

Rodolfo Quarto

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2944061/publications.pdf>

Version: 2024-02-01

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	A Two-Step Approach to Tune the Micro and Nanoscale Morphology of Porous Niobium Oxide to Promote Osteointegration. <i>Materials</i> , 2022, 15, 473.	1.3	2
2	Small Extracellular Vesicles from Human Amniotic Fluid Samples as Promising Theranostics. <i>International Journal of Molecular Sciences</i> , 2022, 23, 590.	1.8	11
3	Circulating miRNAs in Breast Cancer Diagnosis and Prognosis. <i>Cancers</i> , 2022, 14, 2317.	1.7	16
4	Targeting PIK3CA Actionable Mutations in the Circulome: A Proof of Concept in Metastatic Breast Cancer. <i>International Journal of Molecular Sciences</i> , 2022, 23, 6320.	1.8	4
5	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). <i>Biomaterials</i> , 2021, 269, 120633.	5.7	59
6	Extracellular Vesicles as Biomarkers and Therapeutic Tools: From Pre-Clinical to Clinical Applications. <i>Biology</i> , 2021, 10, 359.	1.3	69
7	Comprehensive Profiling of Secretome Formulations from Fetal- and Perinatal Human Amniotic Fluid Stem Cells. <i>International Journal of Molecular Sciences</i> , 2021, 22, 3713.	1.8	14
8	The Human Fetal and Adult Stem Cell Secretome Can Exert Cardioprotective Paracrine Effects against Cardiotoxicity and Oxidative Stress from Cancer Treatment. <i>Cancers</i> , 2021, 13, 3729.	1.7	10
9	Young at Heart: Combining Strategies to Rejuvenate Endogenous Mechanisms of Cardiac Repair. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 447.	2.0	17
10	Isolation and Flow Cytometry Characterization of Extracellular Vesicle Subpopulations Derived from Human Mesenchymal Stromal Cells. <i>Current Protocols in Stem Cell Biology</i> , 2019, 48, e76.	3.0	25
11	Atomic force microscopy for biomechanical and structural analysis of human dermis: A complementary tool for medical diagnosis and therapy monitoring. <i>Experimental Dermatology</i> , 2018, 27, 150-155.	1.4	25
12	Circulating healing (CH) cells expressing BST2 are functionally activated by the injury-regulated systemic factor HGFA. <i>Stem Cell Research and Therapy</i> , 2018, 9, 300.	2.4	12
13	“Green-reduced” graphene oxide induces in vitro an enhanced biomimetic mineralization of polycaprolactone electrospun meshes. <i>Materials Science and Engineering C</i> , 2018, 93, 1044-1053.	3.8	38
14	Skin Rejuvenation and Volume Enhancement with the Micro Superficial Enhanced Fluid Fat Injection (M-SEFFI) for Skin Aging of the Periocular and Perioral Regions. <i>Aesthetic Surgery Journal</i> , 2017, 37, 14-23.	0.9	40
15	Enhanced mechanical performances and bioactivity of cell laden-graphene oxide/alginate hydrogels open new scenario for articular tissue engineering applications. <i>Carbon</i> , 2017, 115, 608-616.	5.4	69
16	Generation of a Functional Human Neural Network by NDM29 Overexpression in Neuroblastoma Cancer Cells. <i>Molecular Neurobiology</i> , 2017, 54, 6097-6106.	1.9	8
17	Bone Structural Similarity Score: A Multiparametric Tool to Match Properties of Biomimetic Bone Substitutes with their Target Tissues. <i>Journal of Applied Biomaterials and Functional Materials</i> , 2016, 14, e277-e289.	0.7	10
18	C6: A Monoclonal Antibody Specific for a Fibronectin Epitope Situated at the Interface between the Oncofoetal Extra-Domain B and the Repeat III8. <i>PLoS ONE</i> , 2016, 11, e0148103.	1.1	5

#	ARTICLE	IF	CITATIONS
19	Chemical and morphological gradient scaffolds to mimic hierarchically complex tissues: From theoretical modeling to their fabrication. <i>Biotechnology and Bioengineering</i> , 2016, 113, 2286-2297.	1.7	14
20	Bone Tissue Engineering: Pastâ€“Presentâ€“Future. <i>Methods in Molecular Biology</i> , 2016, 1416, 21-33.	0.4	32
21	Rheological properties, biocompatibility and in vivo performance of new hydrogel-based bone fillers. <i>Biomaterials Science</i> , 2016, 4, 1691-1703.	2.6	10
22	Interaction Between Breast Cancer Cells and Adipose Tissue Cells Derived from Fat Grafting. <i>Aesthetic Surgery Journal</i> , 2016, 36, 358-363.	0.9	39
23	Design and characterization of a tissue-engineered bilayer scaffold for osteochondral tissue repair. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2015, 9, 1182-1192.	1.3	33
24	Superficial Enhanced Fluid Fat Injection (SEFFI) to Correct Volume Defects and Skin Aging of the Face and Periocular Region. <i>Aesthetic Surgery Journal</i> , 2015, 35, 504-515.	0.9	53
25	A Comparative Evaluation between New Ternary Zirconium Alloys as Alternative Metals for Orthopedic and Dental Prosthetic Devices. <i>International Journal of Artificial Organs</i> , 2014, 37, 149-164.	0.7	4
26	Defining an optimal stromal derived factorâ€“1 presentation for effective recruitment of mesenchymal stem cells in 3D. <i>Biotechnology and Bioengineering</i> , 2014, 111, 2303-2316.	1.7	10
27	MgCHA particles dispersion in porous PCL scaffolds: <i>in vitro</i> mineralization and <i>in vivo</i> bone formation. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2014, 8, 291-303.	1.3	30
28	Response of osteoblast-like MG63 on neoglycosylated collagen matrices. <i>MedChemComm</i> , 2014, 5, 1208-1212.	3.5	8
29	A novel scaffold geometry for chondral applications: Theoretical model and in vivo validation. <i>Biotechnology and Bioengineering</i> , 2014, 111, 2107-2119.	1.7	16
30	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. <i>Haematologica</i> , 2014, 99, 1078-1087.	1.7	43
31	Composite Electrospun Nanofibers for Influencing Stem Cell Fate. <i>Methods in Molecular Biology</i> , 2013, 1058, 25-40.	0.4	5
32	Mesenchymal Stem Cells Induce Functionally Active T-Regulatory Lymphocytes in a Paracrine Fashion and Ameliorate Experimental Autoimmune Uveitis. , 2012, 53, 786.		93
33	Order versus Disorder: in vivo bone formation within osteoconductive scaffolds. <i>Scientific Reports</i> , 2012, 2, 274.	1.6	67
34	The influence of plasma technology coupled to chemical grafting on the cell growth compliance of 3D hydroxyapatite scaffolds. <i>Journal of Materials Science: Materials in Medicine</i> , 2012, 23, 2727-2738.	1.7	7
35	TGF Î²â€“1 administration during Ex vivo expansion of human articular chondrocytes in a serumâ€“free medium redirects the cell phenotype toward hypertrophy. <i>Journal of Cellular Physiology</i> , 2012, 227, 3282-3290.	2.0	47
36	In vivo lamellar bone formation in fibre coated MgCHAâ€“PCL-composite scaffolds. <i>Journal of Materials Science: Materials in Medicine</i> , 2012, 23, 117-128.	1.7	17

#	ARTICLE	IF	CITATIONS
37	Regulation of Human Mesenchymal Stem Cell Functions by an Autocrine Loop Involving NAD ⁺ Release and P2Y ₁₁ -Mediated Signaling. <i>Stem Cells and Development</i> , 2011, 20, 1183-1198.	1.1	50
38	Differences in Chemical Composition and Internal Structure Influence Systemic Host Response to Implants of Biomaterials. <i>International Journal of Artificial Organs</i> , 2011, 34, 422-431.	0.7	5
39	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. <i>Haematologica</i> , 2011, 96, 1015-1023.	1.7	37
40	Study of the in vitro corrosion behavior and biocompatibility of Zr-2.5Nb and Zr-1.5Nb-1Ta (at%) crystalline alloys. <i>Journal of Materials Science: Materials in Medicine</i> , 2011, 22, 1293-1302.	1.7	36
41	Mesenchymal stem cell culture in convection-enhanced hollow fibre membrane bioreactors for bone tissue engineering. <i>Journal of Membrane Science</i> , 2011, 379, 341-352.	4.1	21
42	Osteoinduction of Human Mesenchymal Stem Cells by Bioactive Composite Scaffolds without Supplemental Osteogenic Growth Factors. <i>PLoS ONE</i> , 2011, 6, e26211.	1.1	178
43	Orderly osteochondral regeneration in a sheep model using a novel nano-composite multilayered biomaterial. <i>Journal of Orthopaedic Research</i> , 2010, 28, 116-124.	1.2	177
44	The administration of demethyl fruticulín A from <i>Salvia corrugata</i> to mammalian cells lines induces α -anoikis, a special form of apoptosis. <i>Phytomedicine</i> , 2010, 17, 449-456.	2.3	11
45	Bone invading NSCLC cells produce IL-7: mice model and human histologic data. <i>BMC Cancer</i> , 2010, 10, 12.	1.1	37
46	Demethyl fruticulín A (SCO ¹) causes apoptosis by inducing reactive oxygen species in mitochondria. <i>Journal of Cellular Biochemistry</i> , 2010, 111, 1149-1159.	1.2	11
47	α -type natriuretic peptide: Structural studies, fragment synthesis, and preliminary biological evaluation in human osteosarcoma cell lines. <i>Biopolymers</i> , 2010, 94, 213-219.	1.2	5
48	Novel nanostructured scaffold for osteochondral regeneration: pilot study in horses. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2010, 4, 300-308.	1.3	100
49	A composite material model for improved bone formation. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2010, 4, 505-513.	1.3	25
50	A Three-Dimensional Traction/Torsion Bioreactor System for Tissue Engineering. <i>International Journal of Artificial Organs</i> , 2010, 33, 362-369.	0.7	13
51	Short-Time Survival and Engraftment of Bone Marrow Stromal Cells in an Ectopic Model of Bone Regeneration. <i>Tissue Engineering - Part A</i> , 2010, 16, 489-499.	1.6	77
52	A three-dimensional traction/torsion bioreactor system for tissue engineering. <i>International Journal of Artificial Organs</i> , 2010, 33, 362-9.	0.7	2
53	Preparation and properties of macroporous brushite bone cements. <i>Acta Biomaterialia</i> , 2009, 5, 2161-2168.	4.1	43
54	Hydroxyapatite-Coated Polycaprolacton Wide Mesh as a Model of Open Structure for Bone Regeneration. <i>Tissue Engineering - Part A</i> , 2009, 15, 155-163.	1.6	18

#	ARTICLE	IF	CITATIONS
55	Osteogenic Differentiation of Human Mesenchymal Stromal Cells on Surface-Modified Titanium Alloys for Orthopedic and Dental Implants. <i>International Journal of Artificial Organs</i> , 2009, 32, 811-820.	0.7	26
56	Clinical Applications of Bone Tissue Engineering. , 2009, , 1-18.		1
57	Design of graded biomimetic osteochondral composite scaffolds. <i>Biomaterials</i> , 2008, 29, 3539-3546.	5.7	233
58	DLX5 overexpression impairs osteogenic differentiation of human bone marrow stromal cells. <i>European Journal of Cell Biology</i> , 2008, 87, 751-761.	1.6	18
59	Bone Marrow Stromal Cells and Their Use in Regenerating Bone. <i>Novartis Foundation Symposium</i> , 2008, , 133-147.	1.2	86
60	Biomimetic Bone Graft with Higher Bioactivity. <i>Key Engineering Materials</i> , 2007, 330-332, 943-946.	0.4	1
61	Stem Cells Associated with Macroporous Bioceramics for Long Bone Repair: 6- to 7-Year Outcome of a Pilot Clinical Study. <i>Tissue Engineering</i> , 2007, 13, 947-955.	4.9	529
62	Human Bone Marrow Stromal Cells Hamper Specific Interactions of CD4 and CD8 T Lymphocytes with Antigen-Presenting Cells. <i>Human Immunology</i> , 2006, 67, 976-985.	1.2	15
63	Role of scaffold internal structure on in vivo bone formation in macroporous calcium phosphate bioceramics. <i>Biomaterials</i> , 2006, 27, 3230-3237.	5.7	451
64	Engineering of osteoinductive grafts by isolation and expansion of ovine bone marrow stromal cells directly on 3D ceramic scaffolds. <i>Biotechnology and Bioengineering</i> , 2006, 93, 181-187.	1.7	56
65	Three-Dimensional Perfusion Culture of Human Bone Marrow Cells and Generation of Osteoinductive Grafts. <i>Stem Cells</i> , 2005, 23, 1066-1072.	1.4	182
66	A simple non invasive computerized method for the assessment of bone repair within osteoconductive porous bioceramic grafts. <i>Biotechnology and Bioengineering</i> , 2005, 92, 189-198.	1.7	13
67	Knocking out the bad allele. <i>Gene Therapy</i> , 2004, 11, 1301-1302.	2.3	0
68	Gene expression profile of human bone marrow stromal cells determined by restriction fragment differential display analysis. <i>Journal of Cellular Biochemistry</i> , 2004, 92, 733-744.	1.2	25
69	Cell Therapy for Bone Disease: A Review of Current Status. <i>Stem Cells</i> , 2003, 21, 610-619.	1.4	141
70	Osteogenic potential of rat spleen stromal cells. <i>European Journal of Cell Biology</i> , 2003, 82, 175-181.	1.6	21
71	Ex vivo enrichment of mesenchymal cell progenitors by fibroblast growth factor 2. <i>Experimental Cell Research</i> , 2003, 287, 98-105.	1.2	343
72	Tissue engineering and cell therapy of cartilage and bone. <i>Matrix Biology</i> , 2003, 22, 81-91.	1.5	453

#	ARTICLE	IF	CITATIONS
73	Processing of Ca-P Ceramics, Surface Characteristics and Biological Performance. Key Engineering Materials, 2003, 254-256, 833-836.	0.4	0
74	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
75	Replicative Aging and Gene Expression in Long-Term Cultures of Human Bone Marrow Stromal Cells. Tissue Engineering, 2002, 8, 901-910.	4.9	204
76	From stem cells to tissue-specific differentiation. Minimally Invasive Therapy and Allied Technologies, 2002, 11, 101-105.	0.6	1
77	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
78	Fluorescence Microscopy Imaging of Bone for Automated Histomorphometry. Tissue Engineering, 2002, 8, 847-852.	4.9	47
79	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
80	Bone Marrow Stromal Damage after Chemo/Radiotherapy: Occurrence, Consequences and Possibilities of Treatment. Leukemia and Lymphoma, 2001, 42, 863-870.	0.6	107
81	Microenvironment and stem properties of bone marrow-derived mesenchymal cells. Wound Repair and Regeneration, 2001, 9, 460-466.	1.5	58
82	High-dose chemotherapy shows a dose-dependent toxicity to bone marrow osteoprogenitors. Cancer, 2001, 92, 2419-2428.	2.0	128
83	Proliferation kinetics and differentiation potential of ex vivo expanded human bone marrow stromal cells. Experimental Hematology, 2000, 28, 707-715.	0.2	662
84	Liver xenoassistance: biosafety. Transplantation Proceedings, 2000, 32, 2696-2697.	0.3	1
85	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
86	Reconstruction of Extensive Long-Bone Defects in Sheep Using Porous Hydroxyapatite Sponges. Calcified Tissue International, 1999, 64, 83-90.	1.5	117
87	Stromal damage as consequence of high-dose chemo/radiotherapy in bone marrow transplant recipients. Experimental Hematology, 1999, 27, 1460-1466.	0.2	261
88	Osteoconduction in large macroporous hydroxyapatite ceramic implants: evidence for a complementary integration and disintegration mechanism. Bone, 1999, 24, 579-589.	1.4	155
89	A Nude Mouse Model for Human Bone Formation in Unloaded Conditions. Bone, 1998, 22, 131S-134S.	1.4	123
90	Prefabricated Engineered Bone Flaps: An Experimental Model of Tissue Reconstruction in Plastic Surgery. Plastic and Reconstructive Surgery, 1998, 101, 577-581.	0.7	63

#	ARTICLE	IF	CITATIONS
91	Modulation of Commitment, Proliferation, and Differentiation of Chondrogenic Cells in Defined Culture Medium. Endocrinology, 1997, 138, 4966-4976.	1.4	75
92	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
93	Bone progenitor cell deficits and the age-associated decline in bone repair capacity. Calcified Tissue International, 1995, 56, 123-129.	1.5	329
94	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
95	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
96	Cell condensation in chondrogenic differentiation. Experimental Cell Research, 1992, 200, 26-33.	1.2	122
97	Constitutive myc expression impairs hypertrophy and calcification in cartilage. Developmental Biology, 1992, 149, 168-176.	0.9	27
98	Chondrocyte Differentiation in Vitro from Clones of Prechondrogenic Cells. Annals of the New York Academy of Sciences, 1990, 580, 532-535.	1.8	0
99	Calcification of in vitro developed hypertrophic cartilage. Developmental Biology, 1989, 132, 442-447.	0.9	40
100	The receptor for immunoglobulin E: Examination for kinase activity and as a substrate for kinases. Molecular Immunology, 1986, 23, 1215-1223.	1.0	41
101	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
102	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
103	Coordinate synthesis and degradation of the $\hat{1}\pm$, $\hat{1}^2$ - and $\hat{1}^3$ -subunits of the receptor for immunoglobulin E. Molecular Immunology, 1985, 22, 1045-1051.	1.0	44
104	Noncovalently and covalently bound lipid on the receptor for immunoglobulin E. Biochemistry, 1985, 24, 7342-7348.	1.2	40
105	Cell-Biomaterial Interactions Reproducing a Niche. , 0, , .		1
106	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