

# Silvia Bolognin

## List of Publications by Citations

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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.

61  
papers

1,862  
citations

20  
h-index

42  
g-index

69  
ext. papers

2,290  
ext. citations

6.1  
avg, IF

4.56  
L-index

#	Paper	IF	Citations
61	Alzheimer's disease, metal ions and metal homeostatic therapy. <i>Trends in Pharmacological Sciences</i> , <b>2009</b> , 30, 346-55	13.2	250
60	Derivation of Human Midbrain-Specific Organoids from Neuroepithelial Stem Cells. <i>Stem Cell Reports</i> , <b>2017</b> , 8, 1144-1154	8	216
59	Modeling Parkinson's disease in midbrain-like organoids. <i>Npj Parkinsons Disease</i> , <b>2019</b> , 5, 5	9.7	117
58	Aluminum, copper, iron and zinc differentially alter amyloid-A $\beta$ (1-42) aggregation and toxicity. <i>International Journal of Biochemistry and Cell Biology</i> , <b>2011</b> , 43, 877-85	5.6	115
57	Metal ion physiopathology in neurodegenerative disorders. <i>NeuroMolecular Medicine</i> , <b>2009</b> , 11, 223-38	4.6	115
56	Role of metal ions in the abeta oligomerization in Alzheimer's disease and in other neurological disorders. <i>Current Alzheimer Research</i> , <b>2008</b> , 5, 500-7	3	89
55	Potential pathogenic role of beta-amyloid(1-42)-aluminum complex in Alzheimer's disease. <i>International Journal of Biochemistry and Cell Biology</i> , <b>2008</b> , 40, 731-46	5.6	73
54	Chelation therapy for neurodegenerative diseases. <i>Medicinal Research Reviews</i> , <b>2009</b> , 29, 547-70	14.4	69
53	An experimental rat model of sporadic Alzheimer's disease and rescue of cognitive impairment with a neurotrophic peptide. <i>Acta Neuropathologica</i> , <b>2012</b> , 123, 133-51	14.3	64
52	Millifluidic culture improves human midbrain organoid vitality and differentiation. <i>Lab on A Chip</i> , <b>2018</b> , 18, 3172-3183	7.2	61
51	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
50	Accumulation of copper and other metal ions, and metallothionein I/II expression in the bovine brain as a function of aging. <i>Journal of Chemical Neuroanatomy</i> , <b>2008</b> , 36, 1-5	3.2	51
49	Rescue of cognitive-aging by administration of a neurogenic and/or neurotrophic compound. <i>Neurobiology of Aging</i> , <b>2014</b> , 35, 2134-46	5.6	38
48	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
47	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
46	Rac1 activation links tau hyperphosphorylation and A $\beta$ metabolism in Alzheimer's disease. <i>Acta Neuropathologica Communications</i> , <b>2018</b> , 6, 61	7.3	27
45	Rescue of synaptic failure and alleviation of learning and memory impairments in a trisomic mouse model of down syndrome. <i>Journal of Neuropathology and Experimental Neurology</i> , <b>2011</b> , 70, 1070-9	3.1	26

44	The potential role of rho GTPases in Alzheimer's disease pathogenesis. <i>Molecular Neurobiology</i> , <b>2014</b> , 50, 406-22	6.2	22
43	Detection of CFTR protein in human leukocytes by flow cytometry. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , <b>2014</b> , 85, 611-20	4.6	21
42	Rac1 selective activation improves retina ganglion cell survival and regeneration. <i>PLoS ONE</i> , <b>2013</b> , 8, e64350	3.7	21
41	Human cells and cell membrane molecular models are affected in vitro by chlorpromazine. <i>Biophysical Chemistry</i> , <b>2008</b> , 135, 7-13	3.5	20
40	βAmyloid-aluminum complex alters cytoskeletal stability and increases ROS production in cortical neurons. <i>Neurochemistry International</i> , <b>2013</b> , 62, 566-74	4.4	18
39	Destabilization of non-pathological variants of ataxin-3 by metal ions results in aggregation/fibrillogenesis. <i>International Journal of Biochemistry and Cell Biology</i> , <b>2007</b> , 39, 966-77	5.6	18
38	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
37	Machine learning-assisted neurotoxicity prediction in human midbrain organoids. <i>Parkinsonism and Related Disorders</i> , <b>2020</b> , 75, 105-109	3.6	17
36	Metallothioneins and the central nervous system: from a deregulation in neurodegenerative diseases to the development of new therapeutic approaches. <i>Journal of Alzheimer's Disease</i> , <b>2014</b> , 41, 29-42	4.3	17
35	Animal models of the sporadic form of Alzheimer's disease: focus on the disease and not just the lesions. <i>Journal of Alzheimer's Disease</i> , <b>2013</b> , 37, 469-74	4.3	16
34	Increased glutaminyl cyclase expression in peripheral blood of Alzheimer's disease patients. <i>Journal of Alzheimer's Disease</i> , <b>2013</b> , 34, 263-71	4.3	16
33	Interaction between Alzheimer's amyloid-beta and amyloid-beta-metal complexes with cell membranes. <i>Journal of Alzheimer's Disease</i> , <b>2009</b> , 17, 81-90	4.3	16
32	Mutual stimulation of beta-amyloid fibrillogenesis by clioquinol and divalent metals. <i>NeuroMolecular Medicine</i> , <b>2008</b> , 10, 322-32	4.6	14
31	Shifting balance from neurodegeneration to regeneration of the brain: a novel therapeutic approach to Alzheimer's disease and related neurodegenerative conditions. <i>Neural Regeneration Research</i> , <b>2014</b> , 9, 1518-9	4.5	14
30	Reduced astrocytic reactivity in human brains and midbrain organoids with PRKN mutations. <i>Npj Parkinson's Disease</i> , <b>2020</b> , 6, 33	9.7	13
29	Elevated Tau Level in Aged Rat Cerebrospinal Fluid Reduced by Treatment with a Neurotrophic Compound. <i>Journal of Alzheimer's Disease</i> , <b>2015</b> , 47, 557-64	4.3	11
28	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
27	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

