

# Paolo Bigini

## List of Publications by Year in descending order

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79  
papers

3,511  
citations

136940

32  
h-index

144002

57  
g-index

80  
all docs

80  
docs citations

80  
times ranked

5697  
citing authors

#	ARTICLE	IF	CITATIONS
1	Erythropoietin Selectively Attenuates Cytokine Production and Inflammation in Cerebral Ischemia by Targeting Neuronal Apoptosis. <i>Journal of Experimental Medicine</i> , 2003, 198, 971-975.	8.5	481
2	Erythropoietin exerts an anti-inflammatory effect on the CNS in a model of experimental autoimmune encephalomyelitis. <i>Brain Research</i> , 2002, 952, 128-134.	2.2	326
3	Influence of Size and Shape on the Anatomical Distribution of Endotoxin-Free Gold Nanoparticles. <i>ACS Nano</i> , 2017, 11, 5519-5529.	14.6	131
4	Blood protein coating of gold nanoparticles as potential tool for organ targeting. <i>Biomaterials</i> , 2014, 35, 3455-3466.	11.4	111
5	Neuroprotective effects of the Sigma-1 receptor (S1R) agonist PRE-084, in a mouse model of motor neuron disease not linked to SOD1 mutation. <i>Neurobiology of Disease</i> , 2014, 62, 218-232.	4.4	110
6	Delayed administration of erythropoietin and its non-erythropoietic derivatives ameliorates chronic murine autoimmune encephalomyelitis. <i>Journal of Neuroimmunology</i> , 2006, 172, 27-37.	2.3	103
7	Mesenchymal stem cell therapy promotes renal repair by limiting glomerular podocyte and progenitor cell dysfunction in adriamycin-induced nephropathy. <i>American Journal of Physiology - Renal Physiology</i> , 2012, 303, F1370-F1381.	2.7	88
8	Neuroprotection with the CXCL8 inhibitor repertaxin in transient brain ischemia. <i>Cytokine</i> , 2005, 30, 125-131.	3.2	85
9	The wobbler mouse, an ALS animal model. <i>Molecular Genetics and Genomics</i> , 2013, 288, 207-229.	2.1	85
10	Nonhematopoietic Erythropoietin Derivatives Prevent Motoneuron Degeneration In Vitro and In Vivo. <i>Molecular Medicine</i> , 2006, 12, 153-160.	4.4	82
11	Non-invasive in vitro and in vivo monitoring of degradation of fluorescently labeled hyaluronan hydrogels for tissue engineering applications. <i>Acta Biomaterialia</i> , 2016, 30, 188-198.	8.3	80
12	Genetic Analysis Reveals a Longevity-Associated Protein Modulating Endothelial Function and Angiogenesis. <i>Circulation Research</i> , 2015, 117, 333-345.	4.5	78
13	The Interleukin-8 (IL-8/CXCL8) Receptor Inhibitor Reparixin Improves Neurological Deficits and Reduces Long-term Inflammation in Permanent and Transient Cerebral Ischemia in Rats. <i>Molecular Medicine</i> , 2007, 13, 125-133.	4.4	77
14	Organ Distribution and Bone Tropism of Cellulose Nanocrystals in Living Mice. <i>Biomacromolecules</i> , 2015, 16, 2862-2871.	5.4	72
15	Neuroprotective Effects of Toll-Like Receptor 4 Antagonism in Spinal Cord Cultures and in a Mouse Model of Motor Neuron Degeneration. <i>Molecular Medicine</i> , 2012, 18, 971-981.	4.4	66
16	Protection of Brain Injury by Amniotic Mesenchymal Stromal Cell-Secreted Metabolites. <i>Critical Care Medicine</i> , 2016, 44, e1118-e1131.	0.9	66
17	The Heterogeneity of Amyotrophic Lateral Sclerosis: A Possible Explanation of Treatment Failure. <i>Current Medicinal Chemistry</i> , 2007, 14, 3185-3200.	2.4	62
18	Applications of Surface Plasmon Resonance (SPR) for the Characterization of Nanoparticles Developed for Biomedical Purposes. <i>Sensors</i> , 2012, 12, 16420-16432.	3.8	59

