Thanaphum Osathanon

List of Publications by Year
in descending order

94 papers	1,840 citations	304743 22 h-index	330143 37 g-index
98 all docs	98 docs citations	98 times ranked	2458 citing authors

#	Article	IF	Citations
1	Microporous nanofibrous fibrin-based scaffolds for bone tissue engineering. Biomaterials, 2008, 29, 4091-4099.	11.4	157
2	Immobilization of alkaline phosphatase on microporous nanofibrous fibrin scaffolds for bone tissue engineering. Biomaterials, 2009, 30, 4513-4521.	11.4	117
3	Basic fibroblast growth factor inhibits mineralization but induces neuronal differentiation by human dental pulp stem cells through a FGFR and PLCÎ³ signaling pathway. Journal of Cellular Biochemistry, 2011, 112, 1807-1816.	2.6	94
4	The efficacy of polycaprolactone/hydroxyapatite scaffold in combination with mesenchymal stem cells for bone tissue engineering. Journal of Biomedical Materials Research - Part A, 2016, 104, 264-271.	4.0	72
5	Surfaceâ€bound orientated Jaggedâ€1 enhances osteogenic differentiation of human periodontal ligamentâ€derived mesenchymal stem cells. Journal of Biomedical Materials Research - Part A, 2013, 101A, 358-367.	4.0	67
6	Human osteoblast-like cell spreading and proliferation on Ti-6Al-7Nb surfaces of varying roughness. Journal of Oral Science, 2011, 53, 23-30.	1.7	52
7	Neurogenic differentiation of human dental pulp stem cells using different induction protocols. Oral Diseases, 2014, 20, 352-358.	3.0	48
8	Notch signalling inhibits the adipogenic differentiation of singleâ€cellâ€derived mesenchymal stem cell clones isolated from human adipose tissue. Cell Biology International, 2012, 36, 1161-1170.	3.0	45
9	Cobalt chloride supplementation induces stem-cell marker expression and inhibits osteoblastic differentiation in human periodontal ligament cells. Archives of Oral Biology, 2015, 60, 29-36.	1.8	45
10	bFGF and JAGGED1 regulate alkaline phosphatase expression and mineralization in dental tissue-derived mesenchymal stem cells. Journal of Cellular Biochemistry, 2013, 114, 2551-2561.	2.6	40
11	Apigenin inhibited hypoxia induced stem cell marker expression in a head and neck squamous cell carcinoma cell line. Archives of Oral Biology, 2017, 74, 69-74.	1.8	40
12	Notch Signaling Is Involved in Neurogenic Commitment of Human Periodontal Ligament-Derived Mesenchymal Stem Cells. Stem Cells and Development, 2013, 22, 1220-1231.	2.1	39
13	Asiaticoside Induces Type I Collagen Synthesis and Osteogenic Differentiation in Human Periodontal Ligament Cells. Phytotherapy Research, 2013, 27, 457-462.	5.8	36
14	Effect of Jagged-1 and Dll-1 on osteogenic differentiation by stem cells from human exfoliated deciduous teeth. Archives of Oral Biology, 2016, 65, 1-8.	1.8	35
15	Indirect immobilized Jagged1 suppresses cell cycle progression and induces odonto/osteogenic differentiation in human dental pulp cells. Scientific Reports, 2017, 7, 10124.	3.3	35
16	A feasibility study of an in vitro differentiation potential toward insulin-producing cells by dental tissue-derived mesenchymal stem cells. Biochemical and Biophysical Research Communications, 2014, 452, 581-587.	2.1	34
17	Intermittent compressive force promotes osteogenic differentiation in human periodontal ligament cells by regulating the transforming growth factor-Î² pathway. Cell Death and Disease, 2019, 10, 761.	6.3	34
18	Effect of basic fibroblast growth factor on pluripotent marker expression and colony forming unit capacity of stem cells isolated from human exfoliated deciduous teeth. Odontology / the Society of the Nippon Dental University, 2014, 102, 160-166.	1.9	33

