

# AndrÃ© Ricardo Massensini

## List of Publications by Year in descending order

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117  
papers

4,694  
citations

117625

34  
h-index

110387

64  
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117  
all docs

117  
docs citations

117  
times ranked

7251  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mapping transplanted stem cell migration after a stroke: a serial, in vivo magnetic resonance imaging study. <i>NeuroImage</i> , 2004, 21, 311-317.	4.2	261
2	Hydrogels derived from central nervous system extracellular matrix. <i>Biomaterials</i> , 2013, 34, 1033-1040.	11.4	237
3	Effects of Implantation Site of Stem Cell Grafts on Behavioral Recovery From Stroke Damage. <i>Stroke</i> , 2002, 33, 2270-2278.	2.0	214
4	Clinical imaging in regenerative medicine. <i>Nature Biotechnology</i> , 2014, 32, 804-818.	17.5	207
5	The support of neural stem cells transplanted into stroke-induced brain cavities by PLGA particles. <i>Biomaterials</i> , 2009, 30, 2985-2994.	11.4	195
6	Sulforaphane preconditioning of the Nrf2/HO-1 defense pathway protects the cerebral vasculature against blood-brain barrier disruption and neurological deficits in stroke. <i>Free Radical Biology and Medicine</i> , 2013, 65, 1012-1022.	2.9	186
7	Non-invasive imaging of transplanted human neural stem cells and ECM scaffold remodeling in the stroke-damaged rat brain by 19F- and diffusion-MRI. <i>Biomaterials</i> , 2012, 33, 2858-2871.	11.4	155
8	Implantation Site and Lesion Topology Determine Efficacy of a Human Neural Stem Cell Line in a Rat Model of Chronic Stroke. <i>Stem Cells</i> , 2012, 30, 785-796.	3.2	135
9	Concentration-dependent rheological properties of ECM hydrogel for intracerebral delivery to a stroke cavity. <i>Acta Biomaterialia</i> , 2015, 27, 116-130.	8.3	127
10	Neo-vascularization of the stroke cavity by implantation of human neural stem cells on VEGF-releasing PLGA microparticles. <i>Biomaterials</i> , 2012, 33, 7435-7446.	11.4	126
11	Translational considerations in injectable cell-based therapeutics for neurological applications: concepts, progress and challenges. <i>Npj Regenerative Medicine</i> , 2017, 2, 23.	5.2	117
12	ECM hydrogel for the treatment of stroke: Characterization of the host cell infiltrate. <i>Biomaterials</i> , 2016, 91, 166-181.	11.4	116
13	Trypan blue exclusion assay by flow cytometry. <i>Brazilian Journal of Medical and Biological Research</i> , 2014, 47, 307-315.	1.5	111
14	Tracking transplanted stem cell migration using bifunctional, contrast agent-enhanced, magnetic resonance imaging. <i>NeuroImage</i> , 2002, 17, 803-11.	4.2	94
15	Biodegradation of ECM hydrogel promotes endogenous brain tissue restoration in a rat model of stroke. <i>Acta Biomaterialia</i> , 2018, 80, 66-84.	8.3	93
16	Endocytosis of Prion Protein Is Required for ERK1/2 Signaling Induced by Stress-Inducible Protein 1. <i>Journal of Neuroscience</i> , 2008, 28, 6691-6702.	3.6	86
17	Stress-inducible phosphoprotein 1 has unique cochaperone activity during development and regulates cellular response to ischemia via the prion protein. <i>FASEB Journal</i> , 2013, 27, 3594-3607.	0.5	86
18	Reduced Cortical Volume and Elevated Astrocyte Density in Rats Chronically Treated With Antipsychotic Drugs—Linking Magnetic Resonance Imaging Findings to Cellular Pathology. <i>Biological Psychiatry</i> , 2014, 75, 982-990.	1.3	85

