

Raquel M. Gonçalves

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

3,766
citations

159358

30
h-index

133063

59
g-index

61
all docs

61
docs citations

61
times ranked

6084
citing authors

#	ARTICLE	IF	CITATIONS
1	Fibrotic alterations in human annulus fibrosus correlate with progression of intervertebral disc herniation. <i>Arthritis Research and Therapy</i> , 2022, 24, 25.	1.6	9
2	Harnessing chitosan and poly-(β -glutamic acid)-based biomaterials towards cancer immunotherapy. <i>Materials Today Advances</i> , 2022, 15, 100252.	2.5	5
3	Terminal complement complex formation is associated with intervertebral disc degeneration. <i>European Spine Journal</i> , 2021, 30, 217-226.	1.0	11
4	Immunomodulatory potential of chitosan-based materials for cancer therapy: a systematic review of <i>in vitro</i> and <i>in vivo</i> and clinical studies. <i>Biomaterials Science</i> , 2021, 9, 3209-3227.	2.6	22
5	Development of a standardized histopathology scoring system for intervertebral disc degeneration in rat models: An initiative of the ORS spine section. <i>JOR Spine</i> , 2021, 4, e1150.	1.5	49
6	Interleukin- 1β and cathepsin D modulate formation of the terminal complement complex in cultured human disc tissue. <i>European Spine Journal</i> , 2021, 30, 2247-2256.	1.0	9
7	Therapeutic Strategies for IVD Regeneration through Hyaluronan/SDF-1-Based Hydrogel and Intravenous Administration of MSCs. <i>International Journal of Molecular Sciences</i> , 2021, 22, 9609.	1.8	7
8	Interleukin- 1β More Than Mechanical Loading Induces a Degenerative Phenotype in Human Annulus Fibrosus Cells, Partially Impaired by Anti-Proteolytic Activity of Mesenchymal Stem Cell Secretome. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 802789.	2.0	4
9	Chitosan/ β -PGA nanoparticles-based immunotherapy as adjuvant to radiotherapy in breast cancer. <i>Biomaterials</i> , 2020, 257, 120218.	5.7	60
10	Decellularized Scaffolds for Intervertebral Disc Regeneration. <i>Trends in Biotechnology</i> , 2020, 38, 947-951.	4.9	25
11	Modulation of the In Vivo Inflammatory Response by Pro- Versus Anti-Inflammatory Intervertebral Disc Treatments. <i>International Journal of Molecular Sciences</i> , 2020, 21, 1730.	1.8	15
12	Articular Repair/Regeneration in Healthy and Inflammatory Conditions: From Advanced In Vitro to In Vivo Models. <i>Advanced Functional Materials</i> , 2020, 30, 1909523.	7.8	7
13	Effect of surface chemistry on hMSC growth under xeno-free conditions. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 189, 110836.	2.5	6
14	Macrophages Down-Regulate Gene Expression of Intervertebral Disc Degenerative Markers Under a Pro-inflammatory Microenvironment. <i>Frontiers in Immunology</i> , 2019, 10, 1508.	2.2	50
15	Genetically Engineered-MSC Therapies for Non-unions, Delayed Unions and Critical-size Bone Defects. <i>International Journal of Molecular Sciences</i> , 2019, 20, 3430.	1.8	32
16	GEORG SCHMORL PRIZE OF THE GERMAN SPINE SOCIETY (DWG) 2018: combined inflammatory and mechanical stress weakens the annulus fibrosus: evidences from a loaded bovine AF organ culture. <i>European Spine Journal</i> , 2019, 28, 922-933.	1.0	14
17	Chitosan/poly(β -glutamic acid) nanoparticles incorporating IFN- β for immune response modulation in the context of colorectal cancer. <i>Biomaterials Science</i> , 2019, 7, 3386-3403.	2.6	32
18	Age-Related Phenotypic Alterations in Cells Isolated From Human Degenerated Intervertebral Discs With Contained Hernias. <i>Spine</i> , 2018, 43, E274-E284.	1.0	12

