



Thai Union

Profile of Professor and Associate Professor at GIC

Updated May 2020

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Names	Professional Experience	Technical Expertise
Assoc. Prof. Dr. Jirawat Yongsawatdigul	Associate Professor at Suranaree University of Technology, Nakhon Ratchasima, Thailand	<ul style="list-style-type: none"> • Biochemical changes and functional properties of proteins and peptides derived from muscle foods, particularly fish and chicken. • Bioactive peptides encrypted in muscle proteins and byproducts from fish and poultry processing lines.
Prof. Dr. Nateetip Krishnamra	<p>Acting Assistant to the President for Research and Scientific Affairs, Mahidol University, Bangkok, Thailand</p> <p>Distinguished Professor of Physiology (previously known as Professor 11), Department of Physiology, Faculty of Science, Mahidol University, Bangkok, Thailand</p>	<ul style="list-style-type: none"> • Calcium and Bone Research • Calcium metabolism • Bone metabolism at systemic, cellular and molecular levels • Endocrine and gastrointestinal physiology
Prof. Dr. Narattaphol Charoenphandhu	Distinguished Professor of Physiology Department of Physiology, Faculty of Science, Mahidol University, Bangkok, Thailand	<ul style="list-style-type: none"> • Calcium and Bone Research • Calcium and ion transport study using radioactive tracers • Epithelial impedance analysis • Computer- assisted bone histomorphometry • Micro-computed tomography • Quantitative immunohistochemical analysis • Microarray and transcriptome analysis of enterocytes and bone cells • In vivo study in normal and mutant animals • Clinical trials for development of calcium supplement
Prof. Dr. Pavinee Chinachoti	Advisor, Food Science and Technology Association of Thailand (FoSTAT) Food Innovation and Regulation Network (FIRN), Thailand	<ul style="list-style-type: none"> • Food science & technology • Water control of food deterioration • Water dynamics, Cereal biopolymers and Foods
Prof. Dr. Sakamon Devahastin	Professor, Department of Food Engineering King Mongkut's University of Technology Thonburi, Bangkok, Thailand	<ul style="list-style-type: none"> • Thermal and non-thermal processing of foods and biomaterials, in particular the development and study of novel drying technologies for heat- and oxygen-sensitive materials,

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		and also in particulate systems and computational fluid dynamics and heat/mass transfer
Assoc. Prof. Dr. Emorn Udomkesmalee	Associate Professor/Former Director of the Institute of Nutrition, Mahidol University, Thailand, as well as Adjunct Associate Professor in Bloomberg School of Public Health, Johns Hopkins University, USA	<ul style="list-style-type: none"> • Micronutrients research in mothers and children • Vitamin A assessment and metabolism • Bioavailability of micronutrients e.g. vitamin A, iron, zinc • Efficacy of food-based interventions to improve micronutrient status • Policy advocacy for maternal and child nutrition
Assoc. Prof. Dr. Kwanchanok Viravaidya-Pasuwat	Associate Professor at Department of Biological Engineering, Faculty of Engineering, King Mongkut's University of Technology Thonburi, Bangkok, Thailand	<ul style="list-style-type: none"> • Cell Sheet Engineering • Tissue Engineering
Assoc. Prof. Dr. Saovanee Chancharoensin	Associate Professor at Mahidol University International College, Mahidol University, Bangkok, Thailand	<ul style="list-style-type: none"> • Microbial physiology and genetics • Microbial enzyme application.
Assoc. Prof. Dr. Saowakon Wongsasulak	Associate Professor at the Department of Food Engineering, Faculty of Engineering, King Mongkut's University of Technology Thonburi, Bangkok, Thailand	<ul style="list-style-type: none"> • Food Science
Assoc. Prof. Dr. Sittiwat Lertsiri	Associate Professor at Department of Biotechnology, Faculty of Science, Mahidol University, Bangkok, Thailand	<ul style="list-style-type: none"> • Flavor and aroma chemistry • Evaluation of shelf life for food products • Chemical reactions in food system • Chemical safety • Food safety: Chemical hazard in food processing and products
Assoc. Prof. Dr. Thunyarat Pongtharangkul	Associate Professor of Department of Biotechnology, Faculty of Science, Mahidol University, Bangkok, Thailand	<ul style="list-style-type: none"> • Development of whole-cell biocatalysts for production of bio-based chemicals (e.g. epoxides, vanillin) • Production of value-added products via fermentation (e.g. bacteriocin, CRM197) • Aqueous/Organic (Biphasic) bioconversion • Bioremediation of toxic chemicals (e.g. BTEX, PAHs)

