Rodolfo Quarto

List of Publications by Year
in descending order

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106 papers	9,311 citations	61857 43 h-index	38300 95 g-index
110 all docs	110 docs citations	110 times ranked	9459 citing authors

#	Article	IF	Citations
1	Repair of Large Bone Defects with the Use of Autologous Bone Marrow Stromal Cells. New England Journal of Medicine, 2001, 344, 385-386.	13.9	1,252
2	Proliferation kinetics and differentiation potential of ex vivo expanded human bone marrow stromal cells. Experimental Hematology, 2000, 28, 707-715.	0.2	662
3	Stem Cells Associated with Macroporous Bioceramics for Long Bone Repair: 6- to 7-Year Outcome of a Pilot Clinical Study. Tissue Engineering, 2007, 13, 947-955.	4.9	529
4	Tissue engineering and cell therapy of cartilage and bone. Matrix Biology, 2003, 22, 81-91.	1.5	453
5	Role of scaffold internal structure on in vivo bone formation in macroporous calcium phosphate bioceramics. Biomaterials, 2006, 27, 3230-3237.	5.7	451
6	Fibroblast Growth Factor-2 Supports ex Vivo Expansion and Maintenance of Osteogenic Precursors from Human Bone Marrow*. Endocrinology, 1997, 138, 4456-4462.	1.4	387
7	Ex vivo enrichment of mesenchymal cell progenitors by fibroblast growth factor 2. Experimental Cell Research, 2003, 287, 98-105.	1.2	343
8	Bone progenitor cell deficits and the age-associated decline in bone repair capacity. Calcified Tissue International, 1995, 56, 123-129.	1.5	329
9	Stromal damage as consequence of high-dose chemo/radiotherapy in bone marrow transplant recipients. Experimental Hematology, 1999, 27, 1460-1466.	0.2	261
10	Design of graded biomimetic osteochondral composite scaffolds. Biomaterials, 2008, 29, 3539-3546.	5.7	233
11	Replicative Aging and Gene Expression in Long-Term Cultures of Human Bone Marrow Stromal Cells. Tissue Engineering, 2002, 8, 901-910.	4.9	204
12	Three-Dimensional Perfusion Culture of Human Bone Marrow Cells and Generation of Osteoinductive Grafts. Stem Cells, 2005, 23, 1066-1072.	1.4	182
13	Osteoinduction of Human Mesenchymal Stem Cells by Bioactive Composite Scaffolds without Supplemental Osteogenic Growth Factors. PLoS ONE, 2011, 6, e26211.	1.1	178
14	Orderly osteochondral regeneration in a sheep model using a novel nanoâ€composite multilayered biomaterial. Journal of Orthopaedic Research, 2010, 28, 116-124.	1.2	177
15	Parathyroid Mitogenic Activity in Plasma from Patients with Familial Multiple Endocrine Neoplasia Type 1. New England Journal of Medicine, 1986, 314, 1287-1293.	13.9	157
16	Osteoconduction in large macroporous hydroxyapatite ceramic implants: evidence for a complementary integration and disintegration mechanism. Bone, 1999, 24, 579-589.	1.4	155
17	Cell Therapy for Bone Disease: A Review of Current Status. Stem Cells, 2003, 21, 610-619.	1.4	141
18	High-dose chemotherapy shows a dose-dependent toxicity to bone marrow osteoprogenitors. Cancer, 2001, 92, 2419-2428.	2.0	128

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19	Formation of a chondro-osseous rudiment in micromass cultures of human bone-marrow stromal cells. Journal of Cell Science, 2003, 116, 2949-2955.	1.2	127
20	A Nude Mouse Model for Human Bone Formation in Unloaded Conditions. Bone, 1998, 22, 131S-134S.	1.4	123
21	Cell condensation in chondrogenic differentiation. Experimental Cell Research, 1992, 200, 26-33.	1.2	122
22	Reconstruction of Extensive Long-Bone Defects in Sheep Using Porous Hydroxyapatite Sponges. Calcified Tissue International, 1999, 64, 83-90.	1.5	117
23	Bone Marrow Stromal Damage after Chemo/Radiotherapy: Occurrence, Consequences and Possibilities of Treatment. Leukemia and Lymphoma, 2001, 42, 863-870.	0.6	107
24	Thyroid hormone, insulin, and glucocorticoids are sufficient to support chondrocyte differentiation to hypertrophy: a serum-free analysis.. Journal of Cell Biology, 1992, 119, 989-995.	2.3	106
25	Novel nanostructured scaffold for osteochondral regeneration: pilot study in horses. Journal of Tissue Engineering and Regenerative Medicine, 2010, 4, 300-308.	1.3	100
26	Mesenchymal Stem Cells Induce Functionally Active T-Regulatory Lymphocytes in a Paracrine Fashion and Ameliorate Experimental Autoimmune Uveitis. , 2012, 53, 786.		93
27	Bone Marrow Stromal Cells and Their Use in Regenerating Bone. Novartis Foundation Symposium, 2008, , 133-147.	1.2	86
28	Short-Time Survival and Engraftment of Bone Marrow Stromal Cells in an Ectopic Model of Bone Regeneration. Tissue Engineering - Part A, 2010, 16, 489-499.	1.6	77
29	Modulation of Commitment, Proliferation, and Differentiation of Chondrogenic Cells in Defined Culture Medium¹. Endocrinology, 1997, 138, 4966-4976.	1.4	75
30	Enhanced mechanical performances and bioactivity of cell laden-graphene oxide/alginate hydrogels open new scenario for articular tissue engineering applications. Carbon, 2017, 115, 608-616.	5.4	69
31	Extracellular Vesicles as Biomarkers and Therapeutic Tools: From Pre-Clinical to Clinical Applications. Biology, 2021, 10, 359.	1.3	69
32	Order versus Disorder: in vivo bone formation within osteoconductive scaffolds. Scientific Reports, 2012, 2, 274.	1.6	67
33	Prefabricated Engineered Bone Flaps: An Experimental Model of Tissue Reconstruction in Plastic Surgery. Plastic and Reconstructive Surgery, 1998, 101, 577-581.	0.7	63
34	Antibodies cytotoxic to bovine parathyroid cells in autoimmune hypoparathyroidism.. Proceedings of the National Academy of Sciences of the United States of America, 1986, 83, 8366-8369.	3.3	62
35	Dissecting the effects of preconditioning with inflammatory cytokines and hypoxia on the angiogenic potential of mesenchymal stromal cell (MSC)-derived soluble proteins and extracellular vesicles (EVs). Biomaterials, 2021, 269, 120633.	5.7	59
36	Microenvironment and stem properties of bone marrow-derived mesenchymal cells. Wound Repair and Regeneration, 2001, 9, 460-466.	1.5	58

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37	Engineering of osteoinductive grafts by isolation and expansion of ovine bone marrow stromal cells directly on 3D ceramic scaffolds. Biotechnology and Bioengineering, 2006, 93, 181-187.	1.7	56
38	Superficial Enhanced Fluid Fat Injection (SEFFI) to Correct Volume Defects and Skin Aging of the Face and Periocular Region. Aesthetic Surgery Journal, 2015, 35, 504-515.	0.9	53
39	In vivo and in vitro effects of insulin-like growth factor-I (IGF-I) on femoral mRNA expression in old rats. Bone, 1994, 15, 647-653.	1.4	50
40	Regulation of Human Mesenchymal Stem Cell Functions by an Autocrine Loop Involving NAD⁺Release and P2Y11-Mediated Signaling. Stem Cells and Development, 2011, 20, 1183-1198.	1.1	50
41	Enhanced engraftment of EPO-transduced human bone marrow stromal cells transplanted in a 3D matrix in non-conditioned NOD/SCID mice. Gene Therapy, 2002, 9, 915-921.	2.3	49
42	Biomechanical evaluation of cell-loaded and cell-free hydroxyapatite implants for the reconstruction of segmental bone defects. Journal of Materials Science: Materials in Medicine, 1999, 10, 739-742.	1.7	47
