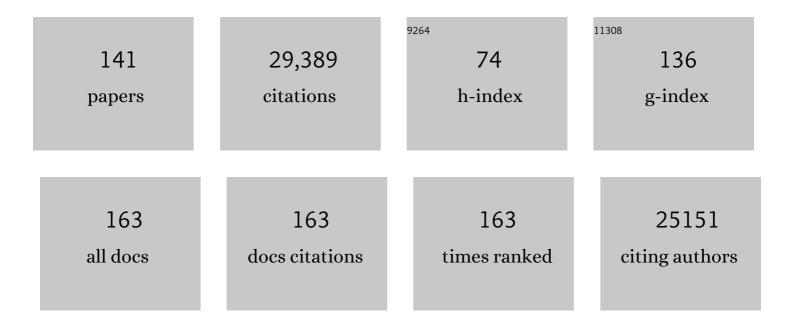
List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/5626657/publications.pdf Version: 2024-02-01



IÃ1/ PCEN A KNOBLICH

#	Article	IF	CITATIONS
1	Cerebral organoids model human brain development and microcephaly. Nature, 2013, 501, 373-379.	27.8	3,889
2	Organogenesis in a dish: Modeling development and disease using organoid technologies. Science, 2014, 345, 1247125.	12.6	1,937
3	Generation of cerebral organoids from human pluripotent stem cells. Nature Protocols, 2014, 9, 2329-2340.	12.0	1,189
4	Human organoids: model systems for human biology and medicine. Nature Reviews Molecular Cell Biology, 2020, 21, 571-584.	37.0	1,082
5	Mechanisms of Asymmetric Stem Cell Division. Cell, 2008, 132, 583-597.	28.9	874
6	Human cerebral organoids recapitulate gene expression programs of fetal neocortex development. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 15672-15677.	7.1	870
7	Guided self-organization and cortical plate formation in human brain organoids. Nature Biotechnology, 2017, 35, 659-666.	17.5	606
8	Fused cerebral organoids model interactions between brain regions. Nature Methods, 2017, 14, 743-751.	19.0	574
9	Cyclin E controls S phase progression and its down-regulation during Drosophila embryogenesis is required for the arrest of cell proliferation. Cell, 1994, 77, 107-120.	28.9	545
10	Asymmetric cell division: recent developments and their implications for tumour biology. Nature Reviews Molecular Cell Biology, 2010, 11, 849-860.	37.0	524
11	The Par complex directs asymmetric cell division by phosphorylating the cytoskeletal protein Lgl. Nature, 2003, 422, 326-330.	27.8	509
12	Human blood vessel organoids as aÂmodel ofÂdiabetic vasculopathy. Nature, 2019, 565, 505-510.	27.8	500
13	Asymmetric segregation of Numb and Prospero during cell division. Nature, 1995, 377, 624-627.	27.8	473
14	Asymmetric Segregation of the Tumor Suppressor Brat Regulates Self-Renewal in Drosophila Neural Stem Cells. Cell, 2006, 124, 1241-1253.	28.9	473
15	Dare to Be Different: Asymmetric Cell Division in Drosophila, C. elegans and Vertebrates. Current Biology, 2004, 14, R674-R685.	3.9	398
16	The Tumor Suppressors Brat and Numb Regulate Transit-Amplifying Neuroblast Lineages in Drosophila. Developmental Cell, 2008, 14, 535-546.	7.0	390
17	<i>Drosophila</i> neuroblasts: a model for stem cell biology. Development (Cambridge), 2012, 139, 4297-4310.	2.5	388
18	DmPAR-6 directs epithelial polarity and asymmetric cell division of neuroblasts in Drosophila. Nature Cell Biology, 2001, 3, 43-49.	10.3	377

#	Article	IF	CITATIONS
19	Role of inscuteable in orienting asymmetric cell divisions in Drosophila. Nature, 1996, 383, 50-55.	27.8	375
20	Pins for spines. Nature Cell Biology, 2005, 7, 1057-1058.	10.3	372
21	The TRIM-NHL Protein TRIM32 Activates MicroRNAs and Prevents Self-Renewal in Mouse Neural Progenitors. Cell, 2009, 136, 913-925.	28.9	372
22	Dividing cellular asymmetry: asymmetric cell division and its implications for stem cells and cancer. Genes and Development, 2009, 23, 2675-2699.	5.9	348
23	Bazooka recruits Inscuteable to orient asymmetric cell divisions in Drosophila neuroblasts. Nature, 1999, 402, 548-551.	27.8	347
24	Induction of Expansion and Folding in Human Cerebral Organoids. Cell Stem Cell, 2017, 20, 385-396.e3.	11.1	346
