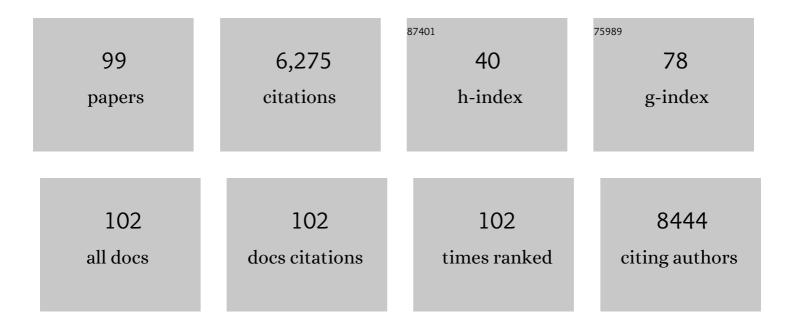
Rene Olivares-Navarrete

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/7771130/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	Roughness and wettability of titanium implant surfaces modify the salivary pellicle composition. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2021, 109, 1017-1028.	1.6	10
2	Surface characteristics on commercial dental implants differentially activate macrophages in vitro and in vivo. Clinical Oral Implants Research, 2021, 32, 487-497.	1.9	20
3	Control of innate immune response by biomaterial surface topography, energy, and stiffness. Acta Biomaterialia, 2021, 133, 58-73.	4.1	79
4	Substrate stiffness induces neutrophil extracellular trap (NET) formation through focal adhesion kinase activation. Biomaterials, 2021, 271, 120715.	5.7	34
5	E-cigarette aerosol mixtures inhibit biomaterial-induced osseointegrative cell phenotypes. Materialia, 2021, 20, 101241.	1.3	1
6	Hydrophilic titanium surfaces reduce neutrophil inflammatory response and NETosis. Biomaterials Science, 2020, 8, 2289-2299.	2.6	54
7	Wnt signaling modulates macrophage polarization and is regulated by biomaterial surface properties. Biomaterials, 2020, 243, 119920.	5.7	74
8	Novel in vitro comparative model of osteogenic and inflammatory cell response to dental implants. Dental Materials, 2019, 35, 176-184.	1.6	47
9	Spatial regulation of gene expression in nonsyndromic sagittal craniosynostosis. Journal of Neurosurgery: Pediatrics, 2018, 22, 620-626.	0.8	5
10	Human osteoblasts exhibit sexual dimorphism in their response to estrogen on microstructured titanium surfaces. Biology of Sex Differences, 2018, 9, 30.	1.8	20
11	Macrophage response to hydrophilic biomaterials regulates MSC recruitment and T-helper cell populations. Biomaterials, 2018, 182, 202-215.	5.7	116
12	Role of Wnt11 during Osteogenic Differentiation of Human Mesenchymal Stem Cells on Microstructured Titanium Surfaces. Scientific Reports, 2018, 8, 8588.	1.6	24
13	Cigarette smoke increases pro-inflammatory markers and inhibits osteogenic differentiation in experimental exposure model. Acta Biomaterialia, 2018, 76, 308-318.	4.1	33
14	Comparable responses of osteoblast lineage cells to microstructured hydrophilic titanium–zirconium and microstructured hydrophilic titanium. Clinical Oral Implants Research, 2017, 28, e51-e59.	1.9	34
15	Dental implant surface chemistry and energy alter macrophage activation <i>inÂvitro</i> . Clinical Oral Implants Research, 2017, 28, 414-423.	1.9	70
16	Inhibition of angiogenesis impairs bone healing in an <i>in vivo</i> murine rapid resynostosis model. Journal of Biomedical Materials Research - Part A, 2017, 105, 2742-2749.	2.1	15
17	Bone Morphogenetic Protein 2 Alters Osteogenesis and Anti-Inflammatory Profiles of Mesenchymal Stem Cells Induced by Microtextured Titanium <i>In Vitro</i> . Tissue Engineering - Part A, 2017, 23, 1132-1141.	1.6	24
18	Enhancing the osteoblastic differentiation through nanoscale surface modifications. Journal of Biomedical Materials Research - Part A, 2017, 105, 498-509.	2.1	13

Rene Olivares-Navarrete

#	Article	IF	CITATIONS
19	Substrate Stiffness Controls Osteoblastic and Chondrocytic Differentiation of Mesenchymal Stem Cells without Exogenous Stimuli. PLoS ONE, 2017, 12, e0170312.	1.1	157
20	E-cigarette aerosol exposure can cause craniofacial defects in Xenopus laevis embryos and mammalian neural crest cells. PLoS ONE, 2017, 12, e0185729.	1.1	38
21	Influence of the Periodontal Status on the Initialâ€Biofilm Formation on Titanium Surfaces. Clinical Implant Dentistry and Related Research, 2016, 18, 174-181.	1.6	15
22	Differential spatial regulation of BMP molecules is associated with single-suture craniosynostosis. Journal of Neurosurgery: Pediatrics, 2016, 18, 83-91.	0.8	11
23	Implant Surface Design Regulates Mesenchymal Stem Cell Differentiation and Maturation. Advances in Dental Research, 2016, 28, 10-17.	3.6	64
24	Role of integrin α7β1 signaling in myoblast differentiation on aligned polydioxanone scaffolds. Acta Biomaterialia, 2016, 39, 44-54.	4.1	24
25	Hydrogels derived from cartilage matrices promote induction of human mesenchymal stem cell chondrogenic differentiation. Acta Biomaterialia, 2016, 43, 139-149.	4.1	34
26	Osteogenic response of human MSCs and osteoblasts to hydrophilic and hydrophobic nanostructured titanium implant surfaces. Journal of Biomedical Materials Research - Part A, 2016, 104, 3137-3148.	2.1	71
27	Characterization of osteoarthritic human knees indicates potential sex differences. Biology of Sex Differences, 2016, 7, 27.	1.8	30
28	Craniosynostosis and Resynostosis. Journal of Dental Research, 2016, 95, 846-852.	2.5	12
29	Titanium surface characteristics, including topography and wettability, alter macrophage activation. Acta Biomaterialia, 2016, 31, 425-434.	4.1	471
30	Role of integrin α ₂ β ₁ in mediating osteoblastic differentiation on threeâ€dimensional titanium scaffolds with submicronâ€scale texture. Journal of Biomedical Materials Research - Part A, 2015, 103, 1907-1918.	2.1	26
31	Regulation of Osteoblast Differentiation by Acid-Etched and/or Grit-Blasted Titanium Substrate Topography Is Enhanced by 1,25(OH) ₂ D ₃ in a Sex-Dependent Manner. BioMed Research International, 2015, 2015, 1-9.	0.9	13
32	Automated analysis and predictive modeling of craniosynostosis with cranial suture measurements and intracranial volume asymmetries using the snake algorithm. Journal of Biomedical Engineering and Informatics, 2015, 2, 132.	0.2	1
33	Implant Materials Generate Different Peri-implant Inflammatory Factors. Spine, 2015, 40, 399-404.	1.0	127
34	Role of α2β1 integrins in mediating cell shape on microtextured titanium surfaces. Journal of Biomedical Materials Research - Part A, 2015, 103, 564-573.	2.1	38
35	Role of integrin subunits in mesenchymal stem cell differentiation and osteoblast maturation on graphitic carbon-coated microstructured surfaces. Biomaterials, 2015, 51, 69-79.	5.7	86
36	A review of 1α,25(OH)2D3 dependent Pdia3 receptor complex components in Wnt5a non-canonical pathway signaling. Journal of Steroid Biochemistry and Molecular Biology, 2015, 152, 84-88.	1.2	29

#	Article	IF	CITATIONS
37	Coordinated regulation of mesenchymal stem cell differentiation on microstructured titanium surfaces by endogenous bone morphogenetic proteins. Bone, 2015, 73, 208-216.	1.4	34
38	Osteoblast maturation on microtextured titanium involves paracrine regulation of bone morphogenetic protein signaling. Journal of Biomedical Materials Research - Part A, 2015, 103, 1721-1731.	2.1	20
39	Characterization of Distinct Classes of Differential Gene Expression in Osteoblast Cultures from Non-Syndromic Craniosynostosis Bone. Journal of Genomics, 2014, 2, 121-130.	0.6	9
40	Superposition of nanostructures on microrough titanium–aluminum–vanadium alloy surfaces results in an altered integrin expression profile in osteoblasts. Connective Tissue Research, 2014, 55, 164-168.	1.1	20
41	Osteoblast Lineage Cells Can Discriminate Microscale Topographic Features on Titanium–Aluminum–Vanadium Surfaces. Annals of Biomedical Engineering, 2014, 42, 2551-2561.	1.3	67
42	Implant osseointegration and the role of microroughness and nanostructures: Lessons for spine implants. Acta Biomaterialia, 2014, 10, 3363-3371.	4.1	344
43	Osteoblasts Secrete Pro-Inflammatory Cytokines on PEEK but Anti-inflammatory Cytokines on Microstructured Titanium. Spine Journal, 2014, 14, S87.	0.6	2
44	Rapidly polymerizing injectable click hydrogel therapy to delay bone growth in a murine re-synostosis model. Biomaterials, 2014, 35, 9698-9708.	5.7	45
45	Mechanical stiffness as an improved single-cell indicator of osteoblastic human mesenchymal stem cell differentiation. Journal of Biomechanics, 2014, 47, 2197-2204.	0.9	61
46	Signaling components of the 1α,25(OH)2D3-dependent Pdia3 receptor complex are required for Wnt5a calcium-dependent signaling. Biochimica Et Biophysica Acta - Molecular Cell Research, 2014, 1843, 2365-2375.	1.9	30
47	Micro/nanorough titanium-aluminum-vanadium alloy surfaces trigger alternate osteoblast integrin expression profile. , 2014, , .		0
48	Impaired Bone Formation in Pdia3 Deficient Mice. PLoS ONE, 2014, 9, e112708.	1.1	19
49	Role of the N-terminal peptide of amelogenin on osteoblastic differentiation of human mesenchymal stem cells. , 2014, 28, 1-10.		4
50	Chaperone Properties of Pdia3 Participate in Rapid Membrane Actions of 1α,25-Dihydroxyvitamin D3. Molecular Endocrinology, 2013, 27, 1065-1077.	3.7	18
51	Electrical polarization of titanium surfaces for the enhancement of osteoblast differentiation. Bioelectromagnetics, 2013, 34, 599-612.	0.9	28
52	Rough titanium alloys regulate osteoblast production of angiogenic factors. Spine Journal, 2013, 13, 1563-1570.	0.6	112
53	Rapid re-synostosis following suturectomy in pediatric mice is age and location dependent. Bone, 2013, 53, 284-293.	1.4	7
54	Microstructured titanium regulates interleukin production by osteoblasts, an effect modulated by exogenous BMP-2. Acta Biomaterialia, 2013, 9, 5821-5829.	4.1	35

#	Article	IF	CITATIONS
55	The roles of titanium surface micro/nanotopography and wettability on the differential response of human osteoblast lineage cells. Acta Biomaterialia, 2013, 9, 6268-6277.	4.1	252
56	Biphasic Fusion of the Murine Posterior Frontal Suture. Plastic and Reconstructive Surgery, 2013, 131, 727-740.	0.7	6
57	Amelogenin Peptide Extract Increases Differentiation and Angiogenic and Local Factor Production and Inhibits Apoptosis in Human Osteoblasts. ISRN Biomaterials, 2013, 2013, 1-11.	0.7	2
58	Osteogenic Differentiation of Stem Cells Alters Vitamin D Receptor Expression. Stem Cells and Development, 2012, 21, 1726-1735.	1.1	24
59	Osteoblasts exhibit a more differentiated phenotype and increased bone morphogenetic protein production on titanium alloy substrates than on poly-ether-ether-ketone. Spine Journal, 2012, 12, 265-272.	0.6	168
