

Kathrin Plath

List of Publications by Year in Descending Order

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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 | 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 |
| 112 | RNA promotes the formation of spatial compartments in the nucleus. <i>Cell</i> , 2021 , 184, 5775-5790.e30 | 56.2 | 36 |
| 111 | Xist nucleates local protein gradients to propagate silencing across the X chromosome. <i>Cell</i> , 2021 , 184, 6174-6192.e32 | 56.2 | 12 |
| 110 | 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 |
| 109 | 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 |
| 108 | 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 |
| 107 | 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 |
| 106 | Identification of neural oscillations and epileptiform changes in human brain organoids. <i>Nature Neuroscience</i> , 2021 , 24, 1488-1500 | 25.5 | 20 |
| 105 | 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 |
| 104 | The transcription factor code in iPSC reprogramming. <i>Current Opinion in Genetics and Development</i> , 2021 , 70, 89-96 | 4.9 | 1 |
| 103 | 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 |
| 102 | Chromatin and Nuclear Architecture in Stem Cells. <i>Stem Cell Reports</i> , 2020 , 15, 1155-1157 | 8 | 0 |
| 101 | Pressure-Driven Mitochondrial Transfer Pipeline Generates Mammalian Cells of Desired Genetic Combinations and Fates. <i>Cell Reports</i> , 2020 , 33, 108562 | 10.6 | 12 |
| 100 | Defining Transcriptional Signatures of Human Hair Follicle Cell States. <i>Journal of Investigative Dermatology</i> , 2020 , 140, 764-773.e4 | 4.3 | 12 |
| 99 | 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 |
| 98 | 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 |
| 97 | A protein assembly mediates Xist localization and gene silencing. <i>Nature</i> , 2020 , 587, 145-151 | 50.4 | 52 |

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|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
| 96 | DNA methylation estimation using methylation-sensitive restriction enzyme bisulfite sequencing (MREBS). <i>PLoS ONE</i> , 2019 , 14, e0214368 | 3.7 | 10 |
| 95 | A Single-Cell Transcriptomic Atlas of Human Neocortical Development during Mid-gestation. <i>Neuron</i> , 2019 , 103, 785-801.e8 | 13.9 | 148 |
| 94 | 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 |
| 93 | Promoter-Enhancer Communication Occurs Primarily within Insulated Neighborhoods. <i>Molecular Cell</i> , 2019 , 73, 250-263.e5 | 17.6 | 44 |
| 92 | Analysis of cardiomyocyte clonal expansion during mouse heart development and injury. <i>Nature Communications</i> , 2018 , 9, 754 | 17.4 | 65 |
| 91 | 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 | |
| 90 | X Chromosome Dosage Influences DNA Methylation Dynamics during Reprogramming to Mouse iPSCs. <i>Stem Cell Reports</i> , 2018 , 10, 1537-1550 | 8 | 24 |
| 89 | Mapping Metabolism: Monitoring Lactate Dehydrogenase Activity Directly in Tissue. <i>Journal of Visualized Experiments</i> , 2018 , | 1.6 | 5 |
| 88 | Loss of MECP2 Leads to Activation of P53 and Neuronal Senescence. <i>Stem Cell Reports</i> , 2018 , 10, 1453-1863 | 28 | |
| 87 | Reduced MEK inhibition preserves genomic stability in naive human embryonic stem cells. <i>Nature Methods</i> , 2018 , 15, 732-740 | 21.6 | 44 |
| 86 | The Role of Xist in X-Chromosome Dosage Compensation. <i>Trends in Cell Biology</i> , 2018 , 28, 999-1013 | 18.3 | 71 |
| 85 | 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 |
| 84 | 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 |
| 83 | Cooperative Binding of Transcription Factors Orchestrates Reprogramming. <i>Cell</i> , 2017 , 168, 442-459.e20 | 56.2 | 274 |
| 82 | Cbx3 maintains lineage specificity during neural differentiation. <i>Genes and Development</i> , 2017 , 31, 241-246 | 4.6 | 26 |
| 81 | Human Embryonic Stem Cells Do Not Change Their X Inactivation Status during Differentiation. <i>Cell Reports</i> , 2017 , 18, 54-67 | 10.6 | 72 |
| 80 | Human Naive Pluripotent Stem Cells Model X Chromosome Dampening and X Inactivation. <i>Cell Stem Cell</i> , 2017 , 20, 87-101 | 18 | 136 |
| 79 | 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 |