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19	Repeated administration of the food additive E171 to mice results in accumulation in intestine and liver and promotes an inflammatory status. <i>Nanotoxicology</i> , 2019, 13, 1087-1101.	3.0	56
20	Acetyl-L-carnitine shows neuroprotective and neurotrophic activity in primary culture of rat embryo motoneurons. <i>Neuroscience Letters</i> , 2002, 329, 334-338.	2.1	48
21	The role and impact of polyethylene glycol on anaphylactic reactions to COVID-19 nano-vaccines. <i>Nature Nanotechnology</i> , 2021, 16, 1169-1171.	31.5	48
22	Dexamethasone Conjugation to Biodegradable Avidin-Nucleic-Acid-Nano-Assemblies Promotes Selective Liver Targeting and Improves Therapeutic Efficacy in an Autoimmune Hepatitis Murine Model. <i>ACS Nano</i> , 2019, 13, 4410-4423.	14.6	47
23	Neutrophil Extracellular Traps Induce the Epithelial-Mesenchymal Transition: Implications in Post-COVID-19 Fibrosis. <i>Frontiers in Immunology</i> , 2021, 12, 663303.	4.8	45
24	Intracerebroventricular Administration of Human Umbilical Cord Blood Cells Delays Disease Progression in Two Murine Models of Motor Neuron Degeneration. <i>Rejuvenation Research</i> , 2011, 14, 623-639.	1.8	44
25	Bioreducible Hydrophobin-Stabilized Supraparticles for Selective Intracellular Release. <i>ACS Nano</i> , 2017, 11, 9413-9423.	14.6	44
26	Targeting Extracellular Cyclophilin A Reduces Neuroinflammation and Extends Survival in a Mouse Model of Amyotrophic Lateral Sclerosis. <i>Journal of Neuroscience</i> , 2017, 37, 1413-1427.	3.6	42
27	Mitochondrial oxidative metabolism in motor neuron degeneration (mnd) mouse central nervous system. <i>European Journal of Neuroscience</i> , 2002, 16, 2291-2296.	2.6	41
28	The Molecular Assembly of Amyloid A $\beta$ Controls Its Neurotoxicity and Binding to Cellular Proteins. <i>PLoS ONE</i> , 2011, 6, e24909.	2.5	39
29	Neuropathologic and Biochemical Changes During Disease Progression in Liver X Receptor $\beta$ <sup>2</sup> Mice, A Model of Adult Neuron Disease. <i>Journal of Neuropathology and Experimental Neurology</i> , 2010, 69, 593-605.	1.7	38
30	<i>In Vivo</i> Fate of Avidin-Nucleic Acid Nanoassemblies as Multifunctional Diagnostic Tools. <i>ACS Nano</i> , 2014, 8, 175-187.	14.6	36
31	Riluzole, unlike the AMPA antagonist RPR119990, reduces motor impairment and partially prevents motoneuron death in the wobbler mouse, a model of neurodegenerative disease. <i>Experimental Neurology</i> , 2006, 198, 114-128.	4.1	34
32	Retinal oxidation, apoptosis and age- and sex-differences in the mnd mutant mouse, a model of neuronal ceroid lipofuscinosis. <i>Brain Research</i> , 2004, 1014, 209-220.	2.2	33
33	Evidence for chronic mitochondrial impairment in the cervical spinal cord of a murine model of motor neuron disease. <i>Neurobiology of Disease</i> , 2004, 17, 349-357.	4.4	33
34	Biocompatible fluorescent nanoparticles for <i>in vivo</i> stem cell tracking. <i>Nanotechnology</i> , 2013, 24, 245603.	2.6	29
35	Multiple intracerebroventricular injections of human umbilical cord mesenchymal stem cells delay motor neurons loss but not disease progression of SOD1G93A mice. <i>Stem Cell Research</i> , 2017, 25, 166-178.	0.7	29
36	Glutamate transporters in the spinal cord of the wobbler mouse. <i>NeuroReport</i> , 2001, 12, 1815-1820.	1.2	28

