

# Jens C Schwamborn

## 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.

89  
papers

4,313  
citations

32  
h-index

64  
g-index

93  
ext. papers

5,829  
ext. citations

7.6  
avg, IF

5.38  
L-index

#	Paper	IF	Citations
89	Single-cell sequencing of human midbrain reveals glial activation and a Parkinson-specific neuronal state.. <i>Brain</i> , <b>2021</b> ,	11.2	13
88	The ParkinsonS-disease-associated mutation LRRK2-G2019S alters dopaminergic differentiation dynamics via NR2F1. <i>Cell Reports</i> , <b>2021</b> , 37, 109864	10.6	3
87	ParkinsonS Disease Phenotypes in Patient Neuronal Cultures and Brain Organoids Improved by 2-Hydroxypropyl-β-Cyclodextrin Treatment. <i>Movement Disorders</i> , <b>2021</b> ,	7	7
86	PINK1 deficiency impairs adult neurogenesis of dopaminergic neurons. <i>Scientific Reports</i> , <b>2021</b> , 11, 66174.9	4.9	10
85	A human stem cell-derived test system for agents modifying neuronal N-methyl-D-aspartate-type glutamate receptor Ca-signalling. <i>Archives of Toxicology</i> , <b>2021</b> , 95, 1703-1722	5.8	1
84	A robust protocol for the generation of human midbrain organoids. <i>STAR Protocols</i> , <b>2021</b> , 2, 100524	1.4	4
83	Mitochondrial and Clearance Impairment in p.D620N VPS35 Patient-Derived Neurons. <i>Movement Disorders</i> , <b>2021</b> , 36, 704-715	7	13
82	Epitope imprinting of alpha-synuclein for sensing in ParkinsonS brain organoid culture medium. <i>Biosensors and Bioelectronics</i> , <b>2021</b> , 175, 112852	11.8	9
81	Impaired dopamine D3 and nicotinic acetylcholine receptor membrane localization in iPSCs-derived dopaminergic neurons from two ParkinsonS disease patients carrying the LRRK2 G2019S mutation. <i>Neurobiology of Aging</i> , <b>2021</b> , 99, 65-78	5.6	6
80	Monitoring the neurotransmitter release of human midbrain organoids using a redox cycling microsensor as a novel tool for personalized ParkinsonS disease modelling and drug screening. <i>Analyst, The</i> , <b>2021</b> , 146, 2358-2367	5	7
79	Is serine racemase (SRR) a second hit target for LRRK2-G2019S induced ParkinsonS disease?. <i>Neural Regeneration Research</i> , <b>2021</b> , 16, 498-499	4.5	
78	Guidelines for the use and interpretation of assays for monitoring autophagy (4th edition). <i>Autophagy</i> , <b>2021</b> , 17, 1-382	10.2	440
77	Reproducible generation of human midbrain organoids for in vitro modeling of ParkinsonS disease. <i>Stem Cell Research</i> , <b>2020</b> , 46, 101870	1.6	35
76	Genetic Architecture of ParkinsonS Disease in the Indian Population: Harnessing Genetic Diversity to Address Critical Gaps in ParkinsonS Disease Research. <i>Frontiers in Neurology</i> , <b>2020</b> , 11, 524	4.1	7
75	Machine learning-assisted neurotoxicity prediction in human midbrain organoids. <i>Parkinsonism and Related Disorders</i> , <b>2020</b> , 75, 105-109	3.6	17
74	Midbrain Organoids: A New Tool to Investigate ParkinsonS Disease. <i>Frontiers in Cell and Developmental Biology</i> , <b>2020</b> , 8, 359	5.7	21
73	Impaired mitochondrial-endoplasmic reticulum interaction and mitophagy in Miro1-mutant neurons in ParkinsonS disease. <i>Human Molecular Genetics</i> , <b>2020</b> , 29, 1353-1364	5.6	16

