

Rena N D souza

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

64

papers

3,418

citations

29

h-index

58

g-index

65

ext. papers

3,805

ext. citations

5.2

avg, IF

4.9

L-index

#	Paper	IF	Citations
64	Innovative Molecular and Cellular Therapeutics in Cleft Palate Tissue Engineering. <i>Tissue Engineering - Part B: Reviews</i> , 2021 , 27, 215-237	7.9	5
63	Pax9's dual roles in modulating Wnt signaling during murine palatogenesis. <i>Developmental Dynamics</i> , 2020 , 249, 1274-1284	2.9	3
62	Molecular Diagnostics and In Utero Therapeutics for Orofacial Clefts. <i>Journal of Dental Research</i> , 2020 , 99, 1221-1227	8.1	3
61	Expanded Differentiation Capability of Human Wharton's Jelly Stem Cells Toward Pluripotency: A Systematic Review. <i>Tissue Engineering - Part B: Reviews</i> , 2020 , 26, 301-312	7.9	3
60	FAM20B-catalyzed glycosaminoglycans control murine tooth number by restricting FGFR2b signaling. <i>BMC Biology</i> , 2020 , 18, 87	7.3	3
59	Modeling Hypoxia Induced Factors to Treat Pulpal Inflammation and Drive Regeneration. <i>Journal of Endodontics</i> , 2020 , 46, S19-S25	4.7	4
58	's Interaction With the Ectodysplasin Signaling Pathway During the Patterning of Dentition. <i>Frontiers in Physiology</i> , 2020 , 11, 581843	4.6	0
57	A Single-Step Self-Assembly Approach for the Fabrication of Aligned and Multilayered Three-Dimensional Tissue Constructs Using Multidomain Peptide Hydrogel. <i>SLAS Technology</i> , 2019 , 24, 55-65	3	6
56	Small-molecule Wnt agonists correct cleft palates in mutant mice. <i>Development (Cambridge)</i> , 2017 , 144, 3819-3828	6.6	27
55	How Research Training Will Shape the Future of Dental, Oral, and Craniofacial Research. <i>Journal of Dental Education</i> , 2017 , 81, eS73-eS82	1.6	7
54	Self-assembling multidomain peptides tailor biological responses through biphasic release. <i>Biomaterials</i> , 2015 , 52, 71-8	15.6	89
53	Twist1 Is Essential for Tooth Morphogenesis and Odontoblast Differentiation. <i>Journal of Biological Chemistry</i> , 2015 , 290, 29593-602	5.4	14
52	Sequence effects of self-assembling multidomain peptide hydrogels on encapsulated SHED cells. <i>Biomacromolecules</i> , 2014 , 15, 2004-11	6.9	44
51	Biomaterial-mesenchymal stem cell constructs for immunomodulation in composite tissue engineering. <i>Tissue Engineering - Part A</i> , 2014 , 20, 2162-8	3.9	45
50	Twist1- and Twist2-haploinsufficiency results in reduced bone formation. <i>PLoS ONE</i> , 2014 , 9, e99331	3.7	18
49	The WNT10A gene in ectodermal dysplasias and selective tooth agenesis. <i>American Journal of Medical Genetics, Part A</i> , 2014 , 164A, 2455-60	2.5	28
48	Is there a link between ovarian cancer and tooth agenesis?. <i>European Journal of Medical Genetics</i> , 2014 , 57, 235-9	2.6	21

