

Kathrin Plath

List of Publications by Citations

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

113
papers

20,843
citations

52
h-index

124
g-index

124
ext. papers

23,712
ext. citations

17.7
avg, IF

6.44
L-index

#	Paper	IF	Citations
113	A bivalent chromatin structure marks key developmental genes in embryonic stem cells. <i>Cell</i> , 2006 , 125, 315-26	56.2	4097
112	Polycomb complexes repress developmental regulators in murine embryonic stem cells. <i>Nature</i> , 2006 , 441, 349-53	50.4	2008
111	Directly reprogrammed fibroblasts show global epigenetic remodeling and widespread tissue contribution. <i>Cell Stem Cell</i> , 2007 , 1, 55-70	18	1406
110	Role of histone H3 lysine 27 methylation in X inactivation. <i>Science</i> , 2003 , 300, 131-5	33.3	978
109	Induced pluripotent stem cells and embryonic stem cells are distinguished by gene expression signatures. <i>Cell Stem Cell</i> , 2009 , 5, 111-23	18	816
108	The Xist lncRNA interacts directly with SHARP to silence transcription through HDAC3. <i>Nature</i> , 2015 , 521, 232-6	50.4	730
107	The Xist lncRNA exploits three-dimensional genome architecture to spread across the X chromosome. <i>Science</i> , 2013 , 341, 1237-973	33.3	695
106	Identification and classification of chromosomal aberrations in human induced pluripotent stem cells. <i>Cell Stem Cell</i> , 2010 , 7, 521-31	18	595
105	Role of the murine reprogramming factors in the induction of pluripotency. <i>Cell</i> , 2009 , 136, 364-77	56.2	517
104	Epigenetic reprogramming and induced pluripotency. <i>Development (Cambridge)</i> , 2009 , 136, 509-23	6.6	435
103	Chd1 regulates open chromatin and pluripotency of embryonic stem cells. <i>Nature</i> , 2009 , 460, 863-8	50.4	406
102	Xist RNA and the mechanism of X chromosome inactivation. <i>Annual Review of Genetics</i> , 2002 , 36, 233-78	14.5	373
101	Efficient method to generate single-copy transgenic mice by site-specific integration in embryonic stem cells. <i>Genesis</i> , 2006 , 44, 23-8	1.9	351
100	BiP acts as a molecular ratchet during posttranslational transport of prepro-alpha factor across the ER membrane. <i>Cell</i> , 1999 , 97, 553-64	56.2	343
99	Oligomeric rings of the Sec61p complex induced by ligands required for protein translocation. <i>Cell</i> , 1996 , 87, 721-32	56.2	303
98	Directed differentiation of human-induced pluripotent stem cells generates active motor neurons. <i>Stem Cells</i> , 2009 , 27, 806-11	5.8	288
97	Signal sequence recognition in posttranslational protein transport across the yeast ER membrane. <i>Cell</i> , 1998 , 94, 795-807	56.2	285