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19	Enriched environment increases neurogenesis and improves social memory persistence in socially isolated adult mice. <i>Hippocampus</i> , 2014, 24, 239-248.	1.9	84
20	DNA-gadolinium-gold nanoparticles for in vivo T1 MR imaging of transplanted human neural stem cells. <i>Biomaterials</i> , 2016, 77, 291-306.	11.4	81
21	Attachment of stem cells to scaffold particles for intra-cerebral transplantation. <i>Nature Protocols</i> , 2009, 4, 1440-1453.	12.0	75
22	High intensity interval training modulates hippocampal oxidative stress, BDNF and inflammatory mediators in rats. <i>Physiology and Behavior</i> , 2018, 184, 6-11.	2.1	70
23	A role for the endocannabinoid system in exercise-induced spatial memory enhancement in mice. <i>Hippocampus</i> , 2014, 24, 79-88.	1.9	58
24	In Vitro Modeling of the Neurovascular Environment by Coculturing Adult Human Brain Endothelial Cells with Human Neural Stem Cells. <i>PLoS ONE</i> , 2014, 9, e106346.	2.5	57
25	Long-term retention of ECM hydrogel after implantation into a sub-acute stroke cavity reduces lesion volume. <i>Acta Biomaterialia</i> , 2017, 63, 50-63.	8.3	53
26	MR Diffusion Histology and Micro-Tractography Reveal Mesoscale Features of the Human Cerebellum. <i>Cerebellum</i> , 2013, 12, 923-931.	2.5	49
27	Alpha- and beta-scorpion toxins evoke glutamate release from rat cortical synaptosomes with different effects on $[Na^+]_i$ and $[Ca^{2+}]_i$ . <i>Neuropharmacology</i> , 1998, 37, 289-297.	4.1	47
28	Correlations of Behavioral Deficits with Brain Pathology Assessed through Longitudinal MRI and Histopathology in the R6/2 Mouse Model of HD. <i>PLoS ONE</i> , 2013, 8, e60012.	2.5	44
29	Biologic scaffold for CNS repair. <i>Regenerative Medicine</i> , 2014, 9, 367-383.	1.7	44
30	Object recognition memory deficit and depressive-like behavior caused by chronic ovariectomy can be transiently recovered by the acute activation of hippocampal estrogen receptors. <i>Psychoneuroendocrinology</i> , 2015, 57, 14-25.	2.7	43
31	Phoneutria spider toxins block ischemia-induced glutamate release, neuronal death, and loss of neurotransmission in hippocampus. <i>Hippocampus</i> , 2009, 19, 1123-1129.	1.9	41
32	Ex vivo biomechanical characterization of syringe-needle ejections for intracerebral cell delivery. <i>Scientific Reports</i> , 2018, 8, 9194.	3.3	41
33	Bioscaffold-Induced Brain Tissue Regeneration. <i>Frontiers in Neuroscience</i> , 2019, 13, 1156.	2.8	40
34	Correlations of Behavioral Deficits with Brain Pathology Assessed through Longitudinal MRI and Histopathology in the R6/1 Mouse Model of Huntington's Disease. <i>PLoS ONE</i> , 2013, 8, e84726.	2.5	39
35	Recent Advances in the Therapeutic and Diagnostic Use of Liposomes and Carbon Nanomaterials in Ischemic Stroke. <i>Frontiers in Neuroscience</i> , 2018, 12, 453.	2.8	39
36	Chemical exchange-sensitive spin-lock (CEST) MRI of glucose and analogs in brain tumors. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 488-495.	3.0	37

