

CURRICULUM VITAE

IDENTICAL INFORMATION

Name: Satoshi Fukumoto

Business address:

Division of Pediatric Dentistry,
Department of Oral Health and Development Sciences,
Tohoku University Graduate School of Dentistry
4-1 Seiryomachi, Aoba-ku, Sendai, Miyagi 980-8575, Japan
Phone +81-22-717-8380 Fax +81-22-717-8386

EDUCATIONAL HISTORY

1988.3.31 Graduated from Kurashiki-Amaki High School (Okayama)

1994.3.31 D.D.S. Nagasaki University School of Dentistry

2000.3.31 Ph.D. (Dr. of Dental Science) Nagasaki University School of Dentistry

PROFESSIONAL BACKGROUND (EMPLOYMENT HISTORY)

1994.4.1-1997.3.31

Instructor, Nagasaki University School of Dentistry

(Department of Pediatric Dentistry)

1997.4.1-2000.3.31

Research fellow of the Japanese Society for the Promotion of Science

2000.4.1 –2003.3.31

Instructor, Nagasaki University School of Dentistry

(Department of Pediatric Dentistry)

2000.10.1-2002.9.30

Visiting Fellow, Molecular Biology Section, Craniofacial Developmental Biology and Regeneration Branch, National Institute of Dental and Craniofacial Research (NIDCR), National Institute of Health (NIH) (Chief. Yoshihiko Yamada)

2003.4.1-2004.8.31

Assistant professor, Nagasaki University School of Dentistry

(Department of Pediatric Dentistry)

2004.9.1-

Associate professor, Kyushu University, Faculty of Dental Science
(Section of Pediatric Dentistry)

2007.11.1-present

Professor, Tohoku University Graduate School of Dentistry
(Division of Pediatric Dentistry)

2016.4.1-2019.3.31

Vice director, Tohoku University Hospital

2019.4.1-present

Professor, Kyushu University Faculty of Dental Science
(Division of Pediatric Dentistry)

LICENSE AND CERTIFICATION

1984 Japanese Dental License Registration

MEMBERSHIPS

The International Association for Dental Research

The Japanese Association for Dental Research

The Japanese Society of Pediatric Dentistry

ASBMB

FASEB

AWARD

2001 Award of Japanese Association of Pediatric Dentistry

2001 Uni-River/IADR Travel Award (Hatton Award Japanese Nominator)


2003 JSPD Distinguished Scientists Award at the 41st Annual Meeting

2004 JSPD Distinguished Scientists Award at the 42st Annual Meeting

2004 Best poster presentation award at the 46th Annual meeting of JAOB

2004 LION award (JAOB)

2007 JSPD Distinguished Scientists Award at the 45st Annual Meeting

2007 The Young Scientists' Prize, The Commendation for Science and Technology by the Minister of Education,  Culture, Sports, Science and Technology

2012 LION award (JSPD)

RECENT PUBLICATIONS (2016-)

Effective Differentiation of Induced Pluripotent Stem Cells Into Dental Cells.

Kim EJ, Yoon KS, Arakaki M, Otsu K, Fukumoto S, Harada H, Green DW, Lee JM, Jung HS.

Dev Dyn. 2019 Jan;248(1):129-139.

Patients with SATB2-associated syndrome exhibiting multiple odontomas.

Kikuri T, Mishima H, Imura H, Suzuki S, Matsuzawa Y, Nakamura T, Fukumoto S, Yoshimura Y, Watanabe S, Kinoshita A, Yamada T, Shindoh M, Sugita Y, Maeda H, Yawaka Y, Mikoya T, Natsume N, Yoshiura KI.

Am J Med Genet A. 2018 Dec;176(12):2614-2622.

The transcription factor AmeloD stimulates epithelial cell motility essential for tooth morphology.

Chiba Y, He B, Yoshizaki K, Rhodes C, Ishijima M, Bleck CKE, Stempinski E, Chu EY, Nakamura T, Iwamoto T, de Vega S, Saito K, Fukumoto S, Yamada Y. J Biol Chem. 2018 Nov 30. pii: jbc.RA118.005298.