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37	Regulation of redox-sensitive exofacial protein thiols in CHO cells. <i>Biological Chemistry</i> , 2006, 387, 1371-6.	2.5	28
38	Longitudinal Tracking of Human Fetal Cells Labeled with Super Paramagnetic Iron Oxide Nanoparticles in the Brain of Mice with Motor Neuron Disease. <i>PLoS ONE</i> , 2012, 7, e32326.	2.5	28
39	Human Skeletal Muscle Stem Cell Antiinflammatory Activity Ameliorates Clinical Outcome in Amyotrophic Lateral Sclerosis Models. <i>Molecular Medicine</i> , 2012, 18, 401-411.	4.4	27
40	Expression of glutamate receptor subtypes in the spinal cord of control and mnd mice, a model of motor neuron disorder. <i>Journal of Neuroscience Research</i> , 2002, 70, 553-560.	2.9	25
41	Expression of AMPA and NMDA receptor subunits in the cervical spinal cord of wobbler mice. <i>BMC Neuroscience</i> , 2006, 7, 71.	1.9	25
42	Vitamin E Phosphate Coating Stimulates Bone Deposition in Implant-related Infections in a Rat Model. <i>Clinical Orthopaedics and Related Research</i> , 2018, 476, 1324-1338.	1.5	25
43	Different early ER-stress responses in the CLN8mnd mouse model of neuronal ceroid lipofuscinosis. <i>Neuroscience Letters</i> , 2011, 488, 258-262.	2.1	24
44	Recombinant human TNF-binding protein-1 (rhTBP-1) treatment delays both symptoms progression and motor neuron loss in the wobbler mouse. <i>Neurobiology of Disease</i> , 2008, 29, 465-476.	4.4	23
45	Organosilica Cages Target Hepatic Sinusoidal Endothelial Cells Avoiding Macrophage Filtering. <i>ACS Nano</i> , 2021, 15, 9701-9716.	14.6	23
46	A biodistribution study of PEGylated PCL-based nanoparticles in C57BL/6 mice bearing B16/F10 melanoma. <i>Nanotechnology</i> , 2014, 25, 335706.	2.6	22
47	An early developmental vertebrate model for nanomaterial safety: bridging cell-based and mammalian toxicity assessment. <i>Nanomedicine</i> , 2016, 11, 643-656.	3.3	21
48	Glial activation and TNFR-I upregulation precedes motor dysfunction in the spinal cord of mnd mice. <i>Cytokine</i> , 2004, 25, 127-135.	3.2	20
49	Biocompatible Polymer Nanoformulation To Improve the Release and Safety of a Drug Mimic Molecule Detectable via ICP-MS. <i>Molecular Pharmaceutics</i> , 2017, 14, 124-134.	4.6	20
50	Integrated multiplatform method for <i>in vitro</i> quantitative assessment of cellular uptake for fluorescent polymer nanoparticles. <i>Nanotechnology</i> , 2014, 25, 045102.	2.6	19
51	Longitudinal tracking of triple labeled umbilical cord derived mesenchymal stromal cells in a mouse model of Amyotrophic Lateral Sclerosis. <i>Stem Cell Research</i> , 2015, 15, 243-253.	0.7	19
52	Fate of PLA and PCL-Based Polymeric Nanocarriers in Cellular and Animal Models of Triple-Negative Breast Cancer. <i>Biomacromolecules</i> , 2016, 17, 744-755.	5.4	19
53	An across-species comparison of the sensitivity of different organisms to Pb-based perovskites used in solar cells. <i>Science of the Total Environment</i> , 2020, 708, 135134.	8.0	18
54	S100B Protein and 4-Hydroxynonenal in the Spinal Cord of Wobbler Mice. <i>Neurochemical Research</i> , 2003, 28, 341-345.	3.3	17