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37	Detection of aberrant hippocampal mossy fiber connections: Ex vivo mesoscale diffusion <scp>MRI</scp> and microtractography with histological validation in a patient with uncontrolled temporal lobe epilepsy. <i>Human Brain Mapping</i> , 2016, 37, 780-795.	3.6	36
38	Effects of implantation site of dead stem cells in rats with stroke damage. <i>NeuroReport</i> , 2003, 14, 39-42.	1.2	35
39	3D reconstruction of 2D fluorescence histology images and registration with in vivo MR images: Application in a rodent stroke model. <i>Journal of Neuroscience Methods</i> , 2013, 219, 27-40.	2.5	35
40	Considerations for the clinical use of contrast agents for cellular MRI in regenerative medicine. <i>Contrast Media and Molecular Imaging</i> , 2013, 8, 439-455.	0.8	34
41	Intracerebral Cell Implantation: Preparation and Characterization of Cell Suspensions. <i>Cell Transplantation</i> , 2016, 25, 645-664.	2.5	33
42	Neuroprotective effect on brain injury by neurotoxins from the spider <i>Phoneutria nigriventer</i> . <i>Neurochemistry International</i> , 2006, 49, 543-547.	3.8	32
43	Vesicular acetylcholine transporter knock down-mice are more susceptible to inflammation, c-Fos expression and sickness behavior induced by lipopolysaccharide. <i>Brain, Behavior, and Immunity</i> , 2016, 57, 282-292.	4.1	32
44	Calcium channels coupled to depolarization-evoked glutamate release in the myenteric plexus of guinea-pig ileum. <i>Neuroscience</i> , 2000, 101, 237-242.	2.3	29
45	Diamagnetic chemical exchange saturation transfer (diaCEST) affords magnetic resonance imaging of extracellular matrix hydrogel implantation in a rat model of stroke. <i>Biomaterials</i> , 2017, 113, 176-190.	11.4	29
46	Object recognition memory and temporal lobe activation after delayed estrogen replacement therapy. <i>Neurobiology of Learning and Memory</i> , 2013, 101, 19-25.	1.9	28
47	Biological effects of dosing aerobic exercise and neuromuscular electrical stimulation in rats. <i>Scientific Reports</i> , 2017, 7, 10830.	3.3	28
48	Simultaneous MR imaging for tissue engineering in a rat model of stroke. <i>Scientific Reports</i> , 2015, 5, 14597.	3.3	26
49	Sodium channel toxins and neurotransmitter release. <i>Neurochemical Research</i> , 2003, 28, 1607-1611.	3.3	24
50	Swimming training attenuates oxidative damage and increases enzymatic but not non-enzymatic antioxidant defenses in the rat brain. <i>Brazilian Journal of Medical and Biological Research</i> , 2016, 49, e5310.	1.5	24
51	Human neural stem cell-induced endothelial morphogenesis requires autocrine/paracrine and juxtacrine signaling. <i>Scientific Reports</i> , 2016, 6, 29029.	3.3	24
52	Swim training attenuates oxidative damage and promotes neuroprotection in cerebral cortical slices submitted to oxygen glucose deprivation. <i>Journal of Neurochemistry</i> , 2012, 123, 317-324.	3.9	23
53	The late response of rat subependymal zone stem and progenitor cells to stroke is restricted to directly affected areas of their niche. <i>Experimental Neurology</i> , 2013, 248, 387-397.	4.1	23
54	Comparative Magnetic Resonance Imaging and Histopathological Correlates in Two SOD1 Transgenic Mouse Models of Amyotrophic Lateral Sclerosis. <i>PLoS ONE</i> , 2015, 10, e0132159.	2.5	23

