

# Jose Becerra

## List of Publications by Year in descending order

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104  
papers

3,236  
citations

159585

30  
h-index

175258

52  
g-index

117  
all docs

117  
docs citations

117  
times ranked

3670  
citing authors

#	ARTICLE	IF	CITATIONS
1	Oridonin enhances antitumor effects of doxorubicin in human osteosarcoma cells. <i>Pharmacological Reports</i> , 2022, 74, 248-256.	3.3	9
2	Suicide gene therapy by canine mesenchymal stem cell transduced with thymidine kinase in a u-87 glioblastoma murine model: Secretary profile and antitumor activity. <i>PLoS ONE</i> , 2022, 17, e0264001.	2.5	4
3	Effect of Canine Adipose Mesenchymal Stem Cell Secretome on a Model of Second-Intention Wound Healing in the Red-Eared Slider Turtle ( <i>Trachemys scripta</i> ). <i>Journal of Wildlife Diseases</i> , 2022, 58, .	0.8	0
4	Secretary Profile of Adipose-Tissue-Derived Mesenchymal Stem Cells from Cats with Calicivirus-Positive Severe Chronic Gingivostomatitis. <i>Viruses</i> , 2022, 14, 1146.	3.3	3
5	Nanoscale ligand density modulates gap junction intercellular communication of cell condensates during chondrogenesis. <i>Nanomedicine</i> , 2022, 17, 775-791.	3.3	2
6	Sponge-like processed D-periodic self-assembled atelocollagen supports bone formation in vivo. <i>Materials Science and Engineering C</i> , 2021, 120, 111679.	7.3	6
7	Collagen Type I Biomaterials as Scaffolds for Bone Tissue Engineering. <i>Polymers</i> , 2021, 13, 599.	4.5	107
8	Inflammation, a common mechanism in frailty and COVID19 , and stem cells as a therapeutic approach. <i>Stem Cells Translational Medicine</i> , 2021, 10, 1482-1490.	3.3	8
9	Altered Proteomic Profile of Adipose Tissue-Derived Mesenchymal Stem Cell Exosomes from Cats with Severe Chronic Gingivostomatitis. <i>Animals</i> , 2021, 11, 2466.	2.3	5
10	The Effect of Pore Directionality of Collagen Scaffolds on Cell Differentiation and In Vivo Osteogenesis. <i>Polymers</i> , 2021, 13, 3187.	4.5	7
11	Proteomic Analysis of the Secretome and Exosomes of Feline Adipose-Derived Mesenchymal Stem Cells. <i>Animals</i> , 2021, 11, 295.	2.3	7
12	The Janus Role of Adhesion in Chondrogenesis. <i>International Journal of Molecular Sciences</i> , 2020, 21, 5269.	4.1	10
13	3D Biomimetic Porous Titanium (Ti6Al4V ELI) Scaffolds for Large Bone Critical Defect Reconstruction: An Experimental Study in Sheep. <i>Animals</i> , 2020, 10, 1389.	2.3	28
14	Canine colostrum exosomes: characterization and influence on the canine mesenchymal stem cell secretary profile and fibroblast anti-oxidative capacity. <i>BMC Veterinary Research</i> , 2020, 16, 417.	1.9	14
15	RGD-Dendrimer-Poly(L-lactic) Acid Nanopatterned Substrates for the Early Chondrogenesis of Human Mesenchymal Stromal Cells Derived from Osteoarthritic and Healthy Donors. <i>Materials</i> , 2020, 13, 2247.	2.9	3
16	Should we unstress SARS-CoV-2 infected cells?. <i>Cytokine and Growth Factor Reviews</i> , 2020, 54, 3-5.	7.2	5
17	Dendritic Scaffold onto Titanium Implants. A Versatile Strategy Increasing Biocompatibility. <i>Polymers</i> , 2020, 12, 770.	4.5	7
18	Characterization of the secretary profile and exosomes of limbal stem cells in the canine species. <i>PLoS ONE</i> , 2020, 15, e0244327.	2.5	7

