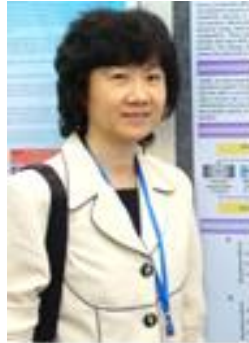


# Curriculum Vitae

## ORAWAN WONGMEKIAT, PhD



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**Marital Status** Single

### EDUCATION

1997-2000 Ph.D. (Physiology), Department of Physiology, School of Medicine & Dentistry, University of Birmingham, Birmingham, UK  
1990-1992 M.Sc. (Physiology), Department of Physiology, Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand  
1980-1984 B.Sc. (Nursing & Midwifery), Hons., Chiang Mai University, Chiang Mai, Thailand

### PROFESSIONAL APPOINTMENT

2006-Present Associate professor, Department of Physiology, Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand  
2001-2006 Assistant professor, Department of Physiology, Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand  
1992-2001 Instructor, Department of Physiology, Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand

## HONORS AND AWARDS

2017-2020	<i>The Royal Golden Jubilee Fellowship Award for PhD Advisor, Thailand Research Fund, Bangkok, Thailand</i>
2006	<i>Investigator Award (Basic Sciences, Third prize), the 30<sup>th</sup> Annual Scientific Meeting on Mahidol's Day, Chiang Mai, Thailand.</i>
2004	<i>Investigator Award (Basic Sciences, Third prize), the 28<sup>th</sup> Annual Scientific Meeting on Mahidol's Day, Chiang Mai, Thailand.</i>
2002	<i>Investigator Award (Basic Sciences, Third prize), the 26<sup>th</sup> Annual Scientific Meeting on Mahidol's Day, Chiang Mai, Thailand.</i>
1998-2000	<i>The Overseas Research Students Awards (ORS Awards) from the Committee of Vice-Chancellors and Principals of the Universities of the United Kingdom</i>
1997-2000	<i>The Royal Thai Government Scholarship, Bangkok, Thailand</i>

## PROFESSIONAL ACTIVITIES

Critical Reviewer of Manuscripts for:

2022	Aging
2022-Present	J Agri Food Chem
2022	Free Radic Biol Med
2022	Life Sciences
2022	Pharmaceuticals
2022	Histochemistry and Cell Biology
2022-Present	Biomolecules
2022	Bioengineered
2021-Present	Food and Function
2021-Present	Oxidative Medicine and Cellular Longevity
2021	BBA-Molecular Basis of Disease
2021	Biometals
2020	Journal of Hazardous Materials
2020	Journal of Biochemical and Molecular Toxicology
2020	Histology and Histopathology
2019	Annals of Transplantation
2019-Present	Current Drug Target
2018-Present	Medical Science Monitor-Basic Research
2018	Journal of Pineal Research
2018-Present	Naunyn Schmiedebergs Archive of Pharmacology
2018	Clinical Nutrition Experimental
2018	Drug Delivery
2018	Toxin Reviews
2017	Huachiew Chalermprakiet Journal
2016	Burapa Science Journal
2016	Journal of Advances in Medical and Pharmaceutical Sciences
2016-Present	Scientific Reports
2016	Journal of Basic and Clinical Physiology and Pharmacology

2016	Food & Function
2016-Present	American Journal of Case Reports
2016	Asian Journal of Urology
2015	Mini-Reviews in Medicinal Chemistry
2015	Journal of Traditional and Complementary Medicine
2015	Cardiology and Angiology: An International Journal
2015	Journal of Laboratory Medicine
2014	Journal of Physiology and Pathophysiology
2014-Present	British Journal of Pharmaceutical Research
2014	International Journal of Biochemistry Research & Review
2013	Current Medicinal Chemistry
2013-Present	Srinakarin Medical Journal
2013	Histology Histopathology
2012	African Journal of Pharmacy and Pharmacology
2012	Journal of Molecular Histology
2012-2014	Biochemistry and Biotechnology Research
2011	Srinakarin Medical Journal
2011-Present	Food and Chemical Toxicology
2009-2011	International Journal of Medicine and Medical Sciences
2008-2010	Journal of Physiological and Biomedical Sciences
2008-2011	International Journal of Biomedical Science
2008	The American Journal of Case Report
2007-Present	Medical Science Monitor
2006-2011	Evidence Based Complementary and Alternative Medicine
2006-2007	Cell Biology International
2000-2003	Chiang Mai Medical Bulletin

