

Hannele Ruohola-Baker

List of Publications by Citations

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106
papers

10,045
citations

45
h-index

100
g-index

117
ext. papers

11,398
ext. citations

10.1
avg, IF

6
L-index

#	Paper	IF	Citations
106	Electrospinning of Polymeric and Ceramic Nanofibers as Uniaxially Aligned Arrays. <i>Nano Letters</i> , 2003 , 3, 1167-1171	11.5	1256
105	A solution-phase, precursor route to polycrystalline SnO ₂ nanowires that can be used for gas sensing under ambient conditions. <i>Journal of the American Chemical Society</i> , 2003 , 125, 16176-7	16.4	877
104	Stem cell division is regulated by the microRNA pathway. <i>Nature</i> , 2005 , 435, 974-8	50.4	581
103	Ethylene glycol-mediated synthesis of metal oxide nanowires. <i>Journal of Materials Chemistry</i> , 2004 , 14, 695		466
102	HIF induces human embryonic stem cell markers in cancer cells. <i>Cancer Research</i> , 2011 , 71, 4640-52	10.1	390
101	HIF1 α -induced switch from bivalent to exclusively glycolytic metabolism during ESC-to-EpiSC/hESC transition. <i>EMBO Journal</i> , 2012 , 31, 2103-16	13	368
100	Bottom-Up and Top-Down Approaches to the Synthesis of Monodispersed Spherical Colloids of Low Melting-Point Metals. <i>Nano Letters</i> , 2004 , 4, 2047-2050	11.5	354
99	Derivation of naive human embryonic stem cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 4484-9	11.5	344
98	Transient posterior localization of a kinesin fusion protein reflects anteroposterior polarity of the <i>Drosophila</i> oocyte. <i>Current Biology</i> , 1994 , 4, 289-300	6.3	269
97	Tri-iodo-L-thyronine promotes the maturation of human cardiomyocytes-derived from induced pluripotent stem cells. <i>Journal of Molecular and Cellular Cardiology</i> , 2014 , 72, 296-304	5.8	254
96	The metabolome regulates the epigenetic landscape during naive-to-primed human embryonic stem cell transition. <i>Nature Cell Biology</i> , 2015 , 17, 1523-35	23.4	249
95	MicroRNA discovery and profiling in human embryonic stem cells by deep sequencing of small RNA libraries. <i>Stem Cells</i> , 2008 , 26, 2496-505	5.8	247
94	Maelstrom, a <i>Drosophila</i> spindle-class gene, encodes a protein that colocalizes with Vasa and RDE1/AGO1 homolog, Aubergine, in nuage. <i>Development (Cambridge)</i> , 2003 , 130, 859-71	6.6	203
93	Hypoxia-inducible factors have distinct and stage-specific roles during reprogramming of human cells to pluripotency. <i>Cell Stem Cell</i> , 2014 , 14, 592-605	18	163
92	Let-7 family of microRNA is required for maturation and adult-like metabolism in stem cell-derived cardiomyocytes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, E2785-94	11.5	160
91	Notch-Delta signaling induces a transition from mitotic cell cycle to endocycle in <i>Drosophila</i> follicle cells. <i>Development (Cambridge)</i> , 2001 , 128, 4737-4746	6.6	150
90	Dystroglycan is required for polarizing the epithelial cells and the oocyte in <i>Drosophila</i> . <i>Development (Cambridge)</i> , 2003 , 130, 173-84	6.6	141