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19	Matrix Nanopatterning Regulates Mesenchymal Differentiation through Focal Adhesion Size and Distribution According to Cell Fate. <i>Biomimetics</i> , 2019, 4, 43.	3.3	10
20	Synergistic effect of Si-hydroxyapatite coating and VEGF adsorption on Ti6Al4V-ELI scaffolds for bone regeneration in an osteoporotic bone environment. <i>Acta Biomaterialia</i> , 2019, 83, 456-466.	8.3	62
21	Comparative analysis and characterization of soluble factors and exosomes from cultured adipose tissue and bone marrow mesenchymal stem cells in canine species. <i>Veterinary Immunology and Immunopathology</i> , 2019, 208, 6-15.	1.2	63
22	Dendrimer-based Uneven Nanopatterns to Locally Control Surface Adhesiveness: A Method to Direct Chondrogenic Differentiation. <i>Journal of Visualized Experiments</i> , 2018, , .	0.3	5
23	Repair of maxillary cystic bone defects with mesenchymal stem cells seeded on a cross-linked serum scaffold. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 2018, 46, 222-229.	1.7	35
24	Glioblastoma Bystander Cell Therapy: Improvements in Treatment and Insights into the Therapy Mechanisms. <i>Molecular Therapy - Oncolytics</i> , 2018, 11, 39-51.	4.4	6
25	Allogeneic adipose-derived mesenchymal stem cell therapy in dogs with refractory atopic dermatitis: clinical efficacy and safety. <i>Veterinary Record</i> , 2018, 183, 654-654.	0.3	44
26	Safety and efficacy of the mesenchymal stem cell in feline eosinophilic keratitis treatment. <i>BMC Veterinary Research</i> , 2018, 14, 116.	1.9	25
27	Insulin-like growth factor-1 (IGF-1) enhances the osteogenic activity of bone morphogenetic protein-6 (BMP-6) <i>in vitro</i> and <i>in vivo</i> , and together have a stronger osteogenic effect than when IGF-1 is combined with BMP-2. <i>Journal of Biomedical Materials Research - Part A</i> , 2017, 105, 1867-1875.	4.0	36
28	Regenerative Therapies in Dry Eye Disease: From Growth Factors to Cell Therapy. <i>International Journal of Molecular Sciences</i> , 2017, 18, 2264.	4.1	34
29	<i>In vitro</i> stimulation of MC3T3-E1 cells and sustained drug delivery by a hierarchical nanostructured SiO <sub>2</sub> CaO P <sub>2</sub> O <sub>5</sub> scaffold. <i>Microporous and Mesoporous Materials</i> , 2016, 229, 31-43.	4.4	10
30	Dendrimer surface orientation of the RGD peptide affects mesenchymal stem cell adhesion. <i>RSC Advances</i> , 2016, 6, 49839-49844.	3.6	15
31	Combining bone morphogenetic proteins-2 and -6 has additive effects on osteoblastic differentiation <i>in vitro</i> and accelerates bone formation <i>in vivo</i> . <i>Journal of Biomedical Materials Research - Part A</i> , 2016, 104, 178-185.	4.0	11
32	Peptides for bone tissue engineering. <i>Journal of Controlled Release</i> , 2016, 244, 122-135.	9.9	62
33	Synthesis of novel ICIE16/BSG and ICIE16/BSG-NITRI bioglasses and description of ionic release kinetics upon immersion in SBF fluid: Effect of nitridation. <i>Data in Brief</i> , 2016, 6, 153-157.	1.0	0
34	Surface nitridation improves bone cell response to melt-derived bioactive silicate/borosilicate glass composite scaffolds. <i>Acta Biomaterialia</i> , 2016, 29, 424-434.	8.3	14
35	Use of Adipose-Derived Mesenchymal Stem Cells in Keratoconjunctivitis Sicca in a Canine Model. <i>BioMed Research International</i> , 2015, 2015, 1-10.	1.9	78
36	Collagen duplicate genes of bone and cartilage participate during regeneration of zebrafish fin skeleton. <i>Gene Expression Patterns</i> , 2015, 19, 60-69.	0.8	34