## **PRESENTATIONS AT INTERNATIONAL MEETINGS**

July 2021	The 48 <sup>th</sup> Annual Scientific Meeting of the Physiological Society of Thailand, Bangkok, Thailand (Virtual meeting)
June 2021	International Conference and Exhibition on Pharmaceutical Sciences and Technology, Bangkok, Thailand (Virtual meeting)
October 2020	46 <sup>th</sup> International Congress on Science, Technology and Technology-Base Innovation (STT46), Bangkok, Thailand
March 2019	9 <sup>th</sup> Federation of the Asian and Oceanian Physiological Societies (FAOPS) Congress, Kobe, Japan (2 abstracts)
May 2018	9 <sup>th</sup> International Graduate Research Conference, Chiang Mai, Thailand
January 2018	1 <sup>st</sup> International Conference on Innovation of Functional Foods in Asia, Phayao, Thailand (3 abstracts)
February 2017	6 <sup>th</sup> International Graduate Research Conference, Chiang Mai, Thailand (2 abstracts)
July, 2014	The Burapa University International Conference, Pattaya, Thailand (3 abstracts)
July, 2013	The Burapa University International Conference, Pattaya, Thailand (2 abstracts)

June, 2013	8 <sup>th</sup> Asia Pacific Conference on Clinical Nutrition, Tokyo, Japan (2 abstracts)
July 2000	University of Cambridge Scientific Meeting, The British Physiological Society, Cambridge, United Kingdom
December 1999	University of Birmingham Scientific Meeting, The British Physiological Society, Birmingham, United Kingdom
March 1999	University of Manchester Scientific Meeting, The British Physiological Society, Manchester, United Kingdom
April 1999	3 <sup>rd</sup> Baltic Meeting on Nephrology, The Lithuanian Academy of Sciences, Vilnius, Poland
May 1992	9 <sup>th</sup> Asian Colloquium in Nephrology, The Asian Pacific Congress of Nephrology, Seoul, Korea

### **PRESENTATIONS AT NATIONAL MEETINGS**

March 2018	“The 19 <sup>th</sup> National Graduate Research Conference”, Khon Kaen, Thailand
December 2016	“The 44 <sup>th</sup> Annual Scientific Meeting of The Physiology Society of Thailand”, Chiang Mai, Thailand (3 abstracts)
November 2012	“The 3 <sup>rd</sup> CMU Graduate Research Conference”, Chiang Mai, Thailand
May 2012	“The 41 <sup>st</sup> Annual Scientific Meeting of The Physiology Society of Thailand”, Bangkok, Thailand
May 2011	“The 21 <sup>st</sup> National Graduate Research Conference”, Bangkok, Thailand
May 2010	“The 39 <sup>th</sup> Annual Scientific Meeting of The Physiology Society of Thailand”, Pattaya, Thailand (2 abstracts)
December 2008	“The 4 <sup>th</sup> Chiang Mai University Academic Days”, Chiang Mai University, Chiang Mai, Thailand
September 2006	“The 30 <sup>th</sup> Annual Scientific Meeting on Mahidol’s Day”, Faculty of Medicine, Chiang Mai, Thailand
September 2005	“The 29 <sup>th</sup> Annual Scientific Meeting on Mahidol’s Day”, Faculty of Medicine, Chiang Mai, Thailand
August 2005	“The Annual Scientific Meeting of The Nephrology Society of Thailand”, Bangkok, Thailand
September 2004	“The 28 <sup>th</sup> Annual Scientific Meeting on Mahidol’s Day”, Faculty of Medicine, Chiang Mai, Thailand
August 2004	“The 4 <sup>th</sup> National Symposium on Graduate Research”, Chiang Mai, Thailand
May 2004	“The 33 <sup>th</sup> Annual Scientific Meeting of The Physiology Society of Thailand”, Rayong, Thailand
September 2003	“The 27 <sup>th</sup> Annual Scientific Meeting on Mahidol’s Day, Faculty of Medicine”, Chiang Mai, Thailand
April 2003	“The 26 <sup>th</sup> Annual Meeting of Anatomy Society, The Society of Anatomy of Thailand”, Rayong, Thailand
October 2002	“The 20 <sup>th</sup> Annual Health Sciences Meeting, Research Institute for Health Sciences”, Chiang Mai, Thailand
September 2002	“The 26 <sup>th</sup> Annual Scientific Meeting on Mahidol’s Day, Faculty of Medicine”, Chiang Mai, Thailand