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|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
| 78 | Epigenetic resetting of human pluripotency. <i>Development (Cambridge)</i> , 2017 , 144, 2748-2763 | 6.6 | 135 |
| 77 | 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 |
| 76 | 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 |
| 75 | Transcriptome Encyclopedia of Early Human Development. <i>Cell</i> , 2016 , 165, 777-9 | 56.2 | 5 |
| 74 | Glycolytic Metabolism Plays a Functional Role in Regulating Human Pluripotent Stem Cell State. <i>Cell Stem Cell</i> , 2016 , 19, 476-490 | 18 | 153 |
| 73 | The Xist lncRNA interacts directly with SHARP to silence transcription through HDAC3. <i>Nature</i> , 2015 , 521, 232-6 | 50.4 | 730 |
| 72 | A high-throughput screen of inactive X chromosome reactivation identifies the enhancement of DNA demethylation by 5-aza-2UdC upon inhibition of ribonucleotide reductase. <i>Epigenetics and Chromatin</i> , 2015 , 8, 42 | 5.8 | 29 |
| 71 | X chromosome reactivation in reprogramming and in development. <i>Current Opinion in Cell Biology</i> , 2015 , 37, 75-83 | 9 | 48 |
| 70 | The Mbd1-Atf7ip-Setdb1 pathway contributes to the maintenance of X chromosome inactivation. <i>Epigenetics and Chromatin</i> , 2014 , 7, 12 | 5.8 | 50 |
| 69 | 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 |
| 68 | X chromosome reactivation dynamics reveal stages of reprogramming to pluripotency. <i>Cell</i> , 2014 , 159, 1681-97 | 56.2 | 77 |
| 67 | A new route to human embryonic stem cells. <i>Nature Medicine</i> , 2013 , 19, 820-1 | 50.5 | 5 |
| 66 | 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 |
| 65 | Initial characterization of histone H3 serine 10 O-acetylation. <i>Epigenetics</i> , 2013 , 8, 1101-13 | 5.7 | 17 |
| 64 | 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 |
| 63 | 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 |
| 62 | Epigenetics of reprogramming to induced pluripotency. <i>Cell</i> , 2013 , 152, 1324-43 | 56.2 | 231 |
| 61 | 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 |

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|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
| 60 | The Xist lncRNA exploits three-dimensional genome architecture to spread across the X chromosome. <i>Science</i> , 2013 , 341, 1237973 | 33.3 | 695 |
| 59 | Pluripotency in 3D: genome organization in pluripotent cells. <i>Current Opinion in Cell Biology</i> , 2012 , 24, 793-801 | 9 | 15 |
| 58 | 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 |
| 57 | 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 |
| 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 | 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 ⁵⁶ | 5.6 | 37 |
| 54 | Pluripotency re-centered around Esrrb. <i>EMBO Journal</i> , 2012 , 31, 4255-7 | 13 | 18 |
| 53 | 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 |
| 52 | Characterization and therapeutic potential of induced pluripotent stem cell-derived cardiovascular progenitor cells. <i>PLoS ONE</i> , 2012 , 7, e45603 | 3.7 | 28 |
| 51 | Reprogramming to pluripotency: stepwise resetting of the epigenetic landscape. <i>Cell Research</i> , 2011 , 21, 486-501 | 24.7 | 137 |
| 50 | Small RNAs loom large during reprogramming. <i>Cell Stem Cell</i> , 2011 , 8, 599-601 | 18 | 14 |
| 49 | Progress in understanding reprogramming to the induced pluripotent state. <i>Nature Reviews Genetics</i> , 2011 , 12, 253-65 | 30.1 | 220 |
| 48 | 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 |
| 47 | Mechanistic insights into reprogramming to induced pluripotency. <i>Journal of Cellular Physiology</i> , 2011 , 226, 868-78 | 7 | 38 |
| 46 | Mediator coordinates PIC assembly with recruitment of CHD1. <i>Genes and Development</i> , 2011 , 25, 2198-202.6 | 20.6 | 71 |
| 45 | Molecular analyses of human induced pluripotent stem cells and embryonic stem cells. <i>Cell Stem Cell</i> , 2010 , 7, 263-9 | 18 | 133 |
| 44 | Female human iPSCs retain an inactive X chromosome. <i>Cell Stem Cell</i> , 2010 , 7, 329-42 | 18 | 223 |
| 43 | Identification and classification of chromosomal aberrations in human induced pluripotent stem cells. <i>Cell Stem Cell</i> , 2010 , 7, 521-31 | 18 | 595 |

