Silvia Bolognin

List of Publications by Year
in descending order

57 papers	2,700 citations	257450 24 h-index	189892 50 g-index
69 all docs	69 docs citations	69 times ranked	3723 citing authors

#	Article	IF	Citations
1	Derivation of Human Midbrain-Specific Organoids from Neuroepithelial StemÂCells. Stem Cell Reports, 2017, 8, 1144-1154.	4.8	321
2	Alzheimer's disease, metal ions and metal homeostatic therapy. Trends in Pharmacological Sciences, 2009, 30, 346-355.	8.7	304
3	Modeling Parkinsonâ€™s disease in midbrain-like organoids. Npj Parkinson's Disease, 2019, 5, 5.	5.3	204
4	Aluminum, copper, iron and zinc differentially alter amyloid-Aî²1â€“42 aggregation and toxicity. International Journal of Biochemistry and Cell Biology, 2011, 43, 877-885.	2.8	147
5	Metal Ion Physiopathology in Neurodegenerative Disorders. NeuroMolecular Medicine, 2009, 11, 223-238.	3.4	131
6	Millifluidic culture improves human midbrain organoid vitality and differentiation. Lab on A Chip, 2018, 18, 3172-3183.	6.0	108
7	Role of Metal Ions in the Aβ Oligomerization in Alzheimers Disease and in Other Neurological Disorders. Current Alzheimer Research, 2008, 5, 500-507.	1.4	106
8	3D Cultures of Parkinson's Diseaseâ€Specific Dopaminergic Neurons for High Content Phenotyping and Drug Testing. Advanced Science, 2019, 6, 1800927.	11.2	92
9	Chelation therapy for neurodegenerative diseases. Medicinal Research Reviews, 2009, 29, 547-570.	10.5	82
10	Potential pathogenic role of Î²-amyloid1â€“42â€“aluminum complex in Alzheimer's disease. International Journal of Biochemistry and Cell Biology, 2008, 40, 731-746.	2.8	79
11	An experimental rat model of sporadic Alzheimerâ€™s disease and rescue of cognitive impairment with a neurotrophic peptide. Acta Neuropathologica, 2012, 123, 133-151.	7.7	72
12	Neural Stem Cells of Parkinson's Disease Patients Exhibit Aberrant Mitochondrial Morphology and Functionality. Stem Cell Reports, 2019, 12, 878-889.	4.8	68
13	Accumulation of copper and other metal ions, and metallothionein I/II expression in the bovine brain as a function of aging. Journal of Chemical Neuroanatomy, 2008, 36, 1-5.	2.1	59
14	Rac1 activation links tau hyperphosphorylation and Aî² dysmetabolism in Alzheimerâ€™s disease. Acta Neuropathologica Communications, 2018, 6, 61.	5.2	49
15	Synapse alterations precede neuronal damage and storage pathology in a human cerebral organoid model of CLN3-juvenile neuronal ceroid lipofuscinosis. Acta Neuropathologica Communications, 2019, 7, 222.	5.2	49
16	Rescue of cognitive-aging by administration of a neurogenic and/or neurotrophic compound. Neurobiology of Aging, 2014, 35, 2134-2146.	3.1	45
17	Rapid and robust generation of long-term self-renewing human neural stem cells with the ability to generate mature astroglia. Scientific Reports, 2015, 5, 16321.	3.3	44
18	Machine learning-assisted neurotoxicity prediction in human midbrain organoids. Parkinsonism and Related Disorders, 2020, 75, 105-109.	2.2	41

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19	Parkinson's Disease Phenotypes in Patient Neuronal Cultures and Brain Organoids Improved by <scp>2â€Hydroxypropylâ€Î²â€Cyclodextrin</scp> Treatment. Movement Disorders, 2022, 37, 80-94.	3.9	37
20	The Potential Role of Rho GTPases in Alzheimer's Disease Pathogenesis. Molecular Neurobiology, 2014, 50, 406-422.	4.0	36
21	Reduced astrocytic reactivity in human brains and midbrain organoids with PRKN mutations. Npj Parkinson's Disease, 2020, 6, 33.	5.3	30
22	Single-cell transcriptomics reveals multiple neuronal cell types in human midbrain-specific organoids. Cell and Tissue Research, 2020, 382, 463-476.	2.9	30
23	Rescue of Synaptic Failure and Alleviation of Learning and Memory Impairments in a Trisomic Mouse Model of Down Syndrome. Journal of Neuropathology and Experimental Neurology, 2011, 70, 1070-1079.	1.7	28
24	Detection of CFTR protein in human leukocytes by flow cytometry. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2014, 85, 611-620.	1.5	28
25	Animal Models of the Sporadic Form of Alzheimer's Disease: Focus on the Disease and Not Just the Lesions1. Journal of Alzheimer's Disease, 2013, 37, 469-474.	2.6	27
26	Rac1 Selective Activation Improves Retina Ganglion Cell Survival and Regeneration. PLoS ONE, 2013, 8, e64350.	2.5	26
27	Peptide-Imprinted Poly(hydroxymethyl 3,4-ethylenedioxythiophene) Nanotubes for Detection of Î± Synuclein in Human Brain Organoids. ACS Applied Nano Materials, 2020, 3, 8027-8036.	5.0	26
28	Epitope imprinting of alpha-synuclein for sensing in Parkinson's brain organoid culture medium. Biosensors and Bioelectronics, 2021, 175, 112852.	10.1	26
29	A patient-based model of RNA mis-splicing uncovers treatment targets in Parkinsonâ€™s disease. Science Translational Medicine, 2020, 12, .	12.4	24
30	Increased Glutaminyl Cyclase Expression in Peripheral Blood of Alzheimer's Disease Patients. Journal of Alzheimer's Disease, 2013, 34, 263-271.	2.6	23
31	Human cells and cell membrane molecular models are affected in vitro by chlorpromazine. Biophysical Chemistry, 2008, 135, 7-13.	2.8	22
32	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. Analyst, The, 2021, 146, 2358-2367.	3.5	22
33	Destabilization of non-pathological variants of ataxin-3 by metal ions results in aggregation/fibrillogenesis. International Journal of Biochemistry and Cell Biology, 2007, 39, 966-977.	2.8	20
34	Î²-Amyloid-aluminum complex alters cytoskeletal stability and increases ROS production in cortical neurons. Neurochemistry International, 2013, 62, 566-574.	3.8	20
35	Metallothioneins and the Central Nervous System: From a Deregulation in Neurodegenerative Diseases to the Development of New Therapeutic Approaches. Journal of Alzheimer's Disease, 2014, 41, 29-42.	2.6	20
36	Integrated, automated maintenance, expansion and differentiation of 2D and 3D patient-derived cellular models for high throughput drug screening. Scientific Reports, 2021, 11, 1439.	3.3	20