72	Absence of TRIM32 Leads to Reduced GABAergic Interneuron Generation and Autism-like Behaviors in Mice via Suppressing mTOR Signaling. <i>Cerebral Cortex</i> , <b>2020</b> , 30, 3240-3258	5.1	14
71	Reduced astrocytic reactivity in human brains and midbrain organoids with PRKN mutations. <i>Npj Parkinsons Disease</i> , <b>2020</b> , 6, 33	9.7	13
70	Peptide-Imprinted Poly(hydroxymethyl 3,4-ethylenedioxythiophene) Nanotubes for Detection of $\beta$ Synuclein in Human Brain Organoids. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 8027-8036	5.6	8
69	Single-cell transcriptomics reveals multiple neuronal cell types in human midbrain-specific organoids. <i>Cell and Tissue Research</i> , <b>2020</b> , 382, 463-476	4.2	11
68	A patient-based model of RNA mis-splicing uncovers treatment targets in Parkinson's disease. <i>Science Translational Medicine</i> , <b>2020</b> , 12,	17.5	10
67	Non-proteolytic ubiquitination of OTULIN regulates NF- $\kappa$ B signaling pathway. <i>Journal of Molecular Cell Biology</i> , <b>2020</b> , 12, 163-175	6.3	12
66	Impaired serine metabolism complements LRRK2-G2019S pathogenicity in PD patients. <i>Parkinsonism and Related Disorders</i> , <b>2019</b> , 67, 48-55	3.6	8
65	Guidelines for Fluorescent Guided Biallelic HDR Targeting Selection With PiggyBac System Removal for Gene Editing. <i>Frontiers in Genetics</i> , <b>2019</b> , 10, 190	4.5	8
64	Modeling Parkinson's disease in midbrain-like organoids. <i>Npj Parkinsons Disease</i> , <b>2019</b> , 5, 5	9.7	117
63	Neural Stem Cells of Parkinson's Disease Patients Exhibit Aberrant Mitochondrial Morphology and Functionality. <i>Stem Cell Reports</i> , <b>2019</b> , 12, 878-889	8	37
62	A complex of the ubiquitin ligase TRIM32 and the deubiquitinase USP7 balances the level of c-Myc ubiquitination and thereby determines neural stem cell fate specification. <i>Cell Death and Differentiation</i> , <b>2019</b> , 26, 728-740	12.7	36
61	Automated high-throughput high-content autophagy and mitophagy analysis platform. <i>Scientific Reports</i> , <b>2019</b> , 9, 9455	4.9	7
60	Successes and Hurdles in Stem Cells Application and Production for Brain Transplantation. <i>Frontiers in Neuroscience</i> , <b>2019</b> , 13, 1194	5.1	20
59	Quality Control Strategy for CRISPR-Cas9-Based Gene Editing Complicated by a Pseudogene. <i>Frontiers in Genetics</i> , <b>2019</b> , 10, 1297	4.5	2
58	Automated microfluidic cell culture of stem cell derived dopaminergic neurons. <i>Scientific Reports</i> , <b>2019</b> , 9, 1796	4.9	56
57	Synapse alterations precede neuronal damage and storage pathology in a human cerebral organoid model of CLN3-juvenile neuronal ceroid lipofuscinosis. <i>Acta Neuropathologica Communications</i> , <b>2019</b> , 7, 222	7.3	18
56	Nuclear localization and phosphorylation modulate pathological effects of alpha-synuclein. <i>Human Molecular Genetics</i> , <b>2019</b> , 28, 31-50	5.6	69
55	3D Cultures of Parkinson's Disease-Specific Dopaminergic Neurons for High Content Phenotyping and Drug Testing. <i>Advanced Science</i> , <b>2019</b> , 6, 1800927	13.6	56

