

# Frederick J Livesey

## List of Publications by Year in descending order

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70  
papers

9,819  
citations

66343

42  
h-index

95266

68  
g-index

78  
all docs

78  
docs citations

78  
times ranked

14036  
citing authors

#	ARTICLE	IF	CITATIONS
1	SORL1 deficiency in human excitatory neurons causes APP-dependent defects in the endolysosome-autophagy network. <i>Cell Reports</i> , 2021, 35, 109259.	6.4	47
2	Endolysosome and autophagy dysfunction in Alzheimer disease. <i>Autophagy</i> , 2021, 17, 3882-3883.	9.1	14
3	Tumour necrosis factor induces increased production of extracellular amyloid- $\beta$ - and $\beta$ -synuclein-containing aggregates by human Alzheimer's disease neurons. <i>Brain Communications</i> , 2020, 2, fcaa146.	3.3	14
4	Variable Outcomes in Neural Differentiation of Human PSCs Arise from Intrinsic Differences in Developmental Signaling Pathways. <i>Cell Reports</i> , 2020, 31, 107732.	6.4	48
5	Mutations in thyroid hormone receptor $\beta$ 1 cause premature neurogenesis and progenitor cell depletion in human cortical development. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 22754-22763.	7.1	27
6	Microtubules Deform the Nuclear Membrane and Disrupt Nucleocytoplasmic Transport in Tau-Mediated Frontotemporal Dementia. <i>Cell Reports</i> , 2019, 26, 582-593.e5.	6.4	119
7	Functional Studies of Missense TREM2 Mutations in Human Stem Cell-Derived Microglia. <i>Stem Cell Reports</i> , 2018, 10, 1294-1307.	4.8	124
8	Extracellular Monomeric and Aggregated Tau Efficiently Enter Human Neurons through Overlapping but Distinct Pathways. <i>Cell Reports</i> , 2018, 22, 3612-3624.	6.4	147
9	Altered $\beta$ -Secretase Processing of APP Disrupts Lysosome and Autophagosome Function in Monogenic Alzheimer's Disease. <i>Cell Reports</i> , 2018, 25, 3647-3660.e2.	6.4	95
10	Reproducibility of Molecular Phenotypes after Long-Term Differentiation to Human iPSC-Derived Neurons: A Multi-Site Omics Study. <i>Stem Cell Reports</i> , 2018, 11, 897-911.	4.8	135
11	In vivo modeling of human neuron dynamics and Down syndrome. <i>Science</i> , 2018, 362, .	12.6	87
12	Extracellular Forms of $\beta$ and Tau from iPSC Models of Alzheimer's Disease Disrupt Synaptic Plasticity. <i>Cell Reports</i> , 2018, 23, 1932-1938.	6.4	60
13	Chromatin Accessibility Impacts Transcriptional Reprogramming in Oocytes. <i>Cell Reports</i> , 2018, 24, 304-311.	6.4	50
14	Guided self-organization and cortical plate formation in human brain organoids. <i>Nature Biotechnology</i> , 2017, 35, 659-666.	17.5	606
15	Phenotypic Screening Identifies Modulators of Amyloid Precursor Protein Processing in Human Stem Cell Models of Alzheimer's Disease. <i>Stem Cell Reports</i> , 2017, 8, 870-882.	4.8	53
16	Filopodyan: An open-source pipeline for the analysis of filopodia. <i>Journal of Cell Biology</i> , 2017, 216, 3405-3422.	5.2	46
17	2D and 3D Stem Cell Models of Primate Cortical Development Identify Species-Specific Differences in Progenitor Behavior Contributing to Brain Size. <i>Cell Stem Cell</i> , 2016, 18, 467-480.	11.1	292
18	Automated Synthesis and Analysis of Switching Gene Regulatory Networks. <i>BioSystems</i> , 2016, 146, 26-34.	2.0	16

