

Gunter Meister

List of Publications by Year in descending order

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130
papers

20,087
citations

23500

58
h-index

12910

131
g-index

135
all docs

135
docs citations

135
times ranked

23164
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanisms of gene silencing by double-stranded RNA. <i>Nature</i> , 2004, 431, 343-349.	13.7	2,226
2	Human Argonaute2 Mediates RNA Cleavage Targeted by miRNAs and siRNAs. <i>Molecular Cell</i> , 2004, 15, 185-197.	4.5	1,699
3	Regulation of microRNA biogenesis and its crosstalk with other cellular pathways. <i>Nature Reviews Molecular Cell Biology</i> , 2019, 20, 5-20.	16.1	920
4	Argonaute proteins: functional insights and emerging roles. <i>Nature Reviews Genetics</i> , 2013, 14, 447-459.	7.7	871
5	Differential Regulation of microRNAs by p53 Revealed by Massively Parallel Sequencing: miR-34a is a p53 Target That Induces Apoptosis and G1-arrest. <i>Cell Cycle</i> , 2007, 6, 1586-1593.	1.3	859
6	A Human snoRNA with MicroRNA-Like Functions. <i>Molecular Cell</i> , 2008, 32, 519-528.	4.5	738
7	Argonaute Proteins: Mediators of RNA Silencing. <i>Molecular Cell</i> , 2007, 26, 611-623.	4.5	627
8	Structural basis for 5' end-specific recognition of guide RNA by the <i>A. fulgidus</i> Piwi protein. <i>Nature</i> , 2005, 434, 666-670.	13.7	596
9	Early dissemination seeds metastasis in breast cancer. <i>Nature</i> , 2016, 540, 552-558.	13.7	550
10	Sequence-specific inhibition of microRNA- and siRNA-induced RNA silencing. <i>Rna</i> , 2004, 10, 544-550.	1.6	536
11	Identification of Novel Argonaute-Associated Proteins. <i>Current Biology</i> , 2005, 15, 2149-2155.	1.8	487
12	Crystal Structure of <i>A. aeolicus</i> Argonaute, a Site-Specific DNA-Guided Endoribonuclease, Provides Insights into RISC-Mediated mRNA Cleavage. <i>Molecular Cell</i> , 2005, 19, 405-419.	4.5	349
13	Proteomic and functional analysis of Argonaute-containing mRNA-protein complexes in human cells. <i>EMBO Reports</i> , 2007, 8, 1052-1060.	2.0	316
14	Interactions, localization, and phosphorylation of the m ⁶ A generating METTL3-METTL14-WTAP complex. <i>Rna</i> , 2018, 24, 499-512.	1.6	312
15	Methylation of Sm proteins by a complex containing PRMT5 and the putative U snRNP assembly factor pICln. <i>Current Biology</i> , 2001, 11, 1990-1994.	1.8	306
16	Importin 8 Is a Gene Silencing Factor that Targets Argonaute Proteins to Distinct mRNAs. <i>Cell</i> , 2009, 136, 496-507.	13.5	306
17	Epstein-Barr virus-encoded microRNA miR-BART2 down-regulates the viral DNA polymerase BALF5. <i>Nucleic Acids Research</i> , 2007, 36, 666-675.	6.5	295
18	A multiprotein complex mediates the ATP-dependent assembly of spliceosomal U snRNPs. <i>Nature Cell Biology</i> , 2001, 3, 945-949.	4.6	284

