Anna Falk

List of Publications by Year
in descending order

71 papers	3,510 citations	186265 28 h-index	149698 56 g-index
78 all docs	78 docs citations	78 times ranked	5748 citing authors

#	Article	IF	Citations
1	Cross-talk between the Notch and TGF-β signaling pathways mediated by interaction of the Notch intracellular domain with Smad3. Journal of Cell Biology, 2003, 163, 723-728.	5.2	345
2	Capture of Neuroepithelial-Like Stem Cells from Pluripotent Stem Cells Provides a Versatile System for In Vitro Production of Human Neurons. PLoS ONE, 2012, 7, e29597.	2.5	254
3	Functional Notch signaling is required for BMP4-induced inhibition of myogenic differentiation. Development (Cambridge), 2003, 130, 6089-6099.	2.5	230
4	Treatment of a Mouse Model of Spinal Cord Injury by Transplantation of Human Induced Pluripotent Stem Cell-Derived Long-Term Self-Renewing Neuroepithelial-Like Stem Cells. Stem Cells, 2012, 30, 1163-1173.	3.2	209
5	Long-term tripotent differentiation capacity of human neural stem (NS) cells in adherent culture. Molecular and Cellular Neurosciences, 2008, 38, 245-258.	2.2	199
6	A 3D Alzheimer's disease culture model and the induction of P21-activated kinase mediated sensing in iPSC derived neurons. Biomaterials, 2014, 35, 1420-1428.	11.4	151
7	Enantioselective Nickel‐Catalyzed Hydrocyanation of Vinylarenes Using Chiral Phosphine–Phosphite Ligands and TMS–CN as a Source of HCN. Angewandte Chemie - International Edition, 2013, 52, 1576-1580.	13.8	119
8	CD133 (Prominin) Negative Human Neural Stem Cells Are Clonogenic and Tripotent. PLoS ONE, 2009, 4, e5498.	2.5	115
9	Modeling psychiatric disorders: from genomic findings to cellular phenotypes. Molecular Psychiatry, 2016, 21, 1167-1179.	7.9	92
10	TRIM28 Controls a Gene Regulatory Network Based on Endogenous Retroviruses in Human Neural Progenitor Cells. Cell Reports, 2017, 18, 1-11.	6.4	87
11	A PBX1 transcriptional network controls dopaminergic neuron development and is impaired in Parkinson's disease. EMBO Journal, 2016, 35, 1963-1978.	7.8	85
12	Human iPS-Derived Astroglia from a Stable Neural Precursor State Show Improved Functionality Compared with Conventional Astrocytic Models. Stem Cell Reports, 2018, 10, 1030-1045.	4.8	81
13	Barrier Properties and Transcriptome Expression in Human iPSC-Derived Models of the Blood–Brain Barrier. Stem Cells, 2018, 36, 1816-1827.	3.2	81
14	Crosstalk between astrocytes and microglia results in increased degradation of α-synuclein and amyloid-β aggregates. Journal of Neuroinflammation, 2021, 18, 124.	7.2	81
15	Gene Delivery to Adult Neural Stem Cells. Experimental Cell Research, 2002, 279, 34-39.	2.6	80
16	Stem Cells Expanded from the Human Embryonic Hindbrain Stably Retain Regional Specification and High Neurogenic Potency. Journal of Neuroscience, 2013, 33, 12407-12422.	3.6	74
17	Amphiregulin is a mitogen for adult neural stem cells. Journal of Neuroscience Research, 2002, 69, 757-762.	2.9	72
18	The Roots of Autism and ADHD Twin Study in Sweden (RATSS). Twin Research and Human Genetics, 2014, 17, 164-176.	0.6	62

