Gunter Meister

List of Publications by Year
in descending order

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Version: 2024-02-01

130	20,087	22153	12946
papers	citations	59 h-index	131 g-index

135	135	135	23164
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Mechanisms of gene silencing by double-stranded RNA. Nature, 2004, 431, 343-349.	27.8	2,226
2	Human Argonaute2 Mediates RNA Cleavage Targeted by miRNAs and siRNAs. Molecular Cell, 2004, 15, 185-197.	9.7	1,699
3	Regulation of microRNA biogenesis and its crosstalk with other cellular pathways. Nature Reviews Molecular Cell Biology, 2019, 20, 5-20.	37.0	920
4	Argonaute proteins: functional insights and emerging roles. Nature Reviews Genetics, 2013, 14, 447-459.	16.3	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. Cell Cycle, 2007, 6, 1586-1593.	2.6	859
6	A Human snoRNA with MicroRNA-Like Functions. Molecular Cell, 2008, 32, 519-528.	9.7	738
7	Argonaute Proteins: Mediators of RNA Silencing. Molecular Cell, 2007, 26, 611-623.	9.7	627
8	Structural basis for 5â€²-end-specific recognition of guide RNA by the A. fulgidus Piwi protein. Nature, 2005, 434, 666-670.	27.8	596
9	Early dissemination seeds metastasis in breast cancer. Nature, 2016, 540, 552-558.	27.8	550
10	Sequence-specific inhibition of microRNA- and siRNA-induced RNA silencing. Rna, 2004, 10, 544-550.	3.5	536
11	Identification of Novel Argonaute-Associated Proteins. Current Biology, 2005, 15, 2149-2155.	3.9	487
12	Crystal Structure of A. aeolicus Argonaute, a Site-Specific DNA-Guided Endoribonuclease, Provides Insights into RISC-Mediated mRNA Cleavage. Molecular Cell, 2005, 19, 405-419.	9.7	349
13	Proteomic and functional analysis of Argonauteâ€containing mRNAâ€“protein complexes in human cells. EMBO Reports, 2007, 8, 1052-1060.	4.5	316
14	Interactions, localization, and phosphorylation of the m⁶A generating METTL3â€“METTL14â€“WTAP complex. Rna, 2018, 24, 499-512.	3.5	312
15	Methylation of Sm proteins by a complex containing PRMT5 and the putative U snRNP assembly factor pICln. Current Biology, 2001, 11, 1990-1994.	3.9	306
16	Importin 8 Is a Gene Silencing Factor that Targets Argonaute Proteins to Distinct mRNAs. Cell, 2009, 136, 496-507.	28.9	306
17	Epstein-Barr virus-encoded microRNA miR-BART2 down-regulates the viral DNA polymerase BALF5. Nucleic Acids Research, 2007, 36, 666-675.	14.5	295
18	A multiprotein complex mediates the ATP-dependent assembly of spliceosomal U snRNPs. Nature Cell Biology, 2001, 3, 945-949.	10.3	284

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19	Extensive terminal and asymmetric processing of small RNAs from rRNAs, snoRNAs, snRNAs, and tRNAs. Nucleic Acids Research, 2012, 40, 6787-6799.	14.5	276
20	Identification of Human microRNA Targets From Isolated Argonaute Protein Complexes. RNA Biology, 2007, 4, 76-84.	3.1	256
21	A Compendium of RNA-Binding Proteins that Regulate MicroRNA Biogenesis. Molecular Cell, 2017, 66, 270-284.e13.	9.7	241
22	Identification of Novel Epstein-Barr Virus MicroRNA Genes from Nasopharyngeal Carcinomas. Journal of Virology, 2009, 83, 3333-3341.	3.4	227
23	SMN-mediated assembly of RNPs: a complex story. Trends in Cell Biology, 2002, 12, 472-478.	7.9	210
24	Reduced U snRNP assembly causes motor axon degeneration in an animal model for spinal muscular atrophy. Genes and Development, 2005, 19, 2320-2330.	5.9	207
25	5â€² isomiR variation is of functional and evolutionary importance. Nucleic Acids Research, 2014, 42, 9424-9435.	14.5	203