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19	Extensive terminal and asymmetric processing of small RNAs from rRNAs, snoRNAs, snRNAs, and tRNAs. <i>Nucleic Acids Research</i> , 2012, 40, 6787-6799.	6.5	276
20	Identification of Human microRNA Targets From Isolated Argonaute Protein Complexes. <i>RNA Biology</i> , 2007, 4, 76-84.	1.5	256
21	A Compendium of RNA-Binding Proteins that Regulate MicroRNA Biogenesis. <i>Molecular Cell</i> , 2017, 66, 270-284.e13.	4.5	241
22	Identification of Novel Epstein-Barr Virus MicroRNA Genes from Nasopharyngeal Carcinomas. <i>Journal of Virology</i> , 2009, 83, 3333-3341.	1.5	227
23	SMN-mediated assembly of RNPs: a complex story. <i>Trends in Cell Biology</i> , 2002, 12, 472-478.	3.6	210
24	Reduced U snRNP assembly causes motor axon degeneration in an animal model for spinal muscular atrophy. <i>Genes and Development</i> , 2005, 19, 2320-2330.	2.7	207
25	5' isomiR variation is of functional and evolutionary importance. <i>Nucleic Acids Research</i> , 2014, 42, 9424-9435.	6.5	203
26	Systematic Analysis of Viral and Cellular MicroRNA Targets in Cells Latently Infected with Human β -Herpesviruses by RISC Immunoprecipitation Assay. <i>Cell Host and Microbe</i> , 2010, 7, 324-334.	5.1	199
27	miRNAs Get an Early Start on Translational Silencing. <i>Cell</i> , 2007, 131, 25-28.	13.5	196
28	Unique Sm core structure of U7 snRNPs: assembly by a specialized SMN complex and the role of a new component, Lsm11, in histone RNA processing. <i>Genes and Development</i> , 2003, 17, 2321-2333.	2.7	188
29	Argonaute proteins at a glance. <i>Journal of Cell Science</i> , 2010, 123, 1819-1823.	1.2	182
30	microRNAs associated with the different human Argonaute proteins. <i>Nucleic Acids Research</i> , 2012, 40, 9850-9862.	6.5	179
31	Strand-specific 5' O-methylation of siRNA duplexes controls guide strand selection and targeting specificity. <i>Rna</i> , 2008, 14, 263-274.	1.6	174
32	Assisted RNP assembly: SMN and PRMT5 complexes cooperate in the formation of spliceosomal UsnRNPs. <i>EMBO Journal</i> , 2002, 21, 5853-5863.	3.5	173
33	Fluorescence correlation spectroscopy and fluorescence cross-correlation spectroscopy reveal the cytoplasmic origination of loaded nuclear RISC in vivo in human cells. <i>Nucleic Acids Research</i> , 2008, 36, 6439-6449.	6.5	173
34	Regulation of microRNA biogenesis and function. <i>Thrombosis and Haemostasis</i> , 2012, 107, 605-610.	1.8	171
35	The mammalian TRIM-NHL protein TRIM71/LIN-41 is a repressor of mRNA function. <i>Nucleic Acids Research</i> , 2013, 41, 518-532.	6.5	162
36	Phosphorylation of human Argonaute proteins affects small RNA binding. <i>Nucleic Acids Research</i> , 2011, 39, 2330-2343.	6.5	157

