Rena N D'souza

List of Publications by Year
in descending order

64	4,161	136740	114278
papers	citations	32 h-index	63 g-index

65	65	65	4456
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Mutation of PAX9 is associated with oligodontia. Nature Genetics, 2000, 24, 18-19.	9.4	462
2	Dentin Sialophosphoprotein Knockout Mouse Teeth Display Widened Predentin Zone and Develop Defective Dentin Mineralization Similar to Human Dentinogenesis Imperfecta Type III. Journal of Biological Chemistry, 2003, 278, 24874-24880.	1.6	366
3	Self-Assembling Multidomain Peptide Hydrogels: Designed Susceptibility to Enzymatic Cleavage Allows Enhanced Cell Migration and Spreading. Journal of the American Chemical Society, 2010, 132, 3217-3223.	6.6	310
4	Dentin Conditioning Codetermines Cell Fate in Regenerative Endodontics. Journal of Endodontics, 2011, 37, 1536-1541.	1.4	244
5	A Customized Self-Assembling Peptide Hydrogel for Dental Pulp Tissue Engineering. Tissue Engineering - Part A, 2012, 18, 176-184.	1.6	233
6	Genomic Organization, Chromosomal Mapping, and Promoter Analysis of the Mouse Dentin Sialophosphoprotein (Dspp) Gene, Which Codes for Both Dentin Sialoprotein and Dentin Phosphoprotein. Journal of Biological Chemistry, 1998, 273, 9457-9464.	1.6	194
7	Self-Assembling Peptide Amphiphile Nanofibers as a Scaffold for Dental Stem Cells. Tissue Engineering - Part A, 2008, 14, 2051-2058.	1.6	167
8	Haploinsufficiency of PAX9 is associated with autosomal dominant hypodontia. Human Genetics, 2002, 110, 371-376.	1.8	130
9	Bioengineering of dental stem cells in a PEGylated fibrin gel. Regenerative Medicine, 2011, 6, 191-200.	0.8	130
10	Functional Consequences of Interactions between Pax9 and Msx1 Genes in Normal and Abnormal Tooth Development. Journal of Biological Chemistry, 2006, 281, 18363-18369.	1.6	107
11	Self-assembling multidomain peptides tailor biological responses through biphasic release. Biomaterials, 2015, 52, 71-78.	5.7	102
12	Evolving strategies for preventing biofilm on implantable materials. Materials Today, 2013, 16, 177-182.	8.3	87
13	Dentin sialoprotein: biosynthesis and developmental appearance in rat tooth germs in comparison with amelogenins, osteocalcin and colagen type-I. Cell and Tissue Research, 1993, 272, 237-247.	1.5	84
14	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. Journal of Biological Chemistry, 2013, 288, 7204-7214.	1.6	76
15	Molecular characterization of a novel PAX9 missense mutation causing posterior tooth agenesis. European Journal of Human Genetics, 2006, 14, 403-409.	1.4	63
16	Scaffolds to Control Inflammation and Facilitate Dental Pulp Regeneration. Journal of Endodontics, 2014, 40, S6-S12.	1.4	63
17	Functional analysis of Ectodysplasin-A mutations causing selective tooth agenesis. European Journal of Human Genetics, 2010, 18, 19-25.	1.4	60
18	Biomaterialâ€“Mesenchymal Stem Cell Constructs for Immunomodulation in Composite Tissue Engineering. Tissue Engineering - Part A, 2014, 20, 2162-2168.	1.6	58