43	Fluorescence Microscopy Imaging of Bone for Automated Histomorphometry. Tissue Engineering, 2002, 8, 847-852.	4.9	47
44	TGF Î²â€1 administration during Ex vivo expansion of human articular chondrocytes in a serumâ€free medium redirects the cell phenotype toward hypertrophy. Journal of Cellular Physiology, 2012, 227, 3282-3290.	2.0	47
45	Coordinate synthesis and degradation of the Î±-, Î²- and Î³-subunits of the receptor for immunoglobulin E. Molecular Immunology, 1985, 22, 1045-1051.	1.0	44
46	Preparation and properties of macroporous brushite bone cements. Acta Biomaterialia, 2009, 5, 2161-2168.	4.1	43
47	Chronic lymphocytic leukemia nurse-like cells express hepatocyte growth factor receptor (c-MET) and indoleamine 2,3-dioxygenase and display features of immunosuppressive type 2 skewed macrophages. Haematologica, 2014, 99, 1078-1087.	1.7	43
48	The receptor for immunoglobulin E: Examination for kinase activity and as a substrate for kinases. Molecular Immunology, 1986, 23, 1215-1223.	1.0	41
49	Noncovalently and covalently bound lipid on the receptor for immunoglobulin E. Biochemistry, 1985, 24, 7342-7348.	1.2	40
50	Calcification of in vitro developed hypertrophic cartilage. Developmental Biology, 1989, 132, 442-447.	0.9	40
51	Skin Rejuvenation and Volume Enhancement with the Micro Superficial Enhanced Fluid Fat Injection (M-SEFFI) for Skin Aging of the Periocular and Perioral Regions. Aesthetic Surgery Journal, 2017, 37, 14-23.	0.9	40
52	Interaction Between Breast Cancer Cells and Adipose Tissue Cells Derived from Fat Grafting. Aesthetic Surgery Journal, 2016, 36, 358-363.	0.9	39
53	â€œGreen-reducedâ€•graphene oxide induces in vitro an enhanced biomimetic mineralization of polycaprolactone electrospun meshes. Materials Science and Engineering C, 2018, 93, 1044-1053.	3.8	38
54	Bone invading NSCLC cells produce IL-7: mice model and human histologic data. BMC Cancer, 2010, 10, 12.	1.1	37

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55	An interaction between hepatocyte growth factor and its receptor (c-MET) prolongs the survival of chronic lymphocytic leukemic cells through STAT3 phosphorylation: a potential role of mesenchymal cells in the disease. Haematologica, 2011, 96, 1015-1023.	1.7	37
56	Study of the in vitro corrosion behavior and biocompatibility of Zr-2.5Nb and Zr-1.5Nb-1Ta (at%) crystalline alloys. Journal of Materials Science: Materials in Medicine, 2011, 22, 1293-1302.	1.7	36
57	Design and characterization of a tissue-engineered bilayer scaffold for osteochondral tissue repair. Journal of Tissue Engineering and Regenerative Medicine, 2015, 9, 1182-1192.	1.3	33
58	Bone Tissue Engineering: Pastâ€“Presentâ€“Future. Methods in Molecular Biology, 2016, 1416, 21-33.	0.4	32
59	MgCHA particles dispersion in porous PCL scaffolds:in vitromineralization andin vivobone formation. Journal of Tissue Engineering and Regenerative Medicine, 2014, 8, 291-303.	1.3	30
60	Constitutive myc expression impairs hypertrophy and calcification in cartilage. Developmental Biology, 1992, 149, 168-176.	0.9	27
61	Osteogenic Differentiation of Human Mesenchymal Stromal Cells on Surface-Modified Titanium Alloys for Orthopedic and Dental Implants. International Journal of Artificial Organs, 2009, 32, 811-820.	0.7	26
62	Gene expression profile of human bone marrow stromal cells determined by restriction fragment differential display analysis. Journal of Cellular Biochemistry, 2004, 92, 733-744.	1.2	25
