

Petr Svoboda

List of Publications by Year in descending order

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Version: 2024-02-01

88
papers

5,267
citations

126708

33
h-index

91712

69
g-index

97
all docs

97
docs citations

97
times ranked

6483
citing authors

#	ARTICLE	IF	CITATIONS
1	MicroRNAs control de novo DNA methylation through regulation of transcriptional repressors in mouse embryonic stem cells. <i>Nature Structural and Molecular Biology</i> , 2008, 15, 259-267.	3.6	451
2	Disruption of the Mouse mTOR Gene Leads to Early Postimplantation Lethality and Prohibits Embryonic Stem Cell Development. <i>Molecular and Cellular Biology</i> , 2004, 24, 9508-9516.	1.1	427
3	Maternal BRG1 regulates zygotic genome activation in the mouse. <i>Genes and Development</i> , 2006, 20, 1744-1754.	2.7	293
4	Transgenic RNAi Reveals Essential Function for CTCF in H19 Gene Imprinting. <i>Science</i> , 2004, 303, 238-240.	6.0	261
5	A Retrotransposon-Driven Dicer Isoform Directs Endogenous Small Interfering RNA Production in Mouse Oocytes. <i>Cell</i> , 2013, 155, 807-816.	13.5	238
6	MicroRNA Activity Is Suppressed in Mouse Oocytes. <i>Current Biology</i> , 2010, 20, 265-270.	1.8	220
7	RNAi and expression of retrotransposons MuERV-L and IAP in preimplantation mouse embryos. <i>Developmental Biology</i> , 2004, 269, 276-285.	0.9	194
8	Effects of Dicer and Argonaute down-regulation on mRNA levels in human HEK293 cells. <i>Nucleic Acids Research</i> , 2006, 34, 4801-4815.	6.5	178
9	Hairpin RNA: a secondary structure of primary importance. <i>Cellular and Molecular Life Sciences</i> , 2006, 63, 901-908.	2.4	176
10	The first murine zygotic transcription is promiscuous and uncoupled from splicing and 3' processing. <i>EMBO Journal</i> , 2015, 34, 1523-1537.	3.5	131
11	Long terminal repeats power evolution of genes and gene expression programs in mammalian oocytes and zygotes. <i>Genome Research</i> , 2017, 27, 1384-1394.	2.4	129
12	P-Body Loss Is Concomitant with Formation of a Messenger RNA Storage Domain in Mouse Oocytes1. <i>Biology of Reproduction</i> , 2010, 82, 1008-1017.	1.2	125
13	RNAi in Mouse Oocytes and Preimplantation Embryos: Effectiveness of Hairpin dsRNA. <i>Biochemical and Biophysical Research Communications</i> , 2001, 287, 1099-1104.	1.0	124
14	Transgenic RNAi in mouse oocytes: a simple and fast approach to study gene function. <i>Developmental Biology</i> , 2003, 256, 188-194.	0.9	120
15	Stochastic NANOG fluctuations allow mouse embryonic stem cells to explore pluripotency. <i>Development (Cambridge)</i> , 2014, 141, 2770-2779.	1.2	120
16	The oocyte-to-embryo transition in mouse: past, present, and future. <i>Biology of Reproduction</i> , 2018, 99, 160-174.	1.2	120
17	Sculpting the Transcriptome During the Oocyte-to-Embryo Transition in Mouse. <i>Current Topics in Developmental Biology</i> , 2015, 113, 305-349.	1.0	117
18	Regulation of Zygotic Gene Activation in the Preimplantation Mouse Embryo: Global Activation and Repression of Gene Expression1. <i>Biology of Reproduction</i> , 2001, 64, 1713-1721.	1.2	113