25	The Endocytic Protein α-Adaptin Is Required for Numb-Mediated Asymmetric Cell Division in Drosophila. Developmental Cell, 2002, 3, 221-231.	7.0	340
26	Linking Cell Cycle to Asymmetric Division: Aurora-A Phosphorylates the Par Complex to Regulate Numb Localization. Cell, 2008, 135, 161-173.	28.9	331
27	Proliferation control in neural stem and progenitor cells. Nature Reviews Neuroscience, 2015, 16, 647-659.	10.2	318
28	A protein complex containing Inscuteable and the Gα-binding protein Pins orients asymmetric cell divisions in Drosophila. Current Biology, 2000, 10, 353-362.	3.9	312
29	Sequential Roles of Cdc42, Par-6, aPKC, and Lgl in the Establishment of Epithelial Polarity during Drosophila Embryogenesis. Developmental Cell, 2004, 6, 845-854.	7.0	307
30	The hope and the hype of organoid research. Development (Cambridge), 2017, 144, 938-941.	2.5	303
31	Selfâ€organized developmental patterning and differentiation in cerebral organoids. EMBO Journal, 2017, 36, 1316-1329.	7.8	300
32	Cerebral Organoids Recapitulate Epigenomic Signatures of the Human Fetal Brain. Cell Reports, 2016, 17, 3369-3384.	6.4	296
33	Heterotrimeric G Proteins Direct Two Modes of Asymmetric Cell Division in the Drosophila Nervous System. Cell, 2001, 107, 183-194.	28.9	291
34	Genetically engineered cerebral organoids model brain tumor formation. Nature Methods, 2018, 15, 631-639.	19.0	286
35	The Drosophila Numb protein inhibits signaling of the Notch receptor during cell-cell interaction in sensory organ lineage Proceedings of the National Academy of Sciences of the United States of America, 1996, 93, 11925-11932.	7.1	285
36	Genome-wide analysis of Notch signalling in Drosophila by transgenic RNAi. Nature, 2009, 458, 987-992.	27.8	283

#	Article	IF	CITATIONS
37	Asymmetric cell division during animal development. Nature Reviews Molecular Cell Biology, 2001, 2, 11-20.	37.0	274
38	Asymmetric Rab11 Endosomes Regulate Delta Recycling and Specify Cell Fate in the Drosophila Nervous System. Cell, 2005, 122, 763-773.	28.9	274
39	The Drosophila NuMA Homolog Mud Regulates Spindle Orientation in Asymmetric Cell Division. Developmental Cell, 2006, 10, 731-742.	7.0	268
40	Safeguarding gene drive experiments in the laboratory. Science, 2015, 349, 927-929.	12.6	254
41	Drosophila Aurora-A Is Required for Centrosome Maturation and Actin-Dependent Asymmetric Protein Localization during Mitosis. Current Biology, 2002, 12, 640-647.	3.9	243
42	Genome-Wide Analysis of Self-Renewal in Drosophila Neural Stem Cells by Transgenic RNAi. Cell Stem Cell, 2011, 8, 580-593.	11.1	230
43	Mei-P26 regulates microRNAs and cell growth in the Drosophila ovarian stem cell lineage. Nature, 2008, 454, 241-245.	27.8	222
44	Distinct modes of cyclin E/cdc2c kinase regulation and S-phase control in mitotic and endoreduplication cycles of Drosophila embryogenesis Genes and Development, 1995, 9, 1327-1339.	5.9	217
45	Human tissues in a dish: The research and ethical implications of organoid technology. Science, 2017, 355, .	12.6	202
46	Synergistic action of Drosophila cyclins A and B during the G2-M transition EMBO Journal, 1993, 12, 65-74.	7.8	199
47	Ecdysone and Mediator Change Energy Metabolism to Terminate Proliferation in Drosophila Neural Stem Cells. Cell, 2014, 158, 874-888.	28.9	190