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19	Optimization of the use of a pharmaceutical grade xeno-free medium for in vitro expansion of human mesenchymal stem/stromal cells. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018, 12, e1785-e1795.	1.3	13
20	Immunomodulation of Human Mesenchymal Stem/Stromal Cells in Intervertebral Disc Degeneration. <i>Spine</i> , 2018, 43, E673-E682.	1.0	49
21	The inflammatory response in the regression of lumbar disc herniation. <i>Arthritis Research and Therapy</i> , 2018, 20, 251.	1.6	130
22	Mesenchymal Stromal Cell Secretome: Influencing Therapeutic Potential by Cellular Pre-conditioning. <i>Frontiers in Immunology</i> , 2018, 9, 2837.	2.2	350
23	Extracellular vesicles: intelligent delivery strategies for therapeutic applications. <i>Journal of Controlled Release</i> , 2018, 289, 56-69.	4.8	85
24	Interferon-Gamma at the Crossroads of Tumor Immune Surveillance or Evasion. <i>Frontiers in Immunology</i> , 2018, 9, 847.	2.2	812
25	Stromal Cell Derived Factor-1-Mediated Migration of Mesenchymal Stem Cells Enhances Collagen Type II Expression in Intervertebral Disc. <i>Tissue Engineering - Part A</i> , 2018, 24, 1818-1830.	1.6	10
26	Joint analysis of IVD herniation and degeneration by rat caudal needle puncture model. <i>Journal of Orthopaedic Research</i> , 2017, 35, 258-268.	1.2	31
27	Pro-inflammatory chitosan/poly(L-glutamic acid) nanoparticles modulate human antigen-presenting cells phenotype and revert their pro-invasive capacity. <i>Acta Biomaterialia</i> , 2017, 63, 96-109.	4.1	45
28	Adsorbed Fibrinogen stimulates TLR-4 on monocytes and induces BMP-2 expression. <i>Acta Biomaterialia</i> , 2017, 49, 296-305.	4.1	22
29	Systemic Delivery of Bone Marrow Mesenchymal Stem Cells for In Situ Intervertebral Disc Regeneration. <i>Stem Cells Translational Medicine</i> , 2017, 6, 1029-1039.	1.6	31
30	Poly(L-glutamic acid) and poly(L-glutamic acid)-based nanocomplexes enhance type II collagen production in intervertebral disc. <i>Journal of Materials Science: Materials in Medicine</i> , 2017, 28, 6.	1.7	20
31	Extracellular Vesicles: Immunomodulatory messengers in the context of tissue repair/regeneration. <i>European Journal of Pharmaceutical Sciences</i> , 2017, 98, 86-95.	1.9	87
32	Anti-inflammatory Chitosan/Poly-L-glutamic acid nanoparticles control inflammation while remodeling extracellular matrix in degenerated intervertebral disc. <i>Acta Biomaterialia</i> , 2016, 42, 168-179.	4.1	68
33	Fibrinogen scaffolds with immunomodulatory properties promote in vivo bone regeneration. <i>Biomaterials</i> , 2016, 111, 163-178.	5.7	54
34	Mesenchymal Stem/Stromal Cells seeded on cartilaginous endplates promote Intervertebral Disc Regeneration through Extracellular Matrix Remodeling. <i>Scientific Reports</i> , 2016, 6, 33836.	1.6	37
35	A Degenerative/Proinflammatory Intervertebral Disc Organ Culture: An Ex Vivo Model for Anti-inflammatory Drug and Cell Therapy. <i>Tissue Engineering - Part C: Methods</i> , 2016, 22, 8-19.	1.1	35
36	Integrated Analysis of Biological Samples by Imaging Flow Cytometry. <i>Microscopy and Microanalysis</i> , 2015, 21, 95-96.	0.2	1

