

# Shinya Murakami

## List of Publications by Year in descending order

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103  
papers

4,068  
citations

126708

33  
h-index

133063

59  
g-index

105  
all docs

105  
docs citations

105  
times ranked

4781  
citing authors

#	ARTICLE	IF	CITATIONS
1	Periodontal health and gingival diseases and conditions on an intact and a reduced periodontium: Consensus report of workgroup 1 of the 2017 World Workshop on the Classification of Periodontal and Peri-Implant Diseases and Conditions. <i>Journal of Periodontology</i> , 2018, 89, S74-S84.	1.7	469
2	Periodontal health and gingival diseases and conditions on an intact and a reduced periodontium: Consensus report of workgroup 1 of the 2017 World Workshop on the Classification of Periodontal and Peri-Implant Diseases and Conditions. <i>Journal of Clinical Periodontology</i> , 2018, 45, S68-S77.	2.3	312
3	PLAP-1/Asporin, a Novel Negative Regulator of Periodontal Ligament Mineralization*. <i>Journal of Biological Chemistry</i> , 2007, 282, 23070-23080.	1.6	180
4	Dental plaque-induced gingival conditions. <i>Journal of Periodontology</i> , 2018, 89, S17-S27.	1.7	176
5	Periodontal Tissue Regeneration Using Fibroblast Growth Factor -2: Randomized Controlled Phase II Clinical Trial. <i>PLoS ONE</i> , 2008, 3, e2611.	1.1	163
6	Human Gingival Epithelial Cells Produce Chemotactic Factors Interleukin-8 and Monocyte Chemoattractant Protein-1 After Stimulation With <i>Porphyromonas gingivalis</i> via Toll-Like Receptor 2. <i>Journal of Periodontology</i> , 2004, 75, 370-379.	1.7	149
7	Dental plaque-induced gingival conditions. <i>Journal of Clinical Periodontology</i> , 2018, 45, S17-S27.	2.3	133
8	Periodontal tissue regeneration by signaling molecule(s): what role does basic fibroblast growth factor (FGF-2) have in periodontal therapy?. <i>Periodontology</i> 2000, 2011, 56, 188-208.	6.3	119
9	Significance of occlusal force for dietary fibre and vitamin intakes in independently living 70-year-old Japanese: from SONIC Study. <i>Journal of Dentistry</i> , 2014, 42, 556-564.	1.7	101
10	Randomized Placebo-Controlled and Controlled Non-Inferiority Phase III Trials Comparing Trafermin, a Recombinant Human Fibroblast Growth Factor 2, and Enamel Matrix Derivative in Periodontal Regeneration in Intra-bony Defects. <i>Journal of Bone and Mineral Research</i> , 2016, 31, 806-814.	3.1	96
11	CD73-generated adenosine promotes osteoblast differentiation. <i>Journal of Cellular Physiology</i> , 2012, 227, 2622-2631.	2.0	95
12	Expression profile of active genes in human periodontal ligament and isolation of PLAP-1, a novel SLRP family gene. <i>Gene</i> , 2001, 275, 279-286.	1.0	80
13	The use of biologic mediators and tissue engineering in dentistry. <i>Periodontology</i> 2000, 2009, 50, 127-153.	6.3	78
14	Proinflammatory M1 Macrophages Inhibit RANKL-Induced Osteoclastogenesis. <i>Infection and Immunity</i> , 2016, 84, 2802-2812.	1.0	75
15	Osteoblastic lysosome plays a central role in mineralization. <i>Science Advances</i> , 2019, 5, eaax0672.	4.7	74
16	Fibroblast Growth Factor-2 Regulates the Cell Function of Human Dental Pulp Cells. <i>Journal of Endodontics</i> , 2009, 35, 1529-1535.	1.4	68
17	Fibroblast growth factor-2 regulates the synthesis of hyaluronan by human periodontal ligament cells. <i>Journal of Cellular Physiology</i> , 2005, 203, 557-563.	2.0	62
18	Fibroblast growth factor-2 stimulates directed migration of periodontal ligament cells via PI3K/AKT signaling and CD44/hyaluronan interaction. <i>Journal of Cellular Physiology</i> , 2011, 226, 809-821.	2.0	60