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37	CAMTA1 is a novel tumour suppressor regulated by miR-9/9* in glioblastoma stem cells. EMBO Journal, 2011, 30, 4309-4322.	3.5	141
38	Small RNAs derived from longer non-coding RNAs. Biochimie, 2011, 93, 1905-1915.	1.3	139
39	siPools: highly complex but accurately defined siRNA pools eliminate off-target effects. Nucleic Acids Research, 2014, 42, 8049-8061.	6.5	137
40	microRNA profiling in Epstein-Barr virus-associated B-cell lymphoma. Nucleic Acids Research, 2011, 39, 1880-1893.	6.5	132
41	A multifunctional human Argonaute2-specific monoclonal antibody. Rna, 2008, 14, 1244-1253.	1.6	128
42	The Lupus Autoantigen La Prevents Mis-channeling of tRNA Fragments into the Human MicroRNA Pathway. Molecular Cell, 2016, 63, 110-124.	4.5	107
43	Structural features of Argonaute-GW182 protein interactions. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E3770-9.	3.3	98
44	Biogenic mechanisms and utilization of small RNAs derived from human protein-coding genes. Nature Structural and Molecular Biology, 2011, 18, 1075-1082.	3.6	94
45	Turning catalytically inactive human Argonaute proteins into active slicer enzymes. Nature Structural and Molecular Biology, 2013, 20, 814-817.	3.6	89
46	LIN28 Selectively Modulates a Subclass of Let-7 MicroRNAs. Molecular Cell, 2018, 71, 271-283.e5.	4.5	89
47	Biochemical isolation of Argonaute protein complexes by Ago-APP. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 11841-11845.	3.3	82
48	The Crystal Structure of the NHL Domain in Complex with RNA Reveals the Molecular Basis of Drosophila Brain-Tumor-Mediated Gene Regulation. Cell Reports, 2015, 13, 1206-1220.	2.9	79
49	miRA: adaptable novel miRNA identification in plants using small RNA sequencing data. BMC Bioinformatics, 2015, 16, 370.	1.2	79
50	MicroRNA-mediated down-regulation of NKG2D ligands contributes to glioma immune escape. Oncotarget, 2014, 5, 7651-7662.	0.8	79
51	Tdrd3 is a novel stress granule-associated protein interacting with the Fragile-X syndrome protein FMRP. Human Molecular Genetics, 2008, 17, 3236-3246.	1.4	77
52	microRNA-122 Dependent Binding of Ago2 Protein to Hepatitis C Virus RNA Is Associated with Enhanced RNA Stability and Translation Stimulation. PLoS ONE, 2013, 8, e56272.	1.1	76
53	MicroRNA-142 is mutated in about 20% of diffuse large B-cell lymphoma. Cancer Medicine, 2012, 1, 141-155.	1.3	74
54	The NHL domain of BRAT is an RNA-binding domain that directly contacts the hunchback mRNA for regulation. Genes and Development, 2014, 28, 749-764.	2.7	74

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55	Gene targeting of Gemin2 in mice reveals a correlation between defects in the biogenesis of U snRNPs and motoneuron cell death. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 10126-10131.	3.3	73
56	Assembly and function of small RNA “ Argonaute protein complexes. <i>Biological Chemistry</i> , 2014, 395, 611-629.	1.2	72
57	Phosphorylation of Argonaute proteins affects <scp>mRNA</scp> binding and is essential for micro <scp>RNA</scp> “guided gene silencing <i>inÂvivo</i>. <i>EMBO Journal</i> , 2017, 36, 2088-2106.	3.5	69
58	MicroRNA-21“Dependent Macrophage-to-Fibroblast Signaling Determines the Cardiac Response to Pressure Overload. <i>Circulation</i> , 2021, 143, 1513-1525.	1.6	67
59	Phosphorylation regulates the activity of the SMN complex during assembly of spliceosomal U snRNPs. <i>EMBO Reports</i> , 2005, 6, 70-76.	2.0	63
60	Argonaute and GW182 proteins: an effective alliance in gene silencing. <i>Biochemical Society Transactions</i> , 2013, 41, 855-860.	1.6	62
61	siRNA Specificity: RNAi Mechanisms and Strategies to Reduce Off-Target Effects. <i>Frontiers in Plant Science</i> , 2020, 11, 526455.	1.7	62
62	The Slicer Activity of ARGONAUTE1 is Required Specifically for the Phasing, Not Production, of Trans-Acting Short Interfering RNAs in Arabidopsis. <i>Plant Cell</i> , 2016, 28, tpc.00121.2016.	3.1	62
63	A Circulating MicroRNA Profile Is Associated with Late-Stage Neovascular Age-Related Macular Degeneration. <i>PLoS ONE</i> , 2014, 9, e107461.	1.1	62
64	Increased siRNA duplex stability correlates with reduced off-target and elevated on-target effects. <i>Rna</i> , 2011, 17, 737-749.	1.6	61
65	Import routes and nuclear functions of Argonaute and other small RNA-silencing proteins. <i>Trends in Biochemical Sciences</i> , 2014, 39, 420-431.	3.7	61
66	p53-Regulated Networks of Protein, mRNA, miRNA, and lncRNA Expression Revealed by Integrated Pulsed Stable Isotope Labeling With Amino Acids in Cell Culture (pSILAC) and Next Generation Sequencing (NGS) Analyses. <i>Molecular and Cellular Proteomics</i> , 2015, 14, 2609-2629.	2.5	59
67	Comprehensive analysis of translation from overexpressed circular RNAs reveals pervasive translation from linear transcripts. <i>Nucleic Acids Research</i> , 2020, 48, 10368-10382.	6.5	57
68	Reexamining assumptions about miRNA-guided gene silencing. <i>Nucleic Acids Research</i> , 2022, 50, 617-634.	6.5	57
69	The Long Non-coding RNA lnc-31 Interacts with Rock1 mRNA and Mediates Its YB-1-Dependent Translation. <i>Cell Reports</i> , 2018, 23, 733-740.	2.9	55
70	Dicer-dependent and -independent Argonaute2 Protein Interaction Networks in Mammalian Cells. <i>Molecular and Cellular Proteomics</i> , 2012, 11, 1442-1456.	2.5	53
71	Importin-Î² facilitates nuclear import of human GW proteins and balances cytoplasmic gene silencing protein levels. <i>Nucleic Acids Research</i> , 2015, 43, 7447-7461.	6.5	52
72	Epstein-Barr Virus Nuclear Antigen 2 Binds via Its Methylated Arginine-Glycine Repeat to the Survival Motor Neuron Protein. <i>Journal of Virology</i> , 2003, 77, 5008-5013.	1.5	49

