Slaven Erceg

List of Publications by Year
in descending order

85 papers	3,152 citations	147801 31 h-index	161849 54 g-index
89 all docs	89 docs citations	89 times ranked	4064 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? Â. Stem Cells, 2010, 28, 93-99.	3.2	183
2	Oral administration of sildenafil restores learning ability in rats with hyperammonemia and with portacaval shunts. Hepatology, 2005, 41, 299-306.	7.3	154
3	Brain edema and inflammatory activation in bile duct ligated rats with diet-induced hyperammonemia: A model of hepatic encephalopathy in cirrhosis. Hepatology, 2006, 43, 1257-1266.	7.3	147
4	Activated Spinal Cord Ependymal Stem Cells Rescue Neurological Function. Stem Cells, 2009, 27, 733-743.	3.2	147
5	Transplanted Oligodendrocytes and Motoneuron Progenitors Generated from Human Embryonic Stem Cells Promote Locomotor Recovery After Spinal Cord Transection. Stem Cells, 2010, 28, 1541-1549.	3.2	144
6	Glutamine synthetase activity and glutamine content in brain: modulation by NMDA receptors and nitric oxide. Neurochemistry International, 2003, 43, 493-499.	3.8	138
7	Differentiation of Human Embryonic Stem Cells to Regional Specific Neural Precursors in Chemically Defined Medium Conditions. PLoS ONE, 2008, 3, e2122.	2.5	119
8	Concise Review: Reactive Astrocytes and Stem Cells in Spinal Cord Injury: Good Guys or Bad Guys?. Stem Cells, 2015, 33, 1036-1041.	3.2	108
9	Restoration of learning ability in hyperammonemic rats by increasing extracellular cGMP in brain. Brain Research, 2005, 1036, 115-121.	2.2	106
10	FM19G11, a New Hypoxia-inducible Factor (HIF) Modulator, Affects Stem Cell Differentiation Status. Journal of Biological Chemistry, 2010, 285, 1333-1342.	3.4	99
11	Human Embryonic Stem Cell Differentiation Toward Regional Specific Neural Precursors. Stem Cells, 2009, 27, 78-87.	3.2	96
12	Molecular mechanism of acute ammonia toxicity: role of NMDA receptors. Neurochemistry International, 2002, 41, 95-102.	3.8	86
13	Chronic hyperammonemia induces peripheral inflammation that leads to cognitive impairment in rats: Reversed by anti-TNF-Î± treatment. Journal of Hepatology, 2020, 73, 582-592.	3.7	77
14	Chronic liver failure in rats impairs glutamatergic synaptic transmission and long-term potentiation in hippocampus and learning ability. European Journal of Neuroscience, 2007, 25, 2103-2111.	2.6	67
15	Efficient Differentiation of Human Embryonic Stem Cells into Functional Cerebellar-Like Cells. Stem Cells and Development, 2010, 19, 1745-1756.	2.1	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. Journal of Inorganic Biochemistry, 2001, 87, 63-69.	3.5	59
17	Perspectives and Future Directions of Human Pluripotent Stem Cell-Based Therapies: Lessons from Geron's Clinical Trial for Spinal Cord Injury. Stem Cells and Development, 2014, 23, 1-4.	2.1	57
18	Hypolocomotion in rats with chronic liver failure is due to increased glutamate and activation of metabotropic glutamate receptors in substantia nigra. Journal of Hepatology, 2006, 45, 654-661.	3.7	55