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19	Role of endogenous basic fibroblast growth factor in stem cells isolated from human exfoliated deciduous teeth. Archives of Oral Biology, 2015, 60, 408-415.	1.8	32
20	Human dental pulp stem cell responses to different dental pulp capping materials. BMC Oral Health, 2021, 21, 209.	2.3	32
21	Basic fibroblast growth factor regulates phosphate/pyrophosphate regulatory genes in stem cells isolated from human exfoliated deciduous teeth. Stem Cell Research and Therapy, 2018, 9, 345.	5.5	27
22	Autologous platelet-rich fibrin stimulates canine periodontal regeneration. Scientific Reports, 2020, 10, 1850.	3.3	27
23	The responses of human adipose-derived mesenchymal stem cells on polycaprolactone-based scaffolds: an in vitro study. Tissue Engineering and Regenerative Medicine, 2014, 11, 239-246.	3.7	24
24	Effect of lithium chloride on cell proliferation and osteogenic differentiation in stem cells from human exfoliated deciduous teeth. Tissue and Cell, 2016, 48, 425-431.	2.2	24
25	Expression and influence of Notch signaling in oral squamous cell carcinoma. Journal of Oral Science, 2016, 58, 283-294.	1.7	23
26	Analysis of hard tissue regeneration and Wnt signalling in dental pulp tissues after direct pulp capping with different materials. International Endodontic Journal, 2019, 52, 1605-1616.	5.0	22
27	High Glucose Condition Suppresses Neurosphere Formation by Human Periodontal Ligamentâ€Derived Mesenchymal Stem Cells. Journal of Cellular Biochemistry, 2014, 115, 928-939.	2.6	21
28	Jagged1 inhibits <scp>osteoprotegerin</scp> expression by human periodontal ligament cells. Journal of Periodontal Research, 2016, 51, 789-799.	2.7	21
29	Notch Signaling Participates in TGFâ€Î²â€induced SOST Expression Under Intermittent Compressive Stress. Journal of Cellular Physiology, 2017, 232, 2221-2230.	4.1	21
30	Dental properties, ultrastructure, and pulp cells associated with a novel <scp>DSPP</scp> mutation. Oral Diseases, 2018, 24, 619-627.	3.0	21
31	In Vitro Fabrication of Hybrid Bone/Cartilage Complex Using Mouse Induced Pluripotent Stem Cells. International Journal of Molecular Sciences, 2020, 21, 581.	4.1	20
32	Iloprost Up-regulates Vascular Endothelial Growth Factor Expression in Human Dental Pulp Cells InÂVitro and Enhances Pulpal Blood Flow InÂVivo. Journal of Endodontics, 2014, 40, 925-930.	3.1	19
33	Compromised alveolar bone cells in a patient with dentinogenesis imperfecta caused by DSPP mutation. Clinical Oral Investigations, 2019, 23, 303-313.	3.0	19
34	Mechanical stress induced S100A7 expression in human dental pulp cells to augment osteoclast differentiation. Oral Diseases, 2019, 25, 812-821.	3.0	18
35	Ti-6Al-7Nb promotes cell spreading and fibronectin and osteopontin synthesis in osteoblast-like cells. Journal of Materials Science: Materials in Medicine, 2006, 17, 619-625.	3.6	17
36	<scp>IL</scp>â€6 regulated stressâ€induced <scp>R</scp>exâ€1 expression in stem cells from human exfoliated deciduous teeth. Oral Diseases, 2013, 19, 673-682.	3.0	17

