

Curriculum Vitae

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Education:

2006	Doctor of Philosophy (Ph.D.) in Anatomy (Cell Biology)	Indiana University School of Medicine, USA
1998	Doctor of Dental Surgery (D.D.S.)	Chulalongkorn University, Thailand

Academic position

2014 – Present	Assistant Professor Department of Anatomy, Faculty of Dentistry, Mahidol University, Bangkok, Thailand
2013 – 2014	Assistant Professor Department of Oral Biology and Occlusion, Faculty of Dentistry, Prince of Songkla University, Songkhla, Thailand
2002 – 2013	Lecturer Department of Oral Biology and Occlusion, Faculty of Dentistry, Prince of Songkla University, Songkhla, Thailand
1998 – 2002	Lecturer Department of Anatomy, Faculty of Dentistry, Chulalongkorn University, Bangkok, Thailand

Administrative position

2016 – Present	Deputy Head Department of Anatomy, Faculty of Dentistry, Mahidol University, Bangkok, Thailand
2012 – 2014	Assistant Dean for Preclinical Educational Affairs Faculty of Dentistry, Prince of Songkla University, Songkhla, Thailand

Teaching experiences:

Postgraduate level:

2014– present

- Applied anatomy of Head and Neck, Connective and Mineralized Tissues, Applied Anatomy of Masticatory system, Craniofacial Biology, Stem Cell Biology and Tissue Engineering in Applied Oral Science, Applied Oral Sciences, Oral Biology, Cariology

2006 – 2014

- Advanced Oral Science, Basic Oral Science, Cell Biology and Cell Culture for Biomedical Research, Animal Cell Culture in Medical Research, Philosophy and Research Methodology in Dentistry, Special Topics in Dental Research, Prosthodontics Seminar, Dental Implantology

Undergraduate level:

2014 – present

- Craniofacial Growth and Development, Developmental Human Anatomy, Gross Anatomy of Head and Neck in Dentistry, Essential Gross Anatomy of Human Body, Fundamental of Human Microanatomy, Principle of Microanatomy of Human Organs, Principle of Functional Neuroanatomy, Embryology, Gross Anatomy, Microanatomy, Neuroanatomy, Oral Histology, English for Medical Personnel

2006 – 2014

- Craniofacial Development, Health and Diseases of Dental and Periodontal Tissues: Oral Biology, Medical Microbiology for Dentistry, Oral Biology, Tooth Morphology, Occlusion, Research in Dentistry

1998 – 2000

- Oral Histology, Gross Anatomy, Histology, Neuroanatomy

Research Publications:

1. Hoang HP, Janebodin K, Charoonpatrapong K, Tanveer Waqas, Sipiayruk K, Chotprasert N (2018). Factors affecting dimensions of the 3D ocular prosthesis in patients rehabilitated at Mahidol University. *M Dent J*. 38(1):57-64.
2. Yodthong T, Wititsuwannakul R, Panyayong K, Pitakpornpreecha T (2014). Osteoblastic proliferation and differentiation stimulating activity of compounds from *Hevea brasiliensis* Latex. *Full text in Proceedings* of the 3rd Current Drug Development International Conference. P224-P225.
3. Sangsuwan, Kedjarune-Leggat U, Panyayong K, Wanichpakorn S (2013). Effect of novel glass-ionomer cement on human osteoblasts. *Thai J Genet*. S(1):175-178.
4. Nikom J, Charoonpatrapong-Panyayong K, Kedjarune-Leggat U, Stevens R, Kosachan N Joenworoluck A (2013). 3D-interconnected porous HA scaffolds with SiO₂ additions: effect of SiO₂ content and macropore size on the viability of human osteoblast cells. *J Biomed Mater Res Part A*. 101(8):2295-2305.
5. Charoonpatrapong-Panyayong K, Chanchayanon B, Panyayong W (2013). Heat stress induces both apoptosis and necrosis in normal human osteoblasts without heat shock protein-60 (HSP60) release. *Songklanakarin J Sci Technol*. 35(2):123-129.
6. Chanchayanon B, Panyayong K (2013). Effects of stress on osteoblasts-induced TNF-alpha release from macrophages. *Full text in Proceedings* of the 6th Silpakorn University International Conference on Academic Research and Creative Arts: Integration of Art and Science. P126-P133.