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19	Studies on Pax9â€“Msx1 protein interactions. Archives of Oral Biology, 2005, 50, 141-145.	0.8	55
20	Human pulp-derived cells immortalized with Simian Virus 40 T-antigen. European Journal of Oral Sciences, 2006, 114, 138-146.	0.7	50
21	Small-molecule Wnt agonists correct cleft palates in Pax9 mutant mice in utero. Development (Cambridge), 2017, 144, 3819-3828.	1.2	50
22	Functional Analysis of a Mutation in PAX9 Associated with Familial Tooth Agenesis in Humans. Journal of Biological Chemistry, 2004, 279, 5924-5933.	1.6	48
23	Sequence Effects of Self-Assembling MultiDomain Peptide Hydrogels on Encapsulated SHED Cells. Biomacromolecules, 2014, 15, 2004-2011.	2.6	48
24	Biomaterials and their potential applications for dental tissue engineering. Journal of Materials Chemistry, 2010, 20, 8730.	6.7	46
25	Tissue engineering approaches for regenerative dentistry. Regenerative Medicine, 2011, 6, 111-124.	0.8	44
26	Biomimetic Engineering of Nanofibrous Gelatin Scaffolds with Noncollagenous Proteins for Enhanced Bone Regeneration. Tissue Engineering - Part A, 2013, 19, 1754-1763.	1.6	43
27	Pathogenic mechanisms of tooth agenesis linked to paired domain mutations in human PAX9. Human Molecular Genetics, 2009, 18, 2863-2874.	1.4	42
28	Failure to Process Dentin Matrix Protein 1 (DMP1) into Fragments Leads to Its Loss of Function in Osteogenesis. Journal of Biological Chemistry, 2010, 285, 31713-31722.	1.6	42
29	The WNT10A gene in ectodermal dysplasias and selective tooth agenesis. American Journal of Medical Genetics, Part A, 2014, 164, 2455-2460.	0.7	40
30	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. Journal of Histochemistry and Cytochemistry, 2009, 57, 155-166.	1.3	38
31	Unraveling the Molecular Mechanisms That Lead to Supernumerary Teeth in Mice and Men: Current Concepts and Novel Approaches. Cells Tissues Organs, 2007, 186, 60-69.	1.3	36
32	Particle Size and Shape of Calcium Hydroxide. Journal of Endodontics, 2009, 35, 284-287.	1.4	36
33	Self-renewal and multilineage differentiation of mouse dental epithelial stem cells. Stem Cell Research, 2013, 11, 990-1002.	0.3	34
34	Identification and Functional Analysis of Two Novel PAX9 Mutations. Cells Tissues Organs, 2009, 189, 80-87.	1.3	32
35	Osteoblast-Specific Expression of the Î±2(I) Collagen Promoter in Transgenic Mice: Correlation with the Distribution of TGF-Î²1. Journal of Bone and Mineral Research, 1993, 8, 1127-1136.	3.1	32
36	Nuclear localization of DMP1 proteins suggests a role in intracellular signaling. Biochemical and Biophysical Research Communications, 2012, 424, 641-646.	1.0	32