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Assoc. Prof. Dr. Wunwiboon Garnjanagoonchorn	Associate Professor at the Department of Food Science and Technology, Faculty of Agro-Industry, Kasetsart University, Bangkok, Thailand	<ul style="list-style-type: none"> • Fishery Product Technology • Egg Product Technology • Food Industrial Waste Utilization
Assoc. Prof. Dr. Yodchanan Wongsawat	Associate Professor at the Department of Biomedical Engineering, Faculty of Engineering, Mahidol University, Bangkok, Thailand	<ul style="list-style-type: none"> • Brain Computer Interface • Image Processing • Genomic Signal Processing
Asst. Prof. Dr. Chakrit Techaapaikoon	Assistant Professor at the School of Bioresources and Technology, King Mongkut's University of Technology Thonburi, Bangkok, Thailand	<ul style="list-style-type: none"> • Discovery Novel Extremely Anaerobic Microorganisms and Its Utilization • Utilization of Microorganisms And Enzymes For Green Environmental Pretreatment And Green Energy
Asst. Prof. Dr. Chanida Pachotikarn	Assistant Professor and Advisor, Institute of Nutrition, Mahidol University, Thailand President of Thai Dietetic Association	<ul style="list-style-type: none"> • Clinical Nutrition and Dietetics • Impact of Diet Regimen on Nutrition And Health • Medical Nutrition Therapy
Asst. Prof. Dr. Nuttawee Niamsiri	Lecturer at the Department of Biotechnology, Faculty of Science, Mahidol University, Bangkok, Thailand	<ul style="list-style-type: none"> • Food Science, Food Microbiology, Food Fermentation & Food Safety • Applied Microbiology, Biotechnology & Nanobiotechnology • Biopolymers, Biomaterials & Polymer Science • Nano-/Microparticles for Drug Delivery & Food Colloids Formulation • Membranes And 3d Scaffolds for Tissue Engineering Application
Asst. Prof. Dr. Pramvadee Wongsangchatra	Lecturer at Department of Biotechnology, Faculty of Science, Mahidol University, Bangkok, Thailand	<ul style="list-style-type: none"> • Sericin-Specific Proteinase Enzyme • Screening, Cloning and Characterization of Microbial Proteases Applicable For Degumming of Silk • Evaluation of Enzymatic Treatment For Silk-Degumming Process

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Asst. Prof. Dr. Siripong Thitamadee	Lecturer, Department of Biotechnology, Faculty of Science, Mahidol University, Bangkok, Thailand	<ul style="list-style-type: none"> • Cell Fate Determination in Plant Vasculature • Cell Wall Formation in Plants • The Mechanism Underlying Translocation of Double Stranded RNA from Environment Into Cells
Asst. Prof. Dr. Uttra Jamikorn	Assistant Professor at the Department of Animal Husbandry, Faculty of Veterinary Sciences, Chulalongkorn University, Bangkok, Thailand	<ul style="list-style-type: none"> • Animal Nutrition
Asst. Prof. Dr. Yaowapa Lorjaroenphon	Assistance Professor at Department of Food Science and Technology, Faculty of Agro-Industry, Kasetsart University, Bangkok, Thailand	<ul style="list-style-type: none"> • Flavor Chemistry, Flavor Analysis by Instrumental and Sensory Measurements
Dr. Napassorn Punyasuk	Lecturer at Department of Biotechnology, Faculty of Science, Mahidol University, Bangkok, Thailand	<ul style="list-style-type: none"> • Plant Physiology and Molecular Responses to Abiotic Stresses • Plant Mineral Nutrition • Plant Metal Homeostasis • Hydroponics Technology
Dr. Nisa Patikarnmonthon	Lecturer, Department of Biotechnology, Faculty of Science, Mahidol University, Bangkok, Thailand	<ul style="list-style-type: none"> • Polymer Based Drug Delivery • Nanoparticles • Nanobiotechnology • Biomedical Engineering
Dr. Panan Suntornsaratoon	Senior Researcher at Department of Physiology, Faculty of Science, Mahidol University, Bangkok, Thailand	<ul style="list-style-type: none"> • Calcium and Bone Research • Bone and Cartilage Histology and Morphometry • Osteopenia and Osteoporosis : Pathogenesis and Development of Interventions • Development of Calcium Supplement from Natural Products
Dr. Panwajee Payongsiri	Lecturer at Department of Biotechnology, Faculty of Science, Mahidol University, Bangkok, Thailand	<ul style="list-style-type: none"> • Protein Engineering with a Full Understanding of the Various Stages involved in the Development and Manufacture of Bioproducts

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		<ul style="list-style-type: none"> • Engineering Biocatalyst for Better Performance • Bioprocess Planning and Evaluation
Dr. Ratchaneevan Aeimpla	Lecturer at Department of Physiology, Faculty of Science, Mahidol University, Bangkok, Thailand	<ul style="list-style-type: none"> • Bone and Calcium Research
Dr. Teerarat Likitwattanasade	Lecturer at Department of Biotechnology, Faculty of Science, Mahidol University, Bangkok, Thailand	<ul style="list-style-type: none"> • Food Biotechnology