

Martina Piccoli

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

2,262
citations

218381

26
h-index

214527

47
g-index

52
all docs

52
docs citations

52
times ranked

3243
citing authors

#	ARTICLE	IF	CITATIONS
1	Amniotic Fluid and Bone Marrow Derived Mesenchymal Stem Cells Can be Converted to Smooth Muscle Cells in the Cryo-Injured Rat Bladder and Prevent Compensatory Hypertrophy of Surviving Smooth Muscle Cells. <i>Journal of Urology</i> , 2007, 177, 369-376.	0.2	193
2	Challenges and Strategies for Improving the Regenerative Effects of Mesenchymal Stromal Cell-Based Therapies. <i>International Journal of Molecular Sciences</i> , 2017, 18, 2087.	1.8	178
3	Amniotic fluid stem cells improve survival and enhance repair of damaged intestine in necrotising enterocolitis via a COX-2 dependent mechanism. <i>Gut</i> , 2014, 63, 300-309.	6.1	155
4	Human amniotic fluid-derived stem cells are rejected after transplantation in the myocardium of normal, ischemic, immuno-suppressed or immuno-deficient rat. <i>Journal of Molecular and Cellular Cardiology</i> , 2007, 42, 746-759.	0.9	144
5	Human Amniotic Fluid Stem Cell Preconditioning Improves Their Regenerative Potential. <i>Stem Cells and Development</i> , 2012, 21, 1911-1923.	1.1	112
6	Extracellular Matrix and Colorectal Cancer: How Surrounding Microenvironment Affects Cancer Cell Behavior?. <i>Journal of Cellular Physiology</i> , 2017, 232, 967-975.	2.0	108
7	First Characterization of Human Amniotic Fluid Stem Cell Extracellular Vesicles as a Powerful Paracrine Tool Endowed with Regenerative Potential. <i>Stem Cells Translational Medicine</i> , 2017, 6, 1340-1355.	1.6	104
8	In Vitro and In Vivo Cardiomyogenic Differentiation of Amniotic Fluid Stem Cells. <i>Stem Cell Reviews and Reports</i> , 2011, 7, 364-380.	5.6	82
9	The influence of heart valve leaflet matrix characteristics on the interaction between human mesenchymal stem cells and decellularized scaffolds. <i>Biomaterials</i> , 2009, 30, 4104-4116.	5.7	79
10	Rosiglitazone modifies the adipogenic potential of human muscle satellite cells. <i>Diabetologia</i> , 2006, 49, 1962-1973.	2.9	69
11	Different Cardiovascular Potential of Adult- and Fetal-Type Mesenchymal Stem Cells in a Rat Model of Heart Cryoinjury. <i>Cell Transplantation</i> , 2008, 17, 679-694.	1.2	63
12	Satellite Cells Delivered by Micro-Patterned Scaffolds: A New Strategy for Cell Transplantation in Muscle Diseases. <i>Tissue Engineering</i> , 2007, 13, 253-262.	4.9	62
13	Improvement of diaphragmatic performance through orthotopic application of decellularized extracellular matrix patch. <i>Biomaterials</i> , 2016, 74, 245-255.	5.7	62
14	Amniotic Fluid Stem Cells Restore the Muscle Cell Niche in a <i>HSA^{Cre}, Smn^{F7/F7}</i> Mouse Model. <i>Stem Cells</i> , 2012, 30, 1675-1684.	1.4	61
15	Decellularized colorectal cancer matrix as bioactive microenvironment for in vitro 3D cancer research. <i>Journal of Cellular Physiology</i> , 2018, 233, 5937-5948.	2.0	61
16	Muscle Differentiation and Myotubes Alignment Is Influenced by Micropatterned Surfaces and Exogenous Electrical Stimulation. <i>Tissue Engineering - Part A</i> , 2009, 15, 2447-2457.	1.6	55
17	Increased adipogenic conversion of muscle satellite cells in obese Zucker rats. <i>International Journal of Obesity</i> , 2010, 34, 1319-1327.	1.6	54
18	High Transduction Efficiency of Human Amniotic Fluid Stem Cells Mediated by Adenovirus Vectors. <i>Stem Cells and Development</i> , 2008, 17, 953-962.	1.1	45