- August 2001            “The 19<sup>th</sup> Annual Health Sciences Meeting, Research Institute for Health Sciences”, Chiang Mai, Thailand
- September 2001       “The 25<sup>th</sup> Annual Scientific Meeting on Mahidol’s Day, Faculty of Medicine”, Chiang Mai, Thailand

## ACADEMIC ACTIVITIES

### Graduate Student’s Dissertation Committees

1. THIRI WAI LINN, M.Sc., Member of the Doctoral Degree Committee  
Topic: Investigation of the Anti-hyperglycemic Effect of *Carissa corondas* Linn. Ripe Fruit Extract and Its Underlying Mechanisms in Experimental Type 2 Diabetes Mellitus Rats (Physiology)
2. PARICHAT TOJING, M.Sc., Member of the Doctoral Degree Committee  
Topic: Evaluating the Effects of Probiotic *Lactobacillus paracasei* HII01 on Modulating Gut Microbes and Antidiabetic Effects in Type 2 Diabetes Mellitus (Physiology)
3. WACHIRASEK PEERAPANYASUT D.V.M., Chair of the Doctoral Degree Committee  
Topic: Protective Effect of N-acetylcysteine on Renal Outcomes Following Renal Ischemia and Reperfusion in Bisphenol A-Exposed Wistar Rats (Physiology)
4. JANNARONG INTAKHAD, B.Sc., Member of the Master Degree Committee  
Topic: Protective Effects of Purple Rice Husk Extract on Oxidative Stress-Induced Pancreatic Injury in Hyperglycemic Wistar Rats (Physiology)
5. ANONGPORN KOBROOB, M.Sc., Chair of the Doctoral Degree Committee  
Topic: Effects of Bisphenol A on the Kidney and the Protection by Melatonin in Wistar Rats (Physiology)
6. PARICHAT TOEJING, B.Sc., Member of the Master Degree Committee  
Topic: Effect of Purple Rice Hull Extract on Hepatic Gluconeogenesis in Experimental Diabetic Rats (Physiology)
7. LEURAT SUPARAT, B.Sc., Member of the Master Degree Committee  
Topic: The Effects of Garlic Extract on Cardiac Function in Long-Term High-Fat Diet Consumption Induced Insulin Resistant Rats (Physiology)
8. WARUT POONTAWEE, M.Sc., Member of the Doctoral Degree Committee  
Topic: In Vitro and In Vivo Antioxidative Potential of Extracts from Proanthocyanidin Rich Fruits (Pharmacy)
9. WACHIRASEK PEERAPANYASUT, D.V.M., Chair of the Master Degree Committee  
Topic: Effects of Ubiquinol on Renal Ischemia and Reperfusion injury in rats (Physiology)
10. ANONGPORN KOBROOB, B.Sc., Chair of the Master Degree Committee  
Topic: Effects of Caffeic Acid Phenethyl Ester on Structure and Function of Isolated Rat Kidney Mitochondria Following Cadmium Exposure (Physiology)

### Mentor for New Scholar

- Feb 2022-Feb 2024    Recipients of Research Grant for New Scholar, Mahidol University (Wachirasek Peerapanyasut, PhD)
- Jan 2022-Jan 2024    Recipients of Research Grant for New Scholar (MRG64), Thailand Research Fund (Anongporn Kobroob, PhD)

- Jan 2021-Dec 2022 Recipients of Research Grant for New Scholar, Phayao University (Anongporn Kobroob, PhD)
- Aug 2019-Aug 2020 Recipients of Research Grant for New Scholar (MRG62), Thailand Research Fund (Anongporn Kobroob, PhD)

