

Curriculum Vitae

CHUTIMA S. VADDHANAPHUTI, Ph.D.



Office Address: Department of Physiology, Faculty of Medicine
Chiang Mai University
110 Intravaroros Road
Sriphum District, Muang, Chiang Mai 50200
Thailand
Phone : 66-53-935-362-4 # 121
Fax : 66-53-935-365
E-mail : chutima.srimaroeng@cmu.ac.th , cs.physiol@gmail.com

Marital Status Married

EDUCATION

1994-1997 B.Sc. (Physical Therapy), Faculty of Medical Sciences, Khonkaen University, Thailand
1999-2004 Ph.D. (Physiology), Department of Physiology, Mahidol University, Bangkok, Thailand

PROFESSIONAL APPOINTMENT

1997–1999 Physical Therapist at St.Mary Hospital, Nakhonratchasima, Thailand
2008-Present Instructor, Department of Physiology, School of Medicine, Chiang Mai University, Chiang Mai, Thailand

HONORS AND AWARDS

1997 Second degree Honor in B.Sc (Physical Therapy)
2001 – 2004 Royal Golden Jubilee Ph.D. Program from the Thailand Research Fund (RGJ-Ph.D., Grant no. PHD/0044/2544)
2002 – 2003 Basic Research Grant for RGJ grant holder from the Thailand

	Research Fund (Grant no. BGJ4580017)
2002-2003	Pre-doctoral visiting fellowship from NIEHS/NIH, North Carolina, USA
2005-2008	Post-doctoral visiting fellowship from NIEHS/NIH, North Carolina, USA
April 2011	Travel grant award to the 4 th Asian Pacific Regional International Society for the Study of Xenobiotics (ISSX) 2011, Tainan, Taiwan
May 2014	Travel grant award to the 14 th Asian Pacific Congress of Nephrology (APCN) 2014, Shinagawa, Japan
October 2014	Researcher award by the Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand
January 2015	Researcher award by the Graduate studies, Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand
May 2016	Special award to the 8 th European Exhibition of Creativity and Innovation, EUROINVENT@2016, Iasi, Romania
May 2016	“Lucian Blaga” University of Sibiu, Romania award to the 8 th European Exhibition of Creativity and Innovation, EUROINVENT@2016, Iasi, Romania
May 2016	Gold medal award to the 8 th European Exhibition of Creativity and Innovation, EUROINVENT@2016, Iasi, Romania
December 2017	Special award to the 2017 Hong Kong International Invention Design Competition, Hong Kong
December 2017	Gold Medal award to the 2017 Hong Kong International Invention Design Competition, Hong Kong
December 2017	FIRI award for the best invention to the 2017 Hong Kong International Invention Design Competition, Hong Kong
October 2018	Researcher award by the Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand
November 2022	Contribution Award to the 6 th Korea Digestive Disease Week (KDDW) 2022, Incheon, Korea
May 2023	Gold award to the SAFE Innovation 2023, SAFE-Network & Maejo University Product Innovation Competition, Chiang Mai, Thailand
October 2023	Researcher award by the Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand

ORGANIZATION AND PARTICIPATION

2009-Present	Thai Physiology Society
2009-Present	International Society for the Study of Xenobiotics (ISSX)
2009-Present	Advance Science Serving Society (AAAS)
2014-Present	The Asian Pacific Society of Nephrology (APSN)
2018-Present	American Physiology Society (APS)

PROFESSIONAL ACTIVITIES

2013	Critical Reviewer of Manuscripts for ScienceAsia
2014	Special Seminar Speaker at the Department of Pharmacology and Toxicology Dokkyo Medical University, School of Medicine, Tochigi, Japan

2015	Critical Reviewer of Manuscripts for Canadian Journal of Physiology and Pharmacology
2015	Critical Reviewer of Manuscripts for Journal of Food Science
2016	Critical Reviewer of Proceedings for Walailak Research National Conference
2016	Critical Reviewer of Proceedings for Naresuan Research National Conference
2018	Critical Reviewer of Manuscripts for Journal of Pathology, Microbiology and Immunology
2018	Critical Reviewer of Manuscripts for International Journal of Pharmaceutics
2019	Critical Reviewer of Manuscripts for Informatics in Medicine Unlocked
2019-2023	Critical Reviewer of Manuscripts for Journal of Functional Foods
2019	Critical Reviewer of Manuscripts for Phytomedicine
2020	Critical Reviewer of Manuscripts for Biomed Research International
2020-2021	Critical Reviewer of Manuscripts for Drug Design Development and Therapy
2020-2023	Critical Reviewer of Manuscripts for Ecotoxicology and Environmental Safety
2021	Critical Reviewer of Manuscripts for All Life
2021	Critical Reviewer of Manuscripts for Applied Physiology, Nutrition, and Metal
2021	Critical Reviewer of Manuscripts for Biomedical and Environmental Sciences
2022-2023	Critical Reviewer of Manuscripts for The Journal of Nutritional and Biochemistry
2022	Critical Reviewer of Manuscripts for Archives of Physiology & Biochemistry
2022	Critical Reviewer of Manuscripts for Pharmaceutical Biology
2022-2023	Critical Reviewer of Manuscripts for Journal of Medicinal Food
2023	Critical Reviewer of Manuscripts for Food and Function
2023	Critical Reviewer of Manuscripts for Gastroenterology Report
2023-2024	Critical Reviewer of Manuscripts for Tissue and Cell

PRESENTATIONS AT INTERNATIONAL MEETINGS

August 2003	The 9th Southeast Asian-Western Pacific Regional Meeting of Pharmacologist, Busan, Korea
December 2003	The American Society For Cell Biology 43 rd Annual Meeting, San Francisco, California, USA
November 2006	The 4th Annual NIEHS Science Awards, Durham, North Carolina, USA
March 2007	Drug Metabolism Discussion Group Winter Symposium, Research Triangle Park, North Carolina, USA
April 2007	Federation of American Societies for Experimental Biology, Washington DC, USA
May 2009	The 3 rd Asian Pacific Regional International Society for the Study of Xenobiotics (ISSX) Meeting, Bangkok, Thailand
April 2011	The 4 th Asian Pacific Regional International Society for the Study of Xenobiotics (ISSX), Tainan, Taiwan
December 2011	The 4 th International Fisheries Conference, Chiang Mai, Thailand
July 2012	The 8 th Asia-Pacific Conference on Algal Biotechnology, Adelaide, Australia
August 2013	International conference on interdisciplinary research and development in ASEAN universities, Chiang Mai, Thailand

September 2013	5 th BBBB International Conference: From Drug Discovery and Formulation Strategies To Pharmacokinetics-Pharmacodynamics, Athens, Greece
May 2014	14 th Asian Pacific Congress of Nephrology (APCN) 2014, Shinagawa, Japan
June 2015	The 13 th European Regional International Society for the Study of Xenobiotics (ISSX), Glasgow, Scotland
January 2017	The First International Conference on Innovation of Functional Foods in Asia (IFFA 2018).
April 2018	Federation of American Societies for Experimental Biology, San Diego, USA

PRESENTATIONS AT NATIONAL MEETINGS

April 2002	RGJ - Ph.D. Congress III, Chonburi, Thailand
November 2009	Quest for Excellence meeting, Chiang Mai, Thailand
January 2013	The 2 nd Phayao Research Conference, Phayao, Thailand
January 2017	The 16 th TRF meeting, Phetchaburi, Thailand
January 2018	The 17 th TRF meeting, Phetchaburi, Thailand
November 2022	Brainpower Congress 2022, Bangkok, Thailand

ACADEMIC ACTIVITIES

Graduate Student's Dissertation Committees

1. Atcharaporn Ontawong, Major advisor and Member of the Master Degree Committee
Topic: Effect of *Spirogyra neglecta* extract on renal organic anion transporter 1 and 3 function in type 2 diabetic rats (Physiology)
2. Phatchawan Arjinajarn, Co-advisor and Member of the Doctoral Degree Committee
Topic: Effect of Insulin on Renal Organic Anion Transporter 3 Function and Expression in Streptozotocin-induced Diabetic Rats (Physiology)
3. Teerawat Rattanapot, Co-advisor and Member of the Master Degree Committee
Topic: Effect of *spirogyra* sp. Supplement on growth and oxidative defense in tilapia (*oreochromis niloticus*) cage culture (Fisheries technology)
4. Metas Ngernjan, Co-advisor and Member of the Master Degree Committee
Topic: Effect of dietary supplementation with *Cladophora* spp. on growth and oxidative defense in hybrid catfish (Fisheries technology)
5. Sittikorn Yoojam, Co-advisor and Member of the Master Degree Committee
Topic: Effect of crude oil supplement on growth, content of omega 3 fatty acid in fillet and oxidative defense of Buk Siam Catfish (Fisheries technology)
6. Chaliya Jaiyen, Major advisor and Member of the Master Degree Committee
Topic: Interaction of green tea catechins with organic cation transporter protein type 2 in kidney (Physiology)
7. Metee Jinagote, Major advisor and Member of the Master Degree Committee
Topic: Characterization of Organic Cation Transporter 1 in Human Hepatocellular Carcinoma Cells Using Fluorescence 4-(4-(dimethylamino)styryl)-*N*-methylpyridinium (Physiology)
8. Oranit Boonphang, Major advisor and Member of the Master Degree Committee
Topic: Antioxidant Effect of Coffee Pulp Extract on Renal Tubule Organic Ion Transport in Experimental Diabetic Rats (Physiology)

9. Jutatip Kaewmalee, Major advisor and Member of the Master Degree Committee
Topic: Effects of Lovastatin analog on cholesterol homeostasis and its mechanisms in high-fat diet induced obese rats (Physiology)
10. Kungsadal Sirijariyawat, Major advisor and Member of the Master Degree Committee
Topic: Effects of Acute Myocardial Ischemic and Reperfusion Injury on Renal Organic Anion Transport in Rats (Physiology)
11. Atcharaporn Ontawong, Major advisor and Member of the Doctoral Degree Committee. Topic: Effects of Coffee Pulp Aqueous Extract on Cholesterol Homeostasis and Its Mechanisms in Human Cell Lines and Obese Rats (Physiology)
12. Pensiri Buacheen, Co-advisor and Member of the Master Degree Committee
Topic: Effects of Coffee Pulp Extract on Anti-Inflammation in Macrophage and Anti-Insulin Resistance in Adipocyte (Biochemistry)
13. Tiphthida Pasachan, Major advisor and Member of the Doctoral Degree Committee. Topic: Effects of Aqueous extract of *Tiliacora triandra* (Colebr.) Diels Leaves on Hepatic Insulin Resistance and Lipid Accumulation in Human Hepatocellular Carcinoma cell lines and Experimental Diabetic Rats (Physiology)
14. Myat Theingi Swe, Co-advisor and Member of the Doctoral Degree Committee. Topic: Effects of Dapagliflozin on Renal and Hepatic Gluconeogenesis in Obese Insulin-resistant Rats (Physiology)
15. Nichakorn Pengphol, Co-advisor and Member of the Doctoral Degree Committee. Topic: The Renal Consequences in the Offspring Induced by Maternal Obesity and the Effects of N-acetyl Cysteine, Metformin and Omega 3 in Fish Oil to Protect Against Renal Injury in Mice (Physiology)
16. Sasivimon Promsarn, Co-advisor and Member of the Doctoral Degree Committee. Topic: The Effects of Agometatine on Renal Function and Renal Organic Anion Transporter 3 (Oat3) Function in High-Fat Diet-induced Obese Insulin Resistance Rats (Physiology)
17. Prempree Sudthasupa, Co-advisor and Member of the Doctoral Degree Committee. Topic: (Effect of Chitosan Oligosaccharide on The Prevention of Kidney Injury in Prediabetic and Diabetic Rats (Physiology)
18. Jakkrapong Inchai, Major advisor and Member of the Doctoral Degree Committee. Topic: Effects of *Ocimum sanctum* L. Flower Aqueous Extract on Lipid Homeostasis and Its Mechanisms Involved in Human Intestinal and Hepatocyte Cell Lines and High-fat Diet Induced Non-alcoholic Fatty Liver Disease in Rats (Physiology)
19. Onanong Jareun, Co-advisor and Member of the Master Degree Committee. Topic: (The Effect of Pyridoxine on Renal Function and Renal Organic Anion Transporter 3 (Oat3) in High-Fat Diet-Induced Obese Insulin Resistant Rats (Physiology)
20. Pannita Holasut, Major advisor and Member of the Doctoral Degree Committee. Topic: Effect of Preussin Derivative 1 and 2 On Oxidative Stress and Lipid Homeostasis and their Mechanisms Involved in Human Epithelial Cell Lines and in Rats (Physiology)
21. Thanthakan Saithong, Major advisor and Member of the Doctoral Degree Committee. Topic: Effect of Zinc Oxide Nanoparticle on Cholesterol Homeostasis in Intestinal Caco-2 Cells and High-fat Diet Induced Obese rats (Physiology)
22. Kornwalai Tunkaew, Major advisor and Member of the Doctoral Degree Committee. Topic: Effects of Zinc Oxide Nanoparticles on Lipid Homeostasis and the Underlying Mechanisms Involved in Human Hepatocyte Cell Line and High-fat Diet Induced Non-Alcoholic Fatty Liver Disease in Rats (Physiology)
23. Ratchadaporn YooNakorn, Co-advisor and member of the Master Degree Committee. Topic: Anti-inflammatory and Anti-oxidative Effects of Finger Root Extract on Pancreatic Cells in High-fat Diet-induced Obese Rats (Anatomy)

Special Academic Appointments

2009-Present	Graduate School Faculty, Chiang Mai University, Chiang Mai, Thailand
2012-Present	Graduate School Faculty, Maejo University, Chiang Mai, Thailand

RESEARCH GRANT SUPPORT

11/2023 – 11/2027	Grant for Research and Researcher for Industry (RRi) Ph.D. program by the National Research Council (NRTC), Thailand (Grant no. N23G660013). “Potential development of zinc oxide nanoparticles as an innovative product model for regulating lipid homeostasis in cultured human hepatocytes and high-fat diets induced non-alcoholic fatty liver disease rats” (PI)
09/2023 – 08/2026	Grant for Royal Golden Jubilee (RGJ) Ph.D. program by the National Research Council (NRTC), Thailand (Grant no. N41A661118). “Effect of preussin derivative 1 and 2 on oxidative stress and lipid homeostasis and their mechanisms involved in intestinal, liver, and renal epithelial cells” (PI)
06/2021 – 06/2024	Grant for Research and Researcher for Industry (RRi) Ph.D. program by the National Research Council (NRTC), Thailand (Grant no. N41A640337) “Developing Potentials and Adding values of <i>Ocimum sanctum L.</i> flower extract on lipid homeostasis in human hepatocyte cell line and obese rats” (PI)
05/2023 – 05/2024	Research fund from Agricultural Research Development Agency (ARDA), Thailand. “Study of crude of black pepper as a dietary supplement and utilization: Genotoxicity study and clinical trial phase I” (co-PI)
10/2021 – 10/2023	Research fund from the National Research Council (NRTC), Thailand. “Synthesis, mechanism of action and target identification of anti-hyperlipedemic statin and preussin derivatives from the soil-derived fungus <i>Aspergillus sclerotiorum</i> PSU-RSPG178” (Co-PI)
06/2022 – 06/2024	Research fund from Program Management Unit for Competitiveness, the National Research Council (NRTC), Thailand. “Effect of Coffee pulp extract powder on anti-hyperglycemia in type 2 diabetic patients” (PI)
10/2022 – 09/2023	Research fund from Abhaiphubet Chaopraya Hospital Foundation, Thailand. “Effects of fingerroot extract on hepatic steatosis in human hepatocellular carcinoma HepG2 cells and high-fat diet-induced hepatic steatosis in rats” (Co-PI)
10/2023 – 09/2024	Research fund from Fundamental Fund, Chiang Mai University. “Development of Functionalized-Nanomaterials Properties for Preliminary Assessment in Health Promotion and Non-Communicable Disease” (Co-PI)
10/2022 – 04/2024	Research fund from Fundamental Fund, Chiang Mai University. “Production of functional ingredients from local vegetables used in Lanna functional food product development for prevention of metabolic syndrome” (Co-PI)

PREVIOUS GRANT SUPPORT

- 12/2009 - 11/2011 Research fund from the Faculty of Medicine, Chiang Mai University, Thailand. "Regulation of Renal Organic Anion Transporters 3 (Oat3) expression and function by lipid raft domains and lipid raft-associated proteins" (PI)
- 05/2010 – 04/2011 Research fund from the National Research Council, Thailand. "Protective and antioxidant effects of *Spirogyra neglecta* on Type 2 Diabetic complications in rats" (Co-PI)
- 06/2010 – 05/2012 Research fund from the Faculty of Medicine, Chiang Mai University, Thailand. "Effects of *Cladophora glomerata* extract on renal transport function in type 2 diabetic rats" (PI)
- 07/2011 – 06/2013 Young scientist research from the Thailand Research Fund, Thailand "Effects of *Cladophora glomerata* extract on renal organic anion and cation transporters in high fat diet-induced Diabetic type II rats" (PI)
- 05/2011 – 04/2013 Research fund from the National Research Council, Thailand. "Effect of Spirogyra on antioxidant system and detoxifying enzyme in Nile tilapia (*Oreochromis niloticus*)" (Co-PI)
- 11/2012 – 10/2014 Research fund from the Faculty of Medicine, Chiang Mai University, Thailand. "Effect of Spirogyra neglecta extract on renal organic anion transporter 1 and 3 function in type 2 diabetic rats" (PI)
- 09/2013 – 08/2014 Research fund from the National Research Council, Thailand. "Antioxidative effect of fish oil from hybrid catfish in the human Hepatocarcinoma cells" (PI)
- 08/2013 – 07/2015 Research fund from the Faculty of Medicine, Chiang Mai University, Thailand. "Interaction of green tea catechins with renal organic cation transporter 2" (PI)
- 03/2015 – 02/2016 Research fund from the Faculty of Medicine, Chiang Mai University, Thailand. "Characterization of Organic Cation Transporter 1 in Human Hepatocellular Carcinoma Cells using Fluorescence 4-(4-(dimethyl-amino)styryl)-*N*-methylpyridinium" (PI)
- 12/2014 – 11/2016 Research grant from the Faculty of Medicine, Chiang Mai University, Thailand. "Effect of methanolic extracts of Siamese neem tree flowers on cholesterol absorption in Caco-2 cells" (PI)
- 08/2015 – 01/2017 Grant for Research and Researcher for Industry (RRi) M.S. program by Thailand Research Fund (TRF) (Grant no. MSD58I0100) "Antioxidative effect of coffee pulp aqueous extract on renal organic ions transport in type 2 diabetic rats" (PI)
- 02/2015 – 01/2018 Grant for Research and Researcher for Industry (RRi) Ph.D. program by Thailand Research Fund (TRF) (Grant no. PHD58I0010) "Developing potentials and adding values of biological activities of coffee pulp aqueous extract on cholesterol homeostasis and its mechanisms in human intestinal Caco-2 cells and obese rats" (PI)
- 08/2017 – 02/2018 Research grant from Innovation hub (Food & Agriculture: Start-up). "Strategy and marketing plan for developing coffee pulp extract as lipid-lowering supplement" (PI)
- 02/2015 – 01/2018 Grant for Research and Researcher for Industry (RRi) Ph.D. program by Thailand Research Fund (TRF) (Grant no. PHD58I0009) "Developing Potentials and Adding values of biological activities of

	<i>Tiliacoratriandra</i> (Colebr.) Diels Extract in Type 2 Diabetes Mellitus in rats” (PI)
06/2016 – 06/2019	TRF Research Career Development Grant from Thailand Research Fund (TRF). “Effects of humanin against impairment of renal transport induced by myocardial ischemia and reperfusion injury: focusing on renal transporters as a new potential target” (PI)
10/2018 – 09/2020	Research fund from the Faculty of Medicine, Chiang Mai University, Thailand. “Effects of Acute Myocardial Ischemia on Renal Organic Ion Transport in Rats” (PI)
01/2016 – 06/2021	NSTDA Chair Professor Grant of the Crown Property Bureau and the National Science and Technology Development Agency to Professor Dr. Vatcharin Rukachaisirikul from National Science and Technology Development Agency (NSTDA), Thailand. “Discovery and Developing Compounds from Thai Fungi for Sustainable Drug Discovery”. (Co-PI)
06/2019 – 05/2021	Research fund from TRF industry division. “Effect of ready-to-drink supplement product derived from Coffea Arabica pulp extract on lipid profiles and hepatic steatosis in hyperlipidemia-obese humans” (PI)
12/2019 – 12/2021	Research fund from the Faculty of Medicine, Chiang Mai University, Thailand. “Interaction of buspirone and its major derivatives with human organic cation transporters” (PI)
06/2022 – 05/2023	Research fund from Agricultural Research Development Agency (ARDA), Thailand. “Development and processing of prebiotic products from black garlic added calcium with high bioactivity” (Co-PI)
10/2022 – 09/2023	Research fund from Fundamental Fund, Chiang Mai University. “Development of Functionalized-Nanomaterials Properties for Preliminary Assessment in Health Promotion and Non-Communicable Disease” (Co-PI)
10/2021 – 10/2023	Research fund from the National Research Council (NRTC), Thailand. “Vertical farming of kale and the value creation of its by-product as a functional ingredient for prevention of non-communicable diseases” (Co-PI)

PATENTS

1. Petty patent: 14624 (8 Nov 2561)

PEER REVIEWED ARTICLES

1. Atcharaporn Ontawong, Sirinat Pengnet, Arthid Thim-Uam, **Chutima S. Vaddhanaphuti**, Narongsuk Munkong, Manussaborn Phatsara, Kullanat Kuntakhut, Jakkapong Inchai, Doungporn Amornlerdpison, Teerawat Rattanaphot. Red rice bran aqueous extract ameliorate diabetic status by inhibiting intestinal glucose transport in high fat diet/STZ-induced diabetic rats. *J Trad Compl Med.*, 2023. (IF 4.5, Q1)
2. Matee Jinakote, Bhornprom Yoysungnoen, **Chutima S. Vaddhanaphuti**, Atchareeya Kasiyaphat. Combined effects of whole-body vibration and dynamic

- squats on cardiovascular and salivary biomarker responses in healthy adults. *J Exerc Rehabil.* 2023; 19(5): 280–292. (IF 1.9, Q2)
3. Kittisak Thongpat, Pannita Holasut, Atcharaporn Ontawong, Jakkapong Inchai, Acharaporn Duangjai, Vatcharin Rukachaisirikul, **Chutima S. Vaddhanaphuti**, Kwanruthai Tadpetch. Synthesis and potential antidiabetic and lipid-lowering activities of putative asperidine B and its desmethyl analogue. *Bioorg Med Chem Lett.* 2023; 93: 129437. (IF 3.5, Q2)
 4. Atcharaporn Ontawong, Acharaporn Duangjai, **Chutima S. Vaddhanaphuti**, Doungporn Amornlerdpison, Sirinat Pengnet, Natakorn Kamkaew. Chlorogenic acid rich in coffee pulp extract suppresses inflammatory status by inhibiting the p38, MAPK, and NF- κ B. *Heliyon* 2023; 9: e13917. (IF 3.776, Q1)
 5. Metee Jinakote, Promsuk Jutabha, Naohiko Anzai, Atcharaporn Ontawong, Sunhapas Soodvilai, Jakkapong Inchai, **Chutima S. Vaddhanaphuti**. Interaction of Buspirone and Its metabolites with Human Organic Cation Transporters. *Fundam Clin Pharmacol.* 2023; 37: 833–842. (IF. 2.747, Q2)
 6. Atcharaporn Ontawong, Acharaporn Duangjai, Yaowapa Sukpondma, Kwanruthai Tadpetch, Chatchai Muanprasat, Vatcharin Rukachaisirikul, Jakkapong Inchai, **Chutima S. Vaddhanaphuti**. Cholesterol-Lowering Effects of Asperidine B, a Pyrrolidine Derivative from the Soil-Derived Fungus *Aspergillus sclerotiorum* PSU-RSPG178: A Potential Cholesterol Absorption Inhibitor. *Pharmaceuticals.* 2022; 15(8): 955. (IF. 5.215, Q1)
 7. Acharaporn Duangjai, Vatcharin Rukachaisirikul, Yaowapa Sukpondma, **Chutima Srmaroeng**, and Chatchai Muanprasat. Antispasmodic Effect of Asperidine B, a Pyrrolidine Derivative, through Inhibition of L-Type Ca^{2+} Channel in Rat Ileal Smooth Muscle. *Molecules.* 2021; 26: 5492. (IF. 4.411, Q1)
 8. Atcharaporn Ontawong, Acharaporn Duangjai, and **Chutima Srmaroeng**. *Coffea arabica* bean extract inhibits glucose transport and disaccharidase activity in Caco-2 cells. *Biomedical Rep.* 2021; 15(3): 73. (Q1)
 9. Atcharaporn Ontawong, Tiphida Pasachan, Kongkiat Trisuwan, Sunhapas Soodvilai, Acharaporn Duangjai, Anchalee Pongchaidecha, Doungporn Amornlerdpison, and **Chutima Srmaroeng**. *Coffea arabica* pulp aqueous extract attenuates oxidative stress and hepatic lipid accumulation in HepG2 cells. *J Herb Med.* 2021; 29: 100465. (IF. 3.032, Q2)
 10. Jutatip Kaewmalee, Atcharaporn Ontawong, Acharaporn Duangjai, Chittreeya Tansakul, Vatcharin Rukachaisirikul, Chatchai Muanprasat, and **Chutima Srmaroeng**. High efficacy α,β -dehydro-monacolin S improves hepatic steatosis and suppresses gluconeogenesis pathway in high-fat diet-induced obese rats. *Pharmaceuticals.* 2021; 14(4): 375. (IF. 5.863, Q1)
 11. Oranit Boonphang, Atcharaporn Ontawong, Tiphida Pasachan, Manussabhorn Phatsara, Acharaporn Duangjai, Doungporn Amornlerdpison, Metee Jinakote, **Chutima Srmaroeng**. Antidiabetic and Renoprotective Effects of *Coffea arabica* Pulp Aqueous Extract through Preserving Organic Cation Transport System Mediated Oxidative Stress Pathway in Experimental Type 2 Diabetic Rats. *Molecules.* 2021; 26: 1907. (IF. 4.411, Q1)
 12. Pasachan T, Duangjai A, Ontawong A, Pongchaidecha A, Jinakote M, Phatsara M, Soodvilai S, Amornlerdpison D, **Srmaroeng C.** *Tiliacora triandra* (Colebr.) Diels Leaf Aqueous Extract Inhibits Hepatic Glucose Production in HepG2 cells and Type 2 Diabetic Rats. *Molecules* 2021;26(5):1239. (IF. 4.411, Q1)
 13. Jinakote M, Ontawong A, Soodvilai S, Pimta J, Pasachan T, Chatsudthipong V, **Srmaroeng C.** High affinity of 4-(4-(dimethylamino)styryl)-N-methylpyridinium

- transport for assessing organic cation drugs in hepatocellular carcinoma cells. *Fundam Clin Pharmacol*. 2020;34(3):365-379. (IF. 2.229, Q2)
14. Ontawong A, **Srimaroeng C**, Boonphang O, Phatsara M, Duangjai A. Spirogyra neglecta aqueous extract attenuates LPS-induced renal inflammation. *Biol Pharm Bull* 2019;42(11):1814-1822. (IF. 1.54, Q2)
 15. Duangjai A, Ontawong A, **Srimaroeng C**. Siamese neem flower extract suppresses cholesterol absorption by interfering NPC1L1 and micellar property in vitro and in intestinal Caco-2 cells. *Res Pharm Sci* 2019;14(3):190-200. (Q1)
 16. Kungsadal Sirijariyawat, Atcharaporn Ontawong, Siripong Palee, Savitree Thummasorn, Chayodom Maneechote, Oranit Boonphang, Varanuj Chatsudthipong, Nipon Chattipakorn, **Chutima Srimaroeng**. Impaired renal organic anion transport 1 (SLC22A6) and its regulation following acute myocardial infarction and reperfusion injury in rats. *Biochim Biophys Acta Mol Basis Dis* 2019; 1865(2019): 2342-2355. (IF 4.328, Q1).
 17. Atcharaporn Ontawong, Oranit Boonphang, Tiptida Pasachan, Acharaporn Duangjai, Anchalee Pongchaidecha, Manussaborn Phatsara, Metee Jinakote, Doungporn Amornlerdpison, **Chutima Srimaroeng**. Hepatoprotective effect of coffee pulp aqueous extract combined with simvastatin against hepatic steatosis in high-fat diet-induced obese rats. *J Func Foods* 2019; 54: 568-577. (IF 3.47, Q1)
 18. Atcharaporn Ontawong, Acharaporn Duangjai, Chatchai Muanprasat, Tiptida Pasachan, Anchalee Pongchaidecha, Doungporn Amornlerdpison, **Chutima Srimaroeng**. Lipid-lowering effects of Coffea arabica pulp aqueous extract in Caco-2 cells and hypercholesterolemic rats. *Phytomedicine* 2019;52:387-397. (IF. 3.61, Q1)
 19. Ospondpant D, Phuagkhaopong S, Suknuntha K, Sangpairoj K, Kasemsuk T, **Srimaroeng C**, Vivithanaporn P. Cadmium induces apoptotic program imbalance and cell cycle inhibitor expression in cultured human astrocytes. *Environ Toxicol Pharmacol* 2018;65:53-59. (IF. 2.776, Q2)
 20. Patima Phainuphong, Vatcharin Rukachaisirikul, Saowanit Saithong, Souwalak Phongpaichit, Jariya Sakayaroj, **Chutima Srimaroeng**, Atcharaporn Ontawong, Acharaporn Duangjai, Chatchai Muanprasat. Asperidines A-C, pyrrolidine and piperidine derivatives from the soil-derived fungus *Aspergillus sclerotiorum* PSU-RSPG178. *Bioorg Med Chem* 2018;26(15):4502-4508. (IF. 2.881, Q1)
 21. Pattamaprapanont P, Muanprasat C, Soodvilai S, **Srimaroeng C**, Chatsudthipong V. Effect of Exercise Training on Signaling of Interleukin-6 in Skeletal Muscles of Type 2 Diabetic Rats. *Rev Diabet Stud* 2016;13(2-3):197-206. (IF. 3.35, Q2)
 22. Patima Phainuphong, Vatcharin Rukachaisirikul, Saowanit Saithong, Souwalak Phongpaichit, Kawitsara Bowornwiriyan, Chatchai Muanprasat, **Chutima Srimaroeng**, Acharaporn Duangjai, Jariya Sakayaroj. Lovastatin analogues from the soil-derived fungus *Aspergillus sclerotiorum* PSU-RSPG178. *J Nat Prod* 2016;79(6):1500-1507. (IF.3.798, Q1)
 23. Chaliya Jaiyen, Promsuk Jutabha, Naohiko Anzai and **Chutima Srimaroeng**. Interaction of green tea catechins with renal organic cation transporter 2. *Xenobiotica* 2016;46(7):641-650. (IF. 2.199, Q2)
 24. **Chutima Srimaroeng***, Atcharaporn Ontawong, Naruwan Saowakon, Pornpun Vivithanaporn, Anchalee Pongchidecha, Doungporn Amornlerdpison, Sunhapas Soodvilai, and Varanuj Chatsudthipong. Anti-diabetic and Renoprotective Effects of *Cladophora glomerata* Kützing Extract in Experimental Type 2 Diabetic Rats: A Potential Nutraceutical Product for Diabetic Nephropathy. *J Diabetes Research* 2015;2015: Article ID 320167, 15 pages. (IF. 3.536, Q2)

25. Atcharaporn Ontawong, Naruwan Saowakon, Pornpun Vivithanaporn, Anchalee Pongchaidecha, Narissara Lailerd, Doungporn Amornlerdpison, Anusorn Lungkaphin, and **Chutima Srimaroeng***. Antioxidant and renoprotective effects of *Spirogyra neglecta* (Hassall) Kützing extract in experimental type 2 diabetic rats. *Biomed Res Int* 2013;2013: Article ID 820786, 15 pages. (IF. 2.88, Q1)
26. **Chutima Srimaroeng***, Jennifer P Cecile, Ramsey Walden, and John B. Pritchard. Regulation of renal organic anion transporter 3 (SLC22A8) expression and function by the integrity of lipid raft domains and their associated cytoskeleton. *Cell Physiol Biochem* 2013;31(4-5): 565-578. (IF. 3.415, Q2)
27. Phatchawan Arjinajarn, **Chutima Srimaroeng**, Varanuj Chatsudthipong, and Anusorn Lungkaphin. Decreased Renal Organic Anion Transporter 3 Expression in Type 1 Diabetic Rats. *Am J Med Sci* 2013;347(3):221-7. (IF. 1.334)
28. Anusorn Lungkaphin, Phatchawan Arjinajarn, **Chutima Srimaroeng**, and Varanuj Chatsudthipong. Function and expression of renal organic anion transporters in experimental diabetes in mice. *ScienceAsia* 2012;38:18-23. (IF. 0.344)
29. Paranee Meetam, **Chutima Srimaroeng**, Sunhapas Soodvilai and Varanuj Chatsudthipong. Role of Estrogen in Renal Handling of Organic Cation, Tetraethylammonium: in Vivo and in Vitro studies. *Biol Pharm Bull* 2009;32(12):1968-1972. (IF.1.765, Q1)
30. Paranee Meetam, **Chutima Srimaroeng**, Sunhapas Soodvilai and Varanuj Chatsudthipong. Regulatory role of Testosterone on Organic Cation Transport: In Vivo and in Vitro studies. *Biol Pharm Bull* 2009;32(6):982-987. (IF. 1.765, Q1)
31. Barros, S.A.#, **Srimaroeng, C.** #, Perry J.L., Dembla-Rajpal, N,Walden, R., and Pritchard, J.B.: Activation of protein kinase C zeta increases OAT1 (SLC22A6) and OAT3 (SLC22A8) mediated transport. *J Biol Chem* 2009;284(5):2672-2679 [Epub Nov 21, 2008]. #equally contribution (IF. 5.52, Q1)
32. Vanwert AL, **Srimaroeng C**, Sweet DH. Organic Anion Transporter 3 (Oat3/Slc22a8) Interacts with Carboxyfluoroquinolones and Deletion Increases Systemic Exposure to Ciprofloxacin. *Mol Pharmacol* 2008;74(1):122-131. (IF. 3.622, Q1)
33. **Chutima Srimaroeng**, Promsuk Jutabha, John B. Pritchard, Hitoshi Endou and Varanuj Chatsudthipong. Interactions of Stevioside and Steviol with Renal Organic Anion Transporters in S2 cells and Mouse Renal Cortical Slices. *Pharm Res* 2005;22(6):858-866. (IF. 2.94, Q1)
34. **Chutima Srimaroeng**, Varanuj Chatsudthipong, Amy G. Aslamkhan and John B. Pritchard. Transport of the Natural Sweetener Stevioside and its aglycone Steviol by Human Organic Anion Transporter (hOAT1; SLC22A6) and hOAT3 (SLC22A8). *J Pharmacol Exp Ther* 2005;313:621-628. (IF. 4.335, Q1)

PEER REVIEWED ABSTRACTS

1. Matina Chaiwarut, Pannita Holasut, Worarat Rojanaverawong, Jakkapong Inchai, Nobphaphit Saeyang, Jeeraporn Chitphan, Rawiwan Wongpoomchai, and **Chutima S. Vaddhanaphuti**. Potential Cholesterol-lowering Effects of Functional Ingredients Derived From Local Thai Vegetables by Interfering Cholesterol Micelle Formation. The 6th International Medical Student Research Conference (IMRC) 2023, Technology-Enhanced Simulation and the New Frontier of Medical Research. December 9th–10th, 2023, Bangkok, Thailand.

2. Kornwalai Tunkaew, Thanthakan Saithong, Jakkapong Inchai, Mameaseng Siriwalai, Chaikarn Liewhiran, and **Chutima S. Vaddhanaphuti**. Hepatoprotective Effect of Zinc Oxide Nanoparticles Against Non- Alcoholic Fatty Liver Disease in Hepatocellular Carcinoma Cells. The 8th International Conference on Nanotechnology – NanoThailand 2023, Nanotechnology for Sustainable World. November 29th - December 1st, 2023, Dusit Thani Pattaya, Chonburi, Thailand.
3. Thanthakan Saithong, Kornwalai Tunkaew, Mameaseng Siriwalai, Chaikarn Liewhiran, and **Chutima S. Vaddhanaphuti**. Zinc oxide nanoparticle from Flame spray pyrolysis (FSP ZnO-NP) alleviate intestinal cholesterol absorption in Caco-2 cells. The 8th International Conference on Nanotechnology – NanoThailand 2023, Nanotechnology for Sustainable World. November 29th -December 1st, 2023, Dusit Thani Pattaya, Chonburi, Thailand.
4. Pannita Holasut, Kornwalai Tunkaew, Thanthakan Saithong, Jakkapong Inchai, Atcharaporn Ontawong, Vatcharin Rukachaisirikul, Kwanruthai Tedpetch, Kittisak Thongpat, and **Chutima S. Vaddhanaphuti**. Hepatoprotective Effects of Preussin Derivatives, PD1 and PD2, Against Oxidative Stress: A potential Candidate For Prevention of Non-alcoholic Fatty Liver Disease. (Excellent E-poster Award). The 6th Korea Digestive Disease Week (KDDW 2022), Precision, Innovation & Convergence in Gastroenterology and Hepatology. December 1st – 3rd, 2022, Incheon, Korea.
5. Jakkapong Inchai, Atcharaporn Ontawong, Thippawan Yasanga, Doungporn Amonlerdpison, and **Chutima S. Vaddhanaphuti**. Hepatoprotective Effects of *Ocimum sanctum* L. Flower Aqueous Extract Against Non-alcoholic Fatty Liver Disease by Regulating Lipophagy in HepG2 Cells. The 6th Korea Digestive Disease Week (KDDW 2022), Precision, Innovation & Convergence in Gastroenterology and Hepatology. December 1st – 3rd, 2022, Incheon, Korea.
6. Kornwalai Tunkaew, Thanthakan Saithong, Jakkapong Inchai, Pannita Holasut, Atcharaporn Ontawong, Mameaseng Siriwalai, Chaikarn Liewhiran, Thippawan Yasanga, and **Chutima S. Vaddhanaphuti**. Conformational Alteration of Cholesterol Micelles by Tin Dioxide Nanoparticle: A Potential Cholesterol Absorption Inhibitor. The 6th Korea Digestive Disease Week (KDDW 2022), Precision, Innovation & Convergence in Gastroenterology and Hepatology. December 1st – 3rd, 2022, Incheon, Korea.
7. Thanthakan Saithong, Jakkapong Inchai, Kornwalai Tunkaew, Pannita Holasut, Atcharaporn Ontawong, Mameaseng Siriwalai, Chaikarn Liewhiran, Thippawan Yasanga, and **Chutima S. Vaddhanaphuti**. Beneficial Effects of Zinc Oxide Nanoparticle on Inhibition of Intestinal Cholