

# Raquel M. Goncalves

## List of Publications by Citations

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59  
papers

2,395  
citations

27  
h-index

48  
g-index

61  
ext. papers

3,116  
ext. citations

6.6  
avg, IF

5.19  
L-index

#	Paper	IF	Citations
59	Interferon-Gamma at the Crossroads of Tumor Immune Surveillance or Evasion. <i>Frontiers in Immunology</i> , <b>2018</b> , 9, 847	8.4	411
58	Mesenchymal Stromal Cell Secretome: Influencing Therapeutic Potential by Cellular Pre-conditioning. <i>Frontiers in Immunology</i> , <b>2018</b> , 9, 2837	8.4	203
57	Inflammation in intervertebral disc degeneration and regeneration. <i>Journal of the Royal Society Interface</i> , <b>2015</b> , 12, 20141191	4.1	169
56	Hematopoietic stem cells: from the bone to the bioreactor. <i>Trends in Biotechnology</i> , <b>2003</b> , 21, 233-40	15.1	99
55	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> , <b>2005</b> , 33, 828-35	3.1	96
54	Layer-by-layer self-assembly of chitosan and poly( $\gamma$ -glutamic acid) into polyelectrolyte complexes. <i>Biomacromolecules</i> , <b>2011</b> , 12, 4183-95	6.9	92
53	Macrophages stimulate gastric and colorectal cancer invasion through EGFR Y(1086), c-Src, Erk1/2 and Akt phosphorylation and smallGTPase activity. <i>Oncogene</i> , <b>2014</b> , 33, 2123-33	9.2	77
52	Extracellular Vesicles: Immunomodulatory messengers in the context of tissue repair/regeneration. <i>European Journal of Pharmaceutical Sciences</i> , <b>2017</b> , 98, 86-95	5.1	63
51	The effect of hyaluronan-based delivery of stromal cell-derived factor-1 on the recruitment of MSCs in degenerating intervertebral discs. <i>Biomaterials</i> , <b>2014</b> , 35, 8144-53	15.6	59
50	Extracellular vesicles: intelligent delivery strategies for therapeutic applications. <i>Journal of Controlled Release</i> , <b>2018</b> , 289, 56-69	11.7	58
49	The inflammatory response in the regression of lumbar disc herniation. <i>Arthritis Research and Therapy</i> , <b>2018</b> , 20, 251	5.7	56
48	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> , <b>2006</b> , 34, 1353-9	3.1	54
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> , <b>2012</b> , 9, 261-71	4.1	51
46	Anti-inflammatory Chitosan/Poly- $\gamma$ -glutamic acid nanoparticles control inflammation while remodeling extracellular matrix in degenerated intervertebral disc. <i>Acta Biomaterialia</i> , <b>2016</b> , 42, 168-179	10.8	44
45	Effect of cell density on mesenchymal stem cells aggregation in RGD-alginate 3D matrices under osteoinductive conditions. <i>Macromolecular Bioscience</i> , <b>2014</b> , 14, 759-71	5.5	43
44	Adsorbed fibrinogen leads to improved bone regeneration and correlates with differences in the systemic immune response. <i>Acta Biomaterialia</i> , <b>2013</b> , 9, 7209-17	10.8	43
43	Fibrinogen scaffolds with immunomodulatory properties promote in vivo bone regeneration. <i>Biomaterials</i> , <b>2016</b> , 111, 163-178	15.6	43

42	Mesenchymal stem cell recruitment by stromal derived factor-1-delivery systems based on chitosan/poly( $\gamma$ -glutamic acid) polyelectrolyte complexes. <i>European Cells and Materials</i> , <b>2012</b> , 23, 249-60; discussion 260-1	4.3	38
41	An interferon- $\beta$ -delivery system based on chitosan/poly( $\gamma$ -glutamic acid) polyelectrolyte complexes modulates macrophage-derived stimulation of cancer cell invasion in vitro. <i>Acta Biomaterialia</i> , <b>2015</b> , 23, 157-171	10.8	34
40	Differences amid bone marrow and cord blood hematopoietic stem/progenitor cell division kinetics. <i>Journal of Cellular Physiology</i> , <b>2009</b> , 220, 102-11	7	34
39	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> , <b>2010</b> , 4, 149-58	4.4	34
38	Immunomodulation of Human Mesenchymal Stem/Stromal Cells in Intervertebral Disc Degeneration: Insights From a Proinflammatory/Degenerative Ex Vivo Model. <i>Spine</i> , <b>2018</b> , 43, E673-E682	3.3	34
37	Pro-inflammatory chitosan/poly( $\gamma$ -glutamic acid) nanoparticles modulate human antigen-presenting cells phenotype and revert their pro-invasive capacity. <i>Acta Biomaterialia</i> , <b>2017</b> , 63, 96-109	10.8	30
36	Mesenchymal Stem/Stromal Cells seeded on cartilaginous endplates promote Intervertebral Disc Regeneration through Extracellular Matrix Remodeling. <i>Scientific Reports</i> , <b>2016</b> , 6, 33836	4.9	28
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> , <b>2016</b> , 22, 8-19	2.9	28
34	Induction of notch signaling by immobilization of jagged-1 on self-assembled monolayers. <i>Biomaterials</i> , <b>2009</b> , 30, 6879-87	15.6	27
33	Chitosan/PGA nanoparticles-based immunotherapy as adjuvant to radiotherapy in breast cancer. <i>Biomaterials</i> , <b>2020</b> , 257, 120218	15.6	27
32	Joint analysis of IVD herniation and degeneration by rat caudal needle puncture model. <i>Journal of Orthopaedic Research</i> , <b>2017</b> , 35, 258-268	3.8	25
31	Macrophage response to chitosan/poly( $\gamma$ -glutamic acid) nanoparticles carrying an anti-inflammatory drug. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2015</b> , 26, 167	4.5	25
30	Biosynthesis of highly pure poly( $\gamma$ -glutamic acid) for biomedical applications. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2012</b> , 23, 1583-91	4.5	24
29	Systemic Delivery of Bone Marrow Mesenchymal Stem Cells for In Situ Intervertebral Disc Regeneration. <i>Stem Cells Translational Medicine</i> , <b>2017</b> , 6, 1029-1039	6.9	23
28	Chitosan/poly( $\gamma$ -glutamic acid) nanoparticles incorporating IFN- $\beta$ for immune response modulation in the context of colorectal cancer. <i>Biomaterials Science</i> , <b>2019</b> , 7, 3386-3403	7.4	21
27	Adsorbed Fibrinogen stimulates TLR-4 on monocytes and induces BMP-2 expression. <i>Acta Biomaterialia</i> , <b>2017</b> , 49, 296-305	10.8	19
26	Modelling of ex vivo expansion/maintenance of hematopoietic stem cells. <i>Bioprocess and Biosystems Engineering</i> , <b>2003</b> , 25, 365-9	3.7	19
25	The effect of adsorbed fibronectin and osteopontin on macrophage adhesion and morphology on hydrophilic and hydrophobic model surfaces. <i>Acta Biomaterialia</i> , <b>2012</b> , 8, 3669-77	10.8	18