60	The responses to surface wettability gradients induced by chitosan nanofilms on microtextured titanium mediated by specific integrin receptors. Biomaterials, 2012, 33, 7386-7393.	5.7	99
61	BMP2 induces osteoblast apoptosis in a maturation state and nogginâ€dependent manner. Journal of Cellular Biochemistry, 2012, 113, 3236-3245.	1.2	44
62	Differential responses of osteoblast lineage cells to nanotopographically-modified, microroughened titanium–aluminum–vanadium alloy surfaces. Biomaterials, 2012, 33, 8986-8994.	5.7	141
63	Interrelationship of Cranial Suture Fusion, Basicranial Development, and Resynostosis Following Suturectomy in Twist1+/â՞' Mice, a Murine Model of Saethre-Chotzen Syndrome. Calcified Tissue International, 2012, 91, 255-266.	1.5	17
64	Effects of resveratrol on enrichment of adipose-derived stem cells and their differentiation to osteoblasts in two-and three-dimensional cultures. Journal of Tissue Engineering and Regenerative Medicine, 2012, 6, s34-s46.	1.3	22
65	Osteoblast maturation and new bone formation in response to titanium implant surface features are reduced with age. Journal of Bone and Mineral Research, 2012, 27, 1773-1783.	3.1	71
66	Membrane Estrogen Signaling Enhances Tumorigenesis and Metastatic Potential of Breast Cancer Cells via Estrogen Receptor-α36 (ERα36). Journal of Biological Chemistry, 2012, 287, 7169-7181.	1.6	89
67	Algorithm to Assess Cranial Suture Fusion with Varying and Discontinuous Mineral Density. Annals of Biomedical Engineering, 2012, 40, 1597-1609.	1.3	6
68	Effects of structural properties of electrospun TiO2 nanofiber meshes on their osteogenic potential. Acta Biomaterialia, 2012, 8, 878-885.	4.1	59
69	Effect of cleaning and sterilization on titanium implant surface properties and cellular response. Acta Biomaterialia, 2012, 8, 1966-1975.	4.1	169
70	Influence of topography and hydrophilicity on initial oral biofilm formation on microstructured titanium surfaces <i>in vitro</i> . Clinical Oral Implants Research, 2012, 23, 301-307.	1.9	74
71	Use of polyelectrolyte thin films to modulate Osteoblast response to microstructured titanium surfaces. Biomaterials, 2012, 33, 5267-5277.	5.7	33
72	Enhancement of Surface Wettability via the Modification of Microtextured Titanium Implant Surfaces with Polyelectrolytes. Langmuir, 2011, 27, 5976-5985.	1.6	40

#	Article	IF	CITATIONS
73	Bone Tissue Grafting and Tissue Engineering Concepts. , 2011, , 237-255.		2
74	Electrical Implications of Corrosion for Osseointegration of Titanium Implants. Journal of Dental Research, 2011, 90, 1389-1397.	2.5	102
75	Biocompatibility of Niobium Coatings. Coatings, 2011, 1, 72-87.	1.2	88
76	21: TEMPORAL CHANGES IN GENE EXPRESSION REGULATING MOUSE POSTERIOR FRONTAL SUTURE FUSION. Plastic and Reconstructive Surgery, 2011, 127, 19.	0.7	0
77	109: INCREASED OSTEOBLASTOGENESIS AND WNT/BMP GENE REGULATION IN NON-SYNDROMIC LAMBDOID CRANIOSYNOSTOSIS. Plastic and Reconstructive Surgery, 2011, 127, 63.	0.7	0
78	124: A NOVEL ALGORITHM TO ANALYZE CORONAL SUTURE DEVELOPMENT IN MICE. Plastic and Reconstructive Surgery, 2011, 127, 70.	0.7	5
79	16: GENE EXPRESSION PROFILE IN NON-SYNDROMIC METOPIC CRANIOSYNOSTOSIS. Plastic and Reconstructive Surgery, 2011, 127, 16.	0.7	0
80	Role of non-canonical Wnt signaling in osteoblast maturation on microstructured titanium surfaces. Acta Biomaterialia, 2011, 7, 2740-2750.	4.1	68
81	The effects of combined micron-/submicron-scale surface roughness and nanoscale features on cell proliferation and differentiation. Biomaterials, 2011, 32, 3395-3403.	5.7	709
82	Mediation of osteogenic differentiation of human mesenchymal stem cells on titanium surfaces by a Wnt-integrin feedback loop. Biomaterials, 2011, 32, 6399-6411.	5.7	128
83	The role of phospholipase D in osteoblast response to titanium surface microstructure. Journal of Biomedical Materials Research - Part A, 2010, 93A, 897-909.	2.1	9
84	197A: THE DEVELOPMENT OF NOVEL MICRO-COMPUTED TOMOGRAPHY SNAKE ALGORITHM TO DETERMINE TIME COURSE OF POSTERIOR FRONTAL SUTURE CLOSURE IN MICE. Plastic and Reconstructive Surgery, 2010, 125, 129.	0.7	4
85	161A: PHARMACOLOGICAL ENRICHMENT: A NEW APPROACH TO ADIPOSE-DERIVED STEM CELL ENRICHMENT. Plastic and Reconstructive Surgery, 2010, 125, 108.	0.7	0
86	Direct and indirect effects of microstructured titanium substrates on the induction of mesenchymal stem cell differentiation towards the osteoblast lineage. Biomaterials, 2010, 31, 2728-2735.	5.7	265
87	Use of molecular beacons to image effects of titanium surface microstructure on β1 integrin expression in live osteoblast-like cells. Biomaterials, 2010, 31, 7640-7647.	5.7	10
88	Regulation of angiogenesis during osseointegration by titanium surface microstructure and energy. Biomaterials, 2010, 31, 4909-4917.	5.7	188
89	The roles of Wnt signaling modulators Dickkopf-1 (Dkk1) and Dickkopf-2 (Dkk2) and cell maturation state in osteogenesis on microstructured titanium surfaces. Biomaterials, 2010, 31, 2015-2024.	5.7	61
90	Sex dependent regulation of osteoblast response to implant surface properties by systemic hormones. Biology of Sex Differences, 2010, 1, 4.	1.8	24

#	Article	IF	CITATIONS
91	Bacterial Adhesion on Polyelectrolyte Modified Microstructured Titanium Surfaces. Materials Research Society Symposia Proceedings, 2010, 1277, 6101.	0.1	0
92	Protein-disulfide Isomerase-associated 3 (Pdia3) Mediates the Membrane Response to 1,25-Dihydroxyvitamin D3 in Osteoblasts. Journal of Biological Chemistry, 2010, 285, 37041-37050.	1.6	85
93	Biocompatibility and Anti-microbial Properties of Silver Modified Amorphous Carbon Films. Materials Research Society Symposia Proceedings, 2009, 1244, 201.	0.1	2
94	Mechanisms regulating increased production of osteoprotegerin by osteoblasts cultured on microstructured titanium surfaces. Biomaterials, 2009, 30, 3390-3396.	5.7	123
95	Oral bacterial adhesion on amorphous carbon films. Diamond and Related Materials, 2009, 18, 1179-1185.	1.8	24
96	Integrin α2β1 plays a critical role in osteoblast response to micron-scale surface structure and surface energy of titanium substrates. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 15767-15772.	3.3	201
97	Beta-1 integrins mediate substrate dependent effects of 1α,25(OH)2D3 on osteoblasts. Journal of Steroid Biochemistry and Molecular Biology, 2007, 103, 606-609.	1.2	15
98	Integrin β1 silencing in osteoblasts alters substrate-dependent responses to 1,25-dihydroxy vitamin D3. Biomaterials, 2006, 27, 3716-3725.	5.7	69
99	Oral Bacterial Adhesion and Biocompatibility of Silver-Amorphous Carbon Films: A Surface Modification for Dental Implants. , 0, , .		1