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37	Jagged1 promotes mineralization in human bone-derived cells. Archives of Oral Biology, 2019, 99, 134-140.	1.8	17
38	Notch signaling partly regulates the osteogenic differentiation of retinoic acid-treated murine induced pluripotent stem cells. Journal of Oral Science, 2017, 59, 405-413.	1.7	16
39	Characterization of a bioactive Jagged1-coated polycaprolactone-based membrane for guided tissue regeneration. Archives of Oral Biology, 2018, 88, 24-33.	1.8	16
40	Mesenchymal stem cell-based bone tissue engineering for veterinary practice. Heliyon, 2019, 5, e02808.	3.2	16
41	Basic Fibroblast Growth Factor Regulates REX1 Expression Via IL-6 In Stem Cells Isolated From Human Exfoliated Deciduous Teeth. Journal of Cellular Biochemistry, 2017, 118, 1480-1488.	2.6	15
42	Systems biology analysis of osteogenic differentiation behavior by canine mesenchymal stem cells derived from bone marrow and dental pulp. Scientific Reports, 2020, 10, 20703.	3.3	15
43	Mechanical loading and the control of stem cell behavior. Archives of Oral Biology, 2021, 125, 105092.	1.8	15
44	Amelogenesis imperfecta: A novel FAM83H mutation and characteristics of periodontal ligament cells. Oral Diseases, 2018, 24, 1522-1531.	3.0	13
45	Controlled Osteogenic Differentiation of Mouse Mesenchymal Stem Cells by Tetracycline-Controlled Transcriptional Activation of Amelogenin. PLoS ONE, 2015, 10, e0145677.	2.5	13
46	Transplantation of Cryopreserved Teeth: A Systematic Review. International Journal of Oral Science, 2010, 2, 59-65.	8.6	12
47	Intermittent compressive stress regulates Notch target gene expression via transforming growth factor-Î² signaling in murine pre-osteoblast cell line. Archives of Oral Biology, 2017, 82, 47-54.	1.8	12
48	NOTCH2 participates in Jagged1-induced osteogenic differentiation in human periodontal ligament cells. Scientific Reports, 2020, 10, 13329.	3.3	11
49	Size-Optimized Microspace Culture Facilitates Differentiation of Mouse Induced Pluripotent Stem Cells into Osteoid-Rich Bone Constructs. Stem Cells International, 2020, 2020, 1-14.	2.5	11
50	Wnt signaling in dental pulp homeostasis and dentin regeneration. Archives of Oral Biology, 2022, 134, 105322.	1.8	11
51	Extracellular Matrix Derived From Dental Pulp Stem Cells Promotes Mineralization. Frontiers in Bioengineering and Biotechnology, 2021, 9, 740712.	4.1	11
52	A novel de novo mutation substantiates <scp>KDF</scp> 1 as a gene causing ectodermal dysplasia. British Journal of Dermatology, 2019, 181, 419-420.	1.5	10
53	Estradiol induces osteoprotegerin expression by human dental pulp cells. Odontology / the Society of the Nippon Dental University, 2016, 104, 10-18.	1.9	9
54	Transcriptome analysis of basic fibroblast growth factor treated stem cells isolated from human exfoliated deciduous teeth. Heliyon, 2020, 6, e04246.	3.2	9

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55	Effect of Jagged1 on the expression of genes in regulation of osteoblast differentiation and bone mineralization ontology in human dental pulp and periodontal ligament cells. Journal of Oral Biology and Craniofacial Research, 2020, 10, 233-237.	1.9	9
56	Intermittent compressive force induces cell cycling and reduces apoptosis in embryoid bodies of mouse induced pluripotent stem cells. International Journal of Oral Science, 2022, 14, 1.	8.6	9
57	Non-canonical Wnt signaling participates in Jagged1-induced osteo/odontogenic differentiation in human dental pulp stem cells. Scientific Reports, 2022, 12, 7583.	3.3	9
58	IL-6 regulates stress-induced REX-1 expression via ATP-P2Y1 signalling in stem cells isolated from human exfoliated deciduous teeth. Archives of Oral Biology, 2015, 60, 160-166.	1.8	8
59	Inflammation related genes are upregulated in surgical margins of advanced stage oral squamous cell carcinoma. Journal of Oral Biology and Craniofacial Research, 2017, 7, 193-197.	1.9	8
60	Tailored generation of insulin producing cells from canine mesenchymal stem cells derived from bone marrow and adipose tissue. Scientific Reports, 2021, 11, 12409.	3.3	8
61	Magnetic bioassembly platforms towards the generation of extracellular vesicles from human salivary gland functional organoids for epithelial repair. Bioactive Materials, 2022, 18, 151-163.	15.6	8
62	In vitro generation of transplantable insulin-producing cells from canine adipose-derived mesenchymal stem cells. Scientific Reports, 2022, 12, .	3.3	8
63	Shear Stress Enhances the Paracrine-Mediated Immunoregulatory Function of Human Periodontal Ligament Stem Cells via the ERK Signalling Pathway. International Journal of Molecular Sciences, 2022, 23, 7119.	4.1	8
64	Decreased osteogenic activity and mineralization of alveolar bone cells from a patient with amelogenesis imperfecta and FAM83H 1261G>T mutation. Genes and Diseases, 2019, 6, 391-397.	3.4	7
65	Alginate/Pluronic F127-based encapsulation supports viability and functionality of human dental pulp stem cell-derived insulin-producing cells. Journal of Biological Engineering, 2020, 14, 23.	4.7	7
66	Polycaprolactone-Based Biomaterials for Guided Tissue Regeneration Membrane. , 2017, , .		6
67	Interleukin 6 promotes an in vitro mineral deposition by stem cells isolated from human exfoliated deciduous teeth. Royal Society Open Science, 2018, 5, 180864.	2.4	6
68	Integrative protocols for an inÂvitro generation of pancreatic progenitors from human dental pulp stem cells. Biochemical and Biophysical Research Communications, 2020, 530, 222-229.	2.1	6
69	Specific microRNAs Regulate Dental Pulp Stem Cell Behavior. Journal of Endodontics, 2022, 48, 688-698.	3.1	6
70	Surface properties and early murine pre-osteoblastic cell responses of phosphoric acid modified titanium surface. Journal of Oral Biology and Craniofacial Research, 2016, 6, 3-10.	1.9	5
71	Hypoxia enhances osteogenic differentiation in retinoic acid-treated murine-induced pluripotent stem cells. Tissue Engineering and Regenerative Medicine, 2016, 13, 547-553.	3.7	5
72	Preparation and characterization of Jagged1-bound fibrinogen-based microspheres and their cytotoxicity against human dental pulp cells. Journal of Biomaterials Applications, 2020, 34, 1105-1113.	2.4	5