26	Systematic Analysis of Viral and Cellular MicroRNA Targets in Cells Latently Infected with Human Î³-Herpesviruses by RISC Immunoprecipitation Assay. Cell Host and Microbe, 2010, 7, 324-334.	11.0	199
27	miRNAs Get an Early Start on Translational Silencing. Cell, 2007, 131, 25-28.	28.9	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. Genes and Development, 2003, 17, 2321-2333.	5.9	188
29	Argonaute proteins at a glance. Journal of Cell Science, 2010, 123, 1819-1823.	2.0	182
30	microRNAs associated with the different human Argonaute proteins. Nucleic Acids Research, 2012, 40, 9850-9862.	14.5	179
31	Strand-specific 5â€²-O-methylation of siRNA duplexes controls guide strand selection and targeting specificity. Rna, 2008, 14, 263-274.	3.5	174
32	Assisted RNP assembly: SMN and PRMT5 complexes cooperate in the formation of spliceosomal UsnRNPs. EMBO Journal, 2002, 21, 5853-5863.	7.8	173
33	Fluorescence correlation spectroscopy and fluorescence cross-correlation spectroscopy reveal the cytoplasmic origination of loaded nuclear RISC in vivo in human cells. Nucleic Acids Research, 2008, 36, 6439-6449.	14.5	173
34	Regulation of microRNA biogenesis and function. Thrombosis and Haemostasis, 2012, 107, 605-610.	3.4	171
35	The mammalian TRIM-NHL protein TRIM71/LIN-41 is a repressor of mRNA function. Nucleic Acids Research, 2013, 41, 518-532.	14.5	162
36	Phosphorylation of human Argonaute proteins affects small RNA binding. Nucleic Acids Research, 2011, 39, 2330-2343.	14.5	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.	7.8	141
38	Small RNAs derived from longer non-coding RNAs. Biochimie, 2011, 93, 1905-1915.	2.6	139
39	siPools: highly complex but accurately defined siRNA pools eliminate off-target effects. Nucleic Acids Research, 2014, 42, 8049-8061.	14.5	137
40	microRNA profiling in Epsteinâ€“Barr virus-associated B-cell lymphoma. Nucleic Acids Research, 2011, 39, 1880-1893.	14.5	132
41	A multifunctional human Argonaute2-specific monoclonal antibody. Rna, 2008, 14, 1244-1253.	3.5	128
42	The Lupus Autoantigen La Prevents Mis-channeling of tRNA Fragments into the Human MicroRNA Pathway. Molecular Cell, 2016, 63, 110-124.	9.7	107
43	Structural features of Argonauteâ€“GW182 protein interactions. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E3770-9.	7.1	98
44	Biogenic mechanisms and utilization of small RNAs derived from human protein-coding genes. Nature Structural and Molecular Biology, 2011, 18, 1075-1082.	8.2	94
45	Turning catalytically inactive human Argonaute proteins into active slicer enzymes. Nature Structural and Molecular Biology, 2013, 20, 814-817.	8.2	89
46	LIN28 Selectively Modulates a Subclass of Let-7 MicroRNAs. Molecular Cell, 2018, 71, 271-283.e5.	9.7	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.	7.1	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.	6.4	79
49	miRA: adaptable novel miRNA identification in plants using small RNA sequencing data. BMC Bioinformatics, 2015, 16, 370.	2.6	79
50	MicroRNA-mediated down-regulation of NKG2D ligands contributes to glioma immune escape. Oncotarget, 2014, 5, 7651-7662.	1.8	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.	2.9	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.	2.5	76
53	Micro<scp>RNA</scp>â€142 is mutated in about 20% of diffuse large <scp>B</scp>â€cell lymphoma. Cancer Medicine, 2012, 1, 141-155.	2.8	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.	5.9	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. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 10126-10131.	7.1	73