54	Parkinson's Disease-Associated Mutant LRRK2-Mediated Inhibition of miRNA Activity is Antagonized by TRIM32. <i>Molecular Neurobiology</i> , <b>2018</b> , 55, 3490-3498	6.2	8
53	Millifluidic culture improves human midbrain organoid vitality and differentiation. <i>Lab on A Chip</i> , <b>2018</b> , 18, 3172-3183	7.2	61
52	Expression of the Parkinson's Disease-Associated Gene Alpha-Synuclein is Regulated by the Neuronal Cell Fate Determinant TRIM32. <i>Molecular Neurobiology</i> , <b>2017</b> , 54, 4257-4270	6.2	11
51	Derivation of Human Midbrain-Specific Organoids from Neuroepithelial Stem Cells. <i>Stem Cell Reports</i> , <b>2017</b> , 8, 1144-1154	8	216
50	Nurr1:RXR $\beta$ heterodimer activation as monotherapy for Parkinson's disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 3999-4004	11.5	39
49	FACS-Assisted CRISPR-Cas9 Genome Editing Facilitates Parkinson's Disease Modeling. <i>Stem Cell Reports</i> , <b>2017</b> , 9, 1423-1431	8	49
48	CRISPR/Cas9 and piggyBac-mediated footprint-free LRRK2-G2019S knock-in reveals neuronal complexity phenotypes and $\beta$ -Synuclein modulation in dopaminergic neurons. <i>Stem Cell Research</i> , <b>2017</b> , 24, 44-50	1.6	42
47	Environmental enrichment and physical exercise revert behavioral and electrophysiological impairments caused by reduced adult neurogenesis. <i>Hippocampus</i> , <b>2017</b> , 27, 36-51	3.5	28
46	Tripartite containing motif 32 modulates proliferation of human neural precursor cells in HIV-1 neurodegeneration. <i>Cell Death and Differentiation</i> , <b>2016</b> , 23, 776-86	12.7	23
45	Prox1 Is Required for Oligodendrocyte Cell Identity in Adult Neural Stem Cells of the Subventricular Zone. <i>Stem Cells</i> , <b>2016</b> , 34, 2115-29	5.8	21
44	A Generalized Gene-Regulatory Network Model of Stem Cell Differentiation for Predicting Lineage Specifiers. <i>Stem Cell Reports</i> , <b>2016</b> , 7, 307-315	8	31
43	Utilization of stem cells to model Parkinson's disease [current state and future challenges]. <i>Future Neurology</i> , <b>2016</b> , 11, 171-186	1.5	6
42	6-hydroxydopamine-induced Parkinson's disease-like degeneration generates acute microgliosis and astrogliosis in the nigrostriatal system but no bioluminescence imaging-detectable alteration in adult neurogenesis. <i>European Journal of Neuroscience</i> , <b>2016</b> , 43, 1352-65	3.5	23
41	The RNA helicase DDX6 regulates cell-fate specification in neural stem cells via miRNAs. <i>Nucleic Acids Research</i> , <b>2015</b> , 43, 2638-54	20.1	39
40	Differentiation of neuroepithelial stem cells into functional dopaminergic neurons in 3D microfluidic cell culture. <i>Lab on A Chip</i> , <b>2015</b> , 15, 2419-28	7.2	105
39	Neural stem cells in Parkinson's disease: a role for neurogenesis defects in onset and progression. <i>Cellular and Molecular Life Sciences</i> , <b>2015</b> , 72, 773-97	10.3	67
38	Rapid and robust generation of long-term self-renewing human neural stem cells with the ability to generate mature astroglia. <i>Scientific Reports</i> , <b>2015</b> , 5, 16321	4.9	32
37	TRIM32 modulates pluripotency entry and exit by directly regulating Oct4 stability. <i>Scientific Reports</i> , <b>2015</b> , 5, 13456	4.9	13

36	The neural stem cell fate determinant TRIM32 regulates complex behavioral traits. <i>Frontiers in Cellular Neuroscience</i> , <b>2015</b> , 9, 75	6.1	13
35	TRIM32 Senses and Restricts Influenza A Virus by Ubiquitination of PB1 Polymerase. <i>PLoS Pathogens</i> , <b>2015</b> , 11, e1004960	7.6	88
34	Induced neural stem cells achieve long-term survival and functional integration in the adult mouse brain. <i>Stem Cell Reports</i> , <b>2014</b> , 3, 423-31	8	47
33	The Notch co-repressor protein NKAP is highly expressed in adult mouse subventricular zone neural progenitor cells. <i>Neuroscience</i> , <b>2014</b> , 266, 138-49	3.9	8
32	Gene regulatory network analysis reveals differences in site-specific cell fate determination in mammalian brain. <i>Frontiers in Cellular Neuroscience</i> , <b>2014</b> , 8, 437	6.1	14
31	Origin-dependent neural cell identities in differentiated human iPSCs in vitro and after transplantation into the mouse brain. <i>Cell Reports</i> , <b>2014</b> , 8, 1697-1703	10.6	34
30	The parkinsonS disease-associated LRRK2 mutation R1441G inhibits neuronal differentiation of neural stem cells. <i>Stem Cells and Development</i> , <b>2013</b> , 22, 2487-96	4.4	29
29	A systemic transcriptome analysis reveals the regulation of neural stem cell maintenance by an E2F1-miRNA feedback loop. <i>Nucleic Acids Research</i> , <b>2013</b> , 41, 3699-712	20.1	22
28	The majority of newly generated cells in the adult mouse substantia nigra express low levels of Doublecortin, but their proliferation is unaffected by 6-OHDA-induced nigral lesion or Minocycline-mediated inhibition of neuroinflammation. <i>European Journal of Neuroscience</i> , <b>2013</b> , 38, 2684-92	3.5	20
27	Regulatory feedback loop between TP73 and TRIM32. <i>Cell Death and Disease</i> , <b>2013</b> , 4, e704	9.8	26
26	TRIM32-dependent transcription in adult neural progenitor cells regulates neuronal differentiation. <i>Cell Death and Disease</i> , <b>2013</b> , 4, e976	9.8	30
25	Derivation and expansion using only small molecules of human neural progenitors for neurodegenerative disease modeling. <i>PLoS ONE</i> , <b>2013</b> , 8, e59252	3.7	233
24	Discovery of inhibitors of microglial neurotoxicity acting through multiple mechanisms using a stem-cell-based phenotypic assay. <i>Cell Stem Cell</i> , <b>2012</b> , 11, 620-32	18	63
23	Abundant occurrence of basal radial glia in the subventricular zone of embryonic neocortex of a lissencephalic primate, the common marmoset <i>Callithrix jacchus</i> . <i>Cerebral Cortex</i> , <b>2012</b> , 22, 469-81	5.1	154
22	Direct reprogramming of fibroblasts into neural stem cells by defined factors. <i>Cell Stem Cell</i> , <b>2012</b> , 10, 465-72	18	441
21	MiRNAs and neural stem cells: a team to treat ParkinsonS disease?. <i>RNA Biology</i> , <b>2012</b> , 9, 720-30	4.8	11
20	Induced pluripotent stem cells generated from adult bone marrow-derived cells of the nonhuman primate ( <i>Callithrix jacchus</i> ) using a novel quad-cistronic and excisable lentiviral vector. <i>Cellular Reprogramming</i> , <b>2012</b> , 14, 485-96	2.1	31
19	Anti-inflammatory treatment induced regenerative oligodendrogenesis in parkinsonian mice. <i>Stem Cell Research and Therapy</i> , <b>2012</b> , 3, 33	8.3	16

