

Dr. Jianjun Hao MS, DDS, PhD

INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
The Fourth Military Medical University (FMMU), China	D.D.S.	1985-1991	Dentistry
Qin Du Stomatological Hospital, FMMU, China	M.S.	1991-1994	Endodontics
Qin Du Stomatological Hospital, FMMU, China	Ph.D.	1994-1997	Oral Biology
Shanghai Institute of Cell Biology, Academy Sinica, China	Post-Doc	1997-1999	Molecular Biology
College of Dentistry, University of Illinois at Chicago	Post-Doc	1999-2002	Oral Biology
College of Dentistry, University of Illinois at Chicago	Ortho Resident	2008-2011	Orthodontics

- Burgener B, Ford AR, Situ H, Fayad MI, **Hao J**, Wenckus CS, Johnson BR, BeGole EA, George A. Biologic markers for odontogenic periradicular periodontitis. **J Endod.** 2010; 36(8):1307-10.
- Wang X, **Hao J**, Xie Y, Sun Y, Hernandez B, Yamoah AK, Prasad M, Zhu Q, Feng JQ, Qin C. Expression of FAM20C in the Osteogenesis and Odontogenesis of Mouse. **J Histochem Cytochem.** 2010;58(11):957-67.
- Chaussain C, Eapen AS, Huet E, Floris C, Ravindran S, **Hao J**, Menashi S, George A. MMP2-cleavage of DMP1 generates a bioactive peptide promoting differentiation of dental pulp stem/progenitor cell. **Eur Cell Mater.** 2009;18:84-95.
- Hao J**, Ramachandran A, George A. Temporal and spatial localization of the dentin matrix proteins during dentin mineralization. **J Histochem Cytochem.** 2009;57(3):227-37.
- Ravindran S, Narayanan K, Eapen AS, **Hao J**, Ramachandran A, Blond S, George A. Endoplasmic reticulum chaperone protein GRP-78 mediates endocytosis of dentin matrix protein 1. **J Biol Chem.** 2008;283(44):29658-70.
- Prescott RS, Alsanea R, Fayad MI, Johnson BR, Wenckus CS, **Hao J**, John AS, George A. In vivo generation of dental pulp-like tissue by using dental pulp stem cells, a collagen scaffold, and dentin matrix protein 1 after subcutaneous transplantation in mice.. **J Endod.** 2008; 34(4):421-6.
- Simpson MA, Hsu R, Keir LS, **Hao J**, Sivapalan G, Ernst LM, Zackai EH, Al-Gazali LI, Hulskamp G, Kingston HM, Prescott TE, Ion A, Patton MA, Murday V, George A, Crosby AH. Mutations in FAM20C are associated with lethal osteosclerotic bone dysplasia (Raine syndrome), highlighting a crucial molecule in bone development. **Am J Hum Genet.** 2007;81(5):906-12.
- Hao J**, Narayanan K, Muni T, Ramachandran A, George A. Dentin Matrix protein 4 a novel secretory calcium-binding protein that modulates odontoblast differentiation. **J Biol Chem.** 2007;282(21):15357-65.
- Balducci L, Ramachandran A, **Hao J**, Narayanan K, Evans C, George A. Biological markers for evaluation of root resorption. **Arch Oral Biol.** 2007;52(3):203-8.
- Gajjerman G, Narayanan K, **Hao J**, Qin C, George A. Matrix Macromolecules in hard tissues controls the nucleation and hierarchical assembly of hydroxyapatite. **J Biol Chem.** 2007;282(2):1193-204.