56	Assembly and function of small RNA â€“ Argonaute protein complexes. Biological Chemistry, 2014, 395, 611-629.	2.5	72
57	Phosphorylation of Argonaute proteins affects <scp>mRNA</scp> binding and is essential for micro <scp>RNA</scp> â€guided gene silencing inÂvivo. EMBO Journal, 2017, 36, 2088-2106.	7.8	69
58	MicroRNA-21â€“Dependent Macrophage-to-Fibroblast Signaling Determines the Cardiac Response to Pressure Overload. Circulation, 2021, 143, 1513-1525.	1.6	67
59	Phosphorylation regulates the activity of the SMN complex during assembly of spliceosomal U snRNPs. EMBO Reports, 2005, 6, 70-76.	4.5	63
60	Argonaute and GW182 proteins: an effective alliance in gene silencing. Biochemical Society Transactions, 2013, 41, 855-860.	3.4	62
61	siRNA Specificity: RNAi Mechanisms and Strategies to Reduce Off-Target Effects. Frontiers in Plant Science, 2020, 11, 526455.	3.6	62
62	The Slicer Activity of ARGONAUTE1 is Required Specifically for the Phasing, Not Production, of Trans-Acting Short Interfering RNAs in Arabidopsis. Plant Cell, 2016, 28, tpc.00121.2016.	6.6	62
63	A Circulating MicroRNA Profile Is Associated with Late-Stage Neovascular Age-Related Macular Degeneration. PLoS ONE, 2014, 9, e107461.	2.5	62
64	Increased siRNA duplex stability correlates with reduced off-target and elevated on-target effects. Rna, 2011, 17, 737-749.	3.5	61
65	Import routes and nuclear functions of Argonaute and other small RNA-silencing proteins. Trends in Biochemical Sciences, 2014, 39, 420-431.	7.5	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. Molecular and Cellular Proteomics, 2015, 14, 2609-2629.	3.8	59
67	Comprehensive analysis of translation from overexpressed circular RNAs reveals pervasive translation from linear transcripts. Nucleic Acids Research, 2020, 48, 10368-10382.	14.5	57
68	Reexamining assumptions about miRNA-guided gene silencing. Nucleic Acids Research, 2022, 50, 617-634.	14.5	57
69	The Long Non-coding RNA lnc-31 Interacts with Rock1 mRNA and Mediates Its YB-1-Dependent Translation. Cell Reports, 2018, 23, 733-740.	6.4	55
70	Dicer-dependent and -independent Argonaute2 Protein Interaction Networks in Mammalian Cells. Molecular and Cellular Proteomics, 2012, 11, 1442-1456.	3.8	53
71	Importin-Î² facilitates nuclear import of human GW proteins and balances cytoplasmic gene silencing protein levels. Nucleic Acids Research, 2015, 43, 7447-7461.	14.5	52
72	Epstein-Barr Virus Nuclear Antigen 2 Binds via Its Methylated Arginine-Glycine Repeat to the Survival Motor Neuron Protein. Journal of Virology, 2003, 77, 5008-5013.	3.4	49

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73	A precisely positioned MED12 activation helix stimulates CDK8 kinase activity. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 2894-2905.	7.1	47
74	Identification and Analysis of Expression of Novel MicroRNAs of Murine Gammaherpesvirus 68. Journal of Virology, 2010, 84, 10266-10275.	3.4	45
75	The Alazami Syndrome-Associated Protein LARP7 Guides U6 Small Nuclear RNA Modification and Contributes to Splicing Robustness. Molecular Cell, 2020, 77, 1014-1031.e13.	9.7	45
76	Balancing of mitochondrial translation through METTL8-mediated m3C modification of mitochondrial tRNAs. Molecular Cell, 2021, 81, 4810-4825.e12.	9.7	44
77	MicroRNAs: From Decay to Decoy. Cell, 2010, 140, 612-614.	28.9	43
78	Germline AGO2 mutations impair RNA interference and human neurological development. Nature Communications, 2020, 11, 5797.	12.8	43
79	The tumor suppressor Brat controls neuronal stem cell lineages by inhibiting Deadpan and Zelda. EMBO Reports, 2018, 19, 102-117.	4.5	41