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19	Action Mechanism of Fibroblast Growth Factor-2 (FGF-2) in the Promotion of Periodontal Regeneration in Beagle Dogs. PLoS ONE, 2015, 10, e0131870.	1.1	57
20	PLAP-1/asperin inhibits activation of BMP receptor via its leucine-rich repeat motif. Biochemical and Biophysical Research Communications, 2008, 371, 191-196.	1.0	55
21	Cyclic depsipeptides as potential cancer therapeutics. Anti-Cancer Drugs, 2015, 26, 259-271.	0.7	55
22	Effects of Basic Fibroblast Growth Factor on Human Gingival Epithelial Cells. Journal of Periodontology, 2002, 73, 1467-1473.	1.7	46
23	Occlusal force is correlated with cognitive function directly as well as indirectly via food intake in community-dwelling older Japanese: From the SONIC study. PLoS ONE, 2018, 13, e0190741.	1.1	45
24	Nicotine modulates the immunological function of dendritic cells through peroxisome proliferator-activated receptor- $\gamma$ upregulation. Cellular Immunology, 2012, 274, 26-33.	1.4	44
25	Time-lapse Raman imaging of osteoblast differentiation. Scientific Reports, 2015, 5, 12529.	1.6	44
26	Antigen-presenting-cell function of interferon gamma-treated human gingival fibroblasts. Journal of Periodontal Research, 1996, 31, 217-228.	1.4	42
27	Effects of concomitant use of fibroblast growth factor (FGF)-2 with beta-tricalcium phosphate ( $\beta$ -TCP) on the beagle dog 1-wall periodontal defect model. Biochemical and Biophysical Research Communications, 2010, 403, 345-350.	1.0	41
28	Periodontal Regeneration by Allogeneic Transplantation of Adipose Tissue Derived Multi-Lineage Progenitor Stem Cells in vivo. Scientific Reports, 2019, 9, 921.	1.6	40
29	Characterization of a Novel Periodontal Ligament-specific Periostin Isoform. Journal of Dental Research, 2014, 93, 891-897.	2.5	38
30	Activation of Adenosine-receptor-enhanced iNOS mRNA Expression by Gingival Epithelial Cells. Journal of Dental Research, 2002, 81, 236-240.	2.5	37
31	Prevalence and risk factors for peri-implant diseases in Japanese adult dental patients. Journal of Oral Science, 2017, 59, 1-11.	0.7	36
32	Fibroblast growth factor-2 regulates expression of osteopontin in periodontal ligament cells. Journal of Cellular Physiology, 2008, 216, 640-650.	2.0	35
33	Role of Mechanical Stress-induced Glutamate Signaling-associated Molecules in Cytodifferentiation of Periodontal Ligament Cells*. Journal of Biological Chemistry, 2010, 285, 28286-28297.	1.6	35
34	The Effects of Cigarette Smoke Condensate and Nicotine on Periodontal Tissue in a Periodontitis Model Mouse. PLoS ONE, 2016, 11, e0155594.	1.1	34
35	Aggregatibacter actinomycetemcomitans Omp29 Is Associated with Bacterial Entry to Gingival Epithelial Cells by F-Actin Rearrangement. PLoS ONE, 2011, 6, e18287.	1.1	32
36	Nicotine Inhibits Mineralization of Human Dental Pulp Cells. Journal of Endodontics, 2008, 34, 1061-1065.	1.4	31