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37	Is there a link between ovarian cancer and tooth agenesis?. European Journal of Medical Genetics, 2014, 57, 235-239.	0.7	31
38	FGFR2 in the dental epithelium is essential for development and maintenance of the maxillary cervical loop, a stem cell niche in mouse incisors. Developmental Dynamics, 2009, 238, 324-330.	0.8	30
39	Extracellular matrix expression and periodontal wound-healing dynamics following guided tissue regeneration therapy in canine furcation defects. Journal of Clinical Periodontology, 2007, 34, 691-708.	2.3	29
40	Twist1 Is Essential for Tooth Morphogenesis and Odontoblast Differentiation. Journal of Biological Chemistry, 2015, 290, 29593-29602.	1.6	28
41	Novel expression and transcriptional regulation of FoxJ1 during oro-facial morphogenesis. Human Molecular Genetics, 2008, 17, 3643-3654.	1.4	27
42	From ectodermal dysplasia to selective tooth agenesis. American Journal of Medical Genetics, Part A, 2009, 149A, 2037-2041.	0.7	25
43	Expression of Runx2/Cbfa1/Pebp2Î±A During Angiogenesis in Postnatal Rodent and Fetal Human Orofacial Tissues. Journal of Bone and Mineral Research, 2004, 20, 428-437.	3.1	24
44	Twist1- and Twist2-Haploinsufficiency Results in Reduced Bone Formation. PLoS ONE, 2014, 9, e99331.	1.1	23
45	Fibroblast Growth Factor Signaling Is Essential for Self-renewal of Dental Epithelial Stem Cells. Journal of Biological Chemistry, 2013, 288, 28952-28961.	1.6	22
46	Analysis of Tooth Development in Mice Bearing a TGF-Î²1 Null Mutation. Connective Tissue Research, 1995, 32, 41-46.	1.1	21
47	Functional evaluation of a novel tooth agenesisâ€associated bone morphogenetic protein 4 prodomain mutation. European Journal of Oral Sciences, 2013, 121, 313-318.	0.7	19
48	Molecular studies on the roles of Runx2 and Twist1 in regulating FGF signaling. Developmental Dynamics, 2012, 241, 1708-1715.	0.8	18
49	Blocking of Proteolytic Processing and Deletion of Glycosaminoglycan Side Chain of Mouse DMP1 by Substituting Critical Amino Acid Residues. Cells Tissues Organs, 2009, 189, 192-197.	1.3	17
50	Innovative Molecular and Cellular Therapeutics in Cleft Palate Tissue Engineering. Tissue Engineering - Part B: Reviews, 2021, 27, 215-237.	2.5	17
51	Identification of tooth-specific downstream targets of Runx2. Gene, 2001, 279, 91-97.	1.0	16
52	Classifying ectodermal dysplasias: Incorporating the molecular basis and pathways (Workshop II). American Journal of Medical Genetics, Part A, 2009, 149A, 2062-2067.	0.7	16
53	Transcriptional repression of the Dspp gene leads to dentinogenesis imperfecta phenotype in Col1a1-Trps1 transgenic mice. Journal of Bone and Mineral Research, 2012, 27, 1735-1745.	3.1	16
54	How Research Training Will Shape the Future of Dental, Oral, and Craniofacial Research. Journal of Dental Education, 2017, 81, eS73-eS82.	0.7	14

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55	FAM20B-catalyzed glycosaminoglycans control murine tooth number by restricting FGFR2b signaling. BMC Biology, 2020, 18, 87.	1.7	13
56	Regulation of Bmp4 Expression in Odontogenic Mesenchyme: From Simple to Complex. Cells Tissues Organs, 2011, 194, 156-160.	1.3	11
57	Modeling Hypoxia Induced Factors to Treat Pulpal Inflammation and Drive Regeneration. Journal of Endodontics, 2020, 46, S19-S25.	1.4	11
58	Expanded Differentiation Capability of Human Wharton's Jelly Stem Cells Toward Pluripotency: A Systematic Review. Tissue Engineering - Part B: Reviews, 2020, 26, 301-312.	2.5	10
59	Pax9's dual roles in modulating Wnt signaling during murine palatogenesis. Developmental Dynamics, 2020, 249, 1274-1284.	0.8	9
60	Genetics and Human Malformations. Journal of Craniofacial Surgery, 2009, 20, 1652-1654.	0.3	8
61	Molecular Diagnostics and In Utero Therapeutics for Orofacial Clefts. Journal of Dental Research, 2020, 99, 1221-1227.	2.5	8
62	A Single-Step Self-Assembly Approach for the Fabrication of Aligned and Multilayered Three-Dimensional Tissue Constructs Using Multidomain Peptide Hydrogel. SLAS Technology, 2019, 24, 55-65.	1.0	6
63	Pax9â€™s Interaction With the Ectodysplasin Signaling Pathway During the Patterning of Dentition. Frontiers in Physiology, 2020, 11, 581843.	1.3	6
64	The decades ahead for dental education. Journal of Dental Education, 2022, 86, 635-636.	0.7	2