47	Scaffolds to control inflammation and facilitate dental pulp regeneration. <i>Journal of Endodontics</i> , 2014 , 40, S6-12	4.7	46
46	Self-renewal and multilineage differentiation of mouse dental epithelial stem cells. <i>Stem Cell Research</i> , 2013 , 11, 990-1002	1.6	30
45	Evolving strategies for preventing biofilm on implantable materials. <i>Materials Today</i> , 2013 , 16, 177-182	21.8	71
44	Biomimetic engineering of nanofibrous gelatin scaffolds with noncollagenous proteins for enhanced bone regeneration. <i>Tissue Engineering - Part A</i> , 2013 , 19, 1754-63	3.9	37
43	The rescue of dentin matrix protein 1 (DMP1)-deficient tooth defects by the transgenic expression of dentin sialophosphoprotein (DSPP) indicates that DSPP is a downstream effector molecule of DMP1 in dentinogenesis. <i>Journal of Biological Chemistry</i> , 2013 , 288, 7204-14	5.4	56
42	Functional evaluation of a novel tooth agenesis-associated bone morphogenetic protein 4 prodomain mutation. <i>European Journal of Oral Sciences</i> , 2013 , 121, 313-8	2.3	5
41	Fibroblast growth factor signaling is essential for self-renewal of dental epithelial stem cells. <i>Journal of Biological Chemistry</i> , 2013 , 288, 28952-61	5.4	18
40	Nuclear localization of DMP1 proteins suggests a role in intracellular signaling. <i>Biochemical and Biophysical Research Communications</i> , 2012 , 424, 641-6	3.4	26
39	A customized self-assembling peptide hydrogel for dental pulp tissue engineering. <i>Tissue Engineering - Part A</i> , 2012 , 18, 176-84	3.9	201
38	Molecular studies on the roles of Runx2 and Twist1 in regulating FGF signaling. <i>Developmental Dynamics</i> , 2012 , 241, 1708-15	2.9	14
37	Transcriptional repression of the Dspp gene leads to dentinogenesis imperfecta phenotype in Col1a1-Trps1 transgenic mice. <i>Journal of Bone and Mineral Research</i> , 2012 , 27, 1735-45	6.3	13
36	Tissue engineering approaches for regenerative dentistry. <i>Regenerative Medicine</i> , 2011 , 6, 111-24	2.5	38
35	Dentin conditioning codetermines cell fate in regenerative endodontics. <i>Journal of Endodontics</i> , 2011 , 37, 1536-41	4.7	202
34	Bioengineering of dental stem cells in a PEGylated fibrin gel. <i>Regenerative Medicine</i> , 2011 , 6, 191-200	2.5	115
33	Regulation of bmp4 expression in odontogenic mesenchyme: from simple to complex. <i>Cells Tissues Organs</i> , 2011 , 194, 156-60	2.1	7
32	Functional analysis of Ectodysplasin-A mutations causing selective tooth agenesis. <i>European Journal of Human Genetics</i> , 2010 , 18, 19-25	5.3	45
31	Failure to process dentin matrix protein 1 (DMP1) into fragments leads to its loss of function in osteogenesis. <i>Journal of Biological Chemistry</i> , 2010 , 285, 31713-22	5.4	37
30	Self-assembling multidomain peptide hydrogels: designed susceptibility to enzymatic cleavage allows enhanced cell migration and spreading. <i>Journal of the American Chemical Society</i> , 2010 , 132, 3217-23	16.4	273

