CURRICULUM VITAE

Name: Dr. Keerati Wanchai (Ph.D.)

PERSONAL DETAILS

Date of Birth: August 14th, 1985

Nationality: Thai

Religion: Buddhism

Home address: 26/2 M.3, Mae Khom, Mae Chan, Chiang Rai 57240 Thailand

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EDUCATION

2018 **Doctor of Philosophy (Ph.D.)**, Physiology

Faculty of Medicine, Chiang Mai University, Thailand

2011 **Master of Science (M.Sc.)**, Physiology

Faculty of Medicine Siriraj Hospital, Mahidol University, Thailand

2007 **Bachelor of Science (B.Sc.)**, Medical Technology, First class honors with golden medal) Rangsit University, Thailand

2003 High School, Samakkiwittayakhom, Chiang Rai, Thailand

PROFESSIONAL APPOINTMENT

2014-Present	Instructor, School of Medicine, Mae Fah Luang University, Chiang Rai, Thailand
2012 – 2013	Instructor, School of Health Science, Mae Fah Luang University, Chiang Rai, Thailand

RESEARCH FIELDS OF INTEREST

Renal physiology

Cellular and molecular mechanism of epithelial transportation

Obesity, diabetes and gut microbiota

Prebiotic, Probiotic and Synbiotic

PUBLICATIONS

First author:

1. **Probiotic *Lactobacillus paracasei* HII01 protects rats against obese-insulin resistance-induced kidney injury and impaired renal organic anion transporter 3 function. Clin Sci (Lond) 2018; 132(14): 1545-1563. Wanchai K**, Yasom S, Tunapong W, Chunchai T, Eaimworawuthikul S, Thiennimitr P, Chaiyasut C, Pongchaidecha A, Chatsudthipong V, Chattipakorn S, Chattipakorn N, Lungkaphin A. Probiotic
   PMID: 29980603

2. **Prebiotic prevents impaired kidney and renal Oat3 functions in obese rats. J Endocrinol 2018; 237(1): 29-42. Wanchai K**, Yasom S, Tunapong W, Chunchai T, Thiennimitr P, Chaiyasut C, Pongchaidecha A, Chatsudthipong V, Chattipakorn S, Chattipakorn N, Lungkaphin
   PMID: 29483238

3. **Role of Gastrointestinal Microbiota on Kidney Injury and the Obese Condition. AJMS 2017; 353(1): 59–69.** (Review article) **Wanchai K**, Pongchaidecha A, Chatsudthipong V, Siriporn C. Chattipakorn, Chattipakorn N and Lungkaphin A.
   PMID: 28104104

Co-author:

1. **Effects of probiotics, prebiotics or synbiotics on jawbone in obese-insulin resistant rats. Eur J Nutr 2018; doi: 10.1007/s00394-018-1829-4.** Eaimworawuthikul S, Tunapong W, Chunchai T, Yasom S, **Wanchai K**, Suntornsaratoon P, Charoenphandhu N, Thiennimitr P, Chattipakorn N, Chattipakorn SC. PMID: 30251017

2. **Dapagliflozin, a SGLT2 inhibitor, slows the progression of renal complications through the suppression of renal inflammation, ER stress, and apoptosis in pre-diabetic rats. Diabetes Obes Metab 2018; 20: 2617-2626.** Jaikumkao K, Pongchaidecha A, Chueakula N, Thongnak LO, **Wanchai K**, Chatsudthipong V, Chattipakorn N, Lungkaphin.
PMID: 29923295

3. **Lactobacillus paracasei HII01, xylooligosaccharides, and synbiotics reduce gut disturbance in obese rats. Nutrition 2018; 54: 40-47.** Thiennimitr P, Yasom S, Tunapong W, Chunchai T, **Wanchai K**, Pongchaidecha A, Lungkaphin A, Sirilun S, Chaiyasut C, Chattipakorn N, Chattipakorn SC.
PMID: 29705500