26	Effects of a copper-deficient diet on the biochemistry, neural morphology and behavior of aged mice. <i>PLoS ONE</i> , <b>2012</b> , 7, e47063	3.7	9
25	Epitope imprinting of alpha-synuclein for sensing in Parkinson's brain organoid culture medium. <i>Biosensors and Bioelectronics</i> , <b>2021</b> , 175, 112852	11.8	9
24	Integrated, automated maintenance, expansion and differentiation of 2D and 3D patient-derived cellular models for high throughput drug screening. <i>Scientific Reports</i> , <b>2021</b> , 11, 1439	4.9	9
23	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
22	Beta-amyloid toxicity increases with hydrophobicity in the presence of metal ions. <i>Monatshefte Für Chemie</i> , <b>2011</b> , 142, 421-430	1.4	8
21	Human erythrocytes and neuroblastoma cells are affected in vitro by Au(III) ions. <i>Biochemical and Biophysical Research Communications</i> , <b>2010</b> , 397, 226-31	3.4	8
20	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
19	Effects of phenylpropanolamine (PPA) on in vitro human erythrocyte membranes and molecular models. <i>Biochemical and Biophysical Research Communications</i> , <b>2011</b> , 406, 320-5	3.4	7
18	Parkinson's Disease Phenotypes in Patient Neuronal Cultures and Brain Organoids Improved by 2-Hydroxypropyl- $\beta$ -Cyclodextrin Treatment. <i>Movement Disorders</i> , <b>2021</b> ,	7	7
17	Monitoring the neurotransmitter release of human midbrain organoids using a redox cycling microsensor as a novel tool for personalized Parkinson's disease modelling and drug screening. <i>Analyst, The</i> , <b>2021</b> , 146, 2358-2367	5	7
16	Altered Expression of Circulating Cdc42 in Frontotemporal Lobar Degeneration. <i>Journal of Alzheimers Disease</i> , <b>2018</b> , 61, 1477-1483	4.3	6
15	Structural effects of tetrachloroauric acid on cell membranes and molecular models. <i>Coordination Chemistry Reviews</i> , <b>2009</b> , 253, 1599-1606	23.2	6
14	Impaired dopamine D3 and nicotinic acetylcholine receptor membrane localization in iPSCs-derived dopaminergic neurons from two Parkinson's disease patients carrying the LRRK2 G2019S mutation. <i>Neurobiology of Aging</i> , <b>2021</b> , 99, 65-78	5.6	6
13	STRUCTURAL EFFECTS OF VERAPAMIL ON CELL MEMBRANES AND MOLECULAR MODELS. <i>Journal of the Chilean Chemical Society</i> , <b>2010</b> , 55,	2.5	5
12	Parkinson's disease phenotypes in patient specific brain organoids are improved by HP- $\beta$ CD treatment		5
11	Ontogenesis and migration of metallothionein I/II-containing glial cells in the human telencephalon during the second trimester. <i>Brain Research</i> , <b>2010</b> , 1327, 16-23	3.7	4
10	The Parkinson's-disease-associated mutation LRRK2-G2019S alters dopaminergic differentiation dynamics via NR2F1. <i>Cell Reports</i> , <b>2021</b> , 37, 109864	10.6	3
9	Single-cell transcriptomics reveals multiple neuronal cell types in human midbrain-specific organoids		3

8	Machine learning-assisted neurotoxicity prediction in human midbrain organoids		3
7	Structural Plasticity of Dopaminergic Neurons Requires the Activation of the D3R-nAChR Heteromer and the PI3K-ERK1/2/Akt-Induced Expression of c-Fos and p70S6K Signaling Pathway.. <i>Molecular Neurobiology</i> , <b>2022</b> , 1	6.2	2
6	A novel approach to derive human midbrain-specific organoids from neuroepithelial stem cells		2
5	Transition metal dichalcogenides to optimize the performance of peptide-imprinted conductive polymers as electrochemical sensors. <i>Mikrochimica Acta</i> , <b>2021</b> , 188, 203	5.8	2
4	O2-06-04: A NOVEL PHARMACOLOGIC THERAPEUTIC APPROACH TO ALZHEIMER DISEASE AND COGNITIVE AGING <b>2014</b> , 10, P175-P175		1
3	In vivo phenotyping of Parkinson-specific stem cells reveals increased a-Synuclein levels but no spreading		1
2	Beta-amyloid toxicity increases with hydrophobicity in the presence of metal ions <b>2012</b> , 85-94		0
1	Microarray analysis of gene expression profiles in human neuroblastoma cells exposed to A $\beta$ n and A $\beta$ u complexes. <i>Future Neurology</i> , <b>2012</b> , 7, 483-497	1.5	