Identification of the Novel Tooth-Specific Transcription Factor AmeloD.

He B, Chiba Y, Li H, de Vega S, Tanaka K, Yoshizaki K, Ishijima M, Yuasa K, Ishikawa M, Rhodes C, Sakai K, Zhang P, Fukumoto S, Zhou X, Yamada Y. J Dent Res. 2018 Nov 14:22034518808254.

Prevalence of molar incisor hypomineralization and regional differences throughout Japan.

Saitoh M, Nakamura Y, Hanasaki M, Saitoh I, Murai Y, Kurashige Y, Fukumoto S, Asaka Y, Yamada M, Sekine M, Hayasaki H, Kimoto S. Environ Health Prev Med. 2018 Oct 31;23(1):55.

The transcription factor NKX2-3 mediates p21 expression and ectodysplasin-A signaling in the enamel knot for cusp formation in tooth development.

Han X, Yoshizaki K, Miyazaki K, Arai C, Funada K, Yuta T, Tian T, Chiba Y, Saito K, Iwamoto T, Yamada A, Takahashi I, Fukumoto S.
J Biol Chem. 2018 Sep 21;293(38):14572-14584.

Piezo type mechanosensitive ion channel component 1 functions as a regulator of the cell fate determination of mesenchymal stem cells.

Sugimoto A, Miyazaki A, Kawarabayashi K, Shono M, Akazawa Y, Hasegawa T, Ueda-Yamaguchi K, Kitamura T, Yoshizaki K, Fukumoto S, Iwamoto T.
Sci Rep. 2017 Dec 18;7(1):17696.

NOTCH2 Hajdu-Cheney Mutations Escape SCF_{FBW7}-Dependent Proteolysis to Promote Osteoporosis.

Fukushima H, Shimizu K, Watahiki A, Hoshikawa S, Kosho T, Oba D, Sakano S, Arakaki M, Yamada A, Nagashima K, Okabe K, Fukumoto S, Jimi E, Bigas A, Nakayama KI, Nakayama K, Aoki Y, Wei W, Inuzuka H.
Mol Cell. 2017 Nov 16;68(4):645-658.e5.

Mediator 1 contributes to enamel mineralization as a coactivator for Notch1 signaling and stimulates transcription of the alkaline phosphatase gene.

Yoshizaki K, Hu L, Nguyen T, Sakai K, Ishikawa M, Takahashi I, Fukumoto S, DenBesten PK, Bikle DD, Oda Y, Yamada Y.
J Biol Chem. 2017 Aug 18;292(33):13531-13540.

Pannexin 3 regulates proliferation and differentiation of odontoblasts via its hemichannel activities.

Iwamoto T, Nakamura T, Ishikawa M, Yoshizaki K, Sugimoto A, Ida-Yonemochi H, Ohshima H, Saito M, Yamada Y, Fukumoto S.
PLoS One. 2017 May 11;12(5):e0177557

Nephronectin plays critical roles in Sox2 expression and proliferation in dental epithelial stem cells via EGF-like repeat domains.

Arai C, Yoshizaki K, Miyazaki K, Saito K, Yamada A, Han X, Funada K, Fukumoto E, Haruyama N, Iwamoto T, Takahashi I, Fukumoto S.

Sci Rep. 2017 Mar 27;7:45181.

Practical whole-tooth restoration utilizing autologous bioengineered tooth germ transplantation in a postnatal canine model.

Ono M, Oshima M, Ogawa M, Sonoyama W, Hara ES, Oida Y, Shinkawa S, Nakajima R, Mine A, Hayano S, Fukumoto S, Kasugai S, Yamaguchi A, Tsuji T, Kuboki T.

Sci Rep. 2017 Mar 16;7:44522.

The SCF β -TRCP E3 ubiquitin ligase complex targets Lipin1 for ubiquitination and degradation to promote hepatic lipogenesis.