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37	An interferon- β -delivery system based on chitosan/poly(β -glutamic acid) polyelectrolyte complexes modulates macrophage-derived stimulation of cancer cell invasion in vitro. <i>Acta Biomaterialia</i> , 2015, 23, 157-171.	4.1	45
38	Improvement of Bovine Nucleus Pulposus Cells Isolation Leads to Identification of Three Phenotypically Distinct Cell Subpopulations. <i>Tissue Engineering - Part A</i> , 2015, 21, 2216-2227.	1.6	13
39	Poly(β -Glutamic Acid) as an Exogenous Promoter of Chondrogenic Differentiation of Human Mesenchymal Stem/Stromal Cells. <i>Tissue Engineering - Part A</i> , 2015, 21, 1869-1885.	1.6	11
40	Macrophage response to chitosan/poly-(β -glutamic acid) nanoparticles carrying an anti-inflammatory drug. <i>Journal of Materials Science: Materials in Medicine</i> , 2015, 26, 167.	1.7	36
41	Inflammation in intervertebral disc degeneration and regeneration. <i>Journal of the Royal Society Interface</i> , 2015, 12, 20141191.	1.5	291
42	Effect of Cell Density on Mesenchymal Stem Cells Aggregation in RGD- α Alginate 3D Matrices under Osteoinductive Conditions. <i>Macromolecular Bioscience</i> , 2014, 14, 759-771.	2.1	52
43	The effect of hyaluronan-based delivery of stromal cell-derived factor-1 on the recruitment of MSCs in degenerating intervertebral discs. <i>Biomaterials</i> , 2014, 35, 8144-8153.	5.7	78
44	A Multicompartment Holder for Spinner Flasks Improves Expansion and Osteogenic Differentiation of Mesenchymal Stem Cells in Three-Dimensional Scaffolds. <i>Tissue Engineering - Part C: Methods</i> , 2014, 20, 984-993.	1.1	23
45	Macrophages stimulate gastric and colorectal cancer invasion through EGFR Y1086, c-Src, Erk1/2 and Akt phosphorylation and smallGTPase activity. <i>Oncogene</i> , 2014, 33, 2123-2133.	2.6	103
46	Adsorbed fibrinogen leads to improved bone regeneration and correlates with differences in the systemic immune response. <i>Acta Biomaterialia</i> , 2013, 9, 7209-7217.	4.1	46
47	Enhanced mesenchymal stromal cell recruitment via natural killer cells by incorporation of inflammatory signals in biomaterials. <i>Journal of the Royal Society Interface</i> , 2012, 9, 261-271.	1.5	53
48	The effect of adsorbed fibronectin and osteopontin on macrophage adhesion and morphology on hydrophilic and hydrophobic model surfaces. <i>Acta Biomaterialia</i> , 2012, 8, 3669-3677.	4.1	21
49	Biosynthesis of highly pure poly- β -glutamic acid for biomedical applications. <i>Journal of Materials Science: Materials in Medicine</i> , 2012, 23, 1583-1591.	1.7	32
50	Mesenchymal stem cell recruitment by stromal derived factor-1-delivery systems based on chitosan/poly(β -glutamic acid) polyelectrolyte complexes. , 2012, 23, 249-261.		46
51	Layer-by-Layer Self-Assembly of Chitosan and Poly(β -glutamic acid) into Polyelectrolyte Complexes. <i>Biomacromolecules</i> , 2011, 12, 4183-4195.	2.6	107
52	Bioactivity of immobilized EGF on self-assembled monolayers: Optimization of the immobilization process. <i>Journal of Biomedical Materials Research - Part A</i> , 2010, 94A, 576-585.	2.1	14
53	Dynamic cell-cell interactions between cord blood haematopoietic progenitors and the cellular niche are essential for the expansion of CD34 ⁺ , CD34 ⁺ CD38 ⁺ and early lymphoid CD7 ⁺ cells. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2010, 4, 149-158.	1.3	37
54	Differences amid bone marrow and cord blood hematopoietic stem/progenitor cell division kinetics. <i>Journal of Cellular Physiology</i> , 2009, 220, 102-111.	2.0	43

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55	Induction of notch signaling by immobilization of jagged-1 on self-assembled monolayers. <i>Biomaterials</i> , 2009, 30, 6879-6887.	5.7	29
56	Kinetic Analysis of the ex vivo Expansion of Human Hematopoietic Stem/Progenitor Cells. <i>Biotechnology Letters</i> , 2006, 28, 335-340.	1.1	8
57	A Stro-1+ human universal stromal feeder layer to expand/maintain human bone marrow hematopoietic stem/progenitor cells in a serum-free culture system. <i>Experimental Hematology</i> , 2006, 34, 1353-1359.	0.2	60
58	A human stromal-based serum-free culture system supports the ex vivo expansion/maintenance of bone marrow and cord blood hematopoietic stem/progenitor cells. <i>Experimental Hematology</i> , 2005, 33, 828-835.	0.2	109
59	Modelling of ex vivo expansion/maintenance of hematopoietic stem cells. <i>Bioprocess and Biosystems Engineering</i> , 2003, 25, 365-369.	1.7	22
60	Hematopoietic stem cells: from the bone to the bioreactor. <i>Trends in Biotechnology</i> , 2003, 21, 233-240.	4.9	119