48	Sec15, a Component of the Exocyst, Promotes Notch Signaling during the Asymmetric Division of Drosophila Sensory Organ Precursors. Developmental Cell, 2005, 9, 351-363.	7.0	182
49	Directional Delta and Notch trafficking in Sara endosomes during asymmetric cell division. Nature, 2009, 458, 1051-1055.	27.8	179
50	<i>Drosophila</i> Cyclin B3 is required for female fertility and is dispensable for mitosis like Cyclin B. Genes and Development, 1998, 12, 3741-3751.	5.9	176
51	The Par Complex and Integrins Direct Asymmetric Cell Division in Adult Intestinal Stem Cells. Cell Stem Cell, 2012, 11, 529-540.	11.1	165
52	Mitotic Activation of the Kinase Aurora-A Requires Its Binding Partner Bora. Developmental Cell, 2006, 11, 147-157.	7.0	151
53	Mouse Inscuteable Induces Apical-Basal Spindle Orientation to Facilitate Intermediate Progenitor Generation in the Developing Neocortex. Neuron, 2011, 72, 269-284.	8.1	149
54	Phosphorylation-Induced Autoinhibition Regulates the Cytoskeletal Protein Lethal (2) giant larvae. Current Biology, 2005, 15, 276-282.	3.9	148

#	Article	IF	CITATIONS
55	Spindle orientation in mammalian cerebral cortical development. Current Opinion in Neurobiology, 2012, 22, 737-746.	4.2	140
56	SWI/SNF Complex Prevents Lineage Reversion and Induces Temporal Patterning in Neural Stem Cells. Cell, 2014, 156, 1259-1273.	28.9	137
57	Miranda as a multidomain adapter linking apically localized Inscuteable and basally localized Staufen and Prospero during asymmetric cell division in <i>Drosophila</i> . Genes and Development, 1998, 12, 1837-1846.	5.9	127
58	Mammalian Inscuteable Regulates Spindle Orientation and Cell Fate in the Developing Retina. Neuron, 2005, 48, 539-545.	8.1	123
59	Par3–mInsc and Gαi3 cooperate to promote oriented epidermal cell divisions through LGN. Nature Cell Biology, 2014, 16, 758-769.	10.3	123
60	FACS Purification and Transcriptome Analysis of Drosophila Neural Stem Cells Reveals a Role for Klumpfuss in Self-Renewal. Cell Reports, 2012, 2, 407-418.	6.4	122
61	Numb and αâ€Adaptin regulate Sanpodo endocytosis to specify cell fate in <i>Drosophila</i> external sensory organs. EMBO Reports, 2005, 6, 836-842.	4.5	120
62	Drosophila Ric-8 is essential for plasma-membrane localization of heterotrimeric G proteins. Nature Cell Biology, 2005, 7, 1099-1105.	10.3	118
63	LifeTime and improving European healthcare through cell-based interceptive medicine. Nature, 2020, 587, 377-386.	27.8	108
64	Shortstop Recruits EB1/APC1 and Promotes Microtubule Assembly at the Muscle-Tendon Junction. Current Biology, 2003, 13, 1086-1095.	3.9	104
65	Brain organoids: an ensemble of bioassays to investigate human neurodevelopment and disease. Cell Death and Differentiation, 2021, 28, 52-67.	11.2	104
66	A human tissue screen identifies a regulator of ER secretion as a brain-size determinant. Science, 2020, 370, 935-941.	12.6	101
67	Oxidative Metabolism Drives Immortalization of Neural Stem Cells during Tumorigenesis. Cell, 2020, 182, 1490-1507.e19.	28.9	100
68	The Conserved C2 Domain Protein Lethal (2) Giant Discs Regulates Protein Trafficking in Drosophila. Developmental Cell, 2006, 11, 641-653.	7.0	96
69	The Organoid Cell Atlas. Nature Biotechnology, 2021, 39, 13-17.	17.5	96