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73	A precisely positioned MED12 activation helix stimulates CDK8 kinase activity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 2894-2905.	3.3	47
74	Identification and Analysis of Expression of Novel MicroRNAs of Murine Gammaherpesvirus 68. <i>Journal of Virology</i> , 2010, 84, 10266-10275.	1.5	45
75	The Alazami Syndrome-Associated Protein LARP7 Guides U6 Small Nuclear RNA Modification and Contributes to Splicing Robustness. <i>Molecular Cell</i> , 2020, 77, 1014-1031.e13.	4.5	45
76	Balancing of mitochondrial translation through METTL8-mediated m3C modification of mitochondrial tRNAs. <i>Molecular Cell</i> , 2021, 81, 4810-4825.e12.	4.5	44
77	MicroRNAs: From Decay to Decoy. <i>Cell</i> , 2010, 140, 612-614.	13.5	43
78	Germline AGO2 mutations impair RNA interference and human neurological development. <i>Nature Communications</i> , 2020, 11, 5797.	5.8	43
79	The tumor suppressor Brat controls neuronal stem cell lineages by inhibiting Deadpan and Zelda. <i>EMBO Reports</i> , 2018, 19, 102-117.	2.0	41
80	Epigenetic Regulation of the Social Brain. <i>Trends in Neurosciences</i> , 2019, 42, 471-484.	4.2	41
81	LARP7-Mediated U6 snRNA Modification Ensures Splicing Fidelity and Spermatogenesis in Mice. <i>Molecular Cell</i> , 2020, 77, 999-1013.e6.	4.5	41
82	miR-155 targets Caspase-3 mRNA in activated macrophages. <i>RNA Biology</i> , 2016, 13, 43-58.	1.5	40
83	Control of glioma cell migration and invasiveness by GDF-15. <i>Oncotarget</i> , 2016, 7, 7732-7746.	0.8	40
84	The Arabidopsis THO/TREX component TEX1 functionally interacts with MOS11 and modulates mRNA export and alternative splicing events. <i>Plant Molecular Biology</i> , 2017, 93, 283-298.	2.0	39
85	Toward an Assembly Line for U7 snRNPs. <i>Journal of Biological Chemistry</i> , 2005, 280, 34435-34440.	1.6	38
86	Argonaute Family Protein Expression in Normal Tissue and Cancer Entities. <i>PLoS ONE</i> , 2016, 11, e0161165.	1.1	38
87	The TGF- β -inducible miR-23a cluster attenuates IFN- γ levels and antigen-specific cytotoxicity in human CD8+ T cells. <i>Journal of Leukocyte Biology</i> , 2014, 96, 633-645.	1.5	36
88	Transcriptomic profiling of platelet senescence and platelet extracellular vesicles. <i>Transfusion</i> , 2017, 57, 144-156.	0.8	36
89	Reconstitution of mammalian cleavage factor II involved in 5' capping processing of mRNA precursors. <i>Rna</i> , 2018, 24, 1721-1737.	1.6	36
90	MicroRNA Dysregulation in Pulmonary Arteries from Chronic Obstructive Pulmonary Disease. Relationships with Vascular Remodeling. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2018, 59, 490-499.	1.4	34