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37	Human odontogenic epithelial cells derived from epithelial rests of Malassez possess stem cell properties. <i>Laboratory Investigation</i> , 2016, 96, 1063-1075.	1.7	31
38	Nicotine up-regulates IL-8 expression in human gingival epithelial cells following stimulation with IL-1 $\beta$ or <i>P. gingivalis</i> lipopolysaccharide via nicotinic acetylcholine receptor signalling. <i>Archives of Oral Biology</i> , 2012, 57, 483-490.	0.8	29
39	Emerging Regenerative Approaches for Periodontal Reconstruction: A Consensus Report From the AAP Regeneration Workshop. <i>Journal of Periodontology</i> , 2015, 86, S153-6.	1.7	29
40	TGF-Beta Negatively Regulates the BMP2-Dependent Early Commitment of Periodontal Ligament Cells into Hard Tissue Forming Cells. <i>PLoS ONE</i> , 2015, 10, e0125590.	1.1	25
41	Effects of an Ascorbic Acid-Derivative Dentifrice in Patients With Gingivitis: A Double-Masked, Randomized, Controlled Clinical Trial. <i>Journal of Periodontology</i> , 2015, 86, 27-35.	1.7	25
42	A Putative Association of a Single Nucleotide Polymorphism in GPR126 with Aggressive Periodontitis in a Japanese Population. <i>PLoS ONE</i> , 2016, 11, e0160765.	1.1	25
43	Identification of genetic risk factors of aggressive periodontitis using genomewide association studies in association with those of chronic periodontitis. <i>Journal of Periodontal Research</i> , 2019, 54, 199-206.	1.4	24
44	Metabolomic Analysis of Gingival Crevicular Fluid Using Gas Chromatography/Mass Spectrometry. <i>Mass Spectrometry</i> , 2016, 5, A0047-A0047.	0.2	23
45	High glucose-induced oxidative stress increases IL-8 production in human gingival epithelial cells. <i>Oral Diseases</i> , 2016, 22, 578-584.	1.5	23
46	Influence of lack of posterior occlusal support on cognitive decline among 80-year-old Japanese people in a 3-year prospective study. <i>Geriatrics and Gerontology International</i> , 2018, 18, 1439-1446.	0.7	23
47	Basic fibroblast growth factor regulates expression of heparan sulfate in human periodontal ligament cells. <i>Matrix Biology</i> , 2008, 27, 232-241.	1.5	22
48	Trophic factors from adipose tissue-derived multi-lineage progenitor cells promote cytodifferentiation of periodontal ligament cells. <i>Biochemical and Biophysical Research Communications</i> , 2015, 464, 299-305.	1.0	22
49	Fibroblast Growth Factor-2 Stimulates Hyaluronan Production by Human Dental Pulp Cells. <i>Journal of Endodontics</i> , 2005, 31, 805-808.	1.4	21
50	Thrombin regulates the function of human blood dendritic cells. <i>Biochemical and Biophysical Research Communications</i> , 2007, 364, 318-324.	1.0	21
51	IL-15 up-regulates iNOS expression and NO production by gingival epithelial cells. <i>Biochemical and Biophysical Research Communications</i> , 2002, 297, 329-334.	1.0	20
52	Emerging Regenerative Approaches for Periodontal Reconstruction: Practical Applications From the AAP Regeneration Workshop. <i>Clinical Advances in Periodontics</i> , 2015, 5, 40-46.	0.4	20
53	FGF-2 promotes initial osseointegration and enhances stability of implants with low primary stability. <i>Clinical Oral Implants Research</i> , 2017, 28, 291-297.	1.9	19
54	<i>Porphyromonas gingivalis</i> induces entero-hepatic metabolic derangements with alteration of gut microbiota in a type 2 diabetes mouse model. <i>Scientific Reports</i> , 2021, 11, 18398.	1.6	19