70	The N terminus of the Drosophila Numb protein directs membrane association and actin-dependent asymmetric localization. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 13005-13010.	7.1	94
71	Broad applicability of a streamlined Ethyl Cinnamate-based clearing procedure. Development (Cambridge), 2019, 146, .	2.5	92
72	Bazooka and PAR-6 are required with PAR-1 for the maintenance of oocyte fate in Drosophila. Current Biology, 2001, 11, 901-906.	3.9	88

#	Article	IF	CITATIONS
73	Mechanisms of asymmetric cell division during animal development. Current Opinion in Cell Biology, 1997, 9, 833-841.	5.4	85
74	Human organoids: a new dimension in cell biology. Molecular Biology of the Cell, 2019, 30, 1129-1137.	2.1	83
75	The PDZ Protein Canoe Regulates the Asymmetric Division of Drosophila Neuroblasts and Muscle Progenitors. Current Biology, 2008, 18, 831-837.	3.9	80
76	The chromodomain helicase Chd4 is required for Polycomb-mediated inhibition of astroglial differentiation. EMBO Journal, 2013, 32, 1598-1612.	7.8	80
77	Spindle orientation and asymmetric cell fate. Cell, 1995, 82, 523-526.	28.9	76
78	Fragile X Protein Functions with Lgl and the PAR Complex in Flies and Mice. Developmental Cell, 2005, 8, 43-52.	7.0	73
79	A single allele of <i>Hdac2</i> but not <i>Hdac1</i> is sufficient for normal mouse brain development in the absence of its paralog. Development (Cambridge), 2014, 141, 604-616.	2.5	70
80	Heterotrimeric G Proteins. Cell, 2004, 119, 453-456.	28.9	69
81	Organoid modeling of Zika and herpes simplex virus 1 infections reveals virus-specific responses leading to microcephaly. Cell Stem Cell, 2021, 28, 1362-1379.e7.	11.1	67
82	Experimental testing of predicted myristoylation targets involved in asymmetric cell division and calcium-dependent signalling. Cell Cycle, 2008, 7, 3709-3719.	2.6	65
83	The Phosphatase PP4c Controls Spindle Orientation to Maintain Proliferative Symmetric Divisions in the Developing Neocortex. Neuron, 2013, 79, 254-265.	8.1	65
84	Long-Term Live Cell Imaging and Automated 4D Analysis of Drosophila Neuroblast Lineages. PLoS ONE, 2013, 8, e79588.	2.5	62
85	Amplification of human interneuron progenitors promotes brain tumors and neurological defects. Science, 2022, 375, eabf5546.	12.6	61
86	The tumour suppressor L(3)mbt inhibits neuroepithelial proliferation and acts on insulator elements. Nature Cell Biology, 2011, 13, 1029-1039.	10.3	58
87	Identification of transcription factor binding sites from ChIP-seq data at high resolution. Bioinformatics, 2013, 29, 2705-2713.	4.1	58
88	Dachsous-Dependent Asymmetric Localization of Spiny-Legs Determines Planar Cell Polarity Orientation in Drosophila. Cell Reports, 2014, 8, 610-621.	6.4	58
89	Interaction of Activator of G-protein Signaling 3 (AGS3) with LKB1, a Serine/Threonine Kinase Involved in Cell Polarity and Cell Cycle Progression. Journal of Biological Chemistry, 2003, 278, 23217-23220.	3.4	57
90	FACS purification of Drosophila larval neuroblasts for next-generation sequencing. Nature Protocols, 2013, 8, 1088-1099.	12.0	57

#	Article	IF	CITATIONS
91	Quantitative Analysis of Protein Dynamics during Asymmetric Cell Division. Current Biology, 2005, 15, 1847-1854.	3.9	56
92	Lethal giant larvae take on a life of their own. Trends in Cell Biology, 2006, 16, 234-241.	7.9	56