### **Special Academic Appointments**

- 2017-Present Vice-President of Institutional Animal Care and Use Committee (IACUC), Chiang Mai University, Chiang Mai, Thailand
- 2016-Present Animal Care and Use Committee, Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand
- 2015-Present Committee of the Faculty of Medicine Endowment Fund for Research, Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand
- 2000-Present Graduate School Faculty, Chiang Mai University, Chiang Mai, Thailand

### **PRESENT RESEARCH GRANT SUPPORT**

- 10-2022-09-2023 Fundamental Fund 66 (Co PI), Phayao University. “Effect of Melatonin on Remote Organ Injury following Acute Kidney Injury in D-galactose-induced Aging Rats”.
- 04/2022-04/2024 The Faculty of Medicine Endowment Fund for Research, Faculty of Medicine, Chiang Mai University (PI). “Effect of Doxorubicin Chemotherapy and Mitochondrial Fission Inhibitor on Kidney Function in D-galactose-induced Aging Female Rats”.
- 02/2022-02/2024 Research Grant for New Scholar, Mahidol University (Co PI & Mentor). “Protective Effect of Vagus Nerve Stimulation against Acute Kidney Injury through Mitochondrial Protection”.
- 01/2022-01/2024 Research Grant for New Scholar, Thailand Research Fund (Co PI & Mentor). “The Role of Melatonin on Renal Ischemia and Reperfusion Injury in D-Galactose-Induced Aging Rats”.
- 02/2021-02/2023 The Faculty of Medicine Endowment Fund for Research, Faculty of Medicine, Chiang Mai University (PI). “Effects of N-acetylcysteine in the Treatment of Renal Impairment Caused by Prolonged Exposure to Bisphenol A in Rats Fed a High-Fat Diet”.
- 01/2021-01/2023 The Faculty of Medicine Endowment Fund for Research, Faculty of Medicine, Chiang Mai University (Co PI). “Investigation of the Anti-hyperglycemic Effect of Carissa carandas Linn. Ripe Fruit Extract and its Underlying Mechanisms in Experimental Type 2 Diabetes Mellitus Rats”.

### **PREVIOUS GRANT SUPPORT**

- 2021-2022 Research Grant for New Scholar, Phayao University (Co PI & Mentor). “Efficacy of catechin in preventing kidney mitochondrial damage caused by bisphenol A: A study in kidney mitochondria isolated from Wistar rats”.