7. Jodnak S, Thongraung C, **Panyayong K** (2012). Antioxidative and calcium binding activities of tilapia bone protein hydrolysate. *Full text in Proceedings* of the 4th International Conference on Natural Products for Health and Beauty. P-A-058.
8. Nikom J, **Panyayong K**, Joenworarluck A, Kosachan N, Leggat U (2008). Cell cytotoxicity of silica doped hydroxyapatite bioceramics to bone cell. *Full text in Proceedings* of the 34th Congress on Science and Technology of Thailand. I_10011.
9. **Charoonpatrapong-Panyayong K**, Shah R, Yang J, Alvarez M, Pavalko FM, Gerard-O'Riley R, Robling AG, Templeton E, Bidwell JP (2007). Nmp4/CIZ contributes to fluid shear stress induced *MMP-13* gene induction in osteoblasts. *J Cell Biochem.* 102: 1202-1213.
10. **Charoonpatrapong K**, Shah R, Robling AG, Alvarez M, Clapp W, Chen S, Kopp RP, Pavalko FM, Yu J, Bidwell JP (2006). HMGB1 expression and release by bone cells. *J Cell Physiol.* 207(2): 480-490.
11. Guy JC, Hunter CS, Showalter AD, Smith TP, **Charoonpatrapong K**, Sloop KW, Bidwell JP, Rhodes SJ (2004). Conserved amino acid sequences confer nuclear localization upon the Prophet of Pit-1 pituitary transcription factor protein. *Gene.* 336(2): 263-273.
12. Torrungruang K, Shah R, Alvarez M, Bowen DK, Gerard R, Pavalko FM, Elmendorf JS, **Charoonpatrapong K**, Hock J, Rhodes SJ, Bidwell JP (2002). Osteoblast intracellular localization of Nmp4 proteins. *Bone.* 30(6): 931-936.
13. Darongsuwan T, **Charoonpatrapong K**, Pavasant P (2000). Induction of OPN/BSP during differentiation of human PDL cells in vitro by dexamethasone. *J Dent Assoc Thai.* 50: 388-396.
14. **Charoonpatrapong K**, Pattamapun K (2000). Comparison of two methods in measuring the cytotoxicity effects: Methylene blue assay and MTT assay. *CU Dent J.* 23: 83-90.
15. Bencharit S, Phankosol P, **Charoonpatrapong K**, Pongrasamiroj L (1995). Flexural strength of autopolymerizing acrylic resin tray materials. *CU Dent J.* 18: 199-207.

Presentation in scientific meetings:

1. Phan H, Chotprasert N, Janebodin K, **Charoonpatrapong K**, Srithavaj T. Factors Affecting Dimensions of the 3D Ocular Prosthesis in Patients Rehabilitated at Mahidol University. J Indian Prosthodont Soc. 2018 Oct;18(Suppl 1): S15. Presented in the 11th Biennial Congress of Asian Academy of Prosthodontics (AAP) meeting & the 8th Scientific Conference & AGM of Malaysian Association for Prosthodontics, Kuala Lumpur, Malaysia. September 21st – 23rd, 2018. [Poster presentation]
2. **Charoonpatrapong K**, Panyayong W. Surface Morphology and Osteoblast Attachment of Acid-Etched Mollusk Shell Surfaces. Presented in the 34th Annual Conference of the Microscopy Society of Thailand (MST34), Bangkok, Thailand. May 31st – June 2nd, 2017. [Poster presentation]
3. Suppakpatana P, **Charoonpatrapong K**, Kaewmuangmoon J. Cytotoxicity of propolis extracts on human parotid salivary gland tumor (HSY cells). Presented in the 11th International Dental Collaboration of the Mekong River Region (IDCMR), Malaysia. November 17th – 19th, 2016. [Poster presentation]
4. Kaewmuangmoon J, **Charoonpatrapong K**, Suppakpatana P. Effect of Thai Propolis Extracts on Human Salivary Tumor Cells. Presented in the 94th General Session & Exhibition of the International Association of Dental Research (IADR) & the 3rd meeting of the IADR Asia Pacific region (IADR/APR), Seoul, Republic of Korea. June 22nd - 25th, 2016. [Poster presentation]
5. **Charoonpatrapong K**, Chaiditsakul C, Tanthawarak P, Sooksaranruedee P, Charoenwongsawad P. Differential Effects of Moringa oleifera Aqueous Leaf Extracts on Osteoblasts. Presented in the 29th Annual Scientific Meeting International Association for Dental Research: Southeast Asia Division (IADR-SEA), Bali, Indonesia. August 14th - 15th, 2015. [Poster presentation]
6. Yodthong T, Wititsuwannakul R, **Panyayong K**, Pitakpornpreecha T. Osteoblastic proliferation and differentiation stimulating activity of compounds from Hevea brasiliensis Latex. Presented in the 3rd Current Drug Development (CDD) International Conference, Krabi, Thailand. May 1st -3rd, 2014. [Poster presentation]