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91	MicroRNAs Distinguish Cytogenetic Subgroups in Pediatric AML and Contribute to Complex Regulatory Networks in AML-Relevant Pathways. PLoS ONE, 2013, 8, e56334.	1.1	33
92	A miR-155-dependent microRNA hierarchy in dendritic cell maturation and macrophage activation. FEBS Letters, 2014, 588, 632-640.	1.3	32
93	Generation of catalytic human Ago4 identifies structural elements important for RNA cleavage. Rna, 2014, 20, 1532-1538.	1.6	31
94	Angiotensin-(1 α) prevents cardiomyocyte hypertrophy by controlling mitochondrial dynamics via miR-129-3p/PKIA pathway. Cell Death and Differentiation, 2020, 27, 2586-2604.	5.0	29
95	Inducible and reversible inhibition of miRNA-mediated gene repression in vivo. ELife, 2021, 10, .	2.8	23
96	Selective inhibition of miRNA processing by a herpesvirus-encoded miRNA. Nature, 2022, 605, 539-544.	13.7	23
97	Prevention of dsRNA-induced interferon signaling by AGO1x is linked to breast cancer cell proliferation. EMBO Journal, 2020, 39, e103922.	3.5	22
98	Noncoding RNAs that associate with YB-1 alter proliferation in prostate cancer cells. Rna, 2015, 21, 1159-1172.	1.6	20
99	MicroRNA dilution during oocyte growth disables the microRNA pathway in mammalian oocytes. Nucleic Acids Research, 2020, 48, 8050-8062.	6.5	20
100	Induction of exportin-5 expression during melanoma development supports the cellular behavior of human malignant melanoma cells. Oncotarget, 2016, 7, 62292-62304.	0.8	19
101	Single-molecule FRET uncovers hidden conformations and dynamics of human Argonaute 2. Nature Communications, 2022, 13, .	5.8	19
102	Validation strategies for antibodies targeting modified ribonucleotides. Rna, 2020, 26, 1489-1506.	1.6	18
103	Ultrastructural characterisation of a nuclear domain highly enriched in survival of motor neuron (SMN) protein. Experimental Cell Research, 2004, 292, 312-321.	1.2	17
104	Conserved asymmetry underpins homodimerization of Dicer-associated double-stranded RNA-binding proteins. Nucleic Acids Research, 2017, 45, 12577-12584.	6.5	17
105	<i>Drosophila</i> Sister-of-Sex-lethal reinforces a male-specific gene expression pattern by controlling <i>Sex-lethal</i> alternative splicing. Nucleic Acids Research, 2019, 47, 2276-2288.	6.5	17
106	From tRNA to miRNA: RNA folding contributes to correct entry into noncoding RNA pathways. FEBS Letters, 2016, 590, 2354-2363.	1.3	16
107	Gene silencing pathways found in the green alga <i>Volvox carteri</i> reveal insights into evolution and origins of small RNA systems in plants. BMC Genomics, 2016, 17, 853.	1.2	15
108	RNA Binding of PRC2: Promiscuous or Well Ordered?. Molecular Cell, 2014, 55, 157-158.	4.5	14