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37	A Novel Human TGF- $\beta$ 1 Fusion Protein in Combination with rhBMP-2 Increases Chondro-Osteogenic Differentiation of Bone Marrow Mesenchymal Stem Cells. <i>International Journal of Molecular Sciences</i> , 2014, 15, 11255-11274.	4.1	10
38	Evaluation of Posterolateral Lumbar Fusion in Sheep Using Mineral Scaffolds Seeded with Cultured Bone Marrow Cells. <i>International Journal of Molecular Sciences</i> , 2014, 15, 23359-23376.	4.1	14
39	A Collagen-Targeted Biomimetic RGD Peptide to Promote Osteogenesis. <i>Tissue Engineering - Part A</i> , 2014, 20, 34-44.	3.1	22
40	Fabrication of Gelatin/Bioactive Glass Hybrid Scaffolds for Bone Tissue-Engineering. <i>IFMBE Proceedings</i> , 2014, , 1630-1633.	0.3	2
41	<i>In Vivo</i> Bioluminescence Imaging of Cell Differentiation in Biomaterials: A Platform for Scaffold Development. <i>Tissue Engineering - Part A</i> , 2013, 19, 593-603.	3.1	26
42	Characterization of bioactive molecules isolated from sea cucumber <i>Athyonidium chilensis</i> . <i>Revista De Biología Marina Y Oceanografía</i> , 2013, 48, 23-35.	0.2	10
43	Osteogenic molecules for clinical applications: improving the BMP-collagen system. <i>Biological Research</i> , 2013, 46, 421-429.	3.4	25
44	Characterization of Adult Stem/Progenitor Cell Populations from Bone Marrow in a Three-Dimensional Collagen Gel Culture System. <i>Cell Transplantation</i> , 2012, 21, 2021-2032.	2.5	19
45	Spinal arthrodesis. Basic science. <i>Revista Española De Cirugía Ortopédica Y Traumatología</i> , 2012, 56, 227-244.	0.1	2
46	Basic fibroblast growth factor enhances the osteogenic differentiation induced by bone morphogenetic protein-6 in vitro and in vivo. <i>Cytokine</i> , 2012, 58, 27-33.	3.2	23
47	Induction of superficial zone protein (SZP)/lubricin/PRG 4 in muscle-derived mesenchymal stem/progenitor cells by transforming growth factor- $\beta$ 1 and bone morphogenetic protein-7. <i>Arthritis Research and Therapy</i> , 2012, 14, R72.	3.5	26
48	Actinotrichia collagens and their role in fin formation. <i>Developmental Biology</i> , 2011, 354, 160-172.	2.0	94
49	Nanomaterials and Hydrogel Scaffolds for Articular Cartilage Regeneration. <i>Tissue Engineering - Part B: Reviews</i> , 2011, 17, 301-305.	4.8	51
50	The Stem Cell Niche Should be a Key Issue for Cell Therapy in Regenerative Medicine. <i>Stem Cell Reviews and Reports</i> , 2011, 7, 248-255.	5.6	54
51	Freeze substitution followed by low melting point wax embedding preserves histomorphology and allows protein and mRNA localization techniques. <i>Microscopy Research and Technique</i> , 2011, 74, 440-448.	2.2	8
52	Action of recombinant human BMP-2 on fracture healing in rabbits is dependent on the mechanical environment. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2010, 4, 543-552.	2.7	4
53	Osteoprogenitor cell adhesiveness to a titanium mesh. A clinically relevant hypothesis for revision surgery in hip replacement. <i>HIP International</i> , 2010, 20, 102-105.	1.7	19
54	Descripción de un programa de investigación sobre utilización de terapia celular y BMP en artrodesis lumbar. <i>Revista Española De Cirugía Ortopédica Y Traumatología</i> , 2010, 54, 11-18.	0.1	0