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|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|
| 42 | Identification of context-dependent motifs by contrasting ChIP binding data. <i>Bioinformatics</i> , 2010 , 26, 2826-32 | 7.2 | 34 |
| 41 | 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 |
| 40 | 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 |
| 39 | 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 |
| 38 | 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 |
| 37 | 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 |
| 36 | Directed differentiation of human-induced pluripotent stem cells generates active motor neurons. <i>Stem Cells</i> , 2009 , 27, 806-11 | 5.8 | 288 |
| 35 | Chd1 regulates open chromatin and pluripotency of embryonic stem cells. <i>Nature</i> , 2009 , 460, 863-8 | 50.4 | 406 |
| 34 | Role of the murine reprogramming factors in the induction of pluripotency. <i>Cell</i> , 2009 , 136, 364-77 | 56.2 | 517 |
| 33 | Broader implications of defining standards for the pluripotency of iPSCs. <i>Cell Stem Cell</i> , 2009 , 4, 200-1; author reply 202 | 18 | 101 |
| 32 | 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 |
| 31 | 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 |
| 30 | Epigenetic reprogramming and induced pluripotency. <i>Development (Cambridge)</i> , 2009 , 136, 509-23 | 6.6 | 435 |
| 29 | Post-translational regulation of Oct4 transcriptional activity. <i>PLoS ONE</i> , 2009 , 4, e4467 | 3.7 | 101 |
| 28 | Reprogrammed mouse fibroblasts differentiate into cells of the cardiovascular and hematopoietic lineages. <i>Stem Cells</i> , 2008 , 26, 1537-46 | 5.8 | 204 |
| 27 | Directly reprogrammed fibroblasts show global epigenetic remodeling and widespread tissue contribution. <i>Cell Stem Cell</i> , 2007 , 1, 55-70 | 18 | 1406 |
| 26 | 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 |
| 25 | 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 |

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|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|
| 24 | 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 |
| 23 | A bivalent chromatin structure marks key developmental genes in embryonic stem cells. <i>Cell</i> , 2006 , 125, 315-26 | 56.2 | 4097 |
| 22 | Polycomb complexes repress developmental regulators in murine embryonic stem cells. <i>Nature</i> , 2006 , 441, 349-53 | 50.4 | 2008 |
| 21 | Developmental regulation of Suz 12 localization. <i>Chromosoma</i> , 2005 , 114, 183-92 | 2.8 | 27 |
| 20 | 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 |
| 19 | 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 |
| 18 | Role of histone H3 lysine 27 methylation in X inactivation. <i>Science</i> , 2003 , 300, 131-5 | 33.3 | 978 |
| 17 | Xist RNA and the mechanism of X chromosome inactivation. <i>Annual Review of Genetics</i> , 2002 , 36, 233-78 | 14.5 | 373 |
| 16 | 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 |
| 15 | The structure of ribosome-channel complexes engaged in protein translocation. <i>Molecular Cell</i> , 2000 , 6, 1219-32 | 17.6 | 192 |
| 14 | Posttranslational protein translocation across the membrane of the endoplasmic reticulum. <i>Biological Chemistry</i> , 1999 , 380, 1143-50 | 4.5 | 63 |
| 13 | 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 |
| 12 | Signal sequence recognition in posttranslational protein transport across the yeast ER membrane. <i>Cell</i> , 1998 , 94, 795-807 | 56.2 | 285 |
| 11 | Protein transport by purified yeast Sec complex and Kar2p without membranes. <i>Science</i> , 1997 , 277, 938-41 | 33.3 | 73 |
| 10 | Oligomeric rings of the Sec61p complex induced by ligands required for protein translocation. <i>Cell</i> , 1996 , 87, 721-32 | 56.2 | 303 |
| 9 | 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 |
| 8 | 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 |
| 7 | AnXist-dependent protein assembly mediatesXistlocalization and gene silencing | | 1 |

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| 6 | Epigenetic resetting of human pluripotency | 1 |
| 5 | TGF β superfamily signaling regulates the state of human stem cell pluripotency and competency to create telencephalic organoids | 3 |
| 4 | RNA promotes the formation of spatial compartments in the nucleus | 12 |
| 3 | Xist-seeded nucleation sites form local concentration gradients of silencing proteins to inactivate the X-chromosome | 7 |
| 2 | DNA methylation estimation using methylation-sensitive restriction enzyme bisulfite sequencing (MREBS) | 1 |
| 1 | Identification of neural oscillations and epileptiform changes in human brain organoids | 6 |