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109	miR-181a Modulation of ERK-MAPK Signaling Sustains DC-SIGN Expression and Limits Activation of Monocyte-Derived Dendritic Cells. <i>Cell Reports</i> , 2020, 30, 3793-3805.e5.	2.9	14
110	Stabilize and connect: the role of LARP7 in nuclear non-coding RNA metabolism. <i>RNA Biology</i> , 2021, 18, 290-303.	1.5	14
111	MicroRNA-sequencing data analyzing melanoma development and progression. <i>Experimental and Molecular Pathology</i> , 2018, 105, 371-379.	0.9	13
112	Determination of enrichment factors for modified RNA in MeRIP experiments. <i>Methods</i> , 2019, 156, 102-109.	1.9	12
113	The <i>Coxiella burnetii</i> T4SS effector protein AnkG hijacks the 7SK small nuclear ribonucleoprotein complex for reprogramming host cell transcription. <i>PLoS Pathogens</i> , 2022, 18, e1010266.	2.1	12
114	Slug Is Increased in Vascular Remodeling and Induces a Smooth Muscle Cell Proliferative Phenotype. <i>PLoS ONE</i> , 2016, 11, e0159460.	1.1	11
115	Structural and functional insights into the fly microRNA biogenesis factor Loquacious. <i>Rna</i> , 2016, 22, 383-396.	1.6	11
116	The nuclear matrix protein Matr3 regulates processing of the synaptic microRNA-138-5p. <i>Neurobiology of Learning and Memory</i> , 2019, 159, 36-45.	1.0	11
117	Site-Specific Labelling of Native Mammalian Proteins for Single-Molecule FRET Measurements. <i>ChemBioChem</i> , 2018, 19, 780-783.	1.3	10
118	RNA Interference in the Nucleus. <i>Science</i> , 2008, 321, 496-497.	6.0	8
119	Regulated dicing of <i>pre-mir-144</i> via reshaping of its terminal loop. <i>Nucleic Acids Research</i> , 0, , .	6.5	8
120	Epstein-Barr Virus EBER Transcripts Affect miRNA-Mediated Regulation of Specific Targets and Are Processed to Small RNA Species. <i>Non-coding RNA</i> , 2015, 1, 170-191.	1.3	7
121	Gene Expression Signatures of a Preclinical Mouse Model during Colorectal Cancer Progression under Low-Dose Metronomic Chemotherapy. <i>Cancers</i> , 2021, 13, 49.	1.7	7
122	Domain confusion 2: m6A-independent role of YTHDC2. <i>Molecular Cell</i> , 2022, 82, 1608-1609.	4.5	7
123	Identification of microRNA Precursor-Associated Proteins. <i>Methods in Molecular Biology</i> , 2018, 1823, 103-114.	0.4	6
124	Molecular profiling of stem cell-like female germ line cells in <i>Drosophila</i> delineates networks important for stemness and differentiation. <i>Biology Open</i> , 2019, 8, .	0.6	6
125	Learning from Embryogenesis—A Comparative Expression Analysis in Melanoblast Differentiation and Tumorigenesis Reveals miRNAs Driving Melanoma Development. <i>Journal of Clinical Medicine</i> , 2021, 10, 2259.	1.0	5
126	Identification of novel targets of miR-622 in hepatocellular carcinoma reveals common regulation of cooperating genes and outlines the oncogenic role of zinc finger CCHC-type containing 11. <i>Neoplasia</i> , 2021, 23, 502-514.	2.3	5

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127	Peptide-Based Inhibition of miRNA-Guided Gene Silencing. <i>Methods in Molecular Biology</i> , 2017, 1517, 199-210.	0.4	3
128	Transcriptome and chromatin alterations in social fear indicate association of MEG3 with successful extinction of fear. <i>Molecular Psychiatry</i> , 2022, 27, 4064-4076.	4.1	3
129	OUP accepted manuscript. <i>Human Molecular Genetics</i> , 2021, , .	1.4	1
130	Library Selection with a Randomized Repertoire of β -Barrel Enzymes Results in Unexpected Induction of Gene Expression. <i>Biochemistry</i> , 2019, 58, 4207-4217.	1.2	0