# 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 | 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 |
| 2 | 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 |
| 3 | 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 |
| 4 | Epitope imprinting of alpha-synuclein for sensing in Parkinson's brain organoid culture medium. Biosensors and Bioelectronics, 2021, 175, 112852. | 10.1 | 26 |
| 5 | 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 |
| 6 | 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 |
| 7 | 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 |
| 8 | Transition metal dichalcogenides to optimize the performance of peptide-imprinted conductive polymers as electrochemical sensors. Mikrochimica Acta, 2021, 188, 203. | 5.0 | 11 |
| 9 | The Parkinsonâ€™s-disease-associated mutation LRRK2-G2019S alters dopaminergic differentiation dynamics via NR2F1. Cell Reports, 2021, 37, 109864. | 6.4 | 20 |
| 10 | Reduced astrocytic reactivity in human brains and midbrain organoids with PRKN mutations. Npj Parkinson's Disease, 2020, 6, 33. | 5.3 | 30 |
| 11 | 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 |
| 12 | Single-cell transcriptomics reveals multiple neuronal cell types in human midbrain-specific organoids. Cell and Tissue Research, 2020, 382, 463-476. | 2.9 | 30 |
| 13 | A patient-based model of RNA mis-splicing uncovers treatment targets in Parkinsonâ€™s disease. Science Translational Medicine, 2020, 12, . | 12.4 | 24 |
| 14 | Machine learning-assisted neurotoxicity prediction in human midbrain organoids. Parkinsonism and Related Disorders, 2020, 75, 105-109. | 2.2 | 41 |
| 15 | Impaired serine metabolism complements LRRK2-G2019S pathogenicity in PD patients. Parkinsonism and Related Disorders, 2019, 67, 48-55. | 2.2 | 13 |
| 16 | Modeling Parkinsonâ€™s disease in midbrain-like organoids. Npj Parkinson's Disease, 2019, 5, 5. | 5.3 | 204 |
| 17 | Neural Stem Cells of Parkinson's Disease Patients Exhibit Aberrant Mitochondrial Morphology and Functionality. Stem Cell Reports, 2019, 12, 878-889. | 4.8 | 68 |
| 18 | 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 |

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|---|---|---|---|
| 19 | 3D Cultures of Parkinson's Diseaseâ€Specific Dopaminergic Neurons for High Content Phenotyping and Drug Testing. Advanced Science, 2019, 6, 1800927. | 11.2 | 92 |
| 20 | Altered Expression of Circulating Cdc42 in Frontotemporal Lobar Degeneration. Journal of Alzheimer's Disease, 2018, 61, 1477-1483. | 2.6 | 15 |
| 21 | Millifluidic culture improves human midbrain organoid vitality and differentiation. Lab on A Chip, 2018, 18, 3172-3183. | 6.0 | 108 |
| 22 | Rac1 activation links tau hyperphosphorylation and AÎ² dysmetabolism in Alzheimerâ€™s disease. Acta Neuropathologica Communications, 2018, 6, 61. | 5.2 | 49 |
| 23 | Derivation of Human Midbrain-Specific Organoids from Neuroepithelial StemÂCells. Stem Cell Reports, 2017, 8, 1144-1154. | 4.8 | 321 |
| 24 | 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 |
| 25 | 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 |
| 26 | 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 |
| 27 | The Potential Role of Rho GTPases in Alzheimer's Disease Pathogenesis. Molecular Neurobiology, 2014, 50, 406-422. | 4.0 | 36 |
| 28 | Rescue of cognitive-aging by administration of a neurogenic and/or neurotrophic compound. Neurobiology of Aging, 2014, 35, 2134-2146. | 3.1 | 45 |
| 29 | 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 |
| 30 | O2-06-04: A NOVEL PHARMACOLOGIC THERAPEUTIC APPROACH TO ALZHEIMER DISEASE AND COGNITIVE AGING. , 2014, 10, P175-P175. | | 1 |
| 31 | 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 |
| 32 | Î²-Amyloid-aluminum complex alters cytoskeletal stability and increases ROS production in cortical neurons. Neurochemistry International, 2013, 62, 566-574. | 3.8 | 20 |
| 33 | 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 |
| 34 | Increased Glutaminyl Cyclase Expression in Peripheral Blood of Alzheimer's Disease Patients. Journal of Alzheimer's Disease, 2013, 34, 263-271. | 2.6 | 23 |
| 35 | 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 |
| 36 | Rac1 Selective Activation Improves Retina Ganglion Cell Survival and Regeneration. PLoS ONE, 2013, 8, e64350. | 2.5 | 26 |

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|---|---|---|---|
| 37 | 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 |
| 38 | Effects of a Copper-Deficient Diet on the Biochemistry, Neural Morphology and Behavior of Aged Mice. PLoS ONE, 2012, 7, e47063. | 2.5 | 9 |
| 39 | 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 |
| 40 | 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 |
| 41 | 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 |
| 42 | 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 |
| 43 | Beta-amyloid toxicity increases with hydrophobicity in the presence of metal ions. Monatshefte FÃ¼r Chemie, 2011, 142, 421-430. | 1.8 | 10 |
| 44 | 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 |
| 45 | STRUCTURAL EFFECTS OF VERAPAMIL ON CELL MEMBRANES AND MOLECULAR MODELS. Journal of the Chilean Chemical Society, 2010, 55, . | 1.2 | 7 |
| 46 | 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 |
| 47 | 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 |
| 48 | Chelation therapy for neurodegenerative diseases. Medicinal Research Reviews, 2009, 29, 547-570. | 10.5 | 82 |
| 49 | Metal Ion Physiopathology in Neurodegenerative Disorders. NeuroMolecular Medicine, 2009, 11, 223-238. | 3.4 | 131 |
| 50 | Structural effects of tetrachloroauric acid on cell membranes and molecular models. Coordination Chemistry Reviews, 2009, 253, 1599-1606. | 18.8 | 7 |
| 51 | Alzheimer's disease, metal ions and metal homeostatic therapy. Trends in Pharmacological Sciences, 2009, 30, 346-355. | 8.7 | 304 |
| 52 | Human cells and cell membrane molecular models are affected in vitro by chlorpromazine. Biophysical Chemistry, 2008, 135, 7-13. | 2.8 | 22 |
| 53 | Mutual Stimulation of Beta-Amyloid Fibrillogenesis by Clioquinol and Divalent Metals. NeuroMolecular Medicine, 2008, 10, 322-332. | 3.4 | 14 |
| 54 | 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 |

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|---|---|---|---|
| 55 | 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 |
| 56 | 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 |
| 57 | 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 |