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19	RNAi: Mammalian oocytes do it without RNA-dependent RNA polymerase. <i>Rna</i> , 2003, 9, 187-192.	1.6	112
20	Reprogramming of gene expression during preimplantation development. , 1999, 285, 276-282.		108
21	The role of miRNAs and endogenous siRNAs in maternalâ€”zygotic reprogramming and the establishment of pluripotency. <i>EMBO Reports</i> , 2010, 11, 590-597.	2.0	86
22	Maternally Recruited DCP1A and DCP2 Contribute to Messenger RNA Degradation During Oocyte Maturation and Genome Activation in Mouse1. <i>Biology of Reproduction</i> , 2013, 88, 11.	1.2	77
23	TAL effectors: tools for DNA Targeting. <i>Briefings in Functional Genomics</i> , 2014, 13, 409-419.	1.3	76
24	Mammalian zygotic genome activation. <i>Seminars in Cell and Developmental Biology</i> , 2018, 84, 118-126.	2.3	69
25	Dicer Is Associated with Ribosomal DNA Chromatin in Mammalian Cells. <i>PLoS ONE</i> , 2010, 5, e12175.	1.1	68
26	Off-targeting and other non-specific effects of RNAi experiments in mammalian cells. <i>Current Opinion in Molecular Therapeutics</i> , 2007, 9, 248-57.	2.8	67
27	Intracellular Localization and Routing of miRNA and RNAi Pathway Components. <i>Current Topics in Medicinal Chemistry</i> , 2012, 12, 79-88.	1.0	49
28	Renaissance of mammalian endogenous RNAi. <i>FEBS Letters</i> , 2014, 588, 2550-2556.	1.3	47
29	Lack of homologous sequence-specific DNA methylation in response to stable dsRNA expression in mouse oocytes. <i>Nucleic Acids Research</i> , 2004, 32, 3601-3606.	6.5	43
30	dsRNA expression in the mouse elicits RNAi in oocytes and low adenosine deamination in somatic cells. <i>Nucleic Acids Research</i> , 2012, 40, 399-413.	6.5	43
31	Production of small RNAs by mammalian Dicer. <i>Pflugers Archiv European Journal of Physiology</i> , 2016, 468, 1089-1102.	1.3	41
32	Long non-coding RNA exchange during the oocyte-to-embryo transition in mice. <i>DNA Research</i> , 2017, 24, dsw058.	1.5	37
33	Key Mechanistic Principles and Considerations Concerning RNA Interference. <i>Frontiers in Plant Science</i> , 2020, 11, 1237.	1.7	37
34	Role of <i>Cnot6l</i> in maternal mRNA turnover. <i>Life Science Alliance</i> , 2018, 1, e201800084.	1.3	37
35	Long dsRNA and silent genes strike back:RNAi in mouse oocytes and early embryos. <i>Cytogenetic and Genome Research</i> , 2004, 105, 422-434.	0.6	36
36	Deep Sequencing Reveals Complex Spurious Transcription from Transiently Transfected Plasmids. <i>PLoS ONE</i> , 2012, 7, e43283.	1.1	32

