

# Rena N D souza

## List of Publications by Citations

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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	Mutation of PAX9 is associated with oligodontia. <i>Nature Genetics</i> , <b>2000</b> , 24, 18-9	36.3	393
63	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> , <b>2003</b> , 278, 24874-80	5.4	307
62	Self-assembling multidomain peptide hydrogels: designed susceptibility to enzymatic cleavage allows enhanced cell migration and spreading. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 3217-23	16.4	273
61	Dentin conditioning codetermines cell fate in regenerative endodontics. <i>Journal of Endodontics</i> , <b>2011</b> , 37, 1536-41	4.7	202
60	A customized self-assembling peptide hydrogel for dental pulp tissue engineering. <i>Tissue Engineering - Part A</i> , <b>2012</b> , 18, 176-84	3.9	201
59	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> , <b>1998</b> , 273, 9457-64	5.4	173
58	Self-assembling peptide amphiphile nanofibers as a scaffold for dental stem cells. <i>Tissue Engineering - Part A</i> , <b>2008</b> , 14, 2051-8	3.9	147
57	Bioengineering of dental stem cells in a PEGylated fibrin gel. <i>Regenerative Medicine</i> , <b>2011</b> , 6, 191-200	2.5	115
56	Haploinsufficiency of PAX9 is associated with autosomal dominant hypodontia. <i>Human Genetics</i> , <b>2002</b> , 110, 371-6	6.3	108
55	Self-assembling multidomain peptides tailor biological responses through biphasic release. <i>Biomaterials</i> , <b>2015</b> , 52, 71-8	15.6	89
54	Functional consequences of interactions between Pax9 and Msx1 genes in normal and abnormal tooth development. <i>Journal of Biological Chemistry</i> , <b>2006</b> , 281, 18363-9	5.4	87
53	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> , <b>1993</b> , 272, 237-47	4.2	81
52	Evolving strategies for preventing biofilm on implantable materials. <i>Materials Today</i> , <b>2013</b> , 16, 177-182	21.8	71
51	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> , <b>2013</b> , 288, 7204-14	5.4	56
50	Molecular characterization of a novel PAX9 missense mutation causing posterior tooth agenesis. <i>European Journal of Human Genetics</i> , <b>2006</b> , 14, 403-9	5.3	56
49	Scaffolds to control inflammation and facilitate dental pulp regeneration. <i>Journal of Endodontics</i> , <b>2014</b> , 40, S6-12	4.7	46
48	Studies on Pax9-Msx1 protein interactions. <i>Archives of Oral Biology</i> , <b>2005</b> , 50, 141-5	2.8	46

47	Biomaterial-mesenchymal stem cell constructs for immunomodulation in composite tissue engineering. <i>Tissue Engineering - Part A</i> , <b>2014</b> , 20, 2162-8	3.9	45
46	Functional analysis of Ectodysplasin-A mutations causing selective tooth agenesis. <i>European Journal of Human Genetics</i> , <b>2010</b> , 18, 19-25	5.3	45
45	Sequence effects of self-assembling multidomain peptide hydrogels on encapsulated SHED cells. <i>Biomacromolecules</i> , <b>2014</b> , 15, 2004-11	6.9	44
44	Human pulp-derived cells immortalized with Simian Virus 40 T-antigen. <i>European Journal of Oral Sciences</i> , <b>2006</b> , 114, 138-46	2.3	40
43	Functional analysis of a mutation in PAX9 associated with familial tooth agenesis in humans. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 5924-33	5.4	40
42	Tissue engineering approaches for regenerative dentistry. <i>Regenerative Medicine</i> , <b>2011</b> , 6, 111-24	2.5	38
41	Biomimetic engineering of nanofibrous gelatin scaffolds with noncollagenous proteins for enhanced bone regeneration. <i>Tissue Engineering - Part A</i> , <b>2013</b> , 19, 1754-63	3.9	37
40	Failure to process dentin matrix protein 1 (DMP1) into fragments leads to its loss of function in osteogenesis. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 31713-22	5.4	37
39	Biomaterials and their potential applications for dental tissue engineering. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 8730		37
38	The NH2-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> , <b>2009</b> , 57, 155-66	3.4	36
37	Self-renewal and multilineage differentiation of mouse dental epithelial stem cells. <i>Stem Cell Research</i> , <b>2013</b> , 11, 990-1002	1.6	30
36	Pathogenic mechanisms of tooth agenesis linked to paired domain mutations in human PAX9. <i>Human Molecular Genetics</i> , <b>2009</b> , 18, 2863-74	5.6	29
35	Unraveling the molecular mechanisms that lead to supernumerary teeth in mice and men: current concepts and novel approaches. <i>Cells Tissues Organs</i> , <b>2007</b> , 186, 60-9	2.1	29
34	The WNT10A gene in ectodermal dysplasias and selective tooth agenesis. <i>American Journal of Medical Genetics, Part A</i> , <b>2014</b> , 164A, 2455-60	2.5	28
33	Small-molecule Wnt agonists correct cleft palates in mutant mice. <i>Development (Cambridge)</i> , <b>2017</b> , 144, 3819-3828	6.6	27
32	Nuclear localization of DMP1 proteins suggests a role in intracellular signaling. <i>Biochemical and Biophysical Research Communications</i> , <b>2012</b> , 424, 641-6	3.4	26
31	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> , <b>2009</b> , 238, 324-30	2.9	26
30	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> , <b>1993</b> , 8, 1127-36	6.3	26