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55	Noninvasive imaging of transplanted cells. <i>Current Opinion in Organ Transplantation</i> , 2008, 13, 654-658.	1.6	22
56	A roadmap for promoting endogenous in situ tissue restoration using inductive bioscaffolds after acute brain injury. <i>Brain Research Bulletin</i> , 2019, 150, 136-149.	3.0	22
57	ECM hydrogel improves the delivery of PEG microsphere-encapsulated neural stem cells and endothelial cells into tissue cavities caused by stroke. <i>Brain Research Bulletin</i> , 2021, 168, 120-137.	3.0	21
58	In vivo monitoring of cellular transplants by magnetic resonance imaging and positron emission tomography. <i>Expert Opinion on Biological Therapy</i> , 2004, 4, 145-155.	3.1	20
59	Bioengineering solutions for neural repair and recovery in stroke. <i>Current Opinion in Neurology</i> , 2013, 26, 626-631.	3.6	20
60	Effects of Î±-scorpion toxin, tityustoxin on the release of [3H] dopamine of rat brain prefrontal cortical slices. <i>Neurochemistry International</i> , 2004, 44, 91-97.	3.8	17
61	Protective Effect of Retinal Ischemia by Blockers of Voltage-dependent Calcium Channels and Intracellular Calcium Stores. <i>Cellular and Molecular Neurobiology</i> , 2008, 28, 847-856.	3.3	17
62	Anatomically dependent anticonvulsant properties of temporally-coded electrical stimulation. <i>Epilepsy and Behavior</i> , 2012, 23, 294-297.	1.7	17
63	Correlations of Behavioral Deficits with Brain Pathology Assessed through Longitudinal MRI and Histopathology in the HdhQ150/Q150 Mouse Model of Huntingtonâ€™s Disease. <i>PLoS ONE</i> , 2017, 12, e0168556.	2.5	17
64	Effects of a Lasiodora spider venom on Ca <sup>2+</sup> and Na <sup>+</sup> channels. <i>Toxicon</i> , 2001, 39, 991-1002.	1.6	16
65	Malnutrition during central nervous system growth and development impairs permanently the subcortical auditory pathway. <i>Nutritional Neuroscience</i> , 2012, 15, 31-36.	3.1	16
66	Evidence for augmented brainstem activated forebrain seizures in Wistar Audiogenic Rats subjected to transauricular electroshock. <i>Neuroscience Letters</i> , 2004, 369, 19-23.	2.1	15
67	Mesoscale diffusion magnetic resonance imaging of the ex vivo human hippocampus. <i>Human Brain Mapping</i> , 2020, 41, 4200-4218.	3.6	15
68	Long-term survival and serial assessment of stroke damage and recovery â€” practical and methodological considerations.. <i>Journal of Experimental Stroke &amp; Translational Medicine</i> , 2009, 2, 52-68.	0.2	15
69	Electroencephalographic evidence of brainstem recruitment during scorpion envenomation. <i>NeuroToxicology</i> , 2009, 30, 90-96.	3.0	14
70	Differential effects of swimming training on neuronal calcium sensor-1 expression in rat hippocampus/cortex and in object recognition memory tasks. <i>Brain Research Bulletin</i> , 2012, 88, 385-391.	3.0	14
71	Neuroprotective effect of exercise in rat hippocampal slices submitted to <i>in vitro</i> ischemia is promoted by decrease of glutamate release and proâ€”apoptotic markers. <i>Journal of Neurochemistry</i> , 2014, 131, 65-73.	3.9	14
72	Post-Stroke Timing of ECM Hydrogel Implantation Affects Biodegradation and Tissue Restoration. <i>International Journal of Molecular Sciences</i> , 2021, 22, 11372.	4.1	14

