

# Slaven Erceg

## List of Publications by Year in descending order

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85  
papers

3,152  
citations

168829

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89  
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89  
docs citations

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times ranked

4417  
citing authors

#	ARTICLE	IF	CITATIONS
1	Challenges of Stem Cell Therapy for Spinal Cord Injury: Human Embryonic Stem Cells, Endogenous Neural Stem Cells, or Induced Pluripotent Stem Cells? <i>Stem Cells</i> , 2010, 28, 93-99.	1.4	183
2	Oral administration of sildenafil restores learning ability in rats with hyperammonemia and with portacaval shunts. <i>Hepatology</i> , 2005, 41, 299-306.	3.6	154
3	Brain edema and inflammatory activation in bile duct ligated rats with diet-induced hyperammonemia: A model of hepatic encephalopathy in cirrhosis. <i>Hepatology</i> , 2006, 43, 1257-1266.	3.6	147
4	Activated Spinal Cord Ependymal Stem Cells Rescue Neurological Function. <i>Stem Cells</i> , 2009, 27, 733-743.	1.4	147
5	Transplanted Oligodendrocytes and Motoneuron Progenitors Generated from Human Embryonic Stem Cells Promote Locomotor Recovery After Spinal Cord Transection. <i>Stem Cells</i> , 2010, 28, 1541-1549.	1.4	144
6	Glutamine synthetase activity and glutamine content in brain: modulation by NMDA receptors and nitric oxide. <i>Neurochemistry International</i> , 2003, 43, 493-499.	1.9	138
7	Differentiation of Human Embryonic Stem Cells to Regional Specific Neural Precursors in Chemically Defined Medium Conditions. <i>PLoS ONE</i> , 2008, 3, e2122.	1.1	119
8	Concise Review: Reactive Astrocytes and Stem Cells in Spinal Cord Injury: Good Guys or Bad Guys?. <i>Stem Cells</i> , 2015, 33, 1036-1041.	1.4	108
9	Restoration of learning ability in hyperammonemic rats by increasing extracellular cGMP in brain. <i>Brain Research</i> , 2005, 1036, 115-121.	1.1	106
10	FM19G11, a New Hypoxia-inducible Factor (HIF) Modulator, Affects Stem Cell Differentiation Status. <i>Journal of Biological Chemistry</i> , 2010, 285, 1333-1342.	1.6	99
11	Human Embryonic Stem Cell Differentiation Toward Regional Specific Neural Precursors. <i>Stem Cells</i> , 2009, 27, 78-87.	1.4	96
12	Molecular mechanism of acute ammonia toxicity: role of NMDA receptors. <i>Neurochemistry International</i> , 2002, 41, 95-102.	1.9	86
13	Chronic hyperammonemia induces peripheral inflammation that leads to cognitive impairment in rats: Reversed by anti-TNF- $\alpha$ treatment. <i>Journal of Hepatology</i> , 2020, 73, 582-592.	1.8	77
14	Chronic liver failure in rats impairs glutamatergic synaptic transmission and long-term potentiation in hippocampus and learning ability. <i>European Journal of Neuroscience</i> , 2007, 25, 2103-2111.	1.2	67
15	Efficient Differentiation of Human Embryonic Stem Cells into Functional Cerebellar-Like Cells. <i>Stem Cells and Development</i> , 2010, 19, 1745-1756.	1.1	61
16	Aluminium impairs the glutamate-nitric oxide-cGMP pathway in cultured neurons and in rat brain in vivo: molecular mechanisms and implications for neuropathology. <i>Journal of Inorganic Biochemistry</i> , 2001, 87, 63-69.	1.5	59
17	Perspectives and Future Directions of Human Pluripotent Stem Cell-Based Therapies: Lessons from Geron's Clinical Trial for Spinal Cord Injury. <i>Stem Cells and Development</i> , 2014, 23, 1-4.	1.1	57
18	Hypolocomotion in rats with chronic liver failure is due to increased glutamate and activation of metabotropic glutamate receptors in substantia nigra. <i>Journal of Hepatology</i> , 2006, 45, 654-661.	1.8	55