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37	The Parkinsonâ€™s-disease-associated mutation LRRK2-G2019S alters dopaminergic differentiation dynamics via NR2F1. Cell Reports, 2021, 37, 109864.	6.4	20
38	Interaction between Alzheimer's Amyloid-Î² and Amyloid-Î²-Metal Complexes with Cell Membranes. Journal of Alzheimer's Disease, 2009, 17, 81-90.	2.6	18
39	Shifting balance from neurodegeneration to regeneration of the brain: a novel therapeutic approach to Alzheimerâ€²s disease and related neurodegenerative conditions. Neural Regeneration Research, 2014, 9, 1518.	3.0	17
40	Elevated Tau Level in Aged Rat Cerebrospinal Fluid Reduced by Treatment with a Neurotrophic Compound. Journal of Alzheimer's Disease, 2015, 47, 557-564.	2.6	15
41	Altered Expression of Circulating Cdc42 in Frontotemporal Lobar Degeneration. Journal of Alzheimer's Disease, 2018, 61, 1477-1483.	2.6	15
42	Mutual Stimulation of Beta-Amyloid Fibrillogenesis by Clioquinol and Divalent Metals. NeuroMolecular Medicine, 2008, 10, 322-332.	3.4	14
43	Impaired dopamine D3 and nicotinic acetylcholine receptor membrane localization in iPSCs-derived dopaminergic neurons from two Parkinsonâ€™s disease patients carrying the LRRK2 G2019S mutation. Neurobiology of Aging, 2021, 99, 65-78.	3.1	14
44	Impaired serine metabolism complements LRRK2-G2019S pathogenicity in PD patients. Parkinsonism and Related Disorders, 2019, 67, 48-55.	2.2	13
45	Transition metal dichalcogenides to optimize the performance of peptide-imprinted conductive polymers as electrochemical sensors. Mikrochimica Acta, 2021, 188, 203.	5.0	11
46	Beta-amyloid toxicity increases with hydrophobicity in the presence of metal ions. Monatshefte FÃ¼r Chemie, 2011, 142, 421-430.	1.8	10
47	Human erythrocytes and neuroblastoma cells are affected in vitro by Au(III) ions. Biochemical and Biophysical Research Communications, 2010, 397, 226-231.	2.1	9
48	Effects of a Copper-Deficient Diet on the Biochemistry, Neural Morphology and Behavior of Aged Mice. PLoS ONE, 2012, 7, e47063.	2.5	9
49	Effects of phenylpropanolamine (PPA) on in vitro human erythrocyte membranes and molecular models. Biochemical and Biophysical Research Communications, 2011, 406, 320-325.	2.1	8
50	A Triple Combination of Targeting Ligands Increases the Penetration of Nanoparticles across a Blood-Brain Barrier Culture Model. Pharmaceutics, 2022, 14, 86.	4.5	8
51	Structural effects of tetrachloroauric acid on cell membranes and molecular models. Coordination Chemistry Reviews, 2009, 253, 1599-1606.	18.8	7
52	Ontogenesis and migration of metallothionein I/II-containing glial cells in the human telencephalon during the second trimester. Brain Research, 2010, 1327, 16-23.	2.2	7
53	STRUCTURAL EFFECTS OF VERAPAMIL ON CELL MEMBRANES AND MOLECULAR MODELS. Journal of the Chilean Chemical Society, 2010, 55, .	1.2	7
54	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. Molecular Neurobiology, 2022, 59, 2129-2149.	4.0	5

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55	STRUCTURAL EFFECTS OF THE AU(I) DRUG AURANOFIN ON CELL MEMBRANES AND MOLECULAR MODELS. Journal of the Chilean Chemical Society, 2013, 58, 2001-2004.	1.2	1
56	O2-06-04: A NOVEL PHARMACOLOGIC THERAPEUTIC APPROACH TO ALZHEIMER DISEASE AND COGNITIVE AGING. , 2014, 10, P175-P175.		1
57	Microarray analysis of gene expression profiles in human neuroblastoma cells exposed to AÎ²â€“Zn and AÎ²â€“Cu complexes. Future Neurology, 2012, 7, 483-497.	0.5	0