11. Narayanan K, Gajjeraman S, Ramachandran A, **Hao J**, George A. Dentin matrix protein 1 regulates dentin sialophosphoprotein gene transcription during early odontoblast differentiation. **J Biol Chem**. 2006;281:19064-71.
12. George A, **Hao J**. Role of phosphophoryn in dentin mineralization. **Cells Tissues Organs**. 2005;181(3-4):232-40.
13. He G, Gajjeraman S, Schultz D, Cookson D, Qin C, Butler WT, **Hao J**, George A. Spatially and temporally controlled biomineralization is facilitated by interaction between self-assembled dentin matrix protein 1 and calcium phosphate nuclei in solution. **Biochemistry**. 2005;44(49):16140-8.
14. **Hao J**, He G, Narayanan K, Zou B, Lin L, Muni T, Ramachandran A, George A. Identification of differentially expressed cDNA transcripts from a rat odontoblast cell line. **Bone**. 2005;37(4):578-88.
15. **Hao J**, Narayanan K, Ramachandran A, George A. Cloning and characterization of dentin matrix protein 4, a novel cDNA expressed in odontoblasts and osteoblasts. **8<sup>th</sup> ICCBMT, Banff, Albert, Canada**. 2004, Oct 17-22, page 147-149.
16. Narayanan K, Ramachandran A, Peterson MC, **Hao J**, Kolsto AB, Friedman AD, George A. The CCAAT enhancer-binding protein (C/EBP) beta and Nrf1 interact to regulate dentin sialophosphoprotein (DSPP) gene expression during odontoblast differentiation. **J Biol Chem**. 2004; 279(44):45423-32.
17. Narayanan K, Srinivas R, Peterson MC, Ramachandran A, **Hao J**, Thimmapaya B, Scherer PE, George A. Transcriptional regulation of dentin matrix protein 1 by JunB and p300 during osteoblast differentiation. **J Biol Chem**. 2004; 279(43):44294-302.
18. **Hao J**, Zou B, Narayanan K, George A. Differential expression patterns of the dentin matrix proteins during mineralized tissue formation. **Bone**. 2004;34(6):921-32.
19. Fayad MI, Hawkinson R, Daniel J, **Hao J**. The effect of CO<sub>2</sub> laser irradiation on PDL cell attachment to resected root surfaces. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod**. 2004;97(4):518-23.
20. Narayanan K, Ramachandran A, **Hao J**, Gen He, Park KW, Cho M, George A. Dual functional roles of DMP1: Implications in biomineralization and gene transcription by activation of intracellular Ca<sup>2+</sup> store. **J Biol Chem**. 2003;278(19):17500-8.
21. **Hao J**, Narayanan K, Ramachandran A, Gen He, George A. Odontoblast cells immortalized by telomerase produce mineralized tissue both in-vitro and in-vivo. **J Biol Chem**. 2002: 277(22); 19976-19981.
22. Narayanan K, Ramachandran A, **Hao J**, Gen He, George A. Transcriptional regulation of dentin matrix protein 1 (DMP1) by AP-1 (c-fos/c-jun) factors. **Connect Tissue Res**. 2002; 43:365-371.
23. Narayanan K, Srinivas R, Ramachandran A, **Hao J**, Quinn B, George A. Differentiation of embryonic mesenchymal cells to odontoblast-like cells by overexpression of dentin matrix protein 1. **Proc Natl Acad Sci USA**. 2001: 98(8); 4516-21.
24. **Hao J**, Shi J, Niu Z, Xun W, Yue L, Xiao M. Mineralized nodules from human dental papilla cells. **Eur J Oral Sci**. 1997; 105 (4): 318-324.

## B. Articles in Conferences

1. **Hao J**, Nedvetsky Y, Galang M, Handelman C, Evans C. Comparison of two corticotomy methods for orthodontic tooth movement. *J Dent Res* 2011; 90 special issue A
2. **Hao J**, Nedvetsky Y, Galang M, Handelman C, Evans C. New Orthodontic Force Delivery System for Beagle Dogs. *J Dent Res* 2010; 89 special issue A
3. **Hao J**, Ramachandran A, Evans C, George A. Localization of FAM20C/DMP4 gene transcripts and its role in craniofacial development. *J Dent Res* 2009; 88 special issue A
4. **Hao J**, Narayanan K, He G, Zou B, Lin L, Mehta T, Ramachandran A, George. novel secreted protein, DMP4, modulates differentiation of odontoblasts, *J Dent Res* 2005; 84 special issue A
5. **Hao J**, He G, Narayanan K, Zou B, Mehta T, Lin L, Ramachandran A, George A. Dentin Matrix Protein 4, a secreted protein that modulates odontoblast differentiation. 8th International Conference on the Chemistry and Biology of Mineralized Tissues. 2004, Banff Center, Alberta, Canada, P120
6. **Hao J**, He G, Narayanan K, Zou B, Ramachandran A, Mehta T, George A. Identification of Differentially Expressed genes from an Odontoblast Cell Line. *J Dent Res* 2004; 83 special issue A
7. **Hao J**, Bing S, Gen H, Narayanan K, Ramachandran A, Evans C, George A. Characteristics of Tissue-engineered Dentin Generated by Immortalized Rat Odontoblast Cells. *J Dent Res* 2003; 82: special issue A
8. **Hao J**, Narayanan K, Ramachandran A, Evans C, George A. Immortalized rat odontoblast cells exhibit mineralization activity in vivo. *J Dent Res* 2002; 81: A476
9. **Hao J**, Narayanan K, Ramachandran A, Evans C, George A. Dentin matrix proteins: expression pattern in immortalized odontoblast-like cells and in developing rat teeth. 7th International Conference on the Chemistry and Biology of Mineralized Tissues. 2001, Jacksonville, FL, P47
10. **Hao J**, Narayanan K, Ramachandran A, Winn SR, Evans C, George A. Immortalization of primary rat odontoblast by SV40 large T antigen and v-myc transfection. *J Dent Res* 2001; 80: 165
11. **Hao J**, Li C, Shi J. Cytotoxic effects of glass ionomer cements. The First International Conference on Dental Pulp Biology (Xi'an, China), p35, Nov 1996
12. **Hao J**, Shi J, Xun W, Yue L. Mineralized nodules from human dental papilla cells in vitro. The First International Conference on Dental Pulp Biology (Xi'an, China), p33-34, Nov 1996