- 03/2019-03/2021 Research Grant for New Scholar (MRG), Thailand Research Fund (Co PI & Mentor). “Protective and therapeutic potentials of melatonin against renal ischemia and reperfusion injury in high fat diet-induced obesity”.
- 11/2018-11/2020 The Faculty of Medicine Endowment Fund for Research, Faculty of Medicine, Chiang Mai University (PI). “Therapeutic Efficacy of N-acetylcysteine on Renal Deterioration Caused by Long Term Bisphenol A Exposure in Wistar Rats”.
- 06/2018-06/2020 The Faculty of Medicine Endowment Fund for Research, Faculty of Medicine, Chiang Mai University (PI). “Protective Effect of N-acetylcysteine on Liver as a Remote Organ Injury Following Renal Ischemia and Reperfusion in Bisphenol A-Exposed Wistar Rats”.
- 05/2018-05/2020 The Faculty of Medicine Endowment Fund for Research, Faculty of Medicine, Chiang Mai University (PI). “Protective Effect of N-acetylcysteine on Renal Ischemia and Reperfusion Injury in Bisphenol A-Exposed Wistar Rats”.
- 10/2017-12/2018 National Research Council of Thailand (PI) “Protective potential of purple rice hull extracts against renal deterioration in type 2 diabetic rats”.
- 10/2017-10/2018 The Faculty of Medicine Endowment Fund for Research, Faculty of Medicine, Chiang Mai University (PI). “Effects of bisphenol A on the kidney and the protection by melatonin in Wistar rats”.
- 05/2017-03/2018 The Faculty of Medicine Endowment Fund for Research (Preliminary grant), Faculty of Medicine, Chiang Mai University (PI). “Preliminary studies on the impacts of renal ischemia and reperfusion on kidney and liver functions in rats contaminated with bisphenol A”.
- 12/2016-02/2018 The Faculty of Medicine Endowment Fund for Research, Faculty of Medicine, Chiang Mai University (PI). “Evaluating the renoprotective potential of melatonin in rats chronically exposed to bisphenol A”.
- 08/2016-02/2018 The Faculty of Medicine Endowment Fund for Research, Faculty of Medicine, Chiang Mai University (PI). “Effects of bisphenol A on the kidney mitochondria and the possible protection by melatonin”.
- 05/2016-05/2017 The Faculty of Medicine Endowment Fund for Research (Preliminary grant), Faculty of Medicine, Chiang Mai University (PI). “A preliminary study to the effects of bisphenol A in the kidney”.
- 02/2014-03/2016 The Faculty of Medicine Endowment Fund for Research, Faculty of Medicine, Chiang Mai University (PI). “Effect of catechin on cadmium nephrotoxicity in Wistar rats”.
- 03/2015-04/2016 National Research University Project-Chiang Mai University (Co-PI). “Antihyperglycemic and antioxidant potentials of purple rice hull extract in type 2 diabetic rats”.
- 07/2015-08/2016 The Faculty of Medicine Endowment Fund for Research, Faculty of Medicine, Chiang Mai University (Co-PI). “Evaluating the possible impacts of long-term supplementation of fish oil enriched monounsaturated fatty acids on antihyperglycemic and antihyperlipidemic efficacy of metformin in type II diabetic rats”.

03/2013-03/2014	The Faculty of Medicine Endowment Fund for Research, Faculty of Medicine, Chiang Mai University (PI). “Effect of ubiquinol on renal ischemia and reperfusion injury”.
2011-2013	The Faculty of Medicine Endowment Fund for Research, Faculty of Medicine, Chiang Mai University (PI). “Effect of caffeic acid phenethyl ester on cadmium-induced mitochondrial oxidative stress in isolated rat kidney mitochondria”.
2010-2012	The Faculty of Medicine Endowment Fund for Research, Faculty of Medicine, Chiang Mai University (PI). “Effect of alpha-lipoic acid on renal oxidative stress and histopathological alterations in rats with obstructive nephropathy”.
2011-2012	The Faculty of Medicine Endowment Fund for Research, Faculty of Medicine, Chiang Mai University (PI). “Effect of caffeic acid phenethyl ester on structure and function of isolated rat kidney mitochondria following cadmium exposure”.
2008-2010	The Faculty of Medicine Endowment Fund for Research, Faculty of Medicine, Chiang Mai University (PI). “Effect of caffeic acid phenethyl ester on cyclosporin nephrotoxicity in rats”.
2007-2009	The Faculty of Medicine Endowment Fund for Research, Faculty of Medicine, Chiang Mai University (Co-PI). “Effect of caffeic acid phenethyl ester on scopolamine-induced learning and memory impairment in rat”.
2005-2007	The Faculty of Medicine Endowment Fund for Research, Faculty of Medicine, Chiang Mai University (PI). “Effects of Allium ascalonicum on cyclosporin nephrotoxicity in rats”.
2004-2005	The Professor Nath Bhamornpravat Research Fund for Medical Science, Chiang Mai University (PI). “Effect of aged garlic extract on renal dysfunction induced by cyclosporine in rats”.
2003-2005	China Medical Board, Chiang Mai University (Co-PI). “Impact of dietary fat proportion on the energy metabolism in trained rat”.
2002-2005	China Medical Board, Chiang Mai University (PI). “Effects of trolox on renal ischemia-reperfusion injury in rats”.
2000-2002	Institute for Science and Technology Research and Development (Co-PI). “Research and development of natural products for blood glucose lowering effect”.
1997-2000	The National Research Council of Thailand (Co-PI). “Possible beneficial effect of ethanol on the development of ventricular fibrillation in hypothermia”.