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19	Developmental exposure to polychlorinated biphenyls PCB153 or PCB126 impairs learning ability in young but not in adult rats. <i>European Journal of Neuroscience</i> , 2008, 27, 177-182.	1.2	53
20	Neural Differentiation from Human Embryonic Stem Cells as a Tool to Study Early Brain Development and the Neuroteratogenic Effects of Ethanol. <i>Stem Cells and Development</i> , 2011, 20, 327-339.	1.1	52
21	Complete rat spinal cord transection as a faithful model of spinal cord injury for translational cell transplantation. <i>Scientific Reports</i> , 2015, 5, 9640.	1.6	51
22	Concise Review: Human Pluripotent Stem Cells in the Treatment of Spinal Cord Injury. <i>Stem Cells</i> , 2012, 30, 1787-1792.	1.4	47
23	Stem Cell-Based Therapy for Spinal Cord Injury. <i>Cell Transplantation</i> , 2013, 22, 1309-1323.	1.2	47
24	Human iPSC derived disease model of MERTK-associated retinitis pigmentosa. <i>Scientific Reports</i> , 2015, 5, 12910.	1.6	47
25	Developmental exposure to polychlorinated biphenyls or methylmercury, but not to its combination, impairs the glutamate-nitric oxide-cyclic GMP pathway and learning in 3-month-old rats. <i>Neuroscience</i> , 2008, 154, 1408-1416.	1.1	45
26	Retinal Organoids derived from hiPSCs of an AIPL1-LCA Patient Maintain Cytoarchitecture despite Reduced levels of Mutant AIPL1. <i>Scientific Reports</i> , 2020, 10, 5426.	1.6	39
27	Highly Efficient Neural Conversion of Human Pluripotent Stem Cells in Adherent and Animal-Free Conditions. <i>Stem Cells Translational Medicine</i> , 2017, 6, 1217-1226.	1.6	37
28	Hypoxia Increases the Yield of Photoreceptors Differentiating from Mouse Embryonic Stem Cells and Improves the Modeling of Retinogenesis In Vitro. <i>Stem Cells</i> , 2013, 31, 966-978.	1.4	36
29	Deciphering retinal diseases through the generation of three dimensional stem cell-derived organoids: Concise Review. <i>Stem Cells</i> , 2019, 37, 1496-1504.	1.4	36
30	Glutamate-induced activation of nitric oxide synthase is impaired in cerebral cortex in vivo in rats with chronic liver failure. <i>Journal of Neurochemistry</i> , 2007, 102, 51-64.	2.1	35
31	Increasing the function of the glutamate-nitric oxide-cyclic guanosine monophosphate pathway increases the ability to learn a Y-maze task. <i>Journal of Neuroscience Research</i> , 2009, 87, 2351-2355.	1.3	35
32	Transcriptome-based molecular staging of human stem cell-derived retinal organoids uncovers accelerated photoreceptor differentiation by 9-cis retinal. <i>Molecular Vision</i> , 2019, 25, 663-678.	1.1	33
33	Stem Cells and Labeling for Spinal Cord Injury. <i>International Journal of Molecular Sciences</i> , 2017, 18, 6.	1.8	31
34	FM19G11 Favors Spinal Cord Injury Regeneration and Stem Cell Self-Renewal by Mitochondrial Uncoupling and Glucose Metabolism Induction. <i>Stem Cells</i> , 2012, 30, 2221-2233.	1.4	29
35	Current developments in cell- and biomaterial-based approaches for stroke repair. <i>Expert Opinion on Biological Therapy</i> , 2016, 16, 43-56.	1.4	29
36	Derivation of Cerebellar Neurons from Human Pluripotent Stem Cells. <i>Current Protocols in Stem Cell Biology</i> , 2012, 20, Unit 1H.5.	3.0	28