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73	Mapping the acute time course of immune cell infiltration into an ECM hydrogel in a rat model of stroke using 19F MRI. <i>Biomaterials</i> , 2022, 282, 121386.	11.4	14
74	Halothane-induced intracellular calcium release in cholinergic cells. <i>Brain Research</i> , 2001, 921, 106-114.	2.2	13
75	Tracking sodium channels in live cells: confocal imaging using fluorescently labeled toxins. <i>Journal of Neuroscience Methods</i> , 2002, 116, 189-196.	2.5	13
76	Carbamazepine protects the CNS of Wistar rats against the central effects of scorpion envenomation. <i>NeuroToxicology</i> , 2008, 29, 136-142.	3.0	13
77	Pharmacological induction of ischemic tolerance in hippocampal slices by sarcosine preconditioning. <i>Neurochemistry International</i> , 2012, 61, 713-720.	3.8	13
78	19F Magnetic Resonance Imaging and Spectroscopy in Neuroscience. <i>Neuroscience</i> , 2021, 474, 37-50.	2.3	13
79	Modulation of Na <sup>+</sup> -channels by neurotoxins produces different effects on [3H]ACh release with mobilization of distinct Ca <sup>2+</sup> -channels. <i>Cellular and Molecular Neurobiology</i> , 2002, 22, 819-826.	3.3	12
80	Effects of chronic antipsychotic drug exposure on the expression of Translocator Protein and inflammatory markers in rat adipose tissue. <i>Psychoneuroendocrinology</i> , 2018, 95, 28-33.	2.7	12
81	A systematic optimization of 19F MR image acquisition to detect macrophage invasion into an ECM hydrogel implanted in the stroke-damaged brain. <i>NeuroImage</i> , 2019, 202, 116090.	4.2	12
82	ADptive plasticity and recovery in preclinical models of stroke. <i>Archives Italiennes De Biologie</i> , 2015, 152, 190-215.	0.4	12
83	<i>Trypanosoma cruzi</i> disrupts myofibrillar organization and intracellular calcium levels in mouse neonatal cardiomyocytes. <i>Cell and Tissue Research</i> , 2006, 324, 489-496.	2.9	11
84	Antiarrhythmogenic and Antioxidant Effect of the Flavonoid Dioclein in a Model of Cardiac Ischemia/Reperfusion. <i>Planta Medica</i> , 2006, 72, 300-303.	1.3	10
85	Brainstem Structures Are Primarily Affected in an Experimental Model of Severe Scorpion Envenomation. <i>Toxicological Sciences</i> , 2014, 137, 147-157.	3.1	10
86	Ex vivo mesoscopic diffusion <scp>MRI</scp> correlates with seizure frequency in patients with uncontrolled mesial temporal lobe epilepsy. <i>Human Brain Mapping</i> , 2020, 41, 4529-4548.	3.6	10
87	Pulmonary arterial hypertension induces the release of circulating extracellular vesicles with oxidative content and alters redox and mitochondrial homeostasis in the brains of rats. <i>Hypertension Research</i> , 2021, 44, 918-931.	2.7	10
88	Reduced hippocampal GABAergic function in Wistar audiogenic rats. <i>Brazilian Journal of Medical and Biological Research</i> , 2011, 44, 1054-1059.	1.5	9
89	Biomaterial applications in neural therapy and repair. <i>Chinese Neurosurgical Journal</i> , 2016, 2, .	0.9	9
90	Triggering Different Brain States Using Asynchronous Serial Communication to the Rat Amygdala. <i>Cerebral Cortex</i> , 2016, 26, 1866-1877.	2.9	9