Shimizu K, Fukushima H, Ogura K, Lien EC, Nihira NT, Zhang J, North BJ, Guo A, Nagashima K, Nakagawa T, Hoshikawa S, Watahiki A, Okabe K, Yamada A, Toker A, Asara JM, Fukumoto S, Nakayama KI, Nakayama K, Inuzuka H, Wei W.

Sci Signal. 2017 Jan 3;10(460). pii: eaah4117.

Nutrient-induced FNIP degradation by SCF β -TRCP regulates FLCN complex localization and promotes renal cancer progression.

Nagashima K, Fukushima H, Shimizu K, Yamada A, Hidaka M, Hasumi H, Ikebe T, Fukumoto S, Okabe K, Inuzuka H.

Oncotarget. 2017 Feb 7;8(6):9947-9960.

Effect of 1,25-dihydroxyvitamin D3 on spontaneous calcium responses in rat dental epithelial SF2 cells revealed by long-term imaging.

Murata K, Takahashi A, Morita T, Nezu A, Fukumoto S, Saitoh M, Tanimura A. Biomed Res. 2016;37(6):329-334.

Epiprofin Regulates Enamel Formation and Tooth Morphogenesis by Controlling Epithelial-Mesenchymal Interactions During Tooth Development.

Nakamura T, Jimenez-Rojo L, Koyama E, Pacifici M, de Vega S, Iwamoto M, Fukumoto S, Unda F, Yamada Y.

J Bone Miner Res. 2017 Mar;32(3):601-610.

Globoside accelerates the differentiation of dental epithelial cells into ameloblasts.

Nakamura T, Chiba Y, Naruse M, Saito K, Harada H, Fukumoto S.
Int J Oral Sci. 2016 Dec 16;8(4):205-212.

Analgesic Effects of 1st Generation Anti-histamines in Mice.

Takahashi M, Shima K, Tsuchiya M, Hagiwara Y, Mizoguchi H, Sakurada S, Sugawara S, Fujita T, Tadano T, Watanabe M, Fukumoto S, Endo Y.
Biol Pharm Bull. 2016;39(4):620-4.

Mutant GDF5 enhances ameloblast differentiation via accelerated BMP2-induced Smad1/5/8 phosphorylation.

Liu J, Saito K, Maruya Y, Nakamura T, Yamada A, Fukumoto E, Ishikawa M, Iwamoto T, Miyazaki K, Yoshizaki K, Ge L, Fukumoto S.
Sci Rep. 2016 Mar 31;6:23670.

Plakophilin-1, a Novel Wnt Signaling Regulator, Is Critical for Tooth Development and Ameloblast Differentiation.

Miyazaki K, Yoshizaki K, Arai C, Yamada A, Saito K, Ishikawa M, Xue H, Funada K, Haruyama N, Yamada Y, Fukumoto S, Takahashi I.
PLoS One. 2016 Mar 24;11(3):e0152206.

The ameloblastin extracellular matrix molecule enhances bone fracture resistance and promotes rapid bone fracture healing.

Lu X, Li W, Fukumoto S, Yamada Y, Evans CA, Diekwisch T, Luan X.
Matrix Biol. 2016 May-Jul;52-54:113-126.

Ameloblastin, an Extracellular Matrix Protein, Affects Long Bone Growth and Mineralization.

Lu X, Fukumoto S, Yamada Y, Evans CA, Diekwisch TG, Luan X.
J Bone Miner Res. 2016 Jun;31(6):1235-46.

Pannexin 3 and connexin 43 modulate skeletal development through their distinct functions and expression patterns.

Ishikawa M, Williams GL, Ikeuchi T, Sakai K, Fukumoto S, Yamada Y.

J Cell Sci. 2016 Mar 1;129(5):1018-30.

Connexin 43 Is Necessary for Salivary Gland Branching Morphogenesis and FGF10-induced ERK1/2 Phosphorylation.

Yamada A, Futagi M, Fukumoto E, Saito K, Yoshizaki K, Ishikawa M, Arakaki M, Hino R, Sugawara Y, Ishikawa M, Naruse M, Miyazaki K, Nakamura T, Fukumoto S.

J Biol Chem. 2016 Jan 8;291(2):904-12.