80	Epigenetic Regulation of the Social Brain. Trends in Neurosciences, 2019, 42, 471-484.	8.6	41
81	LARP7-Mediated U6 snRNA Modification Ensures Splicing Fidelity and Spermatogenesis in Mice. Molecular Cell, 2020, 77, 999-1013.e6.	9.7	41
82	miR-155 targets Caspase-3 mRNA in activated macrophages. RNA Biology, 2016, 13, 43-58.	3.1	40
83	Control of glioma cell migration and invasiveness by GDF-15. Oncotarget, 2016, 7, 7732-7746.	1.8	40
84	The Arabidopsis THO/TREX component TEX1 functionally interacts with MOS11 and modulates mRNA export and alternative splicing events. Plant Molecular Biology, 2017, 93, 283-298.	3.9	39
85	Toward an Assembly Line for U7 snRNPs. Journal of Biological Chemistry, 2005, 280, 34435-34440.	3.4	38
86	Argonaute Family Protein Expression in Normal Tissue and Cancer Entities. PLoS ONE, 2016, 11, e0161165.	2.5	38
87	The TGF-Î²-inducible miR-23a cluster attenuates IFN-Î³ levels and antigen-specific cytotoxicity in human CD8+ T cells. Journal of Leukocyte Biology, 2014, 96, 633-645.	3.3	36
88	Transcriptomic profiling of platelet senescence and platelet extracellular vesicles. Transfusion, 2017, 57, 144-156.	1.6	36
89	Reconstitution of mammalian cleavage factor II involved in 3â€² processing of mRNA precursors. Rna, 2018, 24, 1721-1737.	3.5	36
90	MicroRNA Dysregulation in Pulmonary Arteries from Chronic Obstructive Pulmonary Disease. Relationships with Vascular Remodeling. American Journal of Respiratory Cell and Molecular Biology, 2018, 59, 490-499.	2.9	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.	2.5	33
92	A miRâ€155â€dependent microRNA hierarchy in dendritic cell maturation and macrophage activation. FEBS Letters, 2014, 588, 632-640.	2.8	32
93	Generation of catalytic human Ago4 identifies structural elements important for RNA cleavage. Rna, 2014, 20, 1532-1538.	3.5	31
94	Angiotensin-(1â€“9) prevents cardiomyocyte hypertrophy by controlling mitochondrial dynamics via miR-129-3p/PKIA pathway. Cell Death and Differentiation, 2020, 27, 2586-2604.	11.2	29
95	Inducible and reversible inhibition of miRNA-mediated gene repression in vivo. ELife, 2021, 10, .	6.0	23
96	Selective inhibition of miRNA processing by a herpesvirus-encoded miRNA. Nature, 2022, 605, 539-544.	27.8	23
97	Prevention of dsRNAâ€induced interferon signaling by AGO1x is linked to breast cancer cell proliferation. EMBO Journal, 2020, 39, e103922.	7.8	22
98	Noncoding RNAs that associate with YB-1 alter proliferation in prostate cancer cells. Rna, 2015, 21, 1159-1172.	3.5	20
99	MicroRNA dilution during oocyte growth disables the microRNA pathway in mammalian oocytes. Nucleic Acids Research, 2020, 48, 8050-8062.	14.5	20
100	Induction of exportin-5 expression during melanoma development supports the cellular behavior of human malignant melanoma cells. Oncotarget, 2016, 7, 62292-62304.	1.8	19
101	Single-molecule FRET uncovers hidden conformations and dynamics of human Argonaute 2. Nature Communications, 2022, 13, .	12.8	19
102	Validation strategies for antibodies targeting modified ribonucleotides. Rna, 2020, 26, 1489-1506.	3.5	18
103	Ultrastructural characterisation of a nuclear domain highly enriched in survival of motor neuron (SMN) protein. Experimental Cell Research, 2004, 292, 312-321.	2.6	17
104	Conserved asymmetry underpins homodimerization of Dicer-associated double-stranded RNA-binding proteins. Nucleic Acids Research, 2017, 45, 12577-12584.	14.5	17
105	DrosophilaSister-of-Sex-lethal reinforces a male-specific gene expression pattern by controllingSex-lethalalternative splicing. Nucleic Acids Research, 2019, 47, 2276-2288.	14.5	17