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91	Magnetic resonance imaging and tensor-based morphometry in the MPTP non-human primate model of Parkinson's disease. PLoS ONE, 2017, 12, e0180733.	2.5	9
92	Effects of tityustoxin on cerebral inflammatory response in young rats. Neuroscience Letters, 2015, 588, 24-28.	2.1	8
93	Characterization of gene expression changes in human neural stem cells and endothelial cells modeling a neurovascular microenvironment. Brain Research Bulletin, 2020, 158, 9-19.	3.0	8
94	Dose-dependent effect of carbamazepine on weanling rats submitted to subcutaneous injection of tityustoxin. Neuroscience Letters, 2008, 433, 170-173.	2.1	7
95	Carbamazepine is effective in the treatment of 21-day-old Wistar rats injected with Tityus serrulatus crude venom. Brain Research, 2008, 1239, 256-260.	2.2	6
96	Physical therapy exerts sub-additive and suppressive effects on intracerebral neural stem cell implantation in a rat model of stroke. Journal of Cerebral Blood Flow and Metabolism, 2022, 42, 826-843.	4.3	6
97	Expression of the Vesicular Acetylcholine Transporter, Proteins Involved in Exocytosis, and Functional Calcium Signaling in Varicosities and Soma of a Murine Septal Cell Line. Journal of Neurochemistry, 1999, 73, 1881-1893.	3.9	5
98	Exocytotic Release of [3H]-Acetylcholine by Ouabain Involves Intracellular Ca <sup>2+</sup> Stores in Rat Brain Cortical Slices. Cellular and Molecular Neurobiology, 2003, 23, 917-927.	3.3	5
99	Striatal Acetylcholine Helps to Preserve Functional Outcomes in a Mouse Model of Stroke. ASN Neuro, 2020, 12, 175909142096161.	2.7	5
100	Protective effect of a spider recombinant toxin in a murine model of Huntington's disease. Neuropeptides, 2021, 85, 102111.	2.2	5
101	Liver Cell Labelling with MRI Contrast Agents. Methods in Molecular Biology, 2009, 481, 207-219.	0.9	5
102	Translocation of protein kinase C by halothane in cholinergic cells. Brain Research Bulletin, 2002, 58, 55-59.	3.0	4
103	Quantification of the Extracellular Matrix Molecule Thrombospondin 1 and Its Pericellular Association in the Brain Using a Semiautomated Computerized Approach. Journal of Histochemistry and Cytochemistry, 2018, 66, 643-662.	2.5	3
104	Neurochemical abnormalities in the hippocampus of male rats displaying audiogenic seizures, a genetic model of epilepsy. Neuroscience Letters, 2021, 761, 136123.	2.1	3
105	Neuroprotective effect of CTK 01512 recombinant toxin at the spinal cord in a model of Huntington's disease. Experimental Physiology, 2022, , .	2.0	3
106	Response to Cardiac regeneration validated. Nature Biotechnology, 2015, 33, 587-587.	17.5	2
107	From Molecules to Man: The Dawn of a Vitreous Man. Methods in Molecular Biology, 2011, 711, 3-14.	0.9	2
108	A conceptual framework for interdisciplinary curriculum design: a case study in neuroscience. Journal of Undergraduate Neuroscience Education: JUNE: A Publication of FUN, Faculty for Undergraduate Neuroscience, 2011, 10, A71-9.	0.0	2

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109	Alamandine Induces Neuroprotection in Ischemic Stroke Models. <i>Current Medicinal Chemistry</i> , 2022, 29, 3483-3498.	2.4	2
110	Tracking Transplanted Cells by MRI – Methods and Protocols. <i>Methods in Molecular Biology</i> , 2011, 771, 717-732.	0.9	1
111	Brain repair how stem cells are changing neurology. <i>Bulletin De La Soci�t� Historique Et Arch�ologique Du P�rigord</i> , 2008, , 217-57.	0.1	1
112	Correction of image instability in confocal microscopy using image realignment. <i>Cell Calcium</i> , 2004, 35, 79-85.	2.4	0
113	Computerized invasive measurement of time-dependent intraocular pressure. <i>Brazilian Journal of Medical and Biological Research</i> , 2006, 39, 1249-1253.	1.5	0
114	Cellular Therapies and Cell Tracking. , 0, , 347-367.		0
115	Gaining Mechanistic Insights into Cell Therapy Using Magnetic Resonance Imaging. <i>Current Stem Cell Reports</i> , 2016, 2, 221-227.	1.6	0
116	Extrapial Hippocampal Resection in Anterior Temporal Lobectomy: Technical Description and Clinical Outcomes in a 62-Patient Case Series. <i>Operative Neurosurgery</i> , 2021, 21, 312-323.	0.8	0
117	Assessing the effects of a contrast agent on the ability of neural stem cell grafts to recover behavioural impairments in a rat model of stroke: A 1 year serial MRI study. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2005, 25, S497-S497.	4.3	0