

Hannele Ruohola-Baker

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/5071174/hannele-ruohola-baker-publications-by-year.pdf>

Version: 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Amino acid primed mTOR activity is essential for heart regeneration.. <i>IScience</i> , 2022 , 25, 103574	6.1	1
105	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
104	Design of protein binding proteins from target structure alone.. <i>Nature</i> , 2022 ,	50.4	13
103	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
102	Cross-validation of SARS-CoV-2 responses in kidney organoids and clinical populations. <i>JCI Insight</i> , 2021 ,	9.9	1
101	F-domain valency determines outcome of signaling through the angiotensin pathway. <i>EMBO Reports</i> , 2021 , 22, e53471	6.5	4
100	Designed proteins assemble antibodies into modular nanocages. <i>Science</i> , 2021 , 372,	33.3	35
99	Epigenetics and regenerative medicine 2021 , 853-872		
98	Design of biologically active binary protein 2D materials. <i>Nature</i> , 2021 , 589, 468-473	50.4	33
97	Multivalent designed proteins protect against SARS-CoV-2 variants of concern 2021 ,		4
96	Combinatorial metabolism drives the naive to primed pluripotent chromatin landscape. <i>Experimental Cell Research</i> , 2020 , 389, 111913	4.2	2
95	Metabolic Control over mTOR-Dependent Diapause-like State. <i>Developmental Cell</i> , 2020 , 52, 236-250.e7	10.2	29
94	Germline stem cell aging in the Drosophila ovary. <i>Current Opinion in Insect Science</i> , 2020 , 37, 57-62	5.1	4
93	Using Mitochondrial Trifunctional Protein Deficiency to Understand Maternal Health. <i>Journal of Cellular Signaling</i> , 2020 , 1, 97-101	1	
92	F-domain valency determines outcome of signaling through the angiotensin pathway 2020 ,		28
91	Designed proteins assemble antibodies into modular nanocages 2020 ,		5
90	Epigenetic metabolites license stem cell states. <i>Current Topics in Developmental Biology</i> , 2020 , 138, 209-340	3.40	4

89	Fatty Acids Enhance the Maturation of Cardiomyocytes Derived from Human Pluripotent Stem Cells. <i>Stem Cell Reports</i> , 2019 , 13, 657-668	8	93
88	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
87	Integrated epigenomic profiling reveals endogenous retrovirus reactivation in renal cell carcinoma. <i>EBioMedicine</i> , 2019 , 41, 427-442	8.8	16
86	PIXUL-CHIP: integrated high-throughput sample preparation and analytical platform for epigenetic studies. <i>Nucleic Acids Research</i> , 2019 , 47, e69	20.1	7
85	Folliculin regulates mTORC1/2 and WNT pathways in early human pluripotency. <i>Nature Communications</i> , 2019 , 10, 632	17.4	25
84	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
83	Metabolism as an early predictor of DPSCs aging. <i>Scientific Reports</i> , 2019 , 9, 2195	4.9	14
82	microRNAs Regulating Human and Mouse Naïve Pluripotency. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	5
81	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
80	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
79	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
78	Drosophila melanogaster as a Model of Muscle Degeneration Disorders. <i>Current Topics in Developmental Biology</i> , 2017 , 121, 83-109	5.3	17
77	Metabolic remodeling during the loss and acquisition of pluripotency. <i>Development (Cambridge)</i> , 2017 , 144, 541-551	6.6	92
76	Loss of rescues stem cell aging in germ line. <i>ELife</i> , 2017 , 6,	8.9	11
75	Gene-Edited Human Kidney Organoids Reveal Mechanisms of Disease in Podocyte Development. <i>Stem Cells</i> , 2017 , 35, 2366-2378	5.8	67
74	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
73	miRNAs in Muscle Diseases. <i>Pancreatic Islet Biology</i> , 2016 , 295-307	0.4	
72	Metabolic RemodelIN of Pluripotency. <i>Cell Stem Cell</i> , 2016 , 19, 3-4	18	5