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55	A Sensitive Method for Detecting Porphyromonas gingivalis by Polymerase Chain Reaction and Its Possible Clinical Application. Journal of Periodontology, 2001, 72, 1228-1235.	1.7	17
56	Dentistry in the 21st century: challenges of a globalising world. International Dental Journal, 2014, 64, 333-342.	1.0	17
57	Immunomodulation of dendritic cells differentiated in the presence of nicotine with lipopolysaccharide from Porphyromonas gingivalis. European Journal of Oral Sciences, 2012, 120, 408-414.	0.7	16
58	Expression of asporin reprograms cancer cells to acquire resistance to oxidative stress. Cancer Science, 2021, 112, 1251-1261.	1.7	16
59	Periodontal tissue regeneration by transplantation of adipose tissue-derived multi-lineage progenitor cells. Inflammation and Regeneration, 2014, 34, 109-116.	1.5	15
60	Isolation and characterization of the human immature osteoblast culture system from the alveolar bones of aged donors for bone regeneration therapy. Expert Opinion on Biological Therapy, 2014, 14, 1731-1744.	1.4	15
61	Fibroblast growth factor-2 inhibits CD40-mediated periodontal inflammation. Journal of Cellular Physiology, 2019, 234, 7149-7160.	2.0	15
62	Occlusal force predicted cognitive decline among 70- and 80-year-old Japanese: A 3-year prospective cohort study. Journal of Prosthodontic Research, 2020, 64, 175-181.	1.1	14
63	Autophagy facilitates type I collagen synthesis in periodontal ligament cells. Scientific Reports, 2021, 11, 1291.	1.6	14
64	Long-term Observation of Regenerated Periodontium Induced by FGF-2 in the Beagle Dog 2-Wall Periodontal Defect Model. PLoS ONE, 2016, 11, e0158485.	1.1	14
65	Role of ferritin in the cytodifferentiation of periodontal ligament cells. Biochemical and Biophysical Research Communications, 2012, 426, 643-648.	1.0	13
66	In situ Raman imaging of osteoblastic mineralization. Journal of Raman Spectroscopy, 2014, 45, 157-161.	1.2	13
67	Effects of the proteasome inhibitor, bortezomib, on cytodifferentiation and mineralization of periodontal ligament cells. Journal of Periodontal Research, 2015, 50, 248-255.	1.4	13
68	Fibrillin-1 insufficiency alters periodontal wound healing failure in a mouse model of Marfan syndrome. Archives of Oral Biology, 2018, 90, 53-60.	0.8	13
69	Relationship between atherosclerosis and occlusal support of natural teeth with mediating effect of atheroprotective nutrients: From the SONIC study. PLoS ONE, 2017, 12, e0182563.	1.1	13
70	Periodontal tissue stem cells and mesenchymal stem cells in the periodontal ligament. Japanese Dental Science Review, 2022, 58, 172-178.	2.0	13
71	Changes in the Distribution of Periodontal Nerve Fibers during Dentition Transition in the Cat. PLoS ONE, 2015, 10, e0129826.	1.1	12
72	Mice lacking PLAP-1/Asporin counteracts high fat diet-induced metabolic disorder and alveolar bone loss by controlling adipose tissue expansion. Scientific Reports, 2021, 11, 4970.	1.6	12