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37	Neurons exposed to ammonia reproduce the differential alteration in nitric oxide modulation of guanylate cyclase in the cerebellum and cortex of patients with liver cirrhosis. <i>Neurobiology of Disease</i> , 2005, 19, 150-161.	2.1	27
38	Role of extracellular cGMP and of hyperammonemia in the impairment of learning in rats with chronic hepatic failure. <i>Neurochemistry International</i> , 2006, 48, 441-446.	1.9	27
39	Prenatal exposure to polybrominated diphenylether 99 enhances the function of the glutamate/nitric oxide/cGMP pathway in brain <i>in vivo</i> and in cultured neurons. <i>European Journal of Neuroscience</i> , 2007, 25, 373-379.	1.2	27
40	Glaucoma as a Neurodegenerative Disease Caused by Intrinsic Vulnerability Factors. <i>Progress in Neurobiology</i> , 2020, 193, 101817.	2.8	27
41	Brief Report: Astrogliosis Promotes Functional Recovery of Completely Transected Spinal Cord Following Transplantation of hESC-Derived Oligodendrocyte and Motoneuron Progenitors. <i>Stem Cells</i> , 2014, 32, 594-599.	1.4	26
42	Prevention of ammonia and glutamate neurotoxicity by carnitine: molecular mechanisms. <i>Metabolic Brain Disease</i> , 2002, 17, 389-397.	1.4	23
43	Bile duct ligation plus hyperammonemia in rats reproduces the alterations in the modulation of soluble guanylate cyclase by nitric oxide in brain of cirrhotic patients. <i>Neuroscience</i> , 2005, 130, 435-443.	1.1	22
44	Non-coding RNAs in pluripotency and neural differentiation of human pluripotent stem cells. <i>Frontiers in Genetics</i> , 2014, 5, 132.	1.1	22
45	In vivo exposure to carbon monoxide causes delayed impairment of activation of soluble guanylate cyclase by nitric oxide in rat brain cortex and cerebellum. <i>Journal of Neurochemistry</i> , 2004, 89, 1157-1165.	2.1	21
46	Alterations in soluble guanylate cyclase content and modulation by nitric oxide in liver disease. <i>Neurochemistry International</i> , 2004, 45, 947-953.	1.9	21
47	Concise Review: Human Induced Pluripotent Stem Cell Models of Retinitis Pigmentosa. <i>Stem Cells</i> , 2018, 36, 474-481.	1.4	20
48	Chronic exposure to ammonia alters the modulation of phosphorylation of microtubule-associated protein 2 by metabotropic glutamate receptors 1 and 5 in cerebellar neurons in culture. <i>Neuroscience</i> , 2005, 133, 185-191.	1.1	15
49	Assessment of Toxic Effects of Ochratoxin A in Human Embryonic Stem Cells. <i>Toxins</i> , 2019, 11, 217.	1.5	15
50	FM19G11 and Ependymal Progenitor/Stem Cell Combinatory Treatment Enhances Neuronal Preservation and Oligodendrogenesis after Severe Spinal Cord Injury. <i>International Journal of Molecular Sciences</i> , 2018, 19, 200.	1.8	14
51	Activation of Neurogenesis in Multipotent Stem Cells Cultured In Vitro and in the Spinal Cord Tissue After Severe Injury by Inhibition of Glycogen Synthase Kinase-3. <i>Neurotherapeutics</i> , 2021, 18, 515-533.	2.1	13
52	Chronic exposure to 2,5-hexanedione impairs the glutamate-nitric oxide-cyclic GMP pathway in cerebellar neurons in culture and in rat brain in vivo. <i>Neurochemistry International</i> , 2003, 42, 525-533.	1.9	12
53	Connexin 50 Expression in Ependymal Stem Progenitor Cells after Spinal Cord Injury Activation. <i>International Journal of Molecular Sciences</i> , 2015, 16, 26608-26618.	1.8	12
54	Generation of a human iPSC line by mRNA reprogramming. <i>Stem Cell Research</i> , 2018, 28, 157-160.	0.3	12