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37	Smad5, a tumor suppressor candidate at 5q31.1, is hemizygotously lost and not mutated in the retained allele in human leukemia cell line HL60. <i>Leukemia</i> , 1997, 11, 1187-1192.	3.3	30
38	A toolbox for miRNA analysis. <i>FEBS Letters</i> , 2015, 589, 1694-1701.	1.3	29
39	Formation of spermatogonia and fertile oocytes in golden hamsters requires piRNAs. <i>Nature Cell Biology</i> , 2021, 23, 992-1001.	4.6	29
40	Abundant transcripts from retrotransposons are unstable in fully grown mouse oocytes. <i>Biochemical and Biophysical Research Communications</i> , 2006, 347, 36-43.	1.0	27
41	Restricted and non-essential redundancy of RNAi and piRNA pathways in mouse oocytes. <i>PLoS Genetics</i> , 2019, 15, e1008261.	1.5	27
42	Long and small noncoding RNAs during oocyte-to-embryo transition in mammals. <i>Biochemical Society Transactions</i> , 2017, 45, 1117-1124.	1.6	25
43	The most abundant maternal lncRNA Sirena1 acts post-transcriptionally and impacts mitochondrial distribution. <i>Nucleic Acids Research</i> , 2020, 48, 3211-3227.	6.5	25
44	Lin28a Is Dormant, Functional, and Dispensable During Mouse Oocyte-to-Embryo Transition1. <i>Biology of Reproduction</i> , 2014, 90, 131.	1.2	20
45	An oocyte-specific ELAVL2 isoform is a translational repressor ablated from meiotically competent antral oocytes. <i>Cell Cycle</i> , 2014, 13, 1187-1200.	1.3	20
46	Retrotransposon-associated long non-coding RNAs in mice and men. <i>Pflügers Archiv European Journal of Physiology</i> , 2016, 468, 1049-1060.	1.3	20
47	MicroRNA dilution during oocyte growth disables the microRNA pathway in mammalian oocytes. <i>Nucleic Acids Research</i> , 2020, 48, 8050-8062.	6.5	20
48	Why mouse oocytes and early embryos ignore miRNAs?. <i>RNA Biology</i> , 2010, 7, 559-563.	1.5	19
49	Reporters Transiently Transfected into Mammalian Cells Are Highly Sensitive to Translational Repression Induced by dsRNA Expression. <i>PLoS ONE</i> , 2014, 9, e87517.	1.1	16
50	An Antisense Transcript to SMAD5 Expressed in Fetal and Tumor Tissues. <i>Biochemical and Biophysical Research Communications</i> , 1999, 255, 668-672.	1.0	15
51	Accumulation of the Proteolytic Marker Peptide Ubiquitin in the Trophoblast of Mammalian Blastocysts. <i>Cloning and Stem Cells</i> , 2001, 3, 157-161.	2.6	15
52	Literature review of baseline information to support the risk assessment of RNAi-based GM plants. <i>EFSA Supporting Publications</i> , 2017, 14, 1246E.	0.3	15
53	RNA Silencing in Mammalian Oocytes and Early Embryos. <i>Current Topics in Microbiology and Immunology</i> , 2008, 320, 225-256.	0.7	15
54	Nuclear LSM8 affects number of cytoplasmic processing bodies via controlling cellular distribution of Like-Sm proteins. <i>Molecular Biology of the Cell</i> , 2012, 23, 3776-3785.	0.9	14

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55	Ribonucleoprotein localization in mouse oocytes. <i>Methods</i> , 2011, 53, 136-141.	1.9	13
56	Main constraints for RNAi induced by expressed long dsRNA in mouse cells. <i>Life Science Alliance</i> , 2019, 2, e201800289.	1.3	13
57	RNAi Experiments in Mouse Oocytes and Early Embryos. <i>Cold Spring Harbor Protocols</i> , 2009, 2009, pdb.top56-pdb.top56.	0.2	11
58	Targeting genes in living mammals by RNA interference. <i>Briefings in Functional Genomics</i> , 2011, 10, 238-247.	1.3	11
59	Production and Application of Long dsRNA in Mammalian Cells. <i>Methods in Molecular Biology</i> , 2013, 942, 291-314.	0.4	10
60	Fluorescence-Based High-Throughput Screening of Dicer Cleavage Activity. <i>Journal of Biomolecular Screening</i> , 2014, 19, 417-426.	2.6	10
61	Clearance of Parental Products. <i>Advances in Experimental Medicine and Biology</i> , 2017, 953, 489-535.	0.8	10
62	The Potential Regulation of L1 Mobility by RNA Interference. <i>Journal of Biomedicine and Biotechnology</i> , 2006, 2006, 1-8.	3.0	9
63	Cloning and Sequencing an Inverted Repeat. <i>Cold Spring Harbor Protocols</i> , 2009, 2009, pdb.ip64-pdb.ip64.	0.2	9
64	Choosing the Sequence of dsRNA for RNAi in Mouse. <i>Cold Spring Harbor Protocols</i> , 2009, 2009, pdb.ip63.	0.2	9
65	Cell-Based Reporter System for High-Throughput Screening of MicroRNA Pathway Inhibitors and Its Limitations. <i>Frontiers in Genetics</i> , 2018, 9, 45.	1.1	9
66	Analysis of the Role of RecQ Helicases in RNAi in Mammals. <i>Biochemical and Biophysical Research Communications</i> , 2002, 291, 1119-1122.	1.0	8
67	Cloning a Transgene for Transgenic RNAi in Mouse Oocytes. <i>Cold Spring Harbor Protocols</i> , 2009, 2009, pdb.prot5134-pdb.prot5134.	0.2	8
68	Shortcomings of short hairpin RNA-based transgenic RNA interference in mouse oocytes. <i>Journal of Negative Results in Biomedicine</i> , 2010, 9, 8.	1.4	8
69	Preparation of dsRNA for Microinjection Experiments in Mouse. <i>Cold Spring Harbor Protocols</i> , 2009, 2009, pdb.prot5131-pdb.prot5131.	0.2	7
70	Microinjection of dsRNA into Mouse Oocytes and Early Embryos. <i>Cold Spring Harbor Protocols</i> , 2006, 2006, pdb.prot4511-pdb.prot4511.	0.2	6
71	Transgenic RNAi in mouse oocytes: The first decade. <i>Animal Reproduction Science</i> , 2012, 134, 64-68.	0.5	5
72	RNAi-Based Methods for Gene Silencing in Mouse Oocytes. <i>Methods in Molecular Biology</i> , 2013, 957, 135-151.	0.4	5