29	Biomaterials and their potential applications for dental tissue engineering. <i>Journal of Materials Chemistry</i> , 2010 , 20, 8730		37
28	Blocking of proteolytic processing and deletion of glycosaminoglycan side chain of mouse DMP1 by substituting critical amino acid residues. <i>Cells Tissues Organs</i> , 2009 , 189, 192-7	2.1	14
27	Identification and functional analysis of two novel PAX9 mutations. <i>Cells Tissues Organs</i> , 2009 , 189, 80-7	2.1	25
26	The NH ₂ -terminal and COOH-terminal fragments of dentin matrix protein 1 (DMP1) localize differently in the compartments of dentin and growth plate of bone. <i>Journal of Histochemistry and Cytochemistry</i> , 2009 , 57, 155-66	3.4	36
25	Pathogenic mechanisms of tooth agenesis linked to paired domain mutations in human PAX9. <i>Human Molecular Genetics</i> , 2009 , 18, 2863-74	5.6	29
24	From ectodermal dysplasia to selective tooth agenesis. <i>American Journal of Medical Genetics, Part A</i> , 2009 , 149A, 2037-41	2.5	18
23	Classifying ectodermal dysplasias: Incorporating the molecular basis and pathways (Workshop II). <i>American Journal of Medical Genetics, Part A</i> , 2009 , 149A, 2062-7	2.5	14
22	FGFR2 in the dental epithelium is essential for development and maintenance of the maxillary cervical loop, a stem cell niche in mouse incisors. <i>Developmental Dynamics</i> , 2009 , 238, 324-30	2.9	26
21	Particle size and shape of calcium hydroxide. <i>Journal of Endodontics</i> , 2009 , 35, 284-7	4.7	25
20	Genetics and human malformations. <i>Journal of Craniofacial Surgery</i> , 2009 , 20 Suppl 2, 1652-4	1.2	6
19	Self-assembling peptide amphiphile nanofibers as a scaffold for dental stem cells. <i>Tissue Engineering - Part A</i> , 2008 , 14, 2051-8	3.9	147
18	Novel expression and transcriptional regulation of FoxJ1 during oro-facial morphogenesis. <i>Human Molecular Genetics</i> , 2008 , 17, 3643-54	5.6	22
17	Extracellular matrix expression and periodontal wound-healing dynamics following guided tissue regeneration therapy in canine furcation defects. <i>Journal of Clinical Periodontology</i> , 2007 , 34, 691-708	7.7	22
16	Unraveling the molecular mechanisms that lead to supernumerary teeth in mice and men: current concepts and novel approaches. <i>Cells Tissues Organs</i> , 2007 , 186, 60-9	2.1	29
15	Functional consequences of interactions between Pax9 and Msx1 genes in normal and abnormal tooth development. <i>Journal of Biological Chemistry</i> , 2006 , 281, 18363-9	5.4	87
14	Human pulp-derived cells immortalized with Simian Virus 40 T-antigen. <i>European Journal of Oral Sciences</i> , 2006 , 114, 138-46	2.3	40
13	Molecular characterization of a novel PAX9 missense mutation causing posterior tooth agenesis. <i>European Journal of Human Genetics</i> , 2006 , 14, 403-9	5.3	56
12	Expression of Runx2/Cbfa1/Pebp2alphaA during angiogenesis in postnatal rodent and fetal human orofacial tissues. <i>Journal of Bone and Mineral Research</i> , 2005 , 20, 428-37	6.3	23

11	Studies on Pax9-Msx1 protein interactions. <i>Archives of Oral Biology</i> , 2005 , 50, 141-5	2.8	46
10	Functional analysis of a mutation in PAX9 associated with familial tooth agenesis in humans. <i>Journal of Biological Chemistry</i> , 2004 , 279, 5924-33	5.4	40
9	Dentin sialophosphoprotein knockout mouse teeth display widened predentin zone and develop defective dentin mineralization similar to human dentinogenesis imperfecta type III. <i>Journal of Biological Chemistry</i> , 2003 , 278, 24874-80	5.4	307
8	Haploinsufficiency of PAX9 is associated with autosomal dominant hypodontia. <i>Human Genetics</i> , 2002 , 110, 371-6	6.3	108
7	Identification of tooth-specific downstream targets of Runx2. <i>Gene</i> , 2001 , 279, 91-7	3.8	14
6	Mutation of PAX9 is associated with oligodontia. <i>Nature Genetics</i> , 2000 , 24, 18-9	36.3	393
5	Genomic organization, chromosomal mapping, and promoter analysis of the mouse dentin sialophosphoprotein (Dspp) gene, which codes for both dentin sialoprotein and dentin phosphoprotein. <i>Journal of Biological Chemistry</i> , 1998 , 273, 9457-64	5.4	173
4	Analysis of tooth development in mice bearing a TGF-beta 1 null mutation. <i>Connective Tissue Research</i> , 1995 , 32, 41-6	3.3	20
3	Osteoblast-specific expression of the alpha 2(I) collagen promoter in transgenic mice: correlation with the distribution of TGF-beta 1. <i>Journal of Bone and Mineral Research</i> , 1993 , 8, 1127-36	6.3	26
2	Dentin sialoprotein: biosynthesis and developmental appearance in rat tooth germs in comparison with amelogenins, osteocalcin and collagen type-I. <i>Cell and Tissue Research</i> , 1993 , 272, 237-47	4.2	81
1	Clinical correlate: Tooth Agenesis129-134		