89	Spatially localized rhomboid is required for establishment of the dorsal-ventral axis in <i>Drosophila</i> oogenesis. <i>Cell</i> , 1993 , 73, 953-65	56.2	139
88	Characterization of microRNAs involved in embryonic stem cell states. <i>Stem Cells and Development</i> , 2010 , 19, 935-50	4.4	138
87	microRNAs regulate human embryonic stem cell division. <i>Cell Cycle</i> , 2009 , 8, 3729-41	4.7	138
86	Single-Cell Transcriptomic Analysis of Cardiac Differentiation from Human PSCs Reveals HOPX-Dependent Cardiomyocyte Maturation. <i>Cell Stem Cell</i> , 2018 , 23, 586-598.e8	18	131
85	microRNA and stem cell function. <i>Cell and Tissue Research</i> , 2008 , 331, 57-66	4.2	128
84	Stem cells signal to the niche through the Notch pathway in the <i>Drosophila</i> ovary. <i>Current Biology</i> , 2006 , 16, 2352-8	6.3	117
83	The mitotic-to-endocycle switch in <i>Drosophila</i> follicle cells is executed by Notch-dependent regulation of G1/S, G2/M and M/G1 cell-cycle transitions. <i>Development (Cambridge)</i> , 2004 , 131, 3169-81	6.6	109
82	Dissecting muscle and neuronal disorders in a <i>Drosophila</i> model of muscular dystrophy. <i>EMBO Journal</i> , 2007 , 26, 481-93	13	105
81	Characterization of differentially expressed genes in purified <i>Drosophila</i> follicle cells: toward a general strategy for cell type-specific developmental analysis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999 , 96, 5559-64	11.5	101
80	Regulation of stem cell populations by microRNAs. <i>Advances in Experimental Medicine and Biology</i> , 2013 , 786, 329-51	3.6	96
79	Fatty Acids Enhance the Maturation of Cardiomyocytes Derived from Human Pluripotent Stem Cells. <i>Stem Cell Reports</i> , 2019 , 13, 657-668	8	93
78	Metabolic remodeling during the loss and acquisition of pluripotency. <i>Development (Cambridge)</i> , 2017 , 144, 541-551	6.6	92
77	Small RNAs: keeping stem cells in line. <i>Cell</i> , 2008 , 132, 563-6	56.2	92
76	Hypoxia induces re-entry of committed cells into pluripotency. <i>Stem Cells</i> , 2013 , 31, 1737-48	5.8	89
75	Dystrophin-deficient cardiomyocytes derived from human urine: new biologic reagents for drug discovery. <i>Stem Cell Research</i> , 2014 , 12, 467-80	1.6	87
74	Notch-dependent Fizzy-related/Hec1/Cdh1 expression is required for the mitotic-to-endocycle transition in <i>Drosophila</i> follicle cells. <i>Current Biology</i> , 2004 , 14, 630-6	6.3	83
73	Mosaic analysis in the <i>drosophila</i> ovary reveals a common hedgehog-inducible precursor stage for stalk and polar cells. <i>Genetics</i> , 1999 , 151, 739-48	4	75
72	The homeobox gene mirror links EGF signalling to embryonic dorso-ventral axis formation through notch activation. <i>Nature Genetics</i> , 2000 , 24, 429-33	36.3	74

71	The MicroRNA pathway plays a regulatory role in stem cell division. <i>Cell Cycle</i> , 2006 , 5, 172-5	4.7	71
70	Gene-Edited Human Kidney Organoids Reveal Mechanisms of Disease in Podocyte Development. <i>Stem Cells</i> , 2017 , 35, 2366-2378	5.8	67
69	Pointed, an ETS domain transcription factor, negatively regulates the EGF receptor pathway in <i>Drosophila</i> oogenesis. <i>Development (Cambridge)</i> , 1996 , 122, 3745-3754	6.6	67
68	Wnt/ β -catenin signaling promotes self-renewal and inhibits the primed state transition in naïve human embryonic stem cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E6382-E6390	11.5	67
67	maelstrom is required for an early step in the establishment of <i>Drosophila</i> oocyte polarity: posterior localization of grk mRNA. <i>Development (Cambridge)</i> , 1997 , 124, 4661-4671	6.6	65
66	Expression of constitutively active Notch arrests follicle cells at a precursor stage during <i>Drosophila</i> oogenesis and disrupts the anterior-posterior axis of the oocyte. <i>Development (Cambridge)</i> , 1996 , 122, 3639-3650	6.6	63
65	Dicer-1-dependent Dacapo suppression acts downstream of Insulin receptor in regulating cell division of <i>Drosophila</i> germline stem cells. <i>Development (Cambridge)</i> , 2009 , 136, 1497-507	6.6	57
64	Stage-specific differences in the requirements for germline stem cell maintenance in the <i>Drosophila</i> ovary. <i>Cell Stem Cell</i> , 2007 , 1, 698-709	18	53
63	Single Crystalline Nanowires of Lead Can Be Synthesized through Thermal Decomposition of Lead Acetate in Ethylene Glycol. <i>Nano Letters</i> , 2003 , 3, 1163-1166	11.5	53
62	Genetic modifier screens reveal new components that interact with the <i>Drosophila</i> dystroglycan-dystrophin complex. <i>PLoS ONE</i> , 2008 , 3, e2418	3.7	50
61	Increased sphingosine-1-phosphate improves muscle regeneration in acutely injured mdx mice. <i>Skeletal Muscle</i> , 2013 , 3, 20	5.1	45
60	Molecular mechanism of sphingosine-1-phosphate action in Duchenne muscular dystrophy. <i>DMM Disease Models and Mechanisms</i> , 2014 , 7, 41-54	4.1	45
59	Role of Notch pathway in terminal follicle cell differentiation during <i>Drosophila</i> oogenesis. <i>Development Genes and Evolution</i> , 1999 , 209, 301-11	1.8	44
58	Laminin A is required for follicle cell-oocyte signaling that leads to establishment of the anterior-posterior axis in <i>Drosophila</i> . <i>Current Biology</i> , 2000 , 10, 683-6	6.3	42
57	Border of Notch activity establishes a boundary between the two dorsal appendage tube cell types. <i>Developmental Biology</i> , 2006 , 297, 461-70	3.1	41
56	Metabolic remodeling in early development and cardiomyocyte maturation. <i>Seminars in Cell and Developmental Biology</i> , 2016 , 52, 84-92	7.5	41
55	Notch signaling through tramtrack bypasses the mitosis promoting activity of the JNK pathway in the mitotic-to-endocycle transition of <i>Drosophila</i> follicle cells. <i>BMC Developmental Biology</i> , 2006 , 6, 16	3.1	40
54	WNT/ β -catenin signaling regulates mitochondrial activity to alter the oncogenic potential of melanoma in a PTEN-dependent manner. <i>Oncogene</i> , 2017 , 36, 3119-3136	9.2	39

