

# Charles E Arber

## List of Publications by Year in descending order

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33  
papers

1,165  
citations

567281

15  
h-index

610901

24  
g-index

39  
all docs

39  
docs citations

39  
times ranked

2522  
citing authors

#	ARTICLE	IF	CITATIONS
1	Activin A directs striatal projection neuron differentiation of human pluripotent stem cells. <i>Development (Cambridge)</i> , 2015, 142, 1375-1386.	2.5	134
2	Human Induced Pluripotent Stem Cell-Derived Microglia-Like Cells Harboring TREM2 Missense Mutations Show Specific Deficits in Phagocytosis. <i>Cell Reports</i> , 2018, 24, 2300-2311.	6.4	118
3	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
4	Review: Insights into molecular mechanisms of disease in neurodegeneration with brain iron accumulation: unifying theories. <i>Neuropathology and Applied Neurobiology</i> , 2016, 42, 220-241.	3.2	114
5	Stem cell models of Alzheimer's disease: progress and challenges. <i>Alzheimer's Research and Therapy</i> , 2017, 9, 42.	6.2	112
6	Familial Alzheimer's disease patient-derived neurons reveal distinct mutation-specific effects on amyloid beta. <i>Molecular Psychiatry</i> , 2020, 25, 2919-2931.	7.9	99
7	Temporally controlled modulation of FGF/ERK signaling directs midbrain dopaminergic neural progenitor fate in mouse and human pluripotent stem cells. <i>Development (Cambridge)</i> , 2011, 138, 4363-4374.	2.5	83
8	Activin induces cortical interneuron identity and differentiation in embryonic stem cell-derived telencephalic neural precursors. <i>Nature Communications</i> , 2012, 3, 841.	12.8	68
9	Familial Alzheimer's Disease Mutations in PSEN1 Lead to Premature Human Stem Cell Neurogenesis. <i>Cell Reports</i> , 2021, 34, 108615.	6.4	53
10	Susceptibility of brain atrophy to <i>TRIB3</i> in Alzheimer's disease, evidence from functional prioritization in imaging genetics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 3162-3167.	7.1	41
11	iPSC-derived neuronal models of PANK2-associated neurodegeneration reveal mitochondrial dysfunction contributing to early disease. <i>PLoS ONE</i> , 2017, 12, e0184104.	2.5	39
12	Mutations in valosin-containing protein (VCP) decrease ADP/ATP translocation across the mitochondrial membrane and impair energy metabolism in human neurons. <i>Journal of Biological Chemistry</i> , 2017, 292, 8907-8917.	3.4	27
13	Analysis of macroautophagy related proteins in G2019S LRRK2 Parkinson's disease brains with Lewy body pathology. <i>Brain Research</i> , 2018, 1701, 75-84.	2.2	25
14	Cortical interneurons from human pluripotent stem cells: prospects for neurological and psychiatric disease. <i>Frontiers in Cellular Neuroscience</i> , 2013, 7, 10.	3.7	24
15	Amyloid $\beta$ peptides are differentially vulnerable to preanalytical surface exposure, an effect incompletely mitigated by the use of ratios. <i>Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring</i> , 2018, 10, 311-321.	2.4	21
16	Abrogation of LRRK2 dependent Rab10 phosphorylation with TLR4 activation and alterations in evoked cytokine release in immune cells. <i>Neurochemistry International</i> , 2021, 147, 105070.	3.8	18
17	Plasma amyloid- $\beta$ ratios in autosomal dominant Alzheimer's disease: the influence of genotype. <i>Brain</i> , 2021, 144, 2964-2970.	7.6	16
18	Amyloid precursor protein processing in human neurons with an allelic series of the PSEN1 intron 4 deletion mutation and total presenilin-1 knockout. <i>Brain Communications</i> , 2019, 1, fcz024.	3.3	13