## PEER REVIEWED ARTICLES

1. Wai Linn T, Kobroob A, Ngernjan M, Amornlerdpison D, Lailerd N, **Wongmekiat O**. Crocodile Oil Disrupts Mitochondrial Homeostasis and Exacerbates Diabetic Kidney Injury in Spontaneously Diabetic Torii Rats. *Biomolecules* 2022, 12(8), 1068; doi: 10.3390/biom12081068. (IF 6.064, Q2)



2. **Wongmekiat O**, Lailerd N, Kobroob A, Peerapanyasut W. Protective Effects of Purple Rice Husk against Diabetic Nephropathy by Modulating PGC-1 $\alpha$ /SIRT3/SOD2 Signaling and Maintaining Mitochondrial Redox Equilibrium in Rats. *Biomolecules* 2021 Aug 17;11(8):1224. doi: 10.3390/biom11081224. (IF 4.879, Q2)
3. Kobroob A, Peerapanyasut W, Kumfu S, Chattipakorn N, **Wongmekiat O**. Effectiveness of N-Acetylcysteine in the Treatment of Renal Deterioration Caused by Long-Term Exposure to Bisphenol A. *Biomolecules* 2021 Apr 29;11(5):655. doi: 10.3390/biom11050655. (IF 4.879, Q2)
4. Peerapanyasut W, Kobroob A, Palee S, Chattipakorn N, **Wongmekiat O**. Bisphenol A aggravates renal ischemia-reperfusion injury by disrupting mitochondrial homeostasis and N-acetylcysteine mitigates the injurious outcomes. *IUBMB Life* 2020;72(4):758-770. (IF 3.244, Q2)
5. Peerapanyasut W, Kobroob A, Palee S, Chattipakorn N, **Wongmekiat O**. N-acetylcysteine attenuates the increasing severity of distant organ liver dysfunction after acute kidney injury in rats exposed to bisphenol A. *Antioxidants (Basel)* 2019;8(10):497. (IF 5.014, Q1)
6. Peerapanyasut W, Kobroob A, Palee S, Chattipakorn N, **Wongmekiat O**. Activation of sirtuin 3 and maintenance of mitochondrial integrity by N-acetylcysteine protects against bisphenol A-induced kidney and liver toxicity in rats. *Int J Mol Sci* 2019;20(2):267. (IF 4.556, Q1)
7. Kobroob A, Peerapanyasut W, Chattipakorn N, **Wongmekiat O**. Damaging effects of bisphenol A on the kidney and the protection by melatonin: Emerging evidences from *in vivo* and *in vitro* studies. *Oxid Med and Cell Longev* 2018;2018:3082438. (IF 5.076, Q1)
8. **Wongmekiat O**, Peerapanyasut W, Kobroob A. Catechin supplementation prevents kidney damage in rats repeatedly exposed to cadmium through mitochondrial protection. *Naunyn Schmiedebergs Arch Pharmacol* 2018;391(4):385-394. (IF2.080, Q2)
9. Poontawee W, Natakankitkul S, **Wongmekiat O**. Protective effect of *Cleistocalyx nervosum* var. paniala fruit extract against oxidative renal damage caused by cadmium. *Molecules* 2016;21(2):pii: E133 (IF 3.267, Q1)
10. Poontawee W, Natakankitkul S, **Wongmekiat O**. Enhancing phenolic contents and antioxidant potentials of *Antidesma thwaitesianum* by supercritical carbon dioxide extraction. *J Anal Methods Chem* 2015; Article ID 956298, (IF 1.878, Q2)
11. Peerapanyasut W, Thamprasert K, **Wongmekiat O**. Ubiquinol supplementation protects against renal ischemia and reperfusion injury in rats. *Free Radic Res* 2014; 48(2):180-9. (IF 2.839, Q2)
12. **Wongmekiat O**, Leelarugrayub N, Thamprasert K. Alpha-lipoic acid attenuates renal injury in rats with obstructive nephropathy. *Biomed Res Int* 2013; Article ID 138719. (IF 2.276, Q2)
13. Kobroob A, Chattipakorn N, **Wongmekiat O**. Caffeic acid phenethyl ester ameliorates cadmium-induced kidney mitochondrial injury. *Chem Biol Interact* 2012; 200:21-27. (IF 3.723, Q1)
14. **Wongmekiat O**, Gomonchareonsiri S, Thamprasert K. Caffeic acid phenethyl ester protects against oxidative stress-related renal dysfunction in rats treated with cyclosporin A. *Fundam Clin Pharmacol* 2011;25:619-626. (IF 2.754, Q2)