93	Coordinated Control of mRNA and rRNA Processing Controls Embryonic Stem Cell Pluripotency and Differentiation. Cell Stem Cell, 2018, 22, 543-558.e12.	11.1	55
94	Mammary Stem Cell Self-Renewal Is Regulated by Slit2/Robo1 Signaling through SNAI1 and mINSC. Cell Reports, 2015, 13, 290-301.	6.4	54
95	Micro <scp>RNA</scp> â€34/449 controls mitotic spindle orientation during mammalian cortex development. EMBO Journal, 2016, 35, 2386-2398.	7.8	53
96	Deletion analysis of the Drosophila Inscuteable protein reveals domains for cortical localization and asymmetric localization. Current Biology, 1999, 9, 155-158.	3.9	51
97	Endosome dynamics during development. Current Opinion in Cell Biology, 2006, 18, 407-415.	5.4	50
98	The E3â€ubiquitin ligase TRIM2 regulates neuronal polarization. Journal of Neurochemistry, 2011, 117, 29-37.	3.9	43
99	The tumor suppressor Brat controls neuronal stem cell lineages by inhibiting Deadpan and Zelda. EMBO Reports, 2018, 19, 102-117.	4.5	41
100	Transcriptome and proteome quantification of a tumor model provides novel insights into postâ€transcriptional gene regulation. Genome Biology, 2013, 14, r133.	9.6	40
101	Time-Specific Effects of Spindle Positioning on Embryonic Progenitor Pool Composition and Adult Neural Stem Cell Seeding. Neuron, 2017, 93, 777-791.e3.	8.1	36
102	Reflections on the past two decades of neuroscience. Nature Reviews Neuroscience, 2020, 21, 524-534.	10.2	35
103	Dcas Is Required for importin-α3 Nuclear Export and Mechano-Sensory Organ Cell Fate Specification in Drosophila. Developmental Biology, 2002, 244, 396-406.	2.0	33
104	Analysis and modeling of mitotic spindle orientations in three dimensions. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 1014-1019.	7.1	33
105	The transcription factor odd-paired regulates temporal identity in transit-amplifying neural progenitors via an incoherent feed-forward loop. ELife, 2019, 8, .	6.0	32
106	Localization-Dependent and -Independent Roles of Numb Contribute to Cell-Fate Specification in Drosophila. Current Biology, 2005, 15, 1583-1590.	3.9	28
107	The asymmetrically segregating lncRNA cherub is required for transforming stem cells into malignant cells. ELife, 2018, 7, .	6.0	28
108	Time-resolved transcriptomics in neural stem cells identifies a v-ATPase/Notch regulatory loop. Journal of Cell Biology, 2018, 217, 3285-3300.	5.2	26

#	Article	IF	CITATIONS
109	The adaptor protein X11Lα/Dmint1 interacts with the PDZ-binding domain of the cell recognition protein Rst in Drosophila. Developmental Biology, 2006, 289, 296-307.	2.0	21
110	ISSCR guidelines for the transfer of human pluripotent stem cells and their direct derivatives into animal hosts. Stem Cell Reports, 2021, 16, 1409-1415.	4.8	20
111	Protein Localization during Asymmetric Cell Division. Experimental Cell Research, 2001, 271, 66-74.	2.6	19
112	Epithelial polarity: The ins and outs of the fly epidermis. Current Biology, 2000, 10, R791-R794.	3.9	16
113	A Combination of CRISPR/Cas9 and Standardized RNAi as a Versatile Platform for the Characterization of Gene Function. G3: Genes, Genomes, Genetics, 2016, 6, 2467-2478.	1.8	16
114	Neurotransmitter signaling regulates distinct phases of multimodal human interneuron migration. EMBO Journal, 2021, 40, e108714.	7.8	16