#	ARTICLE	IF	CITATIONS
19	Using human induced pluripotent stem cells to model cerebellar disease: Hope and hype. <i>Journal of Neurogenetics</i> , 2015, 29, 95-102.	1.4	10
20	Knockdown of Amyloid Precursor Protein: Biological Consequences and Clinical Opportunities. <i>Frontiers in Neuroscience</i> , 2022, 16, 835645.	2.8	10
21	Mass spectrometry analysis of tau and amyloid $\beta$ in iPSC $\rightarrow$ derived models of Alzheimer $\rightarrow$ s disease and dementia. <i>Journal of Neurochemistry</i> , 2021, 159, 305-317.	3.9	8
22	Differential Stimulation of Pluripotent Stem Cell-Derived Human Microglia Leads to Exosomal Proteomic Changes Affecting Neurons. <i>Cells</i> , 2021, 10, 2866.	4.1	6
23	Elevated 4R $\rightarrow$ tau in astrocytes from asymptomatic carriers of the <i>MAPT</i> 10+16 intronic mutation. <i>Journal of Cellular and Molecular Medicine</i> , 2022, 26, 1327-1331.	3.6	6
24	Investigating changes in the proteostasis capabilities of iPSC $\rightarrow$ neurons during development and in FTD using iPSC $\rightarrow$ neurons with <i>MAPT</i> mutations. <i>Alzheimer's and Dementia</i> , 2021, 17, e058308.	0.8	1
25	[P1 $\rightarrow$ 219]: PROBING DEVELOPMENTAL CONSEQUENCES OF PSEN1 MUTATIONS IN IPSC DIFFERENTIATION IN 2D AND 3D. <i>Alzheimer's and Dementia</i> , 2017, 13, P327.	0.8	0
26	[P1 $\rightarrow$ 220]: 3D CEREBRAL ORGANOID AS IN VITRO MODELS FOR ALZHEIMER'S DISEASE. <i>Alzheimer's and Dementia</i> , 2017, 13, P327.	0.8	0
27	[P1 $\rightarrow$ 025]: PROBING DEVELOPMENTAL CONSEQUENCES OF PSEN1 MUTATIONS IN IPSC DIFFERENTIATION IN 2D AND 3D. <i>Alzheimer's and Dementia</i> , 2017, 13, P242.	0.8	0
28	[P1 $\rightarrow$ 180]: DISTINCT A $\beta$ 2 PRODUCTION IN STEM CELL $\rightarrow$ DERIVED CORTICAL NEURONS FROM PATIENTS WITH FAD MUTATION. <i>Alzheimer's and Dementia</i> , 2017, 13, P311.	0.8	0
29	P1 $\rightarrow$ 188: MODELLING AMYLOID BETA PROFILES IN IPSC $\rightarrow$ DERIVED CORTICAL NEURONS OF MULTIPLE FAMILIAL ALZHEIMER'S DISEASE GENOTYPES, INCLUDING A CASE STUDY OF SAME DONOR CULTURE MEDIA, CSF AND BRAIN TISSUE. <i>Alzheimer's and Dementia</i> , 2018, 14, P350.	0.8	0
30	Investigating proteostasis in development and disease using IPSC $\rightarrow$ neurons with MAPT mutations linked to FTD. <i>Alzheimer's and Dementia</i> , 2020, 16, e039336.	0.8	0
31	Premature neuronal differentiation in familial Alzheimer $\rightarrow$ s disease human stem cells in vitro and in postmortem brain tissue. <i>Alzheimer's and Dementia</i> , 2020, 16, e039793.	0.8	0
32	iPSC $\rightarrow$ derived engineered cerebral organoids (enCORs) as in vitro models of tauopathy. <i>Alzheimer's and Dementia</i> , 2020, 16, e039816.	0.8	0
33	Haploinsufficiency of progranulin causes impairments in PINK/PARKIN mitophagy. <i>Alzheimer's and Dementia</i> , 2020, 16, e042104.	0.8	0