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19	Developmental exposure to polychlorinated biphenyls PCB153 or PCB126 impairs learning ability in young but not in adult rats. European Journal of Neuroscience, 2008, 27, 177-182.	2.6	53
20	Neural Differentiation from Human Embryonic Stem Cells as a Tool to Study Early Brain Development and the Neuroteratogenic Effects of Ethanol. Stem Cells and Development, 2011, 20, 327-339.	2.1	52
21	Complete rat spinal cord transection as a faithful model of spinal cord injury for translational cell transplantation. Scientific Reports, 2015, 5, 9640.	3.3	51
22	Concise Review: Human Pluripotent Stem Cells in the Treatment of Spinal Cord Injury. Stem Cells, 2012, 30, 1787-1792.	3.2	47
23	Stem Cell-Based Therapy for Spinal Cord Injury. Cell Transplantation, 2013, 22, 1309-1323.	2.5	47
24	Human iPSC derived disease model of MERTK-associated retinitis pigmentosa. Scientific Reports, 2015, 5, 12910.	3.3	47
25	Developmental exposure to polychlorinated biphenyls or methylmercury, but not to its combination, impairs the glutamateâ€"nitric oxideâ€"cyclic GMP pathway and learning in 3-month-old rats. Neuroscience, 2008, 154, 1408-1416.	2.3	45
26	Retinal Organoids derived from hiPSCs of an AIPL1-LCA Patient Maintain Cytoarchitecture despite Reduced levels of Mutant AIPL1. Scientific Reports, 2020, 10, 5426.	3.3	39
27	Highly Efficient Neural Conversion of Human Pluripotent Stem Cells in Adherent and Animal-Free Conditions. Stem Cells Translational Medicine, 2017, 6, 1217-1226.	3.3	37
28	Hypoxia Increases the Yield of Photoreceptors Differentiating from Mouse Embryonic Stem Cells and Improves the Modeling of Retinogenesis In Vitro. Stem Cells, 2013, 31, 966-978.	3.2	36
29	Deciphering retinal diseases through the generation of three dimensional stem cell-derived organoids: Concise Review. Stem Cells, 2019, 37, 1496-1504.	3.2	36
30	Glutamate-induced activation of nitric oxide synthase is impaired in cerebral cortexinÂvivoin rats with chronic liver failure. Journal of Neurochemistry, 2007, 102, 51-64.	3.9	35
31	Increasing the function of the glutamateâ€•nitric oxideâ€•cyclic guanosine monophosphate pathway increases the ability to learn a Yâ€•maze task. Journal of Neuroscience Research, 2009, 87, 2351-2355.	2.9	35
32	Transcriptome-based molecular staging of human stem cell-derived retinal organoids uncovers accelerated photoreceptor differentiation by 9-cis retinal. Molecular Vision, 2019, 25, 663-678.	1.1	33
33	Stem Cells and Labeling for Spinal Cord Injury. International Journal of Molecular Sciences, 2017, 18, 6.	4.1	31
34	FM19G11 Favors Spinal Cord Injury Regeneration and Stem Cell Self-Renewal by Mitochondrial Uncoupling and Glucose Metabolism Induction. Stem Cells, 2012, 30, 2221-2233.	3.2	29
35	Current developments in cell- and biomaterial-based approaches for stroke repair. Expert Opinion on Biological Therapy, 2016, 16, 43-56.	3.1	29
36	Derivation of Cerebellar Neurons from Human Pluripotent Stem Cells. Current Protocols in Stem Cell Biology, 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. Neurobiology of Disease, 2005, 19, 150-161.	4.4	27
38	Role of extracellular cGMP and of hyperammonemia in the impairment of learning in rats with chronic hepatic failure. Neurochemistry International, 2006, 48, 441-446.	3.8	27
39	Prenatal exposure to polybrominated diphenylether 99 enhances the function of the glutamate?nitric oxide?cGMP pathway in brain inï¿½vivo and in cultured neurons. European Journal of Neuroscience, 2007, 25, 373-379.	2.6	27
40	Glaucoma as a Neurodegenerative Disease Caused by Intrinsic Vulnerability Factors. Progress in Neurobiology, 2020, 193, 101817.	5.7	27
41	Brief Report: Astrogliosis Promotes Functional Recovery of Completely Transected Spinal Cord Following Transplantation of hESC-Derived Oligodendrocyte and Motoneuron Progenitors. Stem Cells, 2014, 32, 594-599.	3.2	26
42	Prevention of ammonia and glutamate neurotoxicity by carnitine: molecular mechanisms. Metabolic Brain Disease, 2002, 17, 389-397.	2.9	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. Neuroscience, 2005, 130, 435-443.	2.3	22
44	Non-coding RNAs in pluripotency and neural differentiation of human pluripotent stem cells. Frontiers in Genetics, 2014, 5, 132.	2.3	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. Journal of Neurochemistry, 2004, 89, 1157-1165.	3.9	21
46	Alterations in soluble guanylate cyclase content and modulation by nitric oxide in liver disease. Neurochemistry International, 2004, 45, 947-953.	3.8	21
47	Concise Review: Human Induced Pluripotent Stem Cell Models of Retinitis Pigmentosa. Stem Cells, 2018, 36, 474-481.	3.2	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. Neuroscience, 2005, 133, 185-191.	2.3	15
49	Assessment of Toxic Effects of Ochratoxin A in Human Embryonic Stem Cells. Toxins, 2019, 11, 217.	3.4	15
50	FM19G11 and Ependymal Progenitor/Stem Cell Combinatory Treatment Enhances Neuronal Preservation and Oligodendrogenesis after Severe Spinal Cord Injury. International Journal of Molecular Sciences, 2018, 19, 200.	4.1	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. Neurotherapeutics, 2021, 18, 515-533.	4.4	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. Neurochemistry International, 2003, 42, 525-533.	3.8	12
53	Connexin 50 Expression in Ependymal Stem Progenitor Cells after Spinal Cord Injury Activation. International Journal of Molecular Sciences, 2015, 16, 26608-26618.	4.1	12
54	Generation of a human iPSC line by mRNA reprogramming. Stem Cell Research, 2018, 28, 157-160.	0.7	12