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55	Articular Cartilage: Structure and Regeneration. Tissue Engineering - Part B: Reviews, 2010, 16, 617-627.	4.8	196
56	Osteoprogenitor cell adhesiveness to a titanium mesh. A clinically relevant hypothesis for revision surgery in hip replacement. HIP International, 2010, 20, 102-105.	1.7	4
57	Dual luciferase labelling for non-invasive bioluminescence imaging of mesenchymal stromal cell chondrogenic differentiation in demineralized bone matrix scaffolds. Biomaterials, 2009, 30, 4986-4995.	11.4	42
58	The effect of an rhBMP-2 absorbable collagen sponge-targeted system on bone formation in vivo. Biomaterials, 2009, 30, 2032-2037.	11.4	99
59	The effect of type I collagen on osteochondrogenic differentiation in adipose-derived stromal cells in vivo. Cytotherapy, 2008, 10, 597-610.	0.7	25
60	Selection and induction of rat skeletal muscle-derived cells to the chondro-osteogenic lineage. Cellular and Molecular Biology, 2008, 54, 1-10.	0.9	12
61	Position dependence of hemiray morphogenesis during tail fin regeneration in Danio rerio. Developmental Biology, 2007, 312, 272-283.	2.0	31
62	The GPU on biomedical image processing for color and phenotype analysis. , 2007, , .		9
63	Zebrafish Fins as a Model System for Skeletal Human Studies. Scientific World Journal, The, 2007, 7, 1114-1127.	2.1	38
64	Autologous human-derived bone marrow cells exposed to a novel TGF- $\beta$ 1 fusion protein for the treatment of critically sized tibial defect. Regenerative Medicine, 2006, 1, 267-278.	1.7	11
65	Cytoskeletal dynamics of the teleostean fin ray during fin epimorphic regeneration. Differentiation, 2005, 73, 175-187.	1.9	13
66	Old questions, new tools, and some answers to the mystery of fin regeneration. Developmental Dynamics, 2003, 226, 190-201.	1.8	279
67	A Modified rhTGF- $\beta$ 1 and rhBMP-2 Are Effective in Initiating a Chondro-Osseous Differentiation Pathway in Bone Marrow Cells Cultured In Vitro. Connective Tissue Research, 2003, 44, 188-197.	2.3	21
68	A Modified rhTGF- $\beta$ 1 and rhBMP-2 Are Effective in Initiating a Chondro-Osseous Differentiation Pathway in Bone Marrow Cells Cultured In Vitro. Connective Tissue Research, 2003, 44, 188-197.	2.3	8
69	Ray-Interray Interactions during Fin Regeneration of Danio rerio. Developmental Biology, 2002, 252, 214-224.	2.0	54
70	Cell proliferation during blastema formation in the regenerating teleost fin. Developmental Dynamics, 2002, 223, 262-272.	1.8	72
71	BMPs, Collagen Matrices and Mesenchymal Stem Cells. , 2002, , 35-52.		3
72	TYPE I COLLAGEN AND A RECOMBINANT TGF- $\beta$ 1 SERVE AS A SCAFFOLD FOR BONE MARROW MESENCHYMAL STEM CELLS. , 2002, , 283-311.		1

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73	Production of a recombinant human basic fibroblast growth factor with a collagen binding domain. <i>Protoplasma</i> , 2001, 218, 95-103.	2.1	23
74	Engineering, Expression, and Renaturation of a Collagen-Targeted Human bFGF Fusion Protein. <i>Growth Factors</i> , 2001, 18, 261-275.	1.7	42
75	Selection and amplification of a bone marrow cell population and its induction to the chondro-osteogenic lineage by rhOP-1: an in vitro and in vivo study. <i>International Journal of Developmental Biology</i> , 2001, 45, 689-93.	0.6	31
76	Collagen-affecting drugs impair regeneration of teleost tail fins. <i>Journal of Submicroscopic Cytology and Pathology</i> , 2000, 32, 273-80.	0.3	8
77	Morphometric study of the regeneration of individual rays in teleost tail fins. <i>Journal of Anatomy</i> , 1999, 195, 393-405.	1.5	20
78	Morphometric study of the regeneration of individual rays in teleost tail fins. <i>Journal of Anatomy</i> , 1999, 195, 393-405.	1.5	20
79	A Recombinant Human TGF- $\beta$ 1 Fusion Protein with Collagen-Binding Domain Promotes Migration, Growth, and Differentiation of Bone Marrow Mesenchymal Cells. <i>Experimental Cell Research</i> , 1999, 250, 485-498.	2.6	127
80	Nitric oxide mediates hyperglycemia-induced defective migration in cultured endothelial cells. <i>Journal of Vascular Surgery</i> , 1997, 26, 319-326.	1.1	14
81	Skeletal deformities in larval, juvenile and adult stages of cultured gilthead sea bream ( <i>Sparus aurata</i> ) Tj ETQq1 1 0,784314 rgBT /Over 3.5 164	3.5	164
82	Complement Proteins Are Present in Developing Endochondral Bone and May Mediate Cartilage Cell Death and Vascularization. <i>Experimental Cell Research</i> , 1996, 227, 208-213.	2.6	58
83	Regeneration of Fin Rays in Teleosts: A Histochemical, Radioautographic, and Ultrastructural Study.. <i>Archives of Histology and Cytology</i> , 1996, 59, 15-35.	0.2	52
84	Histochemically defined cell states during tail fin regeneration in teleost fishes. <i>Differentiation</i> , 1996, 60, 139-149.	1.9	26
85	Incorporation of bromodeoxyuridine in regenerating fin tissue of the goldfish <i>Carassius auratus</i> . , 1996, 275, 300-307.		47
86	Demineralized bone matrix mediates differentiation of bone marrow stromal cells in vitro: Effect of age of cell donor. <i>Journal of Bone and Mineral Research</i> , 1996, 11, 1703-1714.	2.8	41
87	Incorporation of bromodeoxyuridine in regenerating fin tissue of the goldfish <i>Carassius auratus</i> . <i>The Journal of Experimental Zoology</i> , 1996, 275, 300-307.	1.4	3
88	Histochemically defined cell states during tail fin regeneration in teleost fishes. <i>Differentiation</i> , 1996, 60, 139.	1.9	16
89	Type I collagen combined with a recombinant TGF-beta serves as a scaffold for mesenchymal stem cells. <i>International Journal of Developmental Biology</i> , 1996, Suppl 1, 107S-108S.	0.6	4
90	Perinotochordal connective sheet of gilthead sea bream larvae ( <i>Sparus aurata</i> , L.) affected by axial malformations: An histochemical and immunocytochemical study. <i>The Anatomical Record</i> , 1994, 240, 248-254.	1.8	21