106	From t<scp>RNA</scp> to mi<scp>RNA</scp>:<scp> RNA</scp>â€folding contributes to correct entry into noncoding <scp>RNA</scp> pathways. FEBS Letters, 2016, 590, 2354-2363.	2.8	16
107	Gene silencing pathways found in the green alga Volvox carteri reveal insights into evolution and origins of small RNA systems in plants. BMC Genomics, 2016, 17, 853.	2.8	15
108	RNA Binding of PRC2: Promiscuous or Well Ordered?. Molecular Cell, 2014, 55, 157-158.	9.7	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. Cell Reports, 2020, 30, 3793-3805.e5.	6.4	14
110	Stabilize and connect: the role of LARP7 in nuclear non-coding RNA metabolism. RNA Biology, 2021, 18, 290-303.	3.1	14
111	MicroRNA-sequencing data analyzing melanoma development and progression. Experimental and Molecular Pathology, 2018, 105, 371-379.	2.1	13
112	Determination of enrichment factors for modified RNA in MeRIP experiments. Methods, 2019, 156, 102-109.	3.8	12
113	The Coxiella burnetii T4SS effector protein AnkG hijacks the 7SK small nuclear ribonucleoprotein complex for reprogramming host cell transcription. PLoS Pathogens, 2022, 18, e1010266.	4.7	12
114	Slug Is Increased in Vascular Remodeling and Induces a Smooth Muscle Cell Proliferative Phenotype. PLoS ONE, 2016, 11, e0159460.	2.5	11
115	Structural and functional insights into the fly microRNA biogenesis factor Loquacious. Rna, 2016, 22, 383-396.	3.5	11
116	The nuclear matrix protein Matr3 regulates processing of the synaptic microRNA-138-5p. Neurobiology of Learning and Memory, 2019, 159, 36-45.	1.9	11
117	Siteâ€Specific Labelling of Native Mammalian Proteins for Singleâ€Molecule FRET Measurements. ChemBioChem, 2018, 19, 780-783.	2.6	10
118	RNA Interference in the Nucleus. Science, 2008, 321, 496-497.	12.6	8
119	Regulated dicing of pre-mir-144 via reshaping of its terminal loop. Nucleic Acids Research, 0, , .	14.5	8
120	Epstein-Barr Virus EBER Transcripts Affect miRNA-Mediated Regulation of Specific Targets and Are Processed to Small RNA Species. Non-coding RNA, 2015, 1, 170-191.	2.6	7
121	Gene Expression Signatures of a Preclinical Mouse Model during Colorectal Cancer Progression under Low-Dose Metronomic Chemotherapy. Cancers, 2021, 13, 49.	3.7	7
122	Domain confusion 2: m6A-independent role of YTHDC2. Molecular Cell, 2022, 82, 1608-1609.	9.7	7
123	Identification of microRNA Precursor-Associated Proteins. Methods in Molecular Biology, 2018, 1823, 103-114.	0.9	6
124	Molecular profiling of stem cell-like female germ line cells in Drosophila delineates networks important for stemness and differentiation. Biology Open, 2019, 8, .	1.2	6
125	Learning from Embryogenesisâ€"A Comparative Expression Analysis in Melanoblast Differentiation and Tumorigenesis Reveals miRNAs Driving Melanoma Development. Journal of Clinical Medicine, 2021, 10, 2259.	2.4	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. Neoplasia, 2021, 23, 502-514.	5.3	5

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127	Peptide-Based Inhibition of miRNA-Guided Gene Silencing. Methods in Molecular Biology, 2017, 1517, 199-210.	0.9	3
128	Transcriptome and chromatin alterations in social fear indicate association of MEG3 with successful extinction of fear. Molecular Psychiatry, 2022, 27, 4064-4076.	7.9	3
129	OUP accepted manuscript. Human Molecular Genetics, 2021, , .	2.9	1
130	Library Selection with a Randomized Repertoire of (Î²Î±)₈-Barrel Enzymes Results in Unexpected Induction of Gene Expression. Biochemistry, 2019, 58, 4207-4217.	2.5	0