63	A composite material model for improved bone formation. Journal of Tissue Engineering and Regenerative Medicine, 2010, 4, 505-513.	1.3	25
64	Atomic force microscopy for biomechanical and structural analysis of human dermis: A complementary tool for medical diagnosis and therapy monitoring. Experimental Dermatology, 2018, 27, 150-155.	1.4	25
65	Isolation and Flow Cytometry Characterization of Extracellularâ€Vesicle Subpopulations Derived from Human Mesenchymal Stromal Cells. Current Protocols in Stem Cell Biology, 2019, 48, e76.	3.0	25
66	Osteogenic potential of rat spleen stromal cells. European Journal of Cell Biology, 2003, 82, 175-181.	1.6	21
67	Mesenchymal stem cell culture in convection-enhanced hollow fibre membrane bioreactors for bone tissue engineering. Journal of Membrane Science, 2011, 379, 341-352.	4.1	21
68	DLX5 overexpression impairs osteogenic differentiation of human bone marrow stromal cells. European Journal of Cell Biology, 2008, 87, 751-761.	1.6	18
69	Hydroxyapatite-Coated Polycaprolacton Wide Mesh as a Model of Open Structure for Bone Regeneration. Tissue Engineering - Part A, 2009, 15, 155-163.	1.6	18
70	In vivo lamellar bone formation in fibre coated MgCHAâ€“PCL-composite scaffolds. Journal of Materials Science: Materials in Medicine, 2012, 23, 117-128.	1.7	17
71	Young at Heart: Combining Strategies to Rejuvenate Endogenous Mechanisms of Cardiac Repair. Frontiers in Bioengineering and Biotechnology, 2020, 8, 447.	2.0	17
72	A novel scaffold geometry for chondral applications: Theoretical model and in vivo validation. Biotechnology and Bioengineering, 2014, 111, 2107-2119.	1.7	16

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73	Circulating miRNAs in Breast Cancer Diagnosis and Prognosis. Cancers, 2022, 14, 2317.	1.7	16
74	Human Bone Marrow Stromal Cells Hamper Specific Interactions of CD4 and CD8 T Lymphocytes with Antigen-Presenting Cells. Human Immunology, 2006, 67, 976-985.	1.2	15
75	Chemical and morphological gradient scaffolds to mimic hierarchically complex tissues: From theoretical modeling to their fabrication. Biotechnology and Bioengineering, 2016, 113, 2286-2297.	1.7	14
76	Comprehensive Profiling of Secretome Formulations from Fetal- and Perinatal Human Amniotic Fluid Stem Cells. International Journal of Molecular Sciences, 2021, 22, 3713.	1.8	14
77	A simple non invasive computerized method for the assessment of bone repair within osteoconductive porous bioceramic grafts. Biotechnology and Bioengineering, 2005, 92, 189-198.	1.7	13
78	A Three-Dimensional Traction/Torsion Bioreactor System for Tissue Engineering. International Journal of Artificial Organs, 2010, 33, 362-369.	0.7	13
79	Circulating healing (CH) cells expressing BST2 are functionally activated by the injury-regulated systemic factor HGFA. Stem Cell Research and Therapy, 2018, 9, 300.	2.4	12
80	The administration of demethyl fruticulin A from Salvia corrugata to mammalian cells lines induces â€œanoikisâ€, a special form of apoptosis. Phytomedicine, 2010, 17, 449-456.	2.3	11
81	Demethyl fruticulin A (SCOâ€1) causes apoptosis by inducing reactive oxygen species in mitochondria. Journal of Cellular Biochemistry, 2010, 111, 1149-1159.	1.2	11
82	Small Extracellular Vesicles from Human Amniotic Fluid Samples as Promising Theranostics. International Journal of Molecular Sciences, 2022, 23, 590.	1.8	11
83	Defining an optimal stromal derived factorâ€1 presentation for effective recruitment of mesenchymal stem cells in 3D. Biotechnology and Bioengineering, 2014, 111, 2303-2316.	1.7	10