18	TRIM32 regulates skeletal muscle stem cell differentiation and is necessary for normal adult muscle regeneration. <i>PLoS ONE</i> , <b>2012</b> , 7, e30445	3.7	54
17	Regrowing the adult brain: NF- $\kappa$ B controls functional circuit formation and tissue homeostasis in the dentate gyrus. <i>PLoS ONE</i> , <b>2012</b> , 7, e30838	3.7	51
16	JAM-C is an apical surface marker for neural stem cells. <i>Stem Cells and Development</i> , <b>2012</b> , 21, 757-66	4.4	14
15	The E3-ubiquitin ligase TRIM2 regulates neuronal polarization. <i>Journal of Neurochemistry</i> , <b>2011</b> , 117, 29-37	6	32
14	Cellular organization of adult neurogenesis in the Common Marmoset. <i>Aging Cell</i> , <b>2011</b> , 10, 28-38	9.9	25
13	Neural stem cells maintain their stemness through protein kinase C $\beta$ -mediated inhibition of TRIM32. <i>Stem Cells</i> , <b>2011</b> , 29, 1437-47	5.8	36
12	Brain tumor stem cells. <i>Biological Chemistry</i> , <b>2010</b> , 391, 607-17	4.5	6
11	JAM-A is a novel surface marker for NG2-Glia in the adult mouse brain. <i>BMC Neuroscience</i> , <b>2010</b> , 11, 27	3.2	7
10	The stimulation of dendrite growth by Sema3A requires integrin engagement and focal adhesion kinase. <i>Journal of Cell Science</i> , <b>2009</b> , 122, 2034-42	5.3	44
9	The TRIM-NHL protein TRIM32 activates microRNAs and prevents self-renewal in mouse neural progenitors. <i>Cell</i> , <b>2009</b> , 136, 913-25	56.2	337
8	LIS1 and spindle orientation in neuroepithelial cells. <i>Cell Stem Cell</i> , <b>2008</b> , 2, 193-4	18	5
7	Elongation of axons during regeneration involves retinal crystallin beta b2 (crybb2). <i>Molecular and Cellular Proteomics</i> , <b>2007</b> , 6, 895-907	7.6	75
6	GTPases and the control of neuronal polarity. <i>Methods in Enzymology</i> , <b>2006</b> , 406, 715-27	1.7	19
5	Semaphorin 3A stimulates neurite extension and regulates gene expression in PC12 cells. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 30923-6	5.4	28
4	The sequential activity of the GTPases Rap1B and Cdc42 determines neuronal polarity. <i>Nature Neuroscience</i> , <b>2004</b> , 7, 923-9	25.5	322
3	Microarray analysis of tumor necrosis factor alpha induced gene expression in U373 human glioblastoma cells. <i>BMC Genomics</i> , <b>2003</b> , 4, 46	4.5	45
2	Single-cell transcriptomics reveals multiple neuronal cell types in human midbrain-specific organoids		3
1	PARK7/DJ-1 promotes pyruvate dehydrogenase activity and maintains Treg homeostasis during ageing. <i>Nature Metabolism</i> ,	14.6	2

