Raquel M. Gonalves

List of Publications by Year in Descending Order

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	Fibrotic alterations in human annulus fibrosus correlate with progression of intervertebral disc herniation.. *Arthritis Research and Therapy*, **2022**, 24, 25	5.7	0
58	Harnessing chitosan and poly-(Eglutamic acid)-based biomaterials towards cancer immunotherapy. *Materials Today Advances*, **2022**, 15, 100252	7.4	0
57	Interleukin-1More Than Mechanical Loading Induces a Degenerative Phenotype in Human Annulus Fibrosus Cells, Partially Impaired by Anti-Proteolytic Activity of Mesenchymal Stem Cell Secretome.. *Frontiers in Bioengineering and Biotechnology*, **2021**, 9, 802789	5.8	0
56	Development of a standardized histopathology scoring system for intervertebral disc degeneration in rat models: An initiative of the ORS spine section. *JOR Spine*, **2021**, 4, e1150	3.7	8
55	Interleukin-1and cathepsin D modulate formation of the terminal complement complex in cultured human disc tissue. *European Spine Journal*, **2021**, 30, 2247-2256	2.7	5
54	Terminal complement complex formation is associated with intervertebral disc degeneration. *European Spine Journal*, **2021**, 30, 217-226	2.7	6
53	Immunomodulatory potential of chitosan-based materials for cancer therapy: a systematic review of , and clinical studies. *Biomaterials Science*, **2021**, 9, 3209-3227	7.4	7
52	Decellularized Scaffolds for Intervertebral Disc Regeneration. *Trends in Biotechnology*, **2020**, 38, 947-951	15.1	4
51	Modulation of the In Vivo Inflammatory Response by Pro- Versus Anti-Inflammatory Intervertebral Disc Treatments. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	8
50	Articular Repair/Regeneration in Healthy and Inflammatory Conditions: From Advanced In Vitro to In Vivo Models. *Advanced Functional Materials*, **2020**, 30, 1909523	15.6	1
49	Effect of surface chemistry on hMSC growth under xeno-free conditions. *Colloids and Surfaces B: Biointerfaces*, **2020**, 189, 110836	6	2
48	Chitosan/PGA nanoparticles-based immunotherapy as adjuvant to radiotherapy in breast cancer. *Biomaterials*, **2020**, 257, 120218	15.6	27
47	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. *European Spine Journal*, **2019**, 28, 922-933	2.7	9
46	Chitosan/poly(Eglutamic acid) nanoparticles incorporating IFN-for immune response modulation in the context of colorectal cancer. *Biomaterials Science*, **2019**, 7, 3386-3403	7.4	21
45	Macrophages Down-Regulate Gene Expression of Intervertebral Disc Degenerative Markers Under a Pro-inflammatory Microenvironment. *Frontiers in Immunology*, **2019**, 10, 1508	8.4	17
44	Genetically Engineered-MSC Therapies for Non-unions, Delayed Unions and Critical-size Bone Defects. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	17
43	Age-Correlated Phenotypic Alterations in Cells Isolated From Human Degenerated Intervertebral Discs With Contained Hernias. *Spine*, **2018**, 43, E274-E284	3.3	10

42	Optimization of the use of a pharmaceutical grade xeno-free medium for in vitro expansion of human mesenchymal stem/stromal cells. *Journal of Tissue Engineering and Regenerative Medicine*, **2018**, 12, e1785-e1795	4.4	8
41	Interferon-Gamma at the Crossroads of Tumor Immune Surveillance or Evasion. *Frontiers in Immunology*, **2018**, 9, 847	8.4	411
40	Stromal Cell Derived Factor-1-Mediated Migration of Mesenchymal Stem Cells Enhances Collagen Type II Expression in Intervertebral Disc. *Tissue Engineering - Part A*, **2018**,	3.9	6
39	Immunomodulation of Human Mesenchymal Stem/Stromal Cells in Intervertebral Disc Degeneration: Insights From a Proinflammatory/Degenerative Ex Vivo Model. *Spine*, **2018**, 43, E673-E682	3.3	34
38	The inflammatory response in the regression of lumbar disc herniation. *Arthritis Research and Therapy*, **2018**, 20, 251	5.7	56
37	Mesenchymal Stromal Cell Secretome: Influencing Therapeutic Potential by Cellular Pre-conditioning. *Frontiers in Immunology*, **2018**, 9, 2837	8.4	203
36	Extracellular vesicles: intelligent delivery strategies for therapeutic applications. *Journal of Controlled Release*, **2018**, 289, 56-69	11.7	58
35	Joint analysis of IVD herniation and degeneration by rat caudal needle puncture model. *Journal of Orthopaedic Research*, **2017**, 35, 258-268	3.8	25
34	Pro-inflammatory chitosan/poly(γglutamic acid) nanoparticles modulate human antigen-presenting cells phenotype and revert their pro-invasive capacity. *Acta Biomaterialia*, **2017**, 63, 96-109	10.8	30
33	Adsorbed Fibrinogen stimulates TLR-4 on monocytes and induces BMP-2 expression. *Acta Biomaterialia*, **2017**, 49, 296-305	10.8	19
32	Systemic Delivery of Bone Marrow Mesenchymal Stem Cells for In Situ Intervertebral Disc Regeneration. *Stem Cells Translational Medicine*, **2017**, 6, 1029-1039	6.9	23
31	Poly(γglutamic acid) and poly(γglutamic acid)-based nanocomplexes enhance type II collagen production in intervertebral disc. *Journal of Materials Science: Materials in Medicine*, **2017**, 28, 6	4.5	14
30	Extracellular Vesicles: Immunomodulatory messengers in the context of tissue repair/regeneration. *European Journal of Pharmaceutical Sciences*, **2017**, 98, 86-95	5.1	63
29	Mesenchymal Stem/Stromal Cells seeded on cartilaginous endplates promote Intervertebral Disc Regeneration through Extracellular Matrix Remodeling. *Scientific Reports*, **2016**, 6, 33836	4.9	28
28	A Degenerative/Proinflammatory Intervertebral Disc Organ Culture: An Ex Vivo Model for Anti-inflammatory Drug and Cell Therapy. *Tissue Engineering - Part C: Methods*, **2016**, 22, 8-19	2.9	28
27	Anti-inflammatory Chitosan/Poly-γglutamic acid nanoparticles control inflammation while remodeling extracellular matrix in degenerated intervertebral disc. *Acta Biomaterialia*, **2016**, 42, 168-179	10.8	44
26	Fibrinogen scaffolds with immunomodulatory properties promote in vivo bone regeneration. *Biomaterials*, **2016**, 111, 163-178	15.6	43
25	Improvement of Bovine Nucleus Pulposus Cells Isolation Leads to Identification of Three Phenotypically Distinct Cell Subpopulations. *Tissue Engineering - Part A*, **2015**, 21, 2216-27	3.9	11

