

Raquel M. Gonçalves

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

3,766
citations

159585

30
h-index

133252

59
g-index

61
all docs

61
docs citations

61
times ranked

6084
citing authors

#	ARTICLE	IF	CITATIONS
1	Interferon-Gamma at the Crossroads of Tumor Immune Surveillance or Evasion. <i>Frontiers in Immunology</i> , 2018, 9, 847.	4.8	812
2	Mesenchymal Stromal Cell Secretome: Influencing Therapeutic Potential by Cellular Pre-conditioning. <i>Frontiers in Immunology</i> , 2018, 9, 2837.	4.8	350
3	Inflammation in intervertebral disc degeneration and regeneration. <i>Journal of the Royal Society Interface</i> , 2015, 12, 20141191.	3.4	291
4	The inflammatory response in the regression of lumbar disc herniation. <i>Arthritis Research and Therapy</i> , 2018, 20, 251.	3.5	130
5	Hematopoietic stem cells: from the bone to the bioreactor. <i>Trends in Biotechnology</i> , 2003, 21, 233-240.	9.3	119
6	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.	0.4	109
7	Layer-by-Layer Self-Assembly of Chitosan and Poly(β -glutamic acid) into Polyelectrolyte Complexes. <i>Biomacromolecules</i> , 2011, 12, 4183-4195.	5.4	107
8	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.	5.9	103
9	Extracellular Vesicles: Immunomodulatory messengers in the context of tissue repair/regeneration. <i>European Journal of Pharmaceutical Sciences</i> , 2017, 98, 86-95.	4.0	87
10	Extracellular vesicles: intelligent delivery strategies for therapeutic applications. <i>Journal of Controlled Release</i> , 2018, 289, 56-69.	9.9	85
11	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.	11.4	78
12	Anti-inflammatory Chitosan/Poly- β -glutamic acid nanoparticles control inflammation while remodeling extracellular matrix in degenerated intervertebral disc. <i>Acta Biomaterialia</i> , 2016, 42, 168-179.	8.3	68
13	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.	0.4	60
14	Chitosan/ β -PGA nanoparticles-based immunotherapy as adjuvant to radiotherapy in breast cancer. <i>Biomaterials</i> , 2020, 257, 120218.	11.4	60
15	Fibrinogen scaffolds with immunomodulatory properties promote in vivo bone regeneration. <i>Biomaterials</i> , 2016, 111, 163-178.	11.4	54
16	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.	3.4	53
17	Effect of Cell Density on Mesenchymal Stem Cells Aggregation in RGD- β -Alginate 3D Matrices under Osteoinductive Conditions. <i>Macromolecular Bioscience</i> , 2014, 14, 759-771.	4.1	52
18	Macrophages Down-Regulate Gene Expression of Intervertebral Disc Degenerative Markers Under a Pro-inflammatory Microenvironment. <i>Frontiers in Immunology</i> , 2019, 10, 1508.	4.8	50