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55	FM19G11: A new modulator of HIF that links mTOR activation with the DNA damage checkpoint pathways. Cell Cycle, 2010, 9, 2875-2885.	2.6	10
56	Connexin 50 modulates Sox2 expression in spinal-cord-derived ependymal stem/progenitor cells. Cell and Tissue Research, 2016, 365, 295-307.	2.9	10
57	Generation of gene-corrected human induced pluripotent stem cell lines derived from retinitis pigmentosa patient with Ser331Cysfs*5 mutation in MERTK. Stem Cell Research, 2019, 34, 101341.	0.7	10
58	Gene Correction Recovers Phagocytosis in Retinal Pigment Epithelium Derived from Retinitis Pigmentosa-Human-Induced Pluripotent Stem Cells. International Journal of Molecular Sciences, 2021, 22, 2092.	4.1	10
59	Unraveling the Developmental Roadmap toward Human Brown Adipose Tissue. Stem Cell Reports, 2021, 16, 641-655.	4.8	10
60	Mutant PRPF8 Causes Widespread Splicing Changes in Spliceosome Components in Retinitis Pigmentosa Patient iPSC-Derived RPE Cells. Frontiers in Neuroscience, 2021, 15, 636969.	2.8	9
61	Thiazolidinediones Regulate the Level of ABC Transporters Expression on Lung Cancer Cells. Klinicka Onkologie, 2015, 28, 431-438.	0.3	8
62	Concise Review: Stem Cells for the Treatment of Cerebellar-Related Disorders. Stem Cells, 2011, 29, 564-569.	3.2	7
63	Organized Neurogenic-Niche-Like Pinwheel Structures Discovered in Spinal Cord Tissue-Derived Neurospheres. Frontiers in Cell and Developmental Biology, 2019, 7, 334.	3.7	7
64	Methacrylate-endcapped caprolactone and FM19G11 provide a proper niche for spinal cord-derived neural cells. Journal of Tissue Engineering and Regenerative Medicine, 2015, 9, 734-739.	2.7	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. Stem Cell Research, 2018, 31, 249-252.	0.7	6
66	Neural Stem Cells Derived from Human-Induced Pluripotent Stem Cells and Their Use in Models of CNS Injury. Results and Problems in Cell Differentiation, 2018, 66, 89-102.	0.7	6
67	Short Review: Investigating ARSACS: models for understanding cerebellar degeneration. Neuropathology and Applied Neurobiology, 2019, 45, 531-537.	3.2	6
68	Pharmacological manipulation of cyclic GMP levels in brain restores learning ability in animal models of hepatic encephalopathy: therapeutic implications. Neuropsychiatric Disease and Treatment, 2006, 2, 53-63.	2.2	6
69	Subretinal Implantation of Human Primary RPE Cells Cultured on Nanofibrous Membranes in Minipigs. Biomedicines, 2022, 10, 669.	3.2	6
70	hiPSC Disease Modeling of Rare Hereditary Cerebellar Ataxias: Opportunities and Future Challenges. Neuroscientist, 2017, 23, 554-566.	3.5	5
71	Generation of an iPSC line from a retinitis pigmentosa patient carrying a homozygous mutation in CERKL and a healthy sibling. Stem Cell Research, 2019, 38, 101455.	0.7	5
72	The identification of small molecules that stimulate retinal pigment epithelial cells: potential novel therapeutic options for treating retinopathies. Expert Opinion on Drug Discovery, 2019, 14, 169-177.	5.0	5

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73	Stem Cell-Based Therapy in Transplantation and Immune-Mediated Diseases. Stem Cells International, 2017, 2017, 1-3.	2.5	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.	0.7	4
75	Generation of a human iPSC line from a patient with Leber congenital amaurosis caused by mutation in AIPL1. Stem Cell Research, 2018, 33, 151-155.	0.7	4
76	Experimental Cell Transplantation for Traumatic Spinal Cord Injury Regeneration: Intramedullar or Intrathecal Administration. Methods in Molecular Biology, 2014, 1210, 23-35.	0.9	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.	0.7	3
78	Genetic Variation at the apoB 3' Hypervariable Region in a Serbian Population. European Journal of Human Genetics, 1997, 5, 333-335.	2.8	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.	0.7	2
80	Genetic variation at the apoB 3'hypervariable region in a Serbian population. European Journal of Human Genetics, 1997, 5, 333-5.	2.8	2
81	Generation of three human iPSC lines from PLAN (PLA2G6-associated neurodegeneration) patients. Stem Cell Research, 2021, 53, 102338.	0.7	1
82	Astrogliosis promotes functional recovery of completely transected spinal cord following transplantations of hESC-derived oligoden-drocyte and motoneuron progenitors. Cytotherapy, 2013, 15, S47.	0.7	0
83	Advantages of nanofibrous membranes for culturing of primary RPE cells compared to commercial scaffolds. Acta Ophthalmologica, 2021, , .	1.1	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