96	Cooperative Binding of Transcription Factors Orchestrates Reprogramming. <i>Cell</i> , 2017 , 168, 442-459.e2056.2	274
95	Genome-wide dynamics of replication timing revealed by in vitro models of mouse embryogenesis. <i>Genome Research</i> , 2010 , 20, 155-69	9.7 241
94	Epigenetics of reprogramming to induced pluripotency. <i>Cell</i> , 2013 , 152, 1324-43	56.2 231
93	Female human iPSCs retain an inactive X chromosome. <i>Cell Stem Cell</i> , 2010 , 7, 329-42	18 223
92	Progress in understanding reprogramming to the induced pluripotent state. <i>Nature Reviews Genetics</i> , 2011 , 12, 253-65	30.1 220
91	Reprogrammed mouse fibroblasts differentiate into cells of the cardiovascular and hematopoietic lineages. <i>Stem Cells</i> , 2008 , 26, 1537-46	5.8 204
90	Derivation of primordial germ cells from human embryonic and induced pluripotent stem cells is significantly improved by coculture with human fetal gonadal cells. <i>Stem Cells</i> , 2009 , 27, 783-95	5.8 202
89	Long-range chromatin contacts in embryonic stem cells reveal a role for pluripotency factors and polycomb proteins in genome organization. <i>Cell Stem Cell</i> , 2013 , 13, 602-16	18 197
88	The structure of ribosome-channel complexes engaged in protein translocation. <i>Molecular Cell</i> , 2000 , 6, 1219-32	17.6 192
87	Proteomic and genomic approaches reveal critical functions of H3K9 methylation and heterochromatin protein-1 in reprogramming to pluripotency. <i>Nature Cell Biology</i> , 2013 , 15, 872-82	23.4 164
86	Naive Human Pluripotent Cells Feature a Methylation Landscape Devoid of Blastocyst or Germline Memory. <i>Cell Stem Cell</i> , 2016 , 18, 323-329	18 161
85	Histone h3 lysine 56 acetylation is linked to the core transcriptional network in human embryonic stem cells. <i>Molecular Cell</i> , 2009 , 33, 417-27	17.6 160
84	Signed weighted gene co-expression network analysis of transcriptional regulation in murine embryonic stem cells. <i>BMC Genomics</i> , 2009 , 10, 327	4.5 155
83	Glycolytic Metabolism Plays a Functional Role in Regulating Human Pluripotent Stem Cell State. <i>Cell Stem Cell</i> , 2016 , 19, 476-490	18 153
82	A Single-Cell Transcriptomic Atlas of Human Neocortical Development during Mid-gestation. <i>Neuron</i> , 2019 , 103, 785-801.e8	13.9 148
81	Transcriptional competence and the active marking of tissue-specific enhancers by defined transcription factors in embryonic and induced pluripotent stem cells. <i>Genes and Development</i> , 2009 , 23, 2824-38	12.6 145
80	Reprogramming to pluripotency: stepwise resetting of the epigenetic landscape. <i>Cell Research</i> , 2011 , 21, 486-501	24.7 137
79	Human Naive Pluripotent Stem Cells Model X Chromosome Dampening and X Inactivation. <i>Cell Stem Cell</i> , 2017 , 20, 87-101	18 136

78	Epigenetic resetting of human pluripotency. <i>Development (Cambridge)</i> , 2017 , 144, 2748-2763	6.6	135
77	Molecular analyses of human induced pluripotent stem cells and embryonic stem cells. <i>Cell Stem Cell</i> , 2010 , 7, 263-9	18	133
76	Developmentally regulated alterations in Polycomb repressive complex 1 proteins on the inactive X chromosome. <i>Journal of Cell Biology</i> , 2004 , 167, 1025-35	7.3	120
75	Broader implications of defining standards for the pluripotency of iPSCs. <i>Cell Stem Cell</i> , 2009 , 4, 200-1; author reply 202	18	101
74	Post-translational regulation of Oct4 transcriptional activity. <i>PLoS ONE</i> , 2009 , 4, e4467	3.7	101
73	Constitutive activation of mitogen-activated protein kinase-activated protein kinase 2 by mutation of phosphorylation sites and an A-helix motif. <i>Journal of Biological Chemistry</i> , 1995 , 270, 27213-21	5.4	85
72	X chromosome reactivation dynamics reveal stages of reprogramming to pluripotency. <i>Cell</i> , 2014 , 159, 1681-97	56.2	77
71	The roles of the reprogramming factors Oct4, Sox2 and Klf4 in resetting the somatic cell epigenome during induced pluripotent stem cell generation. <i>Genome Biology</i> , 2012 , 13, 251	18.3	75
70	Spontaneous release of cytosolic proteins from posttranslational substrates before their transport into the endoplasmic reticulum. <i>Journal of Cell Biology</i> , 2000 , 151, 167-78	7.3	75
69	Protein transport by purified yeast Sec complex and Kar2p without membranes. <i>Science</i> , 1997 , 277, 938-41	3.3	73
68	Human Embryonic Stem Cells Do Not Change Their X Inactivation Status during Differentiation. <i>Cell Reports</i> , 2017 , 18, 54-67	10.6	72
67	The Role of Xist in X-Chromosome Dosage Compensation. <i>Trends in Cell Biology</i> , 2018 , 28, 999-1013	18.3	71
66	Mediator coordinates PIC assembly with recruitment of CHD1. <i>Genes and Development</i> , 2011 , 25, 2198-202	20.6	71
65	Stage-specific regulation of reprogramming to induced pluripotent stem cells by Wnt signaling and T cell factor proteins. <i>Cell Reports</i> , 2013 , 3, 2113-26	10.6	70
64	Analysis of cardiomyocyte clonal expansion during mouse heart development and injury. <i>Nature Communications</i> , 2018 , 9, 754	17.4	65
63	Posttranslational protein translocation across the membrane of the endoplasmic reticulum. <i>Biological Chemistry</i> , 1999 , 380, 1143-50	4.5	63
62	Mapping post-translational modifications of the histone variant MacroH2A1 using tandem mass spectrometry. <i>Molecular and Cellular Proteomics</i> , 2006 , 5, 194-203	7.6	62
61	A protein assembly mediates Xist localization and gene silencing. <i>Nature</i> , 2020 , 587, 145-151	50.4	52