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73	Control of the Interferon Response in RNAi Experiments. <i>Methods in Molecular Biology</i> , 2012, 820, 133-161.	0.4	5
74	The Canonical RNA Interference Pathway in Animals. , 2012, , 111-149.		4
75	Physiologically relevant miRNAs in mammalian oocytes are rare and highly abundant. <i>EMBO Reports</i> , 2022, 23, e53514.	2.0	4
76	miRNA, piRNA, siRNA – kleine wiener ribonukleinsäuren. <i>BioEssays</i> , 2007, 29, 940-943.	1.2	2
77	Preparation of dsRNA Molecules for RNAi in Mouse Oocytes and Early Embryos. <i>Cold Spring Harbor Protocols</i> , 2006, 2006, pdb.prot4508-pdb.prot4508.	0.2	2
78	Collection of Mouse Oocytes for RNAi. <i>Cold Spring Harbor Protocols</i> , 2006, 2006, pdb.prot4509-pdb.prot4509.	0.2	1
79	Collection of Early Mouse Embryos for RNAi. <i>Cold Spring Harbor Protocols</i> , 2006, 2006, pdb.prot4510-pdb.prot4510.	0.2	1
80	RNA Isolation and RT-PCR from dsRNA-Treated Mouse Oocytes and Early Embryos. <i>Cold Spring Harbor Protocols</i> , 2006, 2006, pdb.prot4513-pdb.prot4513.	0.2	1
81	CRISPR-Induced Expression of N-Terminally Truncated Dicer in Mouse Cells. <i>Genes</i> , 2021, 12, 540.	1.0	0
82	Role of Maturation-Associated Recruitment of Dcp1a and Dcp2 in Degradation of Maternal mRNA. <i>Biology of Reproduction</i> , 2010, 83, 72-72.	1.2	0
83	Restricted and non-essential redundancy of RNAi and piRNA pathways in mouse oocytes. , 2019, 15, e1008261.		0
84	Restricted and non-essential redundancy of RNAi and piRNA pathways in mouse oocytes. , 2019, 15, e1008261.		0
85	Restricted and non-essential redundancy of RNAi and piRNA pathways in mouse oocytes. , 2019, 15, e1008261.		0
86	Restricted and non-essential redundancy of RNAi and piRNA pathways in mouse oocytes. , 2019, 15, e1008261.		0
87	Restricted and non-essential redundancy of RNAi and piRNA pathways in mouse oocytes. , 2019, 15, e1008261.		0
88	Restricted and non-essential redundancy of RNAi and piRNA pathways in mouse oocytes. , 2019, 15, e1008261.		0