4. **Renal outcomes with sodium glucose cotransporter 2 (SGLT2) inhibitor, dapagliflozin, in obese insulin-resistant model. Biochim Biophys Acta 2018; 1864: 2021-2033.** Jaikumkao K, Pongchaidecha A, Chueakula N, Thongnak L, **Wanchai K**, Chatsudthipong V, Chattipakorn N, Lungkaphin A.
PMID: 29572114

5. **Decreased microglial activation through gut-brain axis by prebiotics, probiotics, or synbiotics effectively restored cognitivefunction in obese-insulin resistant rats. J of Neuroinflammation 2018; 15(1): 11.** Chunchai T, Tunapong W, Yasom S, **Wanchai K,** Eaimworawuthikul S, Metzler G, Lungkaphin A, Pongchaidecha A, Sirilun S, Chaiyasut C, Pratchayasakul W, Thiennimitr P, Chattipakorn N, Chattipakorn SC.
PMID: 29316965

6. **Chronic treatment with prebiotics, probiotics and synbiotics attenuated cardiac dysfunction by improving cardiac mitochondrial dysfunction in male obese insulin‐resistant rats. Eur J Nutr 2018; 57(6): 2091-2104.** Tunapong W, Apaijai N, Yasom S, Tanajak P, **Wanchai K**, Chunchai T, Kerdphoo S, Eaimworawuthikul S, Thiennimitr P, Pongchaidecha A, Lungkaphin A, Pratchayasakul W, Chattipakorn SC., Chattipakorn N. PMID: 28608320

7. **Estrogen attenuates AGTR1 expression to reduce pancreatic β-cell death from high glucose. Sci Rep 2017; 7: 16639.** Kooptiwut S, **Wanchai K**, Semprasert N, Srisawat C, Yenchitsomanus P. PMID: 29192236

8. **Amelioration of Renal Inflammation, Endoplasmic Reticulum Stress and Apoptosis Underlies the Protective Effect of Low Dosage of Atorvastatin in Gentamicin-Induced Nephrotoxicity. PLoS One 2016; 11(10): e0164528.** Jaikumkao K, Pongchaidecha A, Thongnak LO, **Wanchai K**, Arjinajarn P, Chatsudthipong V, Chattipakorn N, Lungkaphin A. PMID**:** 27727327

9. **The Probiotic Therapy with *Lactobacillus Paracasei* Increased Cognitive Function in Obese Insulin Resistant Rats. Journal of Physiological Sciences. 2015; 65: S-A87.** Chunchai T, Thunapong W, Yasom S, **Wanchai K**, Thiennimitr P, Chaiyasut C, Chattipakorn N, Chattipakorn SC.

PRESENTATION AT INTERNATIONAL MEETING

January 2018 The First International Conference on Innovation of Functional Foods in Asia (IFFA 2018), University of Phayao, Phayo province, Thailand. (Poster presentation) Probiotic Attenuates Kidney Dysfunction by Reducin Hypercholesterolemia and Insulin Resistance in High-Fat Diet-Induced Obese Rats.

December 2015 The International Graduate Research Conference 2015 (iGRC 2015), Chiang Mai, Thailand. (Oral Presentation) Prebiotic Xylooligosaccharide Attenuates Kidney Dysfunction by Improving Insulin Resistance in High-Fat Diet Induced-Obese Rats.

PRESENTATION AT NATIONAL MEETING

December 2016 The 44th Annual Meeting of Physiological Society of Thailand, Chiang Mai, Thailand. (Poster presentation) Prebiotic xylooligosaccharide attenuates kidney dysfunction in high-fat diet induced-obese rats.

August 2011 The 1st STOU Graduate Research Conference, Nontaburi, Thailand. (Oral presentation) Reduction AT1R Expression by Estrogen in INS-1 Pancreatic β-cell After Prolong Culturing in High glucose.

May 2011 The 40th Annual Meeting of Physiological Society of Thailand, Khon Kaen, Thailand (Poster presentation) Effect of Estrogen on Angiotensin II Type 1 Receptor Expression in Pancreatic βCell Prolonged Culture in High Glucose.