60	Highly efficient large-scale lentiviral vector concentration by tandem tangential flow filtration. <i>Journal of Virological Methods</i> , 2011 , 177, 1-9	2.6	51
59	The Mbd1-Atf7ip-Setdb1 pathway contributes to the maintenance of X chromosome inactivation. <i>Epigenetics and Chromatin</i> , 2014 , 7, 12	5.8	50
58	X chromosome reactivation in reprogramming and in development. <i>Current Opinion in Cell Biology</i> , 2015 , 37, 75-83	9	48
57	X chromosome inactivation in the absence of Dicer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 1122-7	11.5	48
56	Concise review: Pluripotency and the transcriptional inactivation of the female Mammalian X chromosome. <i>Stem Cells</i> , 2012 , 30, 48-54	5.8	46
55	Interactions between Sec complex and prepro-alpha-factor during posttranslational protein transport into the endoplasmic reticulum. <i>Molecular Biology of the Cell</i> , 2004 , 15, 1-10	3.5	45
54	Reduced MEK inhibition preserves genomic stability in naive human embryonic stem cells. <i>Nature Methods</i> , 2018 , 15, 732-740	21.6	44
53	Promoter-Enhancer Communication Occurs Primarily within Insulated Neighborhoods. <i>Molecular Cell</i> , 2019 , 73, 250-263.e5	17.6	44
52	From skin biopsy to neurons through a pluripotent intermediate under Good Manufacturing Practice protocols. <i>Stem Cells Translational Medicine</i> , 2012 , 1, 36-43	6.9	41
51	Mechanistic insights into reprogramming to induced pluripotency. <i>Journal of Cellular Physiology</i> , 2011 , 226, 868-78	7	38
50	The pluripotency factor-bound intron 1 of Xist is dispensable for X chromosome inactivation and reactivation in vitro and in vivo. <i>Cell Reports</i> , 2013 , 3, 905-18	10.6	37
49	Derivation of new human embryonic stem cell lines reveals rapid epigenetic progression in vitro that can be prevented by chemical modification of chromatin. <i>Human Molecular Genetics</i> , 2012 , 21, 751-64	5.6	37
48	RNA promotes the formation of spatial compartments in the nucleus. <i>Cell</i> , 2021 , 184, 5775-5790.e30	56.2	36
47	A mechanistic link between gene regulation and genome architecture in mammalian development. <i>Current Opinion in Genetics and Development</i> , 2014 , 27, 92-101	4.9	34
46	Identification of context-dependent motifs by contrasting ChIP binding data. <i>Bioinformatics</i> , 2010 , 26, 2826-32	7.2	34
45	The MAP kinase-activated protein kinase 2 contains a proline-rich SH3-binding domain. <i>FEBS Letters</i> , 1993 , 336, 143-7	3.8	34
44	A Human Skeletal Muscle Atlas Identifies the Trajectories of Stem and Progenitor Cells across Development and from Human Pluripotent Stem Cells. <i>Cell Stem Cell</i> , 2020 , 27, 158-176.e10	18	32
43	Direct Exposure to SARS-CoV-2 and Cigarette Smoke Increases Infection Severity and Alters the Stem Cell-Derived Airway Repair Response. <i>Cell Stem Cell</i> , 2020 , 27, 869-875.e4	18	32