24	Macrophages Down-Regulate Gene Expression of Intervertebral Disc Degenerative Markers Under a Pro-inflammatory Microenvironment. <i>Frontiers in Immunology</i> , <b>2019</b> , 10, 1508	8.4	17
23	Genetically Engineered-MSC Therapies for Non-unions, Delayed Unions and Critical-size Bone Defects. <i>International Journal of Molecular Sciences</i> , <b>2019</b> , 20,	6.3	17
22	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> , <b>2014</b> , 20, 984-93	2.9	14
21	Poly(Eglutamic acid) and poly(Eglutamic acid)-based nanocomplexes enhance type II collagen production in intervertebral disc. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2017</b> , 28, 6	4.5	14
20	Improvement of Bovine Nucleus Pulposus Cells Isolation Leads to Identification of Three Phenotypically Distinct Cell Subpopulations. <i>Tissue Engineering - Part A</i> , <b>2015</b> , 21, 2216-27	3.9	11
19	Age-Related Phenotypic Alterations in Cells Isolated From Human Degenerated Intervertebral Discs With Contained Hernias. <i>Spine</i> , <b>2018</b> , 43, E274-E284	3.3	10
18	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> , <b>2019</b> , 28, 922-933	2.7	9
17	Poly(EGLutamic Acid) as an Exogenous Promoter of Chondrogenic Differentiation of Human Mesenchymal Stem/Stromal Cells. <i>Tissue Engineering - Part A</i> , <b>2015</b> , 21, 1869-85	3.9	9
16	Bioactivity of immobilized EGF on self-assembled monolayers: optimization of the immobilization process. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2010</b> , 94, 576-85	5.4	9
15	Modulation of the In Vivo Inflammatory Response by Pro- Versus Anti-Inflammatory Intervertebral Disc Treatments. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,	6.3	8
14	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> , <b>2018</b> , 12, e1785-e1795	4.4	8
13	Kinetic analysis of the ex vivo expansion of human hematopoietic stem/progenitor cells. <i>Biotechnology Letters</i> , <b>2006</b> , 28, 335-40	3	8
12	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> , <b>2021</b> , 4, e1150	3.7	8
11	Immunomodulatory potential of chitosan-based materials for cancer therapy: a systematic review of , and clinical studies. <i>Biomaterials Science</i> , <b>2021</b> , 9, 3209-3227	7.4	7
10	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> , <b>2018</b> ,	3.9	6
9	Terminal complement complex formation is associated with intervertebral disc degeneration. <i>European Spine Journal</i> , <b>2021</b> , 30, 217-226	2.7	6
8	Interleukin-1 and cathepsin D modulate formation of the terminal complement complex in cultured human disc tissue. <i>European Spine Journal</i> , <b>2021</b> , 30, 2247-2256	2.7	5
7	Decellularized Scaffolds for Intervertebral Disc Regeneration. <i>Trends in Biotechnology</i> , <b>2020</b> , 38, 947-951	5.1	4

6	Effect of surface chemistry on hMSC growth under xeno-free conditions. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2020</b> , 189, 110836	6	2
5	Articular Repair/Regeneration in Healthy and Inflammatory Conditions: From Advanced In Vitro to In Vivo Models. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1909523	15.6	1
4	Integrated Analysis of Biological Samples by Imaging Flow Cytometry. <i>Microscopy and Microanalysis</i> , <b>2015</b> , 21 Suppl 5, 95-6	0.5	1
3	Interleukin-1 $\beta$ 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> , <b>2021</b> , 9, 802789	5.8	0
2	Fibrotic alterations in human annulus fibrosus correlate with progression of intervertebral disc herniation.. <i>Arthritis Research and Therapy</i> , <b>2022</b> , 24, 25	5.7	0
1	Harnessing chitosan and poly-( $\gamma$ -glutamic acid)-based biomaterials towards cancer immunotherapy. <i>Materials Today Advances</i> , <b>2022</b> , 15, 100252	7.4	0