

**Dr Mei, Lei**

Title: Post-doctoral Fellow

Discipline: Biomedical and Tissue Engineering, c/o Oral Diagnosis & Polyclinics

E-mail: [mei1123@hku.hk](mailto:mei1123@hku.hk)

HKU staff number: 57046

URL: [http://facdent.hku.hk/about/academicstaff\\_info.php?sid=87](http://facdent.hku.hk/about/academicstaff_info.php?sid=87)

Tel 2859 0481

**Professional Education**

Doctor of Philosophy (PhD) 2010, the University of Hong Kong

Research project: Actions of chlorhexidine and silver diamine fluoride on cariogenic biofilm and root caries

Master of Dental Surgery (MDS) 2006, Nanjing Medical University

Research project: Three-dimensional finite element study of composite resin inlay restorations and tooth fracture resistance

Bachelor of Dental Surgery (BDS) 2003, Anhui Medical University

**Languages spoken & written**

Mandarin, English, Cantonese

**Research Interests:**

Caries prevention and management

Fluoride

Oral microbiology

**Professional Organizations:**

Membership of International Association for Dental Research (IADR)

Membership of Academy of Dental Materials (ADM)

## Journal Reviewer

Journal of Investigative and Clinical Dentistry, 2011

## Journal Articles

1. Cao Y, Liu W, Ning T, **Mei L**, Chu CH, Li QL, Lo ECM. A novel oligopeptide simulating dentine matrix protein I for biomimetic remineralization of dentine. *Clinical Oral Investigation* 2013 Aug 4. [Epub ahead of print] IF 2012: 2.200
2. Chu CH, **Mei L**, Cheung C, Nalliah RP. Restoring proximal caries lesions conservatively with tunnel restorations. *Clinical, Cosmetic and Investigational Dentistry* 2013;5:43 - 50
3. **Mei L**, Cao Y, Ito L, Li QL, Chu CH, Lo ECM. Inhibitory effect of silver diamine fluoride on dentine demineralisation and collagen degradation. *Journal of Dentistry* 2013 41:809-817 IF 2012: 3.200
4. Cao Y, **Mei L**, XuJianguang, Lo ECM, Chu CH, Li QL. Biomimetic mineralization of phosphorylated dentine by CPP-ACP. *Journal of Dentistry* 2013 41:818-825 IF 2012: 3.200
5. **Mei L**, Ito L, Chu CH, Lo ECM, Zhang CF. Prevention of dentine caries using silver diamine fluoride application followed by Er:YAG laser irradiation: an in vitro study. *Lasers in Medical Science* 2013 Apr 26. [Epub ahead of print] IF 2012: 2.402
6. **Mei L**, Chu CH, Samaranayake LP, Lo ECM. Preventing root caries development under oral biofilm challenge in an artificial mouth. *Medicina oral, Patología Oral y CirugíaBucal* 2013 Jul 1;18(4):e557-63 IF 2012: 1.017
7. **Mei L**, Chu CH, Low KH, Che CM, Lo ECM. Caries arresting effect of silver diamine fluoride on dentine carious lesion with *S. mutans* and *L. acidophilus* dual-species cariogenic biofilm. *Medicina oral, Patología Oral y CirugíaBucal* 2013 May 31 IF 2012: 1.017
8. **Mei L**, Li QL, Chu CH, Lo EC, Samaranayake LP. Antibacterial effects of silver diamine fluoride on multi-species cariogenic biofilm on caries. *Annals Clinical Microbiology Antimicrobials*. 2013 Feb 26;12(1):4. IF 2012: 1.71
9. **Mei L**, Chu CH, Lo EC, Samaranayake LP. Fluoride and silver concentrations of silver diamine fluoride solutions for dental use. *International Journal of Paediatric Dentistry*. 2012 Oct 3. IF 2012: 0.924
10. **Mei L**, Li QL, Chu CH, Yiu CKY and Lo ECM., The inhibitory effects of silver diamine fluoride at different concentrations on matrix metalloproteinases, *Dental Materials*. 2012, 28: 903-908. IF 2012: 3.773
11. Chu CH, **Mei L**, Seneviratne CJ and Lo ECM, Effects of silver diamine fluoride on dentine carious lesions induced by *Streptococcus mutans* and *Actinomyces naeslundii* biofilms, *International Journal of Paediatric Dentistry*. 2012, 22: 2-10. IF 2012: 0.924
12. Chu CH, **Mei L**, Lo ECM. Use of fluorides in dental caries management. *General Dentistry*. 2010; 58:37-43. PubMed index

## **Research Grants**

Co-Investigator

CRCG Seed Fund for Basic Research 2012 - HK\$ 73,200 201111159079

Project: Effects of silver fluoride and carbon dioxide laser on root caries with cariogenic biofilm challenge in artificial mouth

(Principal investigator: Chu CH)

## **Honors and Awards**

1. Best Research Project (Mineralized Tissue and Cariology). 25th Annual Scientific Meeting, Southeast Asian Division of International Association for Dental Research. 2011, Chu CH, **Mei L**, Seneviratne CJ & Lo ECM
2. First Runner-up Award of Poster Presentation - First Hong Kong International Dental Expo and Symposium, Hong Kong, 18-20 June 2010. **Mei L**, Seneviratne CJ, Chu CH & Lo ECM
3. GSK Best Poster Presentation Award, Beijing-Hong Kong Conjoint Scientific Meeting, 2009. **Mei L**, Seneviratne CJ, Chu CH & Lo ECM
4. The IADR / Unilever Hatton Travel Award (Senior Category, South East Asia Division) - The 23rd Annual scientific meeting of IADR – South East Asia Division, 2009. **Mei L**, Seneviratne CJ, Chu CH & Lo ECM
5. Best Poster Presentation Award - The 31st Asia-Pacific Dental Congress, Hong Kong, 2009. **Mei L**, Seneviratne CJ, Chu CH & Lo ECM