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19	Generation of anti-Notch antibodies and their application in blocking Notch signalling in neural stem cells. Methods, 2012, 58, 69-78.	3.8	55
20	Enantioselective Nickel‐Catalyzed Hydrocyanation using Chiral Phosphine‐Phosphite Ligands: Recent Improvements and Insights. Advanced Synthesis and Catalysis, 2015, 357, 3317-3320.	4.3	47
21	An in vitro model of lissencephaly: expanding the role of DCX during neurogenesis. Molecular Psychiatry, 2018, 23, 1674-1684.	7.9	45
22	Models of the blood-brain barrier using iPSC-derived cells. Molecular and Cellular Neurosciences, 2020, 107, 103533.	2.2	44
23	Single cell analysis of autism patient with bi-allelic NRXN1-alpha deletion reveals skewed fate choice in neural progenitors and impaired neuronal functionality. Experimental Cell Research, 2019, 383, 111469.	2.6	39
24	Automated Large-Scale Culture and Medium-Throughput Chemical Screen for Modulators of Proliferation and Viability of Human Induced Pluripotent Stem Cell‐Derived Neuroepithelial-like Stem Cells. Journal of Biomolecular Screening, 2013, 18, 258-268.	2.6	38
25	Humanized Stem Cell Models of Pediatric Medulloblastoma Reveal an Oct4/mTOR Axis that Promotes Malignancy. Cell Stem Cell, 2019, 25, 855-870.e11.	11.1	38
26	Spider silk for xeno-free long-term self-renewal and differentiation of human pluripotent stem cells. Biomaterials, 2014, 35, 8496-8502.	11.4	37
27	Overactive BRCA1 Affects Presenilin 1 in Induced Pluripotent Stem Cell-Derived Neurons in Alzheimer's Disease. Journal of Alzheimer's Disease, 2018, 62, 175-202.	2.6	36
28	Transcriptome and Proteome Profiling of Neural Induced Pluripotent Stem Cells from Individuals with Down Syndrome Disclose Dynamic Dysregulations of Key Pathways and Cellular Functions. Molecular Neurobiology, 2019, 56, 7113-7127.	4.0	36
29	Derivation of human iPS cell lines from monozygotic twins in defined and xeno free conditions. Stem Cell Research, 2017, 18, 22-25.	0.7	35
30	p53 controls genomic stability and temporal differentiation of human neural stem cells and affects neural organization in human brain organoids. Cell Death and Disease, 2020, 11, 52.	6.3	33
31	SQSTM1/p62-Directed Metabolic Reprogramming Is Essential for Normal Neurodifferentiation. Stem Cell Reports, 2019, 12, 696-711.	4.8	32
32	Low‐Pressure Cobalt‐Catalyzed Enantioselective Hydrovinylation of Vinylarenes. Chemistry - A European Journal, 2016, 22, 7381-7384.	3.3	30
33	Imaging-based chemical screens using normal and glioma-derived neural stem cells. Biochemical Society Transactions, 2010, 38, 1067-1071.	3.4	28
34	Presynaptic dysfunction in CASK-related neurodevelopmental disorders. Translational Psychiatry, 2020, 10, 312.	4.8	28
35	Modeling cancer using patient-derived induced pluripotent stem cells to understand development of childhood malignancies. Cell Death Discovery, 2018, 4, 7.	4.7	27
36	Identification of cell surface markers and establishment of monolayer differentiation to retinal pigment epithelial cells. Nature Communications, 2020, 11, 1609.	12.8	26

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37	Single‐cell study of neural stem cells derived from human iPSCs reveals distinct progenitor populations with neurogenic and gliogenic potential. Genes To Cells, 2019, 24, 836-847.	1.2	24
38	Glucocorticoids alter neuronal differentiation of human neuroepithelial-like cells by inducing long-lasting changes in the reactive oxygen species balance. Neuropharmacology, 2016, 107, 422-431.	4.1	23
39	Modeling SHH-driven medulloblastoma with patient iPS cell-derived neural stem cells. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 20127-20138.	7.1	23
40	Non-immortalized human neural stem (NS) cells as a scalable platform for cellular assays. Neurochemistry International, 2011, 59, 432-444.	3.8	22
41	New neurons in old brains. Annals of Medicine, 2005, 37, 480-486.	3.8	21
42	Generation of human iPS cell line CTL07-II from human fibroblasts, under defined and xeno-free conditions. Stem Cell Research, 2016, 17, 474-478.	0.7	21
43	Three-dimensional single-cell imaging for the analysis of RNA and protein expression in intact tumour biopsies. Nature Biomedical Engineering, 2020, 4, 875-888.	22.5	21
44	DNA methylation changes in Down syndrome derived neural iPSCs uncover co-dysregulation of ZNF and HOX3 families of transcription factors. Clinical Epigenetics, 2020, 12, 9.	4.1	20
45	Stem cell models of schizophrenia, what have we learned and what is the potential?. Schizophrenia Research, 2019, 210, 3-12.	2.0	17
46	Broadly Active Antiviral Compounds Disturb Zika Virus Progeny Release Rescuing Virus-Induced Toxicity in Brain Organoids. Viruses, 2021, 13, 37.	3.3	15
47	Acute doses of caffeine shift nervous system cell expression profiles toward promotion of neuronal projection growth. Scientific Reports, 2017, 7, 11458.	3.3	14
48	Oxidative DNA Damage Signalling in Neural Stem Cells in Alzheimer's Disease. Oxidative Medicine and Cellular Longevity, 2019, 2019, 1-10.	4.0	14
49	Copy number variants (CNVs): a powerful tool for iPSC-based modelling of ASD. Molecular Autism, 2020, 11, 42.	4.9	14
50	Depression as a predictor of postoperative delirium after cardiac surgery: a systematic review and meta-analysis. Interactive Cardiovascular and Thoracic Surgery, 2021, 32, 371-379.	1.1	14
51	High-Throughput Identification of Genes Promoting Neuron Formation and Lineage Choice in Mouse Embryonic Stem Cells. Stem Cells, 2007, 25, 1539-1545.	3.2	13
52	A Scalable Synthesis of Chiral Modular Phosphine-Phosphite Ligands. Synthesis, 2013, 45, 527-535.	2.3	13
53	Mutations in the mitochondrial tryptophanyl‐tRNA synthetase cause growth retardation and progressive leukoencephalopathy. Molecular Genetics & Genomic Medicine, 2019, 7, e654.	1.2	13
54	Transplantation of Human Neural Precursor Cells Reverses Syrinx Growth in a Rat Model of Post-Traumatic Syringomyelia. Neurotherapeutics, 2021, 18, 1257-1272.	4.4	13