29	Identification and functional analysis of two novel PAX9 mutations. <i>Cells Tissues Organs</i> , <b>2009</b> , 189, 80-7	2.1	25
28	Particle size and shape of calcium hydroxide. <i>Journal of Endodontics</i> , <b>2009</b> , 35, 284-7	4.7	25
27	Expression of Runx2/Cbfa1/Pebp2alphaA during angiogenesis in postnatal rodent and fetal human orofacial tissues. <i>Journal of Bone and Mineral Research</i> , <b>2005</b> , 20, 428-37	6.3	23
26	Novel expression and transcriptional regulation of FoxJ1 during oro-facial morphogenesis. <i>Human Molecular Genetics</i> , <b>2008</b> , 17, 3643-54	5.6	22
25	Extracellular matrix expression and periodontal wound-healing dynamics following guided tissue regeneration therapy in canine furcation defects. <i>Journal of Clinical Periodontology</i> , <b>2007</b> , 34, 691-708	7.7	22
24	Is there a link between ovarian cancer and tooth agenesis?. <i>European Journal of Medical Genetics</i> , <b>2014</b> , 57, 235-9	2.6	21
23	Analysis of tooth development in mice bearing a TGF-beta 1 null mutation. <i>Connective Tissue Research</i> , <b>1995</b> , 32, 41-6	3.3	20
22	Twist1- and Twist2-haploinsufficiency results in reduced bone formation. <i>PLoS ONE</i> , <b>2014</b> , 9, e99331	3.7	18
21	Fibroblast growth factor signaling is essential for self-renewal of dental epithelial stem cells. <i>Journal of Biological Chemistry</i> , <b>2013</b> , 288, 28952-61	5.4	18
20	From ectodermal dysplasia to selective tooth agenesis. <i>American Journal of Medical Genetics, Part A</i> , <b>2009</b> , 149A, 2037-41	2.5	18
19	Twist1 Is Essential for Tooth Morphogenesis and Odontoblast Differentiation. <i>Journal of Biological Chemistry</i> , <b>2015</b> , 290, 29593-602	5.4	14
18	Molecular studies on the roles of Runx2 and Twist1 in regulating FGF signaling. <i>Developmental Dynamics</i> , <b>2012</b> , 241, 1708-15	2.9	14
17	Blocking of proteolytic processing and deletion of glycosaminoglycan side chain of mouse DMP1 by substituting critical amino acid residues. <i>Cells Tissues Organs</i> , <b>2009</b> , 189, 192-7	2.1	14
16	Classifying ectodermal dysplasias: Incorporating the molecular basis and pathways (Workshop II). <i>American Journal of Medical Genetics, Part A</i> , <b>2009</b> , 149A, 2062-7	2.5	14
15	Identification of tooth-specific downstream targets of Runx2. <i>Gene</i> , <b>2001</b> , 279, 91-7	3.8	14
14	Transcriptional repression of the Dspp gene leads to dentinogenesis imperfecta phenotype in Col1a1-Trps1 transgenic mice. <i>Journal of Bone and Mineral Research</i> , <b>2012</b> , 27, 1735-45	6.3	13
13	How Research Training Will Shape the Future of Dental, Oral, and Craniofacial Research. <i>Journal of Dental Education</i> , <b>2017</b> , 81, eS73-eS82	1.6	7
12	Regulation of bmp4 expression in odontogenic mesenchyme: from simple to complex. <i>Cells Tissues Organs</i> , <b>2011</b> , 194, 156-60	2.1	7

11	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> , <b>2019</b> , 24, 55-65	3	6
10	Genetics and human malformations. <i>Journal of Craniofacial Surgery</i> , <b>2009</b> , 20 Suppl 2, 1652-4	1.2	6
9	Functional evaluation of a novel tooth agenesis-associated bone morphogenetic protein 4 prodomain mutation. <i>European Journal of Oral Sciences</i> , <b>2013</b> , 121, 313-8	2.3	5
8	Innovative Molecular and Cellular Therapeutics in Cleft Palate Tissue Engineering. <i>Tissue Engineering - Part B: Reviews</i> , <b>2021</b> , 27, 215-237	7.9	5
7	Modeling Hypoxia Induced Factors to Treat Pulpal Inflammation and Drive Regeneration. <i>Journal of Endodontics</i> , <b>2020</b> , 46, S19-S25	4.7	4
6	Pax9 $\forall$ dual roles in modulating Wnt signaling during murine palatogenesis. <i>Developmental Dynamics</i> , <b>2020</b> , 249, 1274-1284	2.9	3
5	Molecular Diagnostics and In Utero Therapeutics for Orofacial Clefts. <i>Journal of Dental Research</i> , <b>2020</b> , 99, 1221-1227	8.1	3
4	Expanded Differentiation Capability of Human Wharton $\forall$ Jelly Stem Cells Toward Pluripotency: A Systematic Review. <i>Tissue Engineering - Part B: Reviews</i> , <b>2020</b> , 26, 301-312	7.9	3
3	FAM20B-catalyzed glycosaminoglycans control murine tooth number by restricting FGFR2b signaling. <i>BMC Biology</i> , <b>2020</b> , 18, 87	7.3	3
2	$\forall$ Interaction With the Ectodysplasin Signaling Pathway During the Patterning of Dentition. <i>Frontiers in Physiology</i> , <b>2020</b> , 11, 581843	4.6	0
1	Clinical correlate: Tooth Agenesis129-134		