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91	Skeletal deformities of the gilthead sea bream ( <i>Spams aurata</i> , L.): Study of the subcommissural organ (SCO) and Reissner's fiber (RF). <i>Annals of Anatomy</i> , 1994, 176, 381-383.	1.9	12
92	Interactions of the lepidotrichial matrix components during tail fin regeneration in teleosts. <i>Differentiation</i> , 1992, 49, 143-150.	1.9	48
93	Tail fin regeneration in teleosts: cell-extracellular matrix interaction in blastemal differentiation. <i>Journal of Anatomy</i> , 1991, 176, 9-21.	1.5	64
94	Elastoidin turn-over during tail fin regeneration in teleosts. <i>Anatomy and Embryology</i> , 1989, 180, 465-470.	1.5	47
95	Biological effects of lithium: Experimental analysis in plant cytokinesis. <i>Experientia</i> , 1987, 43, 1025-1027.	1.2	4
96	Inhibition of plant cytokinesis by beryllium and its reversion by calcium. <i>Environmental and Experimental Botany</i> , 1986, 26, 75-80.	4.2	5
97	Morphological evidence for the presence of two cell types in the ependyma of the subcommissural organ of the snake, <i>Natrix maura</i> . <i>Cell and Tissue Research</i> , 1984, 238, 407-9.	2.9	3
98	Structure of the tail fin in teleosts. <i>Cell and Tissue Research</i> , 1983, 230, 127-37.	2.9	112
99	Inhibition of plant cytokinesis by deoxyguanosine and caffeine. <i>Plant Cell Reports</i> , 1983, 2, 113-116.	5.6	6
100	Mitochondria with atypical cristae in the hypothalamic neuropil of the water snake. <i>Cell Biology International Reports</i> , 1982, 6, 1093-1099.	0.6	0
101	Ultrastructure of the paraphysis cerebri of the water snake <i>Natrix maura</i> . <i>Journal of Comparative Neurology</i> , 1982, 208, 345-351.	1.6	2
102	Fine structure and histochemistry of the tail fin ray in teleosts. <i>Histochemistry</i> , 1982, 75, 363-376.	1.9	58
103	Effects of caffeine, calcium and magnesium on plant cytokinesis. <i>Experimental Cell Research</i> , 1978, 111, 301-308.	2.6	28
104	Calcium and magnesium in plant cytokinesis and their antagonism with caffeine. <i>Experientia</i> , 1977, 33, 1318-1319.	1.2	8