

Pasutha Thunyakitpisal

Research Unit of Herbal Medicine, Biomaterial and Material for Dental Treatment

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**Education:**

Visiting Scientist, Tokyo Medical and Dental University, Tokyo, Japan 2002

Postdoctoral Fellowship, Department of Anatomy, Indiana University, Indianapolis,  
IN, USA 1999-2000

Ph.D., Dental Science, Indiana University, Indianapolis, IN, USA 1999

D.D.S., Chulalongkorn University, Bangkok, Thailand 1991

**Academic Appointments:**

Professor, 2012-present

Department of Anatomy, Faculty of Dentistry, Chulalongkorn University, Thailand  
Associate Professor, 2004-2011

Department of Anatomy, Faculty of Dentistry, Chulalongkorn University, Thailand  
Assistant Professor, 2001-2004

Department of Anatomy, Faculty of Dentistry, Chulalongkorn University, Thailand  
Instructor, 1991-2001

Department of Anatomy, Faculty of Dentistry, Chulalongkorn University, Thailand

**Additional Academic Experience:**

-Director, 2006-present

Dental Biomaterials Science Program, Graduate School, Chulalongkorn University

-Head, 2010-present

Research Unit of Herbal Medicine, Biomaterial and Material for Dental Treatment,  
Chulalongkorn University

-President, 2012-present

Thailand Society of Dental Biomaterials

-President, 2011-2013

International Association of Dental Research, Southeast Asian Division

-President, 2013-2014

International Association of Dental Research, Asia-Pacific Region

-Chairman of the Local Organizing Committee of the 2nd Asia-Pacific Region-IADR meeting, Bangkok, Thailand, 2010-2013

### **Honors and Awards:**

- 1<sup>st</sup> place, the Southeast Asian Division- IADR, Unilever Divisional Hatton Award, Sarawak, Malaysia 2014 (Dr. Siriporn Songsiriphadapbun, Ph.D student)
- 1<sup>st</sup> place, the Southeast Asian Division – IADR, Unilever Divisional Hatton Award, Bangkok, Thailand 2013 (Dr. Pintu-on Chantarawarati, Ph.D student)
- 1<sup>st</sup> place, the Southeast Asian Division – IADR, Unilever Divisional Hatton Award, Bali, Indonesia 2007 (Dr. Siritwimon Jettanacheawchankit, Ph.D student)

### **Selected peer-reviewed international publication**

1. Chantarawarati P, Sangvanich P, Banlunara W, Soontornvipart K, **Thunyakitpisal P**. Acemannan sponges stimulate alveolar bone, cementum, and periodontal ligament regeneration in a canine class II furcation defect model. *Journal of Periodontal Research*.2014;49:164-78.
2. Boonyagul S, Banlunara W, Sangvanich P, **Thunyakitpisal P**. Effect of acemannan, an extracted polysaccharide from Aloe vera, on BMSCs proliferation, differentiation, extracellular matrix synthesis, mineralization, and bone formation in a tooth extraction model. *Odontology*. 2014;102:310-7.
3. Bhalang K, **Thunyakitpisal P**, Rungsirisatean N. Acemannan, a Polysaccharide Extracted from Aloe vera, Is Effective in the Treatment of Oral Aphthous Ulceration. *J Altern Complement Med*. 2013;19:429-34.
4. Sahawat D, Kanthasuwon S, Sangvanich P, Takata T, Kitagawa M, **Thunyakitpisal P**. Acemannan induces cementoblast proliferation,

- differentiation, extracellular matrix secretion, and mineral deposition. *Journal of Medicinal Plant Research* 2012; 6: 4069-76.
5. Srakaew V, Ruangsri P, Suthin K, **Thunyakitpisal P**, Tachaboonyakiat W. Sodium-phosphorylated chitosan/zinc oxide complexes and evaluation of their cytocompatibility: an approach for periodontal dressing. *J Biomater Appl.* 2012;27:403-12.
  6. Jittapiromsak N, Sahawat D, Banlunara W, Sangvanich P, **Thunyakitpisal P**. Acemannan, an extracted product from Aloe vera, stimulates dental pulp cell proliferation, differentiation, mineralization, and dentin formation. *Tissue Eng Part A.* 2010;16:1997-2006.
  7. Niyomploy P, **Thunyakitpisal P**, Karnchanatat A, Sangvanich P. Cell proliferative effect of polyxyloses extracted from the rhizomes of wild turmeric, *Curcuma aromatica*. *Pharm Biol.* 2010;48:932-7.
  8. Jettanacheawchankit S, Sasithanasate S, Sangvanich P, Banlunara W, **Thunyakitpisal P**. Acemannan stimulates gingival fibroblast proliferation; expressions of keratinocyte growth factor-1, vascular endothelial growth factor, and type I collagen; and wound healing. *J Pharmacol Sci.* 2009; 109:525-31.
  9. Jittapiromsak N, Jettanacheawchankit S, Lardungdee P, Sangvanich P, **Thunyakitpisal P**. Effect of Acemannan on BMP-2 expression in primary pulpal fibroblasts and periodontal fibroblasts, in vitro study. *J Oral Tissue Engin* 2007;4:149-54.
  10. **Thunyakitpisal P**, Chaisuparat R. Simvastatin, an HMG-CoA reductase inhibitor, reduced the expression of matrix metalloproteinase-9 (gelatinase B) in osteoblastic cells and HT1080 fibrosarcoma cells. *J Pharmacol Sci* 2004; 94:403-9.
  11. Alvarez MB, **Thunyakitpisal P**, Rhodes SJ, Everett ET, Bidwell JP. (2002): Assignment of Nmp4 to mouse chromosome 6 band F1 flanked by D6Mit134 and D6Mit255 using radiation hybrid mapping and fluorescence in situ hybridization. *Cytogenet Cell Genet.*2002; 94:244-5.
  12. **Thunyakitpisal P**, Alvarez M, Tokunaga K, Onyia JE, Hock J, Ohashi N, Feister H, Rhodes SJ, Bidwell JP. Cloning and functional analysis of a family of nuclear matrix transcription factors (NP/NMP4) that regulate type I collagen expression in osteoblasts. *J Bone Miner Res.*2001;16:10-23.

13. Feister H, Torrungruang K, **Thunyakitpisal P**, Parker G, Rhodes S, Bidwell J. NP/NMP4 transcription factors have distinct osteoblast nuclear matrix subdomain. *J Cellular Biochemistry* 2000;79:506-17.
14. Alvarez M, **Thunyakitpisal P**, Morrison P, Onyia J, Hock J, Bidwell JP. PTH-responsive osteoblast nuclear matrix architectural transcription factor binds to the rat type I collagen promoter. *J Cell Biochem* 1998;69:336-52.