53	TFPa/HADHA is required for fatty acid beta-oxidation and cardiolipin re-modeling in human cardiomyocytes. <i>Nature Communications</i> , 2019 , 10, 4671	17.4	37
52	MicroRNA regulation and role in stem cell maintenance, cardiac differentiation and hypertrophy. <i>Current Molecular Medicine</i> , 2013 , 13, 757-64	2.5	37
51	The role of gene cassettes in axis formation during <i>Drosophila</i> oogenesis. <i>Trends in Genetics</i> , 1994 , 10, 89-94	8.5	35
50	Designed proteins assemble antibodies into modular nanocages. <i>Science</i> , 2021 , 372,	33.3	35
49	Design of biologically active binary protein 2D materials. <i>Nature</i> , 2021 , 589, 468-473	50.4	33
48	Tie-mediated signal from apoptotic cells protects stem cells in <i>Drosophila melanogaster</i> . <i>Nature Communications</i> , 2015 , 6, 7058	17.4	32
47	Assessment of hypoxia inducible factor levels in cancer cell lines upon hypoxic induction using a novel reporter construct. <i>PLoS ONE</i> , 2011 , 6, e27460	3.7	31
46	Metabolic Control over mTOR-Dependent Diapause-like State. <i>Developmental Cell</i> , 2020 , 52, 236-250.e710.2		29
45	Genetic elevation of sphingosine 1-phosphate suppresses dystrophic muscle phenotypes in <i>Drosophila</i> . <i>Development (Cambridge)</i> , 2013 , 140, 136-46	6.6	29
44	Genome wide analysis of transcript levels after perturbation of the EGFR pathway in the <i>Drosophila</i> ovary. <i>Developmental Dynamics</i> , 2005 , 232, 709-24	2.9	28
43	F-domain valency determines outcome of signaling through the angiopoietin pathway 2020 ,		28
42	Folliculin regulates mTORC1/2 and WNT pathways in early human pluripotency. <i>Nature Communications</i> , 2019 , 10, 632	17.4	25
41	First critical repressive H3K27me3 marks in embryonic stem cells identified using designed protein inhibitor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 10125-10130	11.5	24
40	Expression of constitutively active Notch arrests follicle cells at a precursor stage during <i>Drosophila</i> oogenesis and disrupts the anterior-posterior axis of the oocyte. <i>Development (Cambridge)</i> , 1996 , 122, 3639-50	6.6	24
39	Maelstrom is required to position the MTOC in stage 2-6 <i>Drosophila</i> oocytes. <i>Development Genes and Evolution</i> , 2001 , 211, 44-8	1.8	23
38	Enhancer Chromatin and 3D Genome Architecture Changes from Naive to Primed Human Embryonic Stem Cell States. <i>Stem Cell Reports</i> , 2019 , 12, 1129-1144	8	22
37	miRNA sensitivity to Drosha levels correlates with pre-miRNA secondary structure. <i>Rna</i> , 2014 , 20, 621-315.8		19
36	A putative Src homology 3 domain binding motif but not the C-terminal dystroglycan WW domain binding motif is required for dystroglycan function in cellular polarity in <i>Drosophila</i> . <i>Journal of Biological Chemistry</i> , 2007 , 282, 15159-69	5.4	19