15. **Wongmekiat O**, Leelarugrayub N, Thamprasert K. Beneficial effect of shallot (*Allium ascalonicum L.*) extract on cyclosporine nephrotoxicity in rats. *Food Chem Toxicol* 2008;46:1844-1850. (IF 4.679, Q1)
16. **Wongmekiat O**, Thamprasert K, Lumlertgul D. Renoprotective effect of trolox against ischaemia-reperfusion injury in rats. *Clin Exp Pharmacol Physiol* 2007;34:753-759. (IF 2.456, Q2)
17. **Wongmekiat O**, Thamprasert K. Investigating the protective effects of aged garlic extract on cyclosporin-induced nephrotoxicity in rats. *Fundam Clin Pharmacol* 2005;19:555-562. (IF 2.754, Q2)
18. **Wongmekiat O**, Johns EJ. Differential roles of endothelin on the volume homeostasis in type I and type II diabetic rat model. *Chiang Mai Med Bull* 2003; 42(4): 149-59.
19. **Wongmekiat O**, Johns EJ. Significance of endothelin on volume homeostasis in obese Zucker rats. *Clin Exp Pharmacol Physiol* 2003;30(9):702-8. (IF 2.456, Q2)
20. Pongchaidecha A, **Wongmekiat O**, Apisariyakul A. Effect of *Coccinia grandis* on glycemic control in streptozotocin-diabetic rats. *TJPEN* 2003;14(1):18-23.
21. **Wongmekiat O**, Johns EJ. Endothelin as a causative factor of blunted volume reflex in diabetic rats. *Br J Pharmacol* 2003;138:1403-1410. (IF 7.730, Q1)
22. **Wongmekiat O**. Roles of endothelins in the normal kidney. *JNST* 2002;8(1):1-10.
23. **Wongmekiat O**, Johns EJ. Role of endogenous endothelin on the volume regulation mechanisms in anesthetized Wistar rats. *Thai J Physiol Sci* 2001;14(1):17-32.
24. **Wongmekiat O**, Pongchaidecha A, Saenphet S. Impacts of ethanol on the development of ventricular fibrillation in hypothermia. *Chiang Mai Med Bull* 2001; 40(3):119-126.
25. **Wongmekiat O**, Johns EJ. Interactions between nitric oxide and renal nerves in the excretion of a saline load in obese Zucker rats. *Clin Sci* 2001;101:275-283. (IF 5.223, Q1)
26. **Wongmekiat O**, Johns EJ. Contribution of endothelial nitric oxide synthase in the blunted renal responses to volume expansion in diabetic rats. *Experimental Physiol* 2001;86.4:481-488. (IF 2.431, Q2)
27. **Wongmekiat O**, Johns EJ. Role of nitric oxide and renal nerves in the renal responses to acute volume expansion in anaesthetized rats. *Experimental Physiol* 2001;86.1:47-54. (IF 2.431, Q2)
28. **Wongmekiat O**. Physiologic significance of nitric oxide to the kidney function. *Chiang Mai Med Bull* 2001;40(4):205-215.
29. **Wongmekiat O**. Insights into mechanisms of obesity-induced hypertension. *Chiang Mai Med Bull* 2000;40(1):43-51.
30. Johns EJ, **Wongmekiat O**. Renal responses to volume expansion in diabetic rats : role of nitric oxide. *Acta Medica Lituanica* 2000;suppl 4:39-42.
31. Lumlertgul D, Krairhittichai U, **Wongmekiat O**, Ekmahachai N, Keoplung M, Thamprasert K. Fatal wasp sting. *Intern Med* 1991;7:24-28.
32. Lumlertgul D, **Wongmekiat O**, Sirivanichai C, Hutdagoon P, Keoplung M, , Conger JD, Schrier RW. Intrarenal infusion of gallopamil in acute renal failure. *Drugs* 1991;42(suppl 1):44-50. (IF 6.189, Q1)
33. Lumlertgul D, Hutdagoon P, Sirivanichai C, Keoplung M, **Wongmekiat O**, Nitsin S, Sangchun G. Beneficial effect of intrarenal verapamil in human acute renal failure. *Renal Failure* 1990;11(4):201-208. (IF 1.985, Q2)