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55	Neuronal hyperexcitability and seizures are associated with changes in glial-neuronal interactions in the hippocampus of a mouse model of epilepsy with mental retardation. <i>Journal of Neurochemistry</i> , 2010, 115, 1445-1454.	3.9	17
56	Monitoring the Fate of Orally Administered PLGA Nanoformulation for Local Delivery of Therapeutic Drugs. <i>Pharmaceutics</i> , 2019, 11, 658.	4.5	17
57	Toxicological impact of titanium dioxide nanoparticles and food-grade titanium dioxide (E171) on human and environmental health. <i>Environmental Science: Nano</i> , 2022, 9, 1199-1211.	4.3	17
58	A Nanoscale Shape-Discovery Framework Supporting Systematic Investigations of Shape-Dependent Biological Effects and Immunomodulation. <i>ACS Nano</i> , 2022, 16, 1547-1559.	14.6	16
59	Mouse aldehyde-oxidase-4 controls diurnal rhythms, fat deposition and locomotor activity. <i>Scientific Reports</i> , 2016, 6, 30343.	3.3	15
60	Proteomic Profiling of Cervical and Lumbar Spinal Cord Reveals Potential Protective Mechanisms in the Wobbler Mouse, a Model of Motor Neuron Degeneration. <i>Journal of Proteome Research</i> , 2009, 8, 5229-5240.	3.7	14
61	Shape engineered TiO <sub>2</sub> nanoparticles in <i>Caenorhabditis elegans</i> : a Raman imaging based approach to assist tissue-specific toxicological studies. <i>RSC Advances</i> , 2016, 6, 70501-70509.	3.6	14
62	Lack of caspase-dependent apoptosis in spinal motor neurons of the wobbler mouse. <i>Neuroscience Letters</i> , 2007, 426, 106-110.	2.1	13
63	Morphological features and responses to AMPA receptor-mediated excitotoxicity of mouse motor neurons: comparison in purified, mixed anterior horn or motor neuron/glia cocultures. <i>Journal of Neuroscience Methods</i> , 2008, 170, 85-95.	2.5	13
64	Endogenous Erythropoietin as Part of the Cytokine Network in the Pathogenesis of Experimental Autoimmune Encephalomyelitis. <i>Molecular Medicine</i> , 2008, 14, 682-688.	4.4	13
65	An integrated approach for the systematic evaluation of polymeric nanoparticles in healthy and diseased organisms. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	1.9	12
66	Immunohistochemical Localization of TNF $\alpha$ and Its Receptors in the Rodent Central Nervous System. , 2004, 98, 073-080.		8
67	Properties of Ca <sup>2+</sup> -activated K <sup>+</sup> channels in erythrocytes from patients with myotonic muscular dystrophy. , 1998, 21, 1465-1472.		7
68	Neural precursors (NPCs) from adult L967Q mice display early commitment to <i>in vitro</i> neuronal differentiation and hyperexcitability. <i>Experimental Neurology</i> , 2012, 236, 307-318.	4.1	7
69	Single particle extinction and scattering optical method unveils in real time the influence of the blood components on polymeric nanoparticles. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2017, 13, 2597-2603.	3.3	7
70	Lipofuscin Accumulation and Gene Expression in Different Tissues of mnd Mice. <i>Molecular Neurobiology</i> , 2012, 45, 247-257.	4.0	6
71	Food-Grade Titanium Dioxide Induces Toxicity in the Nematode <i>Caenorhabditis elegans</i> and Acute Hepatic and Pulmonary Responses in Mice. <i>Nanomaterials</i> , 2022, 12, 1669.	4.1	6
72	Tumor necrosis factor- $\alpha$ receptor 1 (p55) knockout only transiently decreases the activation of c-Jun and does not affect the survival of axotomized dopaminergic nigral neurons. <i>European Journal of Neuroscience</i> , 2005, 22, 267-272.	2.6	5

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73	Cellulose nanocrystals: a multimodal tool to enhance the targeted drug delivery against bone disorders. <i>Nanomedicine</i> , 2020, 15, 2271-2285.	3.3	5
74	Increased [ <sup>3</sup> H]D-Aspartate release and changes in glutamate receptor expression in the hippocampus of the <i>mnd</i> mouse. <i>Journal of Neuroscience Research</i> , 2012, 90, 1148-1158.	2.9	4
75	Internalization of nanopolymeric tracers does not alter characteristics of placental cells. <i>Journal of Cellular and Molecular Medicine</i> , 2016, 20, 1036-1048.	3.6	4
76	The mode of dexamethasone decoration influences avidin-nucleic-acid-nano-assembly organ biodistribution and in vivo drug persistence. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2022, 40, 102497.	3.3	4
77	Cellulose nanocrystals as promising nano-devices in the biomedical field. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	3
78	Induction of Epithelial-Mesenchymal Transition (EMT) by Neutrophil Extracellular Traps (NETs) as Possible Molecular Mechanism in CLAD. <i>Journal of Heart and Lung Transplantation</i> , 2021, 40, S151.	0.6	3
79	Role of Erythropoietin in Inflammatory Pathologies of the CNS. , 2006, , 191-209.		0