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19	Patient-Derived Scaffolds of Colorectal Cancer Metastases as an Organotypic 3D Model of the Liver Metastatic Microenvironment. <i>Cancers</i> , 2020, 12, 364.	1.7	44
20	Efficient Delivery of Human Single Fiber-Derived Muscle Precursor Cells via Biocompatible Scaffold. <i>Cell Transplantation</i> , 2008, 17, 577-584.	1.2	42
21	Hypoxia Increases Mouse Satellite Cell Clone Proliferation Maintaining both In Vitro and In Vivo Heterogeneity and Myogenic Potential. <i>PLoS ONE</i> , 2012, 7, e49860.	1.1	36
22	Extracellular Matrix-Derived Hydrogels as Biomaterial for Different Skeletal Muscle Tissue Replacements. <i>Materials</i> , 2020, 13, 2483.	1.3	34
23	Mesenchymal Stromal Cells Can Be Derived From Bone Marrow CD133 ⁺ Cells: Implications for Therapy. <i>Stem Cells and Development</i> , 2009, 18, 497-510.	1.1	33
24	Recellularized Colorectal Cancer Patient-Derived Scaffolds as In Vitro Pre-Clinical 3D Model for Drug Screening. <i>Cancers</i> , 2020, 12, 681.	1.7	32
25	Endothelial properties of third-trimester amniotic fluid stem cells cultured in hypoxia. <i>Stem Cell Research and Therapy</i> , 2015, 6, 209.	2.4	31
26	Isolation of Mesenchymal Stem Cells From Human Vermiform Appendix. <i>Journal of Surgical Research</i> , 2006, 135, 85-91.	0.8	28
27	Generation of a Functioning and Self-Renewing Diaphragmatic Muscle Construct. <i>Stem Cells Translational Medicine</i> , 2019, 8, 858-869.	1.6	27
28	Stem cells from fetal membranes and amniotic fluid: markers for cell isolation and therapy. <i>Cell and Tissue Banking</i> , 2014, 15, 199-211.	0.5	24
29	Decellularized Diaphragmatic Muscle Drives a Constructive Angiogenic Response In Vivo. <i>International Journal of Molecular Sciences</i> , 2018, 19, 1319.	1.8	24
30	Allogenic tissue-specific decellularized scaffolds promote long-term muscle innervation and functional recovery in a surgical diaphragmatic hernia model. <i>Acta Biomaterialia</i> , 2019, 89, 115-125.	4.1	24
31	Isolation of c-Kit ⁺ Human Amniotic Fluid Stem Cells from Second Trimester. <i>Methods in Molecular Biology</i> , 2013, 1035, 191-198.	0.4	23
32	Porcine Decellularized Diaphragm Hydrogel: A New Option for Skeletal Muscle Malformations. <i>Biomedicines</i> , 2021, 9, 709.	1.4	18
33	Young at Heart: Combining Strategies to Rejuvenate Endogenous Mechanisms of Cardiac Repair. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 447.	2.0	17
34	Diverging Concepts and Novel Perspectives in Regenerative Medicine. <i>International Journal of Molecular Sciences</i> , 2017, 18, 1021.	1.8	16
35	Muscle functional recovery is driven by extracellular vesicles combined with muscle extracellular matrix in a volumetric muscle loss murine model. <i>Biomaterials</i> , 2021, 269, 120653.	5.7	15
36	A finite element analysis of diaphragmatic hernia repair on an animal model. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018, 86, 33-42.	1.5	13

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37	In Utero Transplantation of Expanded Autologous Amniotic Fluid Stem Cells Results in Long-Term Hematopoietic Engraftment. <i>Stem Cells</i> , 2019, 37, 1176-1188.	1.4	13
38	Mouse Skeletal Muscle Decellularization. <i>Methods in Molecular Biology</i> , 2017, 1577, 87-93.	0.4	12
39	First steps to define murine amniotic fluid stem cell microenvironment. <i>Scientific Reports</i> , 2016, 6, 37080.	1.6	11
40	Isolation and Expansion of Muscle Precursor Cells from Human Skeletal Muscle Biopsies. <i>Methods in Molecular Biology</i> , 2016, 1516, 195-204.	0.4	10
41	A Novel Bioreactor for the Mechanical Stimulation of Clinically Relevant Scaffolds for Muscle Tissue Engineering Purposes. <i>Processes</i> , 2021, 9, 474.	1.3	10
42	Reprogramming of mouse amniotic fluid cells using a PiggyBac transposon system. <i>Stem Cell Research</i> , 2015, 15, 510-513.	0.3	7
43	Single-cell qPCR analysis of murine embryonic stem cells cultured on different substrates highlights heterogeneous expression of stem cell markers. <i>Biology of the Cell</i> , 2013, 105, 549-560.	0.7	6
44	Fetal Stem Cells and Skeletal Muscle Regeneration: A Therapeutic Approach. <i>Frontiers in Aging Neuroscience</i> , 2014, 6, 222.	1.7	6
45	Sources of Mesenchymal Stem Cells: Current and Future Clinical Use. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2012, 130, 267-286.	0.6	5
46	Customized bioreactor enables the production of 3D diaphragmatic constructs influencing matrix remodeling and fibroblast overgrowth. <i>Npj Regenerative Medicine</i> , 2022, 7, 25.	2.5	5
47	Design of a stirred multiwell bioreactor for expansion of CD34 ⁺ umbilical cord blood cells in hypoxic conditions. <i>Biotechnology Progress</i> , 2011, 27, 1154-1162.	1.3	4
48	The Production of Pluripotent Stem Cells from Mouse Amniotic Fluid Cells Using a Transposon System. <i>Journal of Visualized Experiments</i> , 2017, , .	0.2	2
49	3D in vitro Models of Pathological Skeletal Muscle: Which Cells and Scaffolds to Elect?. <i>Frontiers in Bioengineering and Biotechnology</i> , 0, 10, .	2.0	2
50	Hematopoietic Engraftment of Amniotic Fluid Stem Cells Following in Utero Transplantation. <i>Blood</i> , 2014, 124, 3809-3809.	0.6	1
51	The Amniotic Fluid Stem Cell Secretome. , 2018, , 21-37.		0
52	Patient-derived ECM-scaffolds of colorectal cancer and liver metastases as organotypic 3D model of liver metastatic colonization. <i>Journal of Hepatology</i> , 2020, 73, S642-S643.	1.8	0