7. Sangsuwan, Kedjarune-Leggat U, **Panyayong K**, Wanichpakorn S. Effect of novel glass-ionomer cement on human osteoblasts. Presented in the 18th National Genetics Conference (NGC), Bangkok, Thailand. July 17th - 19th, 2013. [Poster presentation]
8. Chanchayanon B, **Panyayong K**. Effects of stress on osteoblasts-induced TNF-alpha release from macrophages. Presented in the 6th Silpakorn University International Conference on Academic Research and Creative Arts: Integration of Art and Science, Nakorn Pathom, Thailand. January 16th- 18th, 2013. [Poster presentation]
9. Jodnak S, Thongraung C, **Panyayong K**. Antioxidative and calcium binding activities of tilapia bone protein hydrolysate. Presented in the 4th International Conference on Natural Products for Health and Beauty. Chiang Mai, Thailand. November 28th-30th, 2012. [Poster presentation]
10. **Panyayong K**, Chanchayanon B, Panyayong W. Expression and release of heat shock protein-60 from heat-treated osteoblasts. Presented in the 89th General Session & Exhibition of the International Association of Dental Research (IADR), San Diego, CA, USA. March 16th-19th, 2011. [Poster presentation]
11. Panyayong W, Kamonmattayakul S, Trongsilat S, Poosirorangi S, Khunumpai P, **Panyayong K**. Surface characteristics of mollusk shells and their bioactivities on osteoblasts. Presented in the 1st Bangkok Implant Symposium: Future Implant Dentistry: A Scientific Base, Bangkok, Thailand. December 1st-3rd, 2010. [Poster presentation]
12. **Panyayong K**. Alarmin(g) signal and its potential role in bone metabolism. Abstract book. Presented in 2nd Thailand International Conference of Oral Biology: Biology of Mineralized Tissue, Bangkok, Thailand. May 7th, 2009. [Oral presentation]
13. Nikom J, **Panyayong K**, Joenworalluck A, Kosachan N, Leggat U. Cell cytotoxicity of silica doped hydroxyapatite bioceramics to bone cell. Presented in the 34th Congress on Science and Technology of Thailand, Bangkok, Thailand. October 31st- November 2nd, 2008. [Poster presentation]

14. **Panyayong K**, Yang J, Pavalko FM, Gerard-O'Riley R, Bidwell JP. Nmp4/CIZ contributes to fluid shear stress induced MMP-13 gene induction in osteoblasts. *J Bone Miner Res.* 22 (Suppl 1): S359. Presented in 29th Annual meeting of the American Society of Bone and Mineral Research, Honolulu, HI, USA. September 15th-19th, 2007. [Poster presentation]
15. **Charoonpatrapong K**, Shah R, Robling AG, Bidwell JP. High Mobility Group Box 1 (HMGB1) expression and release by bone cells. Presented in 45th Annual meeting of the American Society of Cell Biology, San Francisco, CA, USA. December 10th-14th, 2005. [Poster presentation]
16. **Charoonpatrapong K**, Methathrathip D, Pavasant P. Stimulatory effect of fluoride on gingival fibroblast is serum dependent. *J Dent Res.* 80:1372. Presented in 15th Annual meeting of International Association of Dental Research: Southeast Asian Division, Taiwan. October 2nd-4th, 2000. [Poster presentation]

Review articles:

1. Bidwell JP, Torrungruang K, Alvarez M, Rhodes SJ, Shah R, Jones DR, **Charoonpatrapong K**, Hock JM, Watt AJ (2001) Involvement of the nuclear matrix in the control of skeletal genes: the NMP1 (YY1), NMP2 (Cbfa1), and NMP4 (Nmp4/CIZ) transcription factors. *Crit Rev Eukaryot Gene Expr.* 11(4): 279-297.