71	Metabolic remodeling in early development and cardiomyocyte maturation. <i>Seminars in Cell and Developmental Biology</i> , 2016 , 52, 84-92	7.5	41
70	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
69	Wnt/βcatenin signaling promotes self-renewal and inhibits the primed state transition in naive 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
68	Tie-mediated signal from apoptotic cells protects stem cells in <i>Drosophila melanogaster</i> . <i>Nature Communications</i> , 2015 , 6, 7058	17.4	32
67	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
66	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
65	miRNA sensitivity to Drosha levels correlates with pre-miRNA secondary structure. <i>Rna</i> , 2014 , 20, 621-315.8	15.8	19
64	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
63	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
62	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
61	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
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	Regulation of stem cell populations by microRNAs. <i>Advances in Experimental Medicine and Biology</i> , 2013 , 786, 329-51	3.6	96
58	Increased sphingosine-1-phosphate improves muscle regeneration in acutely injured mdx mice. <i>Skeletal Muscle</i> , 2013 , 3, 20	5.1	45
57	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
56	Hypoxia induces re-entry of committed cells into pluripotency. <i>Stem Cells</i> , 2013 , 31, 1737-48	5.8	89
55	<i>Drosophila</i> as a starting point for developing therapeutics for the rare disease Duchenne Muscular Dystrophy. <i>Rare Diseases (Austin, Tex)</i> , 2013 , 1, e24995		10
54	MicroRNA regulation and role in stem cell maintenance, cardiac differentiation and hypertrophy. <i>Current Molecular Medicine</i> , 2013 , 13, 757-64	2.5	37

53	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
52	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
51	HIF induces human embryonic stem cell markers in cancer cells. <i>Cancer Research</i> , 2011 , 71, 4640-52	10.1	390
50	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
49	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
48	Characterization of microRNAs involved in embryonic stem cell states. <i>Stem Cells and Development</i> , 2010 , 19, 935-50	4.4	138
47	Dystroglycan and mitochondrial ribosomal protein L34 regulate differentiation in the Drosophila eye. <i>PLoS ONE</i> , 2010 , 5, e10488	3.7	17
46	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
45	Dicer-1-dependent Dacapo suppression acts downstream of Insulin receptor in regulating cell division of Drosophila germline stem cells. <i>Development (Cambridge)</i> , 2009 , 136, 1497-507	6.6	57
44	microRNAs regulate human embryonic stem cell division. <i>Cell Cycle</i> , 2009 , 8, 3729-41	4.7	138
43	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
42	PIWI goes solo in the soma. <i>Developmental Cell</i> , 2009 , 16, 627-8	10.2	4
41	Small RNAs: keeping stem cells in line. <i>Cell</i> , 2008 , 132, 563-6	56.2	92
40	microRNA and stem cell function. <i>Cell and Tissue Research</i> , 2008 , 331, 57-66	4.2	128
39	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
38	Genetic modifier screens reveal new components that interact with the Drosophila dystroglycan-dystrophin complex. <i>PLoS ONE</i> , 2008 , 3, e2418	3.7	50
37	Dissecting muscle and neuronal disorders in a Drosophila model of muscular dystrophy. <i>EMBO Journal</i> , 2007 , 26, 481-93	13	105
36	A putative Src homology 3 domain binding motif but not the C-terminal dystrophin WW domain binding motif is required for dystroglycan function in cellular polarity in Drosophila. <i>Journal of Biological Chemistry</i> , 2007 , 282, 15159-69	5.4	19

35	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
34	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
33	The MicroRNA pathway plays a regulatory role in stem cell division. <i>Cell Cycle</i> , 2006 , 5, 172-5	4.7	71
32	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
31	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
30	Stem cell division is regulated by the microRNA pathway. <i>Nature</i> , 2005 , 435, 974-8	50.4	581
29	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
28	Fringe-dependent notch activation and tramtrack function are required for specification of the polar cells in <i>Drosophila</i> oogenesis. <i>Developmental Dynamics</i> , 2005 , 232, 1013-20	2.9	9
27	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
26	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
25	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
24	Ethylene glycol-mediated synthesis of metal oxide nanowires. <i>Journal of Materials Chemistry</i> , 2004 , 14, 695		466
23	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
22	Electrospinning of Polymeric and Ceramic Nanofibers as Uniaxially Aligned Arrays. <i>Nano Letters</i> , 2003 , 3, 1167-1171	11.5	1256
21	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
20	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
19	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
18	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

17	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
16	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
15	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
14	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
13	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
12	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
11	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
10	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
9	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
8	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
7	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
6	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
5	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
4	Isolator: accurate and stable analysis of isoform-level expression in RNA-Seq experiments		5
3	Computer Designed PRC2 Inhibitor, EBdCas9, Reveals Functional TATA boxes in Distal Promoter Regions		1
2	Conserved epigenetic regulatory logic infers genes governing cell identity		2
1	Robust de novo design of protein binding proteins from target structural information alone		1