodes: Recent Insights from an Old Relationship. <i>Developmental Cell</i> , 2005, 9, 317-325.	7.0	48
30	A novel translational control mechanism involving RNA structures within coding sequences. <i>Genome Research</i> , 2017, 27, 95-106.	5.5	48
31	Methylation of human eukaryotic elongation factor alpha (eEF1A) by a member of a novel protein lysine methyltransferase family modulates mRNA translation. <i>Nucleic Acids Research</i> , 2017, 45, 8239-8254.	14.5	44
32	Nano LC-MS using capillary columns enables accurate quantification of modified ribonucleosides at low femtomol levels. <i>Rna</i> , 2018, 24, 1403-1417.	3.5	42
33	Repulsive cues combined with physical barriers and cellâ€“cell adhesion determine progenitor cell positioning during organogenesis. <i>Nature Communications</i> , 2016, 7, 11288.	12.8	38
34	The exonuclease Xrn1 activates transcription and translation of mRNAs encoding membrane proteins. <i>Nature Communications</i> , 2019, 10, 1298.	12.8	36
35	Glutaredoxin GRXS17 Associates with the Cytosolic Iron-Sulfur Cluster Assembly Pathway. <i>Plant Physiology</i> , 2016, 172, pp.00261.2016.	4.8	35
36	pyQms enables universal and accurate quantification of mass spectrometry data. <i>Molecular and Cellular Proteomics</i> , 2017, 16, 1736-1745.	3.8	35

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37	Wnt/Beta-catenin/Esrrb signalling controls the tissue-scale reorganization and maintenance of the pluripotent lineage during murine embryonic diapause. <i>Nature Communications</i> , 2020, 11, 5499.	12.8	35
38	Human METTL18 is a histidine-specific methyltransferase that targets RPL3 and affects ribosome biogenesis and function. <i>Nucleic Acids Research</i> , 2021, 49, 3185-3203.	14.5	34
39	Translational offsetting as a mode of estrogen receptor $\hat{\pm}$ dependent regulation of gene expression. <i>EMBO Journal</i> , 2019, 38, e101323.	7.8	33
40	Differential Requirement for Translation Initiation Factor Pathways during Ecdysone-Dependent Neuronal Remodeling in <i>Drosophila</i> . <i>Cell Reports</i> , 2018, 24, 2287-2299.e4.	6.4	32
41	The epitranscriptome in translation regulation: mRNA and tRNA modifications as the two sides of the same coin?. <i>FEBS Letters</i> , 2019, 593, 1483-1493.	2.8	32
42	Absolute Quantification of Noncoding RNA by Microscale Thermophoresis. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 9565-9569.	13.8	29
43	The Uba4 domain interplay is mediated via a thioester that is critical for tRNA thiolation through Urm1 thiocarboxylation. <i>Nucleic Acids Research</i> , 2018, 46, 5171-5181.	14.5	25
44	Humans and other commonly used model organisms are resistant to cycloheximide-mediated biases in ribosome profiling experiments. <i>Nature Communications</i> , 2021, 12, 5094.	12.8	21
45	Enzymatischer oder In-vivo-Einbau von Propargylgruppen in Kombination mit Klick-Chemie zur Anreicherung und Detektion von Methyltransferase-Zielsequenzen in RNA. <i>Angewandte Chemie</i> , 2018, 130, 6451-6455.	2.0	19
46	Molecular basis for the bifunctional Uba4-Urm1 sulfur relay system in tRNA thiolation and ubiquitin-like conjugation. <i>EMBO Journal</i> , 2020, 39, e105087.	7.8	17
47	Diversity of foliar endophytic ascomycetes in the endemic Corsican pine forests. <i>Fungal Ecology</i> , 2018, 36, 128-140.	1.6	14
48	Modulation of <i>Escherichia coli</i> Translation by the Specific Inactivation of tRNA ^{Gly} Under Oxidative Stress. <i>Frontiers in Genetics</i> , 2020, 11, 856.	2.3	14
49	Dynamic Regulation of tRNA Modifications in Cancer. , 2018, , 163-186.		10
50	PDCD4 controls the G1/S-phase transition in a telomerase-immortalized epithelial cell line and affects the expression level and translation of multiple mRNAs. <i>Scientific Reports</i> , 2020, 10, 2758.	3.3	9
51	Interaction between the <i>Caenorhabditis elegans</i> centriolar protein SAS-5 and microtubules facilitates organelle assembly. <i>Molecular Biology of the Cell</i> , 2018, 29, 722-735.	2.1	8
52	Enhancing Open Modification Searches via a Combined Approach Facilitated by Ursgal. <i>Journal of Proteome Research</i> , 2021, 20, 1986-1996.	3.7	8
53	Urm1: A Non-Canonical UBL. <i>Biomolecules</i> , 2021, 11, 139.	4.0	7
54	SMITER – A Python Library for the Simulation of LC-MS/MS Experiments. <i>Genes</i> , 2021, 12, 396.	2.4	6

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55	Analysis of codon-specific translation by ribosome profiling. <i>Methods in Enzymology</i> , 2021, 658, 191-223.	1.0	3
56	Innentitelbild: Enzymatischer oder In vivo Einbau von Propargylgruppen in Kombination mit Klick-Chemie zur Anreicherung und Detektion von Methyltransferase-Zielsequenzen in RNA (<i>Angew. Chem.</i> 21/2018). <i>Angewandte Chemie</i> , 2018, 130, 6064-6064.	2.0	0
57	Absolute Quantifizierung nicht-kodierender RNA-Spezies mittels Mikroskala-Thermophorese. <i>Angewandte Chemie</i> , 2019, 131, 9666-9670.	2.0	0
58	Editorial: Microbial Regulation of Translation. <i>Frontiers in Genetics</i> , 2020, 11, 616946.	2.3	0
59	Structures to the people!. <i>ELife</i> , 2015, 4, e09249.	6.0	0