

CURRICULUM VITAE

Name Thakoon Thitiset

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Education

- Doctor of Philosophy (PhD), Biomedical Engineering
Chulalongkorn University, Faculty of Engineering
- Master of Science (MSc), Medical Biochemistry
Chulalongkorn University, Faculty of Medicine
- Doctor of Medicine (MD), Medicine
Our Lady of Fatima University, College of Medicine

Working experience

Year	Description
2013 – Present	Lecturer, Medical Record Program, Department of Social Sciences, Faculty of Social Sciences and Humanities, Mahidol University
2024 - 2025	Quality Care Team, HA National Forum
2020 - Present	Peer Reviewer of the Journal <ol style="list-style-type: none">1. Journal of Orthopaedic Surgery and Research2. Journal of Sports Science and Health Innovation, Rajabhat University Group of Thailand: SHIRT3. Science and Technology Journal of Sisaket Rajabhat University4. Integrated Social Sciences Journals
2020 - 2021	Postgraduate Medical Intern, Bangkok Metropolitan Administration General Hospital, Medical Service Department Bangkok
2019 - 2020	Junior Medical Intern, Fatima University Medical Center
2014	Postdoctoral Fellowship (Marie Skłodowska-Curie Actions) Secondment agreement to join "STEMMAD" project (Patient-specific stem cell-derived models for Alzheimer's disease and related neurodegenerative disorders)
2011 - 2012	Teaching Assistant (TA), Biomedical Engineering Program, Faculty of Engineering, Chulalongkorn University
2006 - 2008	Research Assistant (RA), Bone Biology Research Unit, Department of Biochemistry, Faculty of Medicine, Chulalongkorn University

List of Publications

1. **Thitiset T**, Damrongsakkul S, Yodmuang S, Leeanansaksiri W, Apinun J, Honsawek S. A novel gelatin/chitooligosaccharide/demineralized bone matrix composite scaffold and periosteum-derived mesenchymal stem cells for bone tissue engineering. *Biomaterial Research*. 2021 Jun 16;25(1):19.
2. Jeeranan Kaewma, Tachapon Tongterm, **Thakoon Thitiset**, Behavior of Food Offering to Buddhist Monks of the Elderly in Sisaket Province. *Academic MCU Buriram Journal*, 2020, 5(2), pp. 119-133.
3. T Turajane, **T Thitiset**, S Honsawek, U Chaveewanakorn, J Aojanepong, K I Papadopoulos. Assessment of chondrogenic differentiation potential of autologous activated peripheral blood stem cells on human early osteoarthritic cancellous tibial bone scaffold. *Musculoskeletal Surgery*. 2014 June;98(1):35-43.
4. **Thakoon Thitiset**, Siriporn Damrongsakkul, Tanom Bunaprasert, Wilairat Leeanansaksiri, Sittisak Honsawek. Development of collagen/demineralized bone powder scaffolds and periosteum-derived cells for bone tissue engineering application. *Int J Mol Sci*. 2013 Jan 21;14(1):2056-71.
5. Thana Turajane, Ukrit Chaweewannakorn, Viroj Larbpaiboonpong, Jongjate Aojanepong, **Thakoon Thitiset**, Sittisak Honsawek, Juthatip Fongsarun, Konstantinos I Papadopoulos. Combination of intra-articular autologous activated peripheral blood stem cells with growth factor addition/ preservation and hyaluronic acid in conjunction with arthroscopic microdrilling mesenchymal cell stimulation Improves quality of life and regenerates articular cartilage in early osteoarthritic knee disease. *Journal of the Medical Association of Thailand*. 2013 May;96(5):580-8.
6. **Thakoon Thitiset**, S Buranapraditkul, S Damrongsakkul, S Honsawek, Isolation and cellular properties of mesenchymal stem cells from human periosteum. *Asian Biomedicine*, 2013, 7(6), pp. 777-785.
7. Honsawek S, Bumrunpanichthaworn P, **Thitiset T**, and Wolfinbarger L. Gene expression analysis of demineralized bone matrix-induced osteogenesis in human periosteal cells using cDNA array technology. *Genetic and Molecular Research*. 2011, Vol. 10(3), 2093-2103.
8. **Thitiset T**, Honsawek S. Differential Expression of Osteogenic Differentiation in Human Umbilical Cord Wharton's Jelly-Derived Mesenchymal Stem Cells Treated with Demineralized Bone. *Journal Advanced Materials Research* 2008 (Vol. 55 – 57), Vol. Smart Materials; 697-700.
9. Honsawek S, **Thitiset T**, Phupong V. Gene Expression Characteristics of Osteoblast Differentiation in Human Umbilical Cord Mesenchymal Stem Cells Induced by Demineralized Bone Matrix. *Asian Biomedicine* Vol. 1 No. 4 December 2007;383-391.

10. Honsawek S, **Thitiset T**, Phupong V. Effects of Demineralized Bone Matrix on Proliferation and Osteogenic Differentiation of Mesenchymal Stem Cells from Human Umbilical Cord. J Med Assoc Thai. 2006 Sep;89 Suppl 3:S189-95.
11. Honsawek S, **Thitiset T**. Content of Bone Morphogenetic Protein-4 in Human Demineralized Bone: Relationship to Donor Age and Ability to Induce New Bone Formation. J Med Assoc Thai. 2005 Sep;88 Suppl 4:S260-5.

Award and Scholarship

Year	Degree
2022	FALLING WALLS LAB THAILAND (Audience Awards) Winner of the Popular Vote 2022 Presentation title: “Breaking the wall of the future hospital cares”
2014	Postdoctoral Fellowship (Marie Skłodowska-Curie Actions), European Commission
2013	PhD Research Presentation Awards, Issued by the Office of Commission on Higher Education at Pattaya, Chonburi
2012	PhD Research Presentation Awards, Issued by Joint Conference in Medical Sciences: Chula-Rama-Siriraj at Impact Arena, Bangkok
2011	Dissertation Grant from “90th Chulalongkorn University Scholarship”, Graduate School, Chulalongkorn University
2008	Research Grant for PhD Dissertation, Development and Engineering (RD&E) Fund, NANOTEC, THAILAND
2008	PhD Full Scholarship (the Office of Commission on Higher Education)
2007	Poster Presentation Awards, 1st Thai-German Symposium on Regenerative Medicine, Miracle Grand Convention, Bangkok
2006	The 6th National Graduate Research Conference (Oral Presentation awards), Chulalongkorn University
2006	Thesis Grant, Graduate School, Chulalongkorn University

Society Membership

2012-2014 Orthopaedic Research Society (ORS)