42	SARS-CoV-2 infection rewires host cell metabolism and is potentially susceptible to mTORC1 inhibition. <i>Nature Communications</i> , 2021 , 12, 1876	17.4	31
41	A high-throughput screen of inactive X chromosome reactivation identifies the enhancement of DNA demethylation by 5-aza-2dC upon inhibition of ribonucleotide reductase. <i>Epigenetics and Chromatin</i> , 2015 , 8, 42	5.8	29
40	Transcriptional analysis of cystic fibrosis airways at single-cell resolution reveals altered epithelial cell states and composition. <i>Nature Medicine</i> , 2021 , 27, 806-814	50.5	29
39	Loss of MECP2 Leads to Activation of P53 and Neuronal Senescence. <i>Stem Cell Reports</i> , 2018 , 10, 1453-1463	18.63	28
38	Characterization and therapeutic potential of induced pluripotent stem cell-derived cardiovascular progenitor cells. <i>PLoS ONE</i> , 2012 , 7, e45603	3.7	28
37	Developmental regulation of Suz 12 localization. <i>Chromosoma</i> , 2005 , 114, 183-92	2.8	27
36	Cbx3 maintains lineage specificity during neural differentiation. <i>Genes and Development</i> , 2017 , 31, 241-246	4.6	26
35	X Chromosome Dosage Influences DNA Methylation Dynamics during Reprogramming to Mouse iPSCs. <i>Stem Cell Reports</i> , 2018 , 10, 1537-1550	8	24
34	Mediator and SAGA have distinct roles in Pol II preinitiation complex assembly and function. <i>Cell Reports</i> , 2012 , 2, 1061-7	10.6	24
33	The histone domain of macroH2A1 contains several dispersed elements that are each sufficient to direct enrichment on the inactive X chromosome. <i>Journal of Molecular Biology</i> , 2007 , 371, 11-8	6.5	23
32	Single-cell analysis of the developing human testis reveals somatic niche cell specification and fetal germline stem cell establishment. <i>Cell Stem Cell</i> , 2021 , 28, 764-778.e4	18	21
31	Regulation of X-chromosome dosage compensation in human: mechanisms and model systems. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2017 , 372,	5.8	20
30	Identification of neural oscillations and epileptiform changes in human brain organoids. <i>Nature Neuroscience</i> , 2021 , 24, 1488-1500	25.5	20
29	Female human primordial germ cells display X-chromosome dosage compensation despite the absence of X-inactivation. <i>Nature Cell Biology</i> , 2020 , 22, 1436-1446	23.4	19
28	Pluripotency re-centered around Esrrb. <i>EMBO Journal</i> , 2012 , 31, 4255-7	13	18
27	Identification and Single-Cell Functional Characterization of an Endodermally Biased Pluripotent Substate in Human Embryonic Stem Cells. <i>Stem Cell Reports</i> , 2018 , 10, 1895-1907	8	18
26	Initial characterization of histone H3 serine 10 O-acetylation. <i>Epigenetics</i> , 2013 , 8, 1101-13	5.7	17
25	Pluripotency in 3D: genome organization in pluripotent cells. <i>Current Opinion in Cell Biology</i> , 2012 , 24, 793-801	9	15