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73	Responses of canine periodontal ligament cells to bubaline blood derived platelet rich fibrin in vitro. Scientific Reports, 2021, 11, 11409.	3.3	5
74	Effect of resveratrol and oxyresveratrol on deferoxamine-induced cancer stem cell marker expression in human head and neck squamous cell carcinoma. Journal of Oral Biology and Craniofacial Research, 2022, 12, 253-257.	1.9	4
75	Stem Cells from Human Exfoliated Deciduous Teeth: Biology and Therapeutic Potential. , 0, , .		3
76	RNA sequencing data of human periodontal ligament cells treated with continuous and intermittent compressive force. Data in Brief, 2019, 26, 104553.	1.0	3
77	Gene expression profiling of Jagged1â€treated human periodontal ligament cells. Oral Diseases, 2019, 25, 1203-1213.	3.0	3
78	Differential expression of Notch related genes in dental pulp stem cells and stem cells isolated from apical papilla. Journal of Oral Biology and Craniofacial Research, 2021, 11, 379-385.	1.9	3
79	Interleukin 15 participates in Jagged1-induced mineralization in human dental pulp cells. Archives of Oral Biology, 2021, 128, 105163.	1.8	3
80	PTEN regulates proliferation and osteogenesis of dental pulp cells and adipogenesis of human adiposeâ€derived stem cells. Oral Diseases, 2023, 29, 735-746.	3.0	3
81	Extracellular adenosine triphosphate induces IDO and IFNÎ³ expression of human periodontal ligament cells through P₂X₇ receptor signaling. Journal of Periodontal Research, 2022, 57, 742-753.	2.7	3
82	Osteogenic growth peptide enhances osteogenic differentiation of human periodontal ligament stem cells. Heliyon, 2022, 8, e09936.	3.2	3
83	Intermittent compressive force regulates dentin matrix protein 1 expression in human periodontal ligament stem cells. Journal of Dental Sciences, 2023, 18, 105-111.	2.5	3
84	Regulation of osteoprotegerin expression by Notch signaling in human oral squamous cell carcinoma cell line. Asian Pacific Journal of Tropical Biomedicine, 2016, 6, 692-697.	1.2	2
85	RNA sequencing data of Notch ligand treated human dental pulp cells. Data in Brief, 2018, 17, 407-413.	1.0	2
86	Experimental data on mechanical behavior and numerical data on tensile stress distribution of a hyperelastic Polydimethysiloxane (PDMS) based membrane for cell culture. Data in Brief, 2020, 30, 105476.	1.0	2
87	Evaluation of the Use of Platelet-Rich Fibrin Xenologous Membranes Derived from Bubaline Blood in Canine Periodontal Defects. Veterinary Sciences, 2021, 8, 210.	1.7	2
88	Dorsomorphin attenuates Jagged1â€induced mineralization in human dental pulp cells. International Endodontic Journal, 2021, 54, 2229-2242.	5.0	2
89	Influence of Jagged1 on apoptosis-related gene expression: a microarray database analysis. Genes and Genomics, 2015, 37, 837-843.	1.4	1
90	Dysregulation of Notch signaling related genes in oral lichen planus. Asian Pacific Journal of Tropical Biomedicine, 2017, 7, 666-669.	1.2	1

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91	In vitro Induction of Human Dental Pulp Stem Cells Toward Pancreatic Lineages. Journal of Visualized Experiments, 2021, , .	0.3	1
92	Notch signaling in induced pluripotent stem cells. , 2022, , 249-284.		0
93	Procedures Used in Managing SARS-CoV-2 Infected Dental Personnel or Patients: A Case Study From a Thai Dental Hospital. Frontiers in Oral Health, 2021, 2, 750394.	3.0	0
94	Efficacy of bubaline blood derived fibrin glue in silk ligature-induced acute periodontitis in Wistar rats. Veterinary World, 2021, 14, 2602-2612.	1.7	0