35	Drosophila melanogaster as a Model of Muscle Degeneration Disorders. <i>Current Topics in Developmental Biology</i> , 2017 , 121, 83-109	5.3	17
34	Dystroglycan and mitochondrial ribosomal protein L34 regulate differentiation in the Drosophila eye. <i>PLoS ONE</i> , 2010 , 5, e10488	3.7	17
33	Integrated epigenomic profiling reveals endogenous retrovirus reactivation in renal cell carcinoma. <i>EBioMedicine</i> , 2019 , 41, 427-442	8.8	16
32	Chronic hypoxia impairs muscle function in the Drosophila model of Duchenne's muscular dystrophy (DMD). <i>PLoS ONE</i> , 2010 , 5, e13450	3.7	14
31	Mature Let-7 miRNAs fine tune expression of LIN28B in pluripotent human embryonic stem cells. <i>Stem Cell Research</i> , 2016 , 17, 498-503	1.6	14
30	Metabolism as an early predictor of DPSCs aging. <i>Scientific Reports</i> , 2019 , 9, 2195	4.9	14
29	Design of protein binding proteins from target structure alone.. <i>Nature</i> , 2022 ,	50.4	13
28	Embryonal carcinoma cell induction of miRNA and mRNA changes in co-cultured prostate stromal fibromuscular cells. <i>Journal of Cellular Physiology</i> , 2011 , 226, 1479-88	7	12
27	Loss of rescues stem cell aging in germ line. <i>ELife</i> , 2017 , 6,	8.9	11
26	Drosophila as a starting point for developing therapeutics for the rare disease Duchenne Muscular Dystrophy. <i>Rare Diseases (Austin, Tex)</i> , 2013 , 1, e24995		10
25	The conserved WW-domain binding sites in Dystroglycan C-terminus are essential but partially redundant for Dystroglycan function. <i>BMC Developmental Biology</i> , 2009 , 9, 18	3.1	9
24	Fringe-dependent notch activation and tramtrack function are required for specification of the polar cells in Drosophila oogenesis. <i>Developmental Dynamics</i> , 2005 , 232, 1013-20	2.9	9
23	PIXUL-ChIP: integrated high-throughput sample preparation and analytical platform for epigenetic studies. <i>Nucleic Acids Research</i> , 2019 , 47, e69	20.1	7
22	Inducible CRISPR genome editing platform in naive human embryonic stem cells reveals JARID2 function in self-renewal. <i>Cell Cycle</i> , 2018 , 17, 535-549	4.7	7
21	Loss-of-Function Screen Reveals Novel Regulators Required for Drosophila Germline Stem Cell Self-Renewal. <i>G3: Genes, Genomes, Genetics</i> , 2012 , 2, 343-51	3.2	5
20	Isolator: accurate and stable analysis of isoform-level expression in RNA-Seq experiments		5
19	Designed proteins assemble antibodies into modular nanocages 2020 ,		5
18	Metabolic Remodeling of Pluripotency. <i>Cell Stem Cell</i> , 2016 , 19, 3-4	18	5

17	microRNAs Regulating Human and Mouse Naïve Pluripotency. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	5
16	Germline stem cell aging in the Drosophila ovary. <i>Current Opinion in Insect Science</i> , 2020 , 37, 57-62	5.1	4
15	PIWI goes solo in the soma. <i>Developmental Cell</i> , 2009 , 16, 627-8	10.2	4
14	F-domain valency determines outcome of signaling through the angiopoietin pathway. <i>EMBO Reports</i> , 2021 , 22, e53471	6.5	4
13	Epigenetic metabolites license stem cell states. <i>Current Topics in Developmental Biology</i> , 2020 , 138, 209-240	3.9	4
12	Multivalent designed proteins protect against SARS-CoV-2 variants of concern 2021 ,		4
11	Multivalent designed proteins neutralize SARS-CoV-2 variants of concern and confer protection against infection in mice.. <i>Science Translational Medicine</i> , 2022 , 14, eabn1252	17.5	3
10	Combinatorial metabolism drives the naive to primed pluripotent chromatin landscape. <i>Experimental Cell Research</i> , 2020 , 389, 111913	4.2	2
9	Conserved epigenetic regulatory logic infers genes governing cell identity		2
8	Amino acid primed mTOR activity is essential for heart regeneration.. <i>IScience</i> , 2022 , 25, 103574	6.1	1
7	Cross-validation of SARS-CoV-2 responses in kidney organoids and clinical populations. <i>JCI Insight</i> , 2021 ,	9.9	1
6	Computer Designed PRC2 Inhibitor, EBdCas9, Reveals Functional TATA boxes in Distal Promoter Regions		1
5	Robust de novo design of protein binding proteins from target structural information alone		1
4	dCas9 fusion to computer-designed PRC2 inhibitor reveals functional TATA box in distal promoter region.. <i>Cell Reports</i> , 2022 , 38, 110457	10.6	0
3	Using Mitochondrial Trifunctional Protein Deficiency to Understand Maternal Health. <i>Journal of Cellular Signaling</i> , 2020 , 1, 97-101	1	
2	miRNAs in Muscle Diseases. <i>Pancreatic Islet Biology</i> , 2016 , 295-307	0.4	
1	Epigenetics and regenerative medicine 2021 , 853-872		