24	Poly(Glutamic Acid) as an Exogenous Promoter of Chondrogenic Differentiation of Human Mesenchymal Stem/Stromal Cells. *Tissue Engineering - Part A*, **2015**, 21, 1869-85	3.9	9
23	Macrophage response to chitosan/poly-(glutamic acid) nanoparticles carrying an anti-inflammatory drug. *Journal of Materials Science: Materials in Medicine*, **2015**, 26, 167	4.5	25
22	Inflammation in intervertebral disc degeneration and regeneration. *Journal of the Royal Society Interface*, **2015**, 12, 20141191	4.1	169
21	Integrated Analysis of Biological Samples by Imaging Flow Cytometry. *Microscopy and Microanalysis*, **2015**, 21 Suppl 5, 95-6	0.5	1
20	An interferon- delivery system based on chitosan/poly(glutamic acid) polyelectrolyte complexes modulates macrophage-derived stimulation of cancer cell invasion in vitro. *Acta Biomaterialia*, **2015** , 23, 157-171	10.8	34
19	Effect of cell density on mesenchymal stem cells aggregation in RGD-alginate 3D matrices under osteoinductive conditions. *Macromolecular Bioscience*, **2014**, 14, 759-71	5.5	43
18	The effect of hyaluronan-based delivery of stromal cell-derived factor-1 on the recruitment of MSCs in degenerating intervertebral discs. *Biomaterials*, **2014**, 35, 8144-53	15.6	59
17	A multicompartment holder for spinner flasks improves expansion and osteogenic differentiation of mesenchymal stem cells in three-dimensional scaffolds. *Tissue Engineering - Part C: Methods*, **2014**, 20, 984-93	2.9	14
16	Macrophages stimulate gastric and colorectal cancer invasion through EGFR Y(1086), c-Src, Erk1/2 and Akt phosphorylation and smallGTPase activity. *Oncogene*, **2014**, 33, 2123-33	9.2	77
15	Adsorbed fibrinogen leads to improved bone regeneration and correlates with differences in the systemic immune response. *Acta Biomaterialia*, **2013**, 9, 7209-17	10.8	43
14	Enhanced mesenchymal stromal cell recruitment via natural killer cells by incorporation of inflammatory signals in biomaterials. *Journal of the Royal Society Interface*, **2012**, 9, 261-71	4.1	51
13	The effect of adsorbed fibronectin and osteopontin on macrophage adhesion and morphology on hydrophilic and hydrophobic model surfaces. *Acta Biomaterialia*, **2012**, 8, 3669-77	10.8	18
12	Biosynthesis of highly pure poly-glutamic acid for biomedical applications. *Journal of Materials Science: Materials in Medicine*, **2012**, 23, 1583-91	4.5	24
11	Mesenchymal stem cell recruitment by stromal derived factor-1-delivery systems based on chitosan/poly(glutamic acid) polyelectrolyte complexes. *European Cells and Materials*, **2012**, 23, 249-60; discussion 260-1	4.3	38
10	Layer-by-layer self-assembly of chitosan and poly(glutamic acid) into polyelectrolyte complexes. *Biomacromolecules*, **2011**, 12, 4183-95	6.9	92
9	Bioactivity of immobilized EGF on self-assembled monolayers: optimization of the immobilization process. *Journal of Biomedical Materials Research - Part A*, **2010**, 94, 576-85	5.4	9
8	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. *Journal of Tissue Engineering and Regenerative Medicine*, **2010**, 4, 149-58	4.4	34
7	Differences amid bone marrow and cord blood hematopoietic stem/progenitor cell division kinetics. *Journal of Cellular Physiology*, **2009**, 220, 102-11	7	34

6	Induction of notch signaling by immobilization of jagged-1 on self-assembled monolayers. *Biomaterials*, **2009**, 30, 6879-87	15.6	27
5	A Stro-1(+) human universal stromal feeder layer to expand/maintain human bone marrow hematopoietic stem/progenitor cells in a serum-free culture system. *Experimental Hematology*, **2006**, 34, 1353-9	3.1	54
4	Kinetic analysis of the ex vivo expansion of human hematopoietic stem/progenitor cells. *Biotechnology Letters*, **2006**, 28, 335-40	3	8
3	A human stromal-based serum-free culture system supports the ex vivo expansion/maintenance of bone marrow and cord blood hematopoietic stem/progenitor cells. *Experimental Hematology*, **2005**, 33, 828-35	3.1	96
2	Modelling of ex vivo expansion/maintenance of hematopoietic stem cells. *Bioprocess and Biosystems Engineering*, **2003**, 25, 365-9	3.7	19
1	Hematopoietic stem cells: from the bone to the bioreactor. *Trends in Biotechnology*, **2003**, 21, 233-40	15.1	99