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19	Cortical Differentiation of Human Pluripotent Cells for In Vitro Modeling of Alzheimer's Disease. <i>Methods in Molecular Biology</i> , 2016, 1303, 267-278.	0.9	6
20	Neural Cell Fate Determination. , 2015, , 283-296.		3
21	Creating Patient-Specific Neural Cells for the In Vitro Study of Brain Disorders. <i>Stem Cell Reports</i> , 2015, 5, 933-945.	4.8	72
22	Developmental regulation of tau splicing is disrupted in stem cell-derived neurons from frontotemporal dementia patients with the 10 + 16 splice-site mutation in MAPT. <i>Human Molecular Genetics</i> , 2015, 24, 5260-5269.	2.9	116
23	C&T-seq: parallel sequencing of single-cell genomes and transcriptomes. <i>Nature Methods</i> , 2015, 12, 519-522.	19.0	633
24	APP Metabolism Regulates Tau Proteostasis in Human Cerebral Cortex Neurons. <i>Cell Reports</i> , 2015, 11, 689-696.	6.4	158
25	The methyl binding domain 3/nucleosome remodelling and deacetylase complex regulates neural cell fate determination and terminal differentiation in the cerebral cortex. <i>Neural Development</i> , 2015, 10, 13.	2.4	53
26	Development and function of human cerebral cortex neural networks from pluripotent stem cells <i>in vitro</i> . <i>Development (Cambridge)</i> , 2015, 142, 3178-3187.	2.5	103
27	Reconstructing the neuronal milieu <i>in vitro</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 6250-6251.	7.1	3
28	$\beta$ -Secretase processing of APP inhibits neuronal activity in the hippocampus. <i>Nature</i> , 2015, 526, 443-447.	27.8	308
29	The phosphorylation status of Ascl1 is a key determinant of neuronal differentiation and maturation <i>in vivo</i> and <i>in vitro</i> . <i>Development (Cambridge)</i> , 2014, 141, 2216-2224.	2.5	76
30	Human stem cell models of dementia. <i>Human Molecular Genetics</i> , 2014, 23, R35-R39.	2.9	23
31	Imatinib treatment and $\beta$ 42 in humans. <i>Alzheimer's and Dementia</i> , 2014, 10, S374-80.	0.8	15
32	Dicer is required for neural stem cell multipotency and lineage progression during cerebral cortex development. <i>Neural Development</i> , 2013, 8, 14.	2.4	42
33	Pax6 Exerts Regional Control of Cortical Progenitor Proliferation via Direct Repression of Cdk6 and Hypophosphorylation of pRb. <i>Neuron</i> , 2013, 78, 269-284.	8.1	82
34	Chromatin Regulation by BAF170 Controls Cerebral Cortical Size and Thickness. <i>Developmental Cell</i> , 2013, 25, 256-269.	7.0	149
35	Ikars promotes early-born neuronal fates in the cerebral cortex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E716-25.	7.1	99
36	Stem cell models of Alzheimer's disease and related neurological disorders. <i>Alzheimer's Research and Therapy</i> , 2012, 4, 44.	6.2	5

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37	Directed differentiation of human pluripotent stem cells to cerebral cortex neurons and neural networks. <i>Nature Protocols</i> , 2012, 7, 1836-1846.	12.0	781
38	Human cerebral cortex development from pluripotent stem cells to functional excitatory synapses. <i>Nature Neuroscience</i> , 2012, 15, 477-486.	14.8	726
39	A potential link between obesity and neural stem cell dysfunction. <i>Nature Cell Biology</i> , 2012, 14, 987-989.	10.3	6
40	A Human Stem Cell Model of Early Alzheimer's Disease Pathology in Down Syndrome. <i>Science Translational Medicine</i> , 2012, 4, 124ra29.	12.4	276
41	Neural Stem Cell Biology in Vertebrates and Invertebrates: More Alike than Different?. <i>Neuron</i> , 2011, 70, 719-729.	8.1	106
42	Grouping and classifying electrophysiologically-defined classes of neocortical neurons by single cell, whole-genome expression profiling. <i>Frontiers in Molecular Neuroscience</i> , 2010, 3, 10.	2.9	36
43	Reversible Block of Mouse Neural Stem Cell Differentiation in the Absence of Dicer and MicroRNAs. <i>PLoS ONE</i> , 2010, 5, e13453.	2.5	65
44	Ezh2, the histone methyltransferase of PRC2, regulates the balance between self-renewal and differentiation in the cerebral cortex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 15957-15962.	7.1	396
45	The Level of the Transcription Factor Pax6 Is Essential for Controlling the Balance between Neural Stem Cell Self-Renewal and Neurogenesis. <i>PLoS Genetics</i> , 2009, 5, e1000511.	3.5	347
46	Gradients in the Brain: The Control of the Development of Form and Function in the Cerebral Cortex. <i>Cold Spring Harbor Perspectives in Biology</i> , 2009, 1, a002519-a002519.	5.5	125
47	Prolonged illumination up-regulates arrestin and two guanylate cyclase activating proteins: a novel mechanism for light adaptation. <i>Journal of Physiology</i> , 2009, 587, 2457-2472.	2.9	5
48	Modelling and measuring single cell RNA expression levels find considerable transcriptional differences among phenotypically identical cells. <i>BMC Genomics</i> , 2008, 9, 268.	2.8	34
49	PMC42, a breast progenitor cancer cell line, has normal-like mRNA and microRNA transcriptomes. <i>Breast Cancer Research</i> , 2008, 10, R54.	5.0	22
50	Comparative evaluation of linear and exponential amplification techniques for expression profiling at the single-cell level. <i>Genome Biology</i> , 2006, 7, R18.	9.6	57
51	A role for Dicer in immune regulation. <i>Journal of Experimental Medicine</i> , 2006, 203, 2519-2527.	8.5	490
52	A role for the transcriptional repressor REST in maintaining the phenotype of neurosecretory-deficient PC12 cells. <i>Journal of Neurochemistry</i> , 2006, 99, 1435-1444.	3.9	26
53	Electrophysiological and gene expression profiling of neuronal cell types in mammalian neocortex. <i>Journal of Physiology</i> , 2006, 575, 361-365.	2.9	6
54	A role for Dicer in immune regulation. <i>Journal of Cell Biology</i> , 2006, 175, i7-i7.	5.2	0