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55	NRXN1 Deletion and Exposure to Methylmercury Increase Astrocyte Differentiation by Different Notch-Dependent Transcriptional Mechanisms. Frontiers in Genetics, 2019, 10, 593.	2.3	11
56	Prolyl oligopeptidase inhibition by KYP-2407 increases alpha-synuclein fibril degradation in neuron-like cells. Biomedicine and Pharmacotherapy, 2020, 131, 110788.	5.6	11
57	Protocol for the derivation, culturing, and differentiation of human iPS-cell-derived neuroepithelial stem cells to study neural differentiation inÂvitro. STAR Protocols, 2021, 2, 100528.	1.2	11
58	Dyslexia Candidate Gene and Ciliary Gene Expression Dynamics During Human Neuronal Differentiation. Molecular Neurobiology, 2020, 57, 2944-2958.	4.0	11
59	Assembly of FN-silk with laminin-521 to integrate hPSCs into a three-dimensional culture for neural differentiation. Biomaterials Science, 2020, 8, 2514-2525.	5.4	10
60	The T-type Ca2+ Channel Cav3.2 Regulates Differentiation of Neural Progenitor Cells during Cortical Development via Caspase-3. Neuroscience, 2019, 402, 78-89.	2.3	9
61	Ataxia in Patients With Bi-Allelic NFASC Mutations and Absence of Full-Length NF186. Frontiers in Genetics, 2019, 10, 896.	2.3	7
62	Depression is associated with delirium after cardiac surgeryâ€"a population-based cohort study. Interactive Cardiovascular and Thoracic Surgery, 2022, 35, .	1.1	6
63	Glyphosateâ€based herbicide induces longâ€lasting impairment in neuronal and glial differentiation. Environmental Toxicology, 2022, 37, 2044-2057.	4.0	5
64	Integration Free Derivation of Human Induced Pluripotent Stem Cells Using Laminin 521 Matrix. Journal of Visualized Experiments, 2017, , .	0.3	4
65	hiPSâ€Derived Astroglia Model Shows Temporal Transcriptomic Profile Related to Human Neural Development and Glia Competence Acquisition of a Maturing Astrocytic Identity. Advanced Biology, 2020, 4, e1900226.	3.0	4
66	Multiple therapeutic effects of human neural stem cells derived from induced pluripotent stem cells in a rat model of post-traumatic syringomyelia. EBioMedicine, 2022, 77, 103882.	6.1	4
67	Generation of induced pluripotent stem cell lines from two Neuroblastoma patients carrying a germline ALK R1275Q mutation. Stem Cell Research, 2019, 34, 101356.	0.7	3
68	Induction of sensory neurons from neuroepithelial stem cells by the ISX9 small molecule. American Journal of Stem Cells, 2016, 5, 19-28.	0.4	2
69	Partial Monosomy 21 Mirrors Gene Expression of Trisomy 21 in a Patient-Derived Neuroepithelial Stem Cell Model. Frontiers in Genetics, 2021, 12, 803683.	2.3	1
70	Quick Access to Human Astrocytic Software that Drives Neuronal Hardware. Stem Cell Reports, 2018, 11, 847-849.	4.8	0
71	Delirium assessment â€" Often ignored, always important. Intensive and Critical Care Nursing, 2021, 62, 102958.	2.9	0