84	Bone Structural Similarity Score: A Multiparametric Tool to Match Properties of Biomimetic Bone Substitutes with their Target Tissues. Journal of Applied Biomaterials and Functional Materials, 2016, 14, e277-e289.	0.7	10
85	Rheological properties, biocompatibility and in vivo performance of new hydrogel-based bone fillers. Biomaterials Science, 2016, 4, 1691-1703.	2.6	10
86	The Human Fetal and Adult Stem Cell Secretome Can Exert Cardioprotective Paracrine Effects against Cardiotoxicity and Oxidative Stress from Cancer Treatment. Cancers, 2021, 13, 3729.	1.7	10
87	Response of osteoblast-like MG63 on neoglycosylated collagen matrices. MedChemComm, 2014, 5, 1208-1212.	3.5	8
88	Generation of a Functional Human Neural Network by NDM29 Overexpression in Neuroblastoma Cancer Cells. Molecular Neurobiology, 2017, 54, 6097-6106.	1.9	8
89	The influence of plasma technology coupled to chemical grafting on the cell growth compliance of 3D hydroxyapatite scaffolds. Journal of Materials Science: Materials in Medicine, 2012, 23, 2727-2738.	1.7	7
90	Câ€type natriuretic peptide: Structural studies, fragment synthesis, and preliminary biological evaluation in human osteosarcoma cell lines. Biopolymers, 2010, 94, 213-219.	1.2	5

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91	Differences in Chemical Composition and Internal Structure Influence Systemic Host Response to Implants of Biomaterials. International Journal of Artificial Organs, 2011, 34, 422-431.	0.7	5
92	Composite Electrospun Nanofibers for Influencing Stem Cell Fate. Methods in Molecular Biology, 2013, 1058, 25-40.	0.4	5
93	C6: A Monoclonal Antibody Specific for a Fibronectin Epitope Situated at the Interface between the Oncofoetal Extra-Domain B and the Repeat III8. PLoS ONE, 2016, 11, e0148103.	1.1	5
94	A Comparative Evaluation between New Ternary Zirconium Alloys as Alternative Metals for Orthopedic and Dental Prosthetic Devices. International Journal of Artificial Organs, 2014, 37, 149-164.	0.7	4
95	Targeting PIK3CA Actionable Mutations in the Circulome: A Proof of Concept in Metastatic Breast Cancer. International Journal of Molecular Sciences, 2022, 23, 6320.	1.8	4
96	A Two-Step Approach to Tune the Micro and Nanoscale Morphology of Porous Niobium Oxide to Promote Osteointegration. Materials, 2022, 15, 473.	1.3	2
97	A three-dimensional traction/torsion bioreactor system for tissue engineering. International Journal of Artificial Organs, 2010, 33, 362-9.	0.7	2
98	Liver xenoassistance: biosafety. Transplantation Proceedings, 2000, 32, 2696-2697.	0.3	1
99	From stem cells to tissue-specific differentiation. Minimally Invasive Therapy and Allied Technologies, 2002, 11, 101-105.	0.6	1
100	Biomimetic Bone Graft with Higher Bioactivity. Key Engineering Materials, 2007, 330-332, 943-946.	0.4	1
101	Cell-Biomaterial Interactions Reproducing a Niche. , 0, , .		1
102	Clinical Applications of Bone Tissue Engineering. , 2009, , 1-18.		1
103	Investigating the Paracrine Role of Perinatal Derivatives: Human Amniotic Fluid Stem Cell-Extracellular Vesicles Show Promising Transient Potential for Cardiomyocyte Renewal. Frontiers in Bioengineering and Biotechnology, 0, 10, .	2.0	1
104	Chondrocyte Differentiation in Vitro from Clones of Prechondrogenic Cells. Annals of the New York Academy of Sciences, 1990, 580, 532-535.	1.8	0
105	Processing of Ca-P Ceramics, Surface Characteristics and Biological Performance. Key Engineering Materials, 2003, 254-256, 833-836.	0.4	0
106	Knocking out the bad allele. Gene Therapy, 2004, 11, 1301-1302.	2.3	0