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55	FM19G11: A new modulator of HIF that links mTOR activation with the DNA damage checkpoint pathways. <i>Cell Cycle</i> , 2010, 9, 2875-2885.	1.3	10
56	Connexin 50 modulates Sox2 expression in spinal-cord-derived ependymal stem/progenitor cells. <i>Cell and Tissue Research</i> , 2016, 365, 295-307.	1.5	10
57	Generation of gene-corrected human induced pluripotent stem cell lines derived from retinitis pigmentosa patient with Ser331Cysfs*5 mutation in MERTK. <i>Stem Cell Research</i> , 2019, 34, 101341.	0.3	10
58	Gene Correction Recovers Phagocytosis in Retinal Pigment Epithelium Derived from Retinitis Pigmentosa-Human-Induced Pluripotent Stem Cells. <i>International Journal of Molecular Sciences</i> , 2021, 22, 2092.	1.8	10
59	Unraveling the Developmental Roadmap toward Human Brown Adipose Tissue. <i>Stem Cell Reports</i> , 2021, 16, 641-655.	2.3	10
60	Mutant PRPF8 Causes Widespread Splicing Changes in Spliceosome Components in Retinitis Pigmentosa Patient iPSC-Derived RPE Cells. <i>Frontiers in Neuroscience</i> , 2021, 15, 636969.	1.4	9
61	Thiazolidinediones Regulate the Level of ABC Transporters Expression on Lung Cancer Cells. <i>Klinicka Onkologie</i> , 2015, 28, 431-438.	0.1	8
62	Concise Review: Stem Cells for the Treatment of Cerebellar-Related Disorders. <i>Stem Cells</i> , 2011, 29, 564-569.	1.4	7
63	Organized Neurogenic-Niche-Like Pinwheel Structures Discovered in Spinal Cord Tissue-Derived Neurospheres. <i>Frontiers in Cell and Developmental Biology</i> , 2019, 7, 334.	1.8	7
64	Methacrylate-endcapped caprolactone and FM19G11 provide a proper niche for spinal cord-derived neural cells. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2015, 9, 734-739.	1.3	6
65	Generation of a human iPSC line from a patient with autosomal recessive spastic ataxia of Charlevoix-Saguenay (ARSACS) caused by mutation in SACSIN gene. <i>Stem Cell Research</i> , 2018, 31, 249-252.	0.3	6
66	Neural Stem Cells Derived from Human-Induced Pluripotent Stem Cells and Their Use in Models of CNS Injury. <i>Results and Problems in Cell Differentiation</i> , 2018, 66, 89-102.	0.2	6
67	Short Review: Investigating ARSACS: models for understanding cerebellar degeneration. <i>Neuropathology and Applied Neurobiology</i> , 2019, 45, 531-537.	1.8	6
68	Pharmacological manipulation of cyclic GMP levels in brain restores learning ability in animal models of hepatic encephalopathy: therapeutic implications. <i>Neuropsychiatric Disease and Treatment</i> , 2006, 2, 53-63.	1.0	6
69	Subretinal Implantation of Human Primary RPE Cells Cultured on Nanofibrous Membranes in Minipigs. <i>Biomedicines</i> , 2022, 10, 669.	1.4	6
70	hiPSC Disease Modeling of Rare Hereditary Cerebellar Ataxias: Opportunities and Future Challenges. <i>Neuroscientist</i> , 2017, 23, 554-566.	2.6	5
71	Generation of an iPSC line from a retinitis pigmentosa patient carrying a homozygous mutation in CERKL and a healthy sibling. <i>Stem Cell Research</i> , 2019, 38, 101455.	0.3	5
72	The identification of small molecules that stimulate retinal pigment epithelial cells: potential novel therapeutic options for treating retinopathies. <i>Expert Opinion on Drug Discovery</i> , 2019, 14, 169-177.	2.5	5

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73	Stem Cell-Based Therapy in Transplantation and Immune-Mediated Diseases. Stem Cells International, 2017, 2017, 1-3.	1.2	4
74	Generation of a human iPSC line from a patient with congenital glaucoma caused by mutation in CYP1B1 gene. Stem Cell Research, 2018, 28, 96-99.	0.3	4
75	Generation of a human iPSC line from a patient with Leber congenital amaurosis caused by mutation in APLP1. Stem Cell Research, 2018, 33, 151-155.	0.3	4
76	Experimental Cell Transplantation for Traumatic Spinal Cord Injury Regeneration: Intramedullar or Intrathecal Administration. Methods in Molecular Biology, 2014, 1210, 23-35.	0.4	4
77	Generation of a human iPSC line from a patient with retinitis pigmentosa caused by mutation in PRPF8 gene. Stem Cell Research, 2017, 21, 23-25.	0.3	3
78	Genetic Variation at the apoB 3' Hypervariable Region in a Serbian Population. European Journal of Human Genetics, 1997, 5, 333-335.	1.4	3
79	Generation of human induced pluripotent stem cell (iPSC) line from an unaffected female carrier of mutation in SACSIN gene. Stem Cell Research, 2018, 33, 166-170.	0.3	2
80	Genetic variation at the apoB 3'hypervariable region in a Serbian population. European Journal of Human Genetics, 1997, 5, 333-5.	1.4	2
81	Generation of three human iPSC lines from PLAN (PLA2G6-associated neurodegeneration) patients. Stem Cell Research, 2021, 53, 102338.	0.3	1
82	Astrogliosis promotes functional recovery of completely transected spinal cord following transplantations of hESC-derived oligodendrocyte and motoneuron progenitors. Cytotherapy, 2013, 15, S47.	0.3	0
83	Advantages of nanofibrous membranes for culturing of primary RPE cells compared to commercial scaffolds. Acta Ophthalmologica, 2021, , .	0.6	0
84	Locomotor Recovery After Spinal Cord Transection: Transplantation of Oligodendrocytes and Motoneuron Progenitors Generated from Human Embryonic Stem Cells. , 2012, , 211-219.		0
85	N-methyl-D-aspartate receptors in hyperammonaemia and hepatic encephalopathy. , 0, , 183-193.		0