115	The Conserved Discs-large Binding Partner Banderuola Regulates Asymmetric Cell Division in Drosophila. Current Biology, 2014, 24, 1811-1825.	3.9	14
116	The splicing co-factor Barricade/Tat-SF1, is required for cell cycle and lineage progression in <i>Drosophila</i> neural stem cells. Development (Cambridge), 2017, 144, 3932-3945.	2.5	14
117	The TRIM-NHL Protein Brat Promotes Axon Maintenance by Repressing <i>src64B</i> Expression. Journal of Neuroscience, 2014, 34, 13855-13864.	3.6	13
118	Inscuteable-dependent apical localization of the microtubule-binding protein Cornetto suggests a role in asymmetric cell division. Journal of Cell Science, 2001, 114, 3655-3662.	2.0	11
119	LIS1 and Spindle Orientation in Neuroepithelial Cells. Cell Stem Cell, 2008, 2, 193-194.	11.1	9
120	A Regulatory Transcriptional Loop Controls Proliferation and Differentiation in Drosophila Neural Stem Cells. PLoS ONE, 2014, 9, e97034.	2.5	7
121	Dynamics of activating and repressive histone modifications in <i>Drosophila</i> neural stem cell lineages and brain tumors. Development (Cambridge), 2019, 146, .	2.5	7
122	Cell Biology: Notch Recycling Is Numbed. Current Biology, 2013, 23, R270-R272.	3.9	6
123	CELL BIOLOGY: Sara Splits the Signal. Science, 2006, 314, 1094-1096.	12.6	5
124	Wicked views on stem cell news. Nature Cell Biology, 2009, 11, 678-679.	10.3	5
125	Pins for spines. Nature Cell Biology, 2005, 7, 1157-1158.	10.3	4
126	Fly Stem Cell Research Gets Infectious. Cell, 2009, 137, 1185-1187.	28.9	3

8

#	Article	IF	CITATIONS
127	Tracing Stem Cell Division in Adult Neurogenesis. Cell Stem Cell, 2018, 22, 143-145.	11.1	3
128	Getting axons going. Nature, 2005, 436, 632-633.	27.8	2
129	Lab-Built Brains. Scientific American, 2016, 316, 26-31.	1.0	2
130	Cell division, growth and death. Current Opinion in Cell Biology, 2008, 20, 647-649.	5.4	1
131	Asymmetric cell division and spindle orientation in neural stem cells - from drosophila to humans. Experimental Hematology, 2013, 41, S4.	0.4	1
132	Prospero Phase-Separating the Way to Neuronal Differentiation. Developmental Cell, 2020, 52, 251-252.	7.0	1
133	Genetic engineering to initiate tumorigenesis in cerebral organoids. Protocol Exchange, 0, , .	0.3	1
134	Cyclins and <i>Cdc2</i> Kinases in <i>Drosophila</i> : Genetic Analyses in a Higher Eukaryote. Novartis Foundation Symposium, 1992, 170, 97-114.	1.1	1
135	On the backroads to cellular asymmetry. Development (Cambridge), 2007, 134, 4311-4313.	2.5	0
136	You Are What You Eat: Linking Metabolic Asymmetry and Cell Fate Choice. Developmental Cell, 2016, 37, 206-208.	7.0	0
137	Modeling Human Brain Development And Disease In Stem Cell Derived 3D Organoid Culture. European Neuropsychopharmacology, 2017, 27, S358.	0.7	0
138	A48â€Expanded HTT cag repeats disrupt the balance between neural progenitor expansion and differentiation in isogenic human cerebral organoids. , 2018, , .		0
139	Genetic Analysis of Heterotrimeric G-Protein Function. , 2003, , 571-573.		0
140	Purification of Drosophila Protein Complexes for Mass Spectrometry. Methods in Molecular Biology, 2008, 420, 347-358.	0.9	0
141	DigiTAG–a RNA Sequencing Approach to Analyze Transcriptomes of Rare Cell Populations in Drosophila melanogaster. Bio-protocol, 2020, 10, e3809.	0.4	0