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55	Cell differentiation. <i>Current Opinion in Cell Biology</i> , 2005, 17, 637-638.	5.4	0
56	Genomic characterisation of a Fgf-regulated gradient-based neocortical protomap. <i>Development (Cambridge)</i> , 2005, 132, 3947-3961.	2.5	71
57	A Dynamic Switch in the Replication Timing of Key Regulator Genes in Embryonic Stem Cells upon Neural Induction. <i>Cell Cycle</i> , 2004, 3, 1619-1624.	2.6	77
58	An analysis of the gene expression program of mammalian neural progenitor cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 1374-1379.	7.1	81
59	Molecular Organization of the Ferret Visual Thalamus. <i>Journal of Neuroscience</i> , 2004, 24, 9962-9970.	3.6	81
60	FLRT3 is expressed in sensory neurons after peripheral nerve injury and regulates neurite outgrowth. <i>Molecular and Cellular Neurosciences</i> , 2004, 27, 202-214.	2.2	47
61	Prox1 function controls progenitor cell proliferation and horizontal cell genesis in the mammalian retina. <i>Nature Genetics</i> , 2003, 34, 53-58.	21.4	364
62	Strategies for microarray analysis of limiting amounts of RNA. <i>Briefings in Functional Genomics &amp; Proteomics</i> , 2003, 2, 31-36.	3.8	55
63	Vertebrate neural cell-fate determination: Lessons from the retina. <i>Nature Reviews Neuroscience</i> , 2001, 2, 109-118.	10.2	859
64	Differential Display of m RNA by PCR. <i>Current Protocols in Human Genetics</i> , 2001, 30, Unit 11.5.	3.5	0
65	Microarray analysis of the transcriptional network controlled by the photoreceptor homeobox gene <i>Crx</i> . <i>Current Biology</i> , 2000, 10, 301-310.	3.9	252
66	Netrins and netrin receptors. <i>Cellular and Molecular Life Sciences</i> , 1999, 56, 62-68.	5.4	70
67	Differential Display Cloning of Genes Induced in Regenerating Neurons. <i>Methods</i> , 1998, 16, 386-395.	3.8	3
68	Netrin and Netrin Receptor Expression in the Embryonic Mammalian Nervous System Suggests Roles in Retinal, Striatal, Nigral, and Cerebellar Development. <i>Molecular and Cellular Neurosciences</i> , 1997, 8, 417-429.	2.2	169
69	A Schwann cell mitogen accompanying regeneration of motor neurons. <i>Nature</i> , 1997, 390, 614-618.	27.8	173
70	Identifying changes in gene expression in the nervous system: mRNA differential display. <i>Trends in Neurosciences</i> , 1996, 19, 84-88.	8.6	47