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19	Immunomodulation of Human Mesenchymal Stem/Stromal Cells in Intervertebral Disc Degeneration. <i>Spine</i> , 2018, 43, E673-E682.	2.0	49
20	Development of a standardized histopathology scoring system for intervertebral disc degeneration in rat models: An initiative of the <sc>ORS</sc> spine section. <i>JOR Spine</i> , 2021, 4, e1150.	3.2	49
21	Adsorbed fibrinogen leads to improved bone regeneration and correlates with differences in the systemic immune response. <i>Acta Biomaterialia</i> , 2013, 9, 7209-7217.	8.3	46
22	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
23	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.	8.3	45
24	Pro-inflammatory chitosan/poly(β -glutamic acid) nanoparticles modulate human antigen-presenting cells phenotype and revert their pro-invasive capacity. <i>Acta Biomaterialia</i> , 2017, 63, 96-109.	8.3	45
25	Differences amid bone marrow and cord blood hematopoietic stem/progenitor cell division kinetics. <i>Journal of Cellular Physiology</i> , 2009, 220, 102-111.	4.1	43
26	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.	2.7	37
27	Mesenchymal Stem/Stromal Cells seeded on cartilaginous endplates promote Intervertebral Disc Regeneration through Extracellular Matrix Remodeling. <i>Scientific Reports</i> , 2016, 6, 33836.	3.3	37
28	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.	3.6	36
29	A Degenerative/Proinflammatory Intervertebral Disc Organ Culture: An <i>Ex Vivo</i> Model for Anti-inflammatory Drug and Cell Therapy. <i>Tissue Engineering - Part C: Methods</i> , 2016, 22, 8-19.	2.1	35
30	Biosynthesis of highly pure poly- β -glutamic acid for biomedical applications. <i>Journal of Materials Science: Materials in Medicine</i> , 2012, 23, 1583-1591.	3.6	32
31	Genetically Engineered-MSCTherapies for Non-unions, Delayed Unions and Critical-size Bone Defects. <i>International Journal of Molecular Sciences</i> , 2019, 20, 3430.	4.1	32
32	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.	5.4	32
33	Joint analysis of IVD herniation and degeneration by rat caudal needle puncture model. <i>Journal of Orthopaedic Research</i> , 2017, 35, 258-268.	2.3	31
34	Systemic Delivery of Bone Marrow Mesenchymal Stem Cells for In Situ Intervertebral Disc Regeneration. <i>Stem Cells Translational Medicine</i> , 2017, 6, 1029-1039.	3.3	31
35	Induction of notch signaling by immobilization of jagged-1 on self-assembled monolayers. <i>Biomaterials</i> , 2009, 30, 6879-6887.	11.4	29
36	Decellularized Scaffolds for Intervertebral Disc Regeneration. <i>Trends in Biotechnology</i> , 2020, 38, 947-951.	9.3	25

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37	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.	2.1	23
38	Modelling of ex vivo expansion/maintenance of hematopoietic stem cells. <i>Bioprocess and Biosystems Engineering</i> , 2003, 25, 365-369.	3.4	22
39	Adsorbed Fibrinogen stimulates TLR-4 on monocytes and induces BMP-2 expression. <i>Acta Biomaterialia</i> , 2017, 49, 296-305.	8.3	22
40	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.	5.4	22
41	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.	8.3	21
42	Poly(β -glutamic acid) and poly(β -glutamic acid)-based nanocomplexes enhance type II collagen production in intervertebral disc. <i>Journal of Materials Science: Materials in Medicine</i> , 2017, 28, 6.	3.6	20
43	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.	4.1	15
44	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.	4.0	14
45	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.	2.2	14
46	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.	3.1	13
47	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.	2.7	13
48	Age-Related Phenotypic Alterations in Cells Isolated From Human Degenerated Intervertebral Discs With Contained Hernias. <i>Spine</i> , 2018, 43, E274-E284.	2.0	12
49	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.	3.1	11
50	Terminal complement complex formation is associated with intervertebral disc degeneration. <i>European Spine Journal</i> , 2021, 30, 217-226.	2.2	11
51	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.	3.1	10
52	Interleukin-1 β and cathepsin D modulate formation of the terminal complement complex in cultured human disc tissue. <i>European Spine Journal</i> , 2021, 30, 2247-2256.	2.2	9
53	Fibrotic alterations in human annulus fibrosus correlate with progression of intervertebral disc herniation. <i>Arthritis Research and Therapy</i> , 2022, 24, 25.	3.5	9
54	Kinetic Analysis of the ex vivo Expansion of Human Hematopoietic Stem/Progenitor Cells. <i>Biotechnology Letters</i> , 2006, 28, 335-340.	2.2	8

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55	Articular Repair/Regeneration in Healthy and Inflammatory Conditions: From Advanced In Vitro to In Vivo Models. <i>Advanced Functional Materials</i> , 2020, 30, 1909523.	14.9	7
56	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.	4.1	7
57	Effect of surface chemistry on hMSC growth under xeno-free conditions. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 189, 110836.	5.0	6
58	Harnessing chitosan and poly-(β -glutamic acid)-based biomaterials towards cancer immunotherapy. <i>Materials Today Advances</i> , 2022, 15, 100252.	5.2	5
59	Interleukin-1 β 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.	4.1	4
60	Integrated Analysis of Biological Samples by Imaging Flow Cytometry. <i>Microscopy and Microanalysis</i> , 2015, 21, 95-96.	0.4	1