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73	Development of Oral Care Chip, a novel device for quantitative detection of the oral microbiota associated with periodontal disease. PLoS ONE, 2020, 15, e0229485.	1.1	11
74	PLAP-1: A novel molecule regulating homeostasis of periodontal tissues. Japanese Dental Science Review, 2008, 44, 137-144.	2.0	10
75	Periodontal disease in a patient with Prader-Willi syndrome: a case report. Journal of Medical Case Reports, 2011, 5, 329.	0.4	10
76	Useful Immunochromatographic Assay of Calprotectin in Gingival Crevicular Fluid for Diagnosis of Diseased Sites in Patients with Periodontal Diseases. Journal of Periodontology, 2017, 89, 1-19.	1.7	10
77	Nicotine can skew the characterization of the macrophage type-1 (M1) phenotype differentiated with granulocyte-macrophage colony-stimulating factor to the M2 phenotype. Biochemical and Biophysical Research Communications, 2009, 388, 91-95.	1.0	9
78	Zbp1-positive cells are osteogenic progenitors in periodontal ligament. Scientific Reports, 2021, 11, 7514.	1.6	9
79	Nanoscale observation of PM2.5 incorporated into mammalian cells using scanning electron-assisted dielectric microscope. Scientific Reports, 2021, 11, 228.	1.6	8
80	A MapReduce-like Deep Learning Model for the Depth Estimation of Periodontal Pockets. , 2019, , .		8
81	Successful Case of Periodontal Tissue Repair With Fibroblast Growth Factor-2: Long-Term Follow-Up and Comparison to Enamel Matrix Derivative. Clinical Advances in Periodontics, 2013, 3, 215-221.	0.4	7
82	Transcriptome Reveals Cathepsin K in Periodontal Ligament Differentiation. Journal of Dental Research, 2016, 95, 1026-1033.	2.5	7
83	Periodontal tissue regeneration by transplantation of autologous adipose tissue-derived multi-lineage progenitor cells. Scientific Reports, 2022, 12, 8126.	1.6	7
84	Periodontal tissue regeneration by transplantation of adipose tissue-derived stem cells. Journal of Oral Biosciences, 2013, 55, 137-142.	0.8	6
85	Efficacy of FGF-2 in Periodontal Regeneration in a Case of Severe Intra-bony Defect and Furcation Involvement With 15-Month Follow-Up. Clinical Advances in Periodontics, 2020, 11, 74-79.	0.4	6
86	Will implants with a fixed dental prosthesis in the molar region enhance the longevity of teeth adjacent to distal free-end edentulous spaces?. Clinical Oral Implants Research, 2021, 32, 242-248.	1.9	6
87	A cross-sectional study of relationships between periodontal disease and general health: The Hitachi Oral Healthcare Survey. BMC Oral Health, 2021, 21, 644.	0.8	6
88	Fibroblast Growth Factor-2 Stimulates Periodontal Tissue Regeneration. Clinical Advances in Periodontics, 2011, 1, 95-99.	0.4	5
89	The nanostructure of murine alveolar bone and its changes due to type 2 diabetes. Journal of Structural Biology, 2016, 196, 223-231.	1.3	5
90	Evaluation of Dental Image Augmentation for the Severity Assessment of Periodontal Disease. , 2019, , .		5

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91	Examination of the Relationship between Oral Health and Arterial Sclerosis without Genetic Confounding through the Study of Older Japanese Twins. PLoS ONE, 2015, 10, e0127642.	1.1	5
92	Reciprocal role of PLAP-1 in HIF-1 $\alpha$ -mediated responses to hypoxia. Journal of Periodontal Research, 2022, 57, 470-478.	1.4	3
93	The effect of aging on the nanostructure of murine alveolar bone and dentin. Journal of Bone and Mineral Metabolism, 2021, 39, 757-768.	1.3	2
94	Long-term Benefits of Regenerative Therapy Using FGF-2. Journal of Japanese Society of Periodontology, 2012, 54, 38-45.	0.1	2
95	Predictive factors for tooth loss in older adults vary according to occlusal support: A 6-year longitudinal survey from the SONIC study. Journal of Dentistry, 2022, 121, 104088.	1.7	2
96	Association of periodontal disease with atherosclerosis in 70-year-old Japanese older adults. Odontology / the Society of the Nippon Dental University, 2021, 109, 506-513.	0.9	1
97	Identification of genetic risk factors of aggressive periodontitis in a Japanese population by exome sequencing. Journal of Japanese Society of Periodontology, 2017, 59, 1-9.	0.1	0
98	Response to "Genetics of Periodontitis without Bias". Journal of Periodontal Research, 2019, 54, 455-456.	1.4	0
99	Secure Staging System for Highly Confidential Data Built on Reconfigurable Computing Platform. , 2019, , .		0
100	Effects of oxidative stress-induced increases in Zn <sup>2+</sup> concentrations in human gingival epithelial cells. Journal of Periodontal Research, 2021, 56, 512-522.	1.4	0
101	Role of TGF- $\beta$ 2 signaling in the ossification process of periodontal ligament cells. Journal of Japanese Society of Periodontology, 2013, 55, 132-139.	0.1	0
102	Periodontal regeneration and FGF-2. Inflammation and Regeneration, 2013, 33, 072-077.	1.5	0
103	PLAP-1 polymorphism in periodontal ligament cell differentiation; Promising avenue for future periodontology. Journal of Japanese Society of Periodontology, 2013, 54, 252-256.	0.1	0