**PEER REVIEWED ABSTRACTS**

1. Kobroob A, **Wongmekiat O**. Therapeutic effects of melatonin against acute kidney injury in obesity. The 48th Annual Scientific Meeting of the Physiological Society of Thailand, Bangkok, Thailand, July 2021.
2. Linn WT, Lailerd M, Toejing P, Bonnes AI, **Wongmekiat O**, Lailerd N. Carissa Calandas fruit extract exerts anti-diabetic potential through attenuation of the hepatic and skeletal muscle insulin resistance. International Conference and Exhibition on Pharmaceutical Sciences and Technology, Bangkok, Thailand, June 2021.
3. Linn WT, Ngerjnan M, Toejing P, Kobroob A, Amornlerdpison D, **Wongmekiat O**, Lailerd N. Preliminary study on anti-hyperglycemic effect of crocodile oil in spontaneously diabetic torii rats. 46<sup>th</sup> International Congress on Science, Technology and Technology-Base Innovation (STT46), Bangkok, Thailand, October 2020.
4. Kobroob A, Peerapanyasut W, Kumfu S, Chattapakorn N, **Wongmekiat O**. Melatonin activates sirtuin 3 to protect the kidney from long-term consequences of bisphenol A. 9<sup>th</sup> Federation of the Asian and Oceanian Physiological Societies (FAOPS) Congress, Kobe, Japan, March 2019.
5. **Wongmekiat O**, Lailerd N, Kobroob A, Peerapanyasut W. Purple rice husk extract preserves mitochondrial integrity and reduces diabetic kidney injury. 9<sup>th</sup> Federation of the Asian and Oceanian Physiological Societies (FAOPS) Congress, Kobe, Japan, March 2019.
6. Peerapanyasut W, Kobroob A, Chattapakorn N, **Wongmekiat O**. N-acetylcysteine ameliorates renal injury following ischemia and reperfusion in bisphenol A-contaminated rats. 9<sup>th</sup> International Graduate Research Conference, Chiang Mai, Thailand. May 2018.
7. Kobroob A, Peerapanyasut W, Chattapakorn N, **Wongmekiat O**. Melatonin prevents renal toxicity caused by long-term bisphenol A exposure. 1<sup>st</sup> International Conference on Innovation of Functional Foods in Asia, Phayao, Thailand. January 2018. PP-27.
8. Peerapanyasut W, Kobroob A, Chattapakorn N, **Wongmekiat O**. Aggravation of ischemic acute kidney injury by bisphenol A. 1<sup>st</sup> International Conference on Innovation of Functional Foods in Asia, Phayao, Thailand. January 2018. PP-36.
9. **Wongmekiat O**, Lailerd N, Kobroob A, Peerapanyasut W. Protective potential of purple rice husk extracts against diabetic nephropathy. 1<sup>st</sup> International Conference on Innovation of Functional Foods in Asia, Phayao, Thailand. January 2018. PP-44.
10. Intakhad J, Toejing P, Keapai W, Wongpoomchai R, **Wongmekiat O**, Lailerd N. Purple rice husk extract ameliorates oxidative stress in pancreatic tissue of type 2 diabetic rats. Proceedings of the 6<sup>th</sup> International Graduate Research Conference, Chiang Mai, Thailand. February 2017.
11. Kobroob A, Chattapakorn N, **Wongmekiat O**. A detrimental impact of bisphenol A on the kidney. Proceedings of the 6<sup>th</sup> International Graduate Research Conference, Chiang Mai, Thailand. February 2017.
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## **RESEARCH FIELDS OF INTEREST**

1. Kidney function in health, aging, and diseases
2. Oxidative stress and mitochondria
3. Herb and natural products
4. Food and chemical toxicology