24	The BAF and PRC2 Complex Subunits Dpf2 and Eed Antagonistically Converge on Tbx3 to Control ESC Differentiation. <i>Cell Stem Cell</i> , 2019 , 24, 138-152.e8	18	15
23	Small RNAs loom large during reprogramming. <i>Cell Stem Cell</i> , 2011 , 8, 599-601	18	14
22	The "lnc" between 3D chromatin structure and X chromosome inactivation. <i>Seminars in Cell and Developmental Biology</i> , 2016 , 56, 35-47	7.5	13
21	Xist nucleates local protein gradients to propagate silencing across the X chromosome. <i>Cell</i> , 2021 , 184, 6174-6192.e32	56.2	12
20	Pressure-Driven Mitochondrial Transfer Pipeline Generates Mammalian Cells of Desired Genetic Combinations and Fates. <i>Cell Reports</i> , 2020 , 33, 108562	10.6	12
19	RNA promotes the formation of spatial compartments in the nucleus		12
18	Defining Transcriptional Signatures of Human Hair Follicle Cell States. <i>Journal of Investigative Dermatology</i> , 2020 , 140, 764-773.e4	4.3	12
17	DNA methylation estimation using methylation-sensitive restriction enzyme bisulfite sequencing (MREBS). <i>PLoS ONE</i> , 2019 , 14, e0214368	3.7	10
16	Comparison of reprogramming factor targets reveals both species-specific and conserved mechanisms in early iPSC reprogramming. <i>BMC Genomics</i> , 2018 , 19, 956	4.5	8
15	Xist-seeded nucleation sites form local concentration gradients of silencing proteins to inactivate the X-chromosome		7
14	Identification of neural oscillations and epileptiform changes in human brain organoids		6
13	Mapping Metabolism: Monitoring Lactate Dehydrogenase Activity Directly in Tissue. <i>Journal of Visualized Experiments</i> , 2018 ,	1.6	5
12	A new route to human embryonic stem cells. <i>Nature Medicine</i> , 2013 , 19, 820-1	50.5	5
11	Transcriptome Encyclopedia of Early Human Development. <i>Cell</i> , 2016 , 165, 777-9	56.2	5
10	TGF β superfamily signaling regulates the state of human stem cell pluripotency and competency to create telencephalic organoids		3
9	Carboxylate-Modified Magnetic Bead (CMMB)-Based Isopropanol Gradient Peptide Fractionation (CIF) Enables Rapid and Robust Off-Line Peptide Mixture Fractionation in Bottom-Up Proteomics. <i>Molecular and Cellular Proteomics</i> , 2021 , 20, 100039	7.6	2
8	AnXist-dependent protein assembly mediatesXistlocalization and gene silencing		1
7	Epigenetic resetting of human pluripotency		1

6	DNA methylation estimation using methylation-sensitive restriction enzyme bisulfite sequencing (MREBS)		1
5	Defining the nature of human pluripotent stem cell-derived interneurons via single-cell analysis. <i>Stem Cell Reports</i> , 2021 , 16, 2548-2564	8	1
4	The transcription factor code in iPSC reprogramming. <i>Current Opinion in Genetics and Development</i> , 2021 , 70, 89-96	4.9	1
3	Chromatin and Nuclear Architecture in Stem Cells. <i>Stem Cell Reports</i> , 2020 , 15, 1155-1157	8	0
2	Genome-wide screening identifies Polycomb repressive complex 1.3 as an essential regulator of human naïve pluripotent cell reprogramming.. <i>Science Advances</i> , 2022 , 8, eabk0013	14.3	0
1	High-Throughput Screening of a Luciferase Reporter of Gene Silencing on the Inactive X Chromosome. <i>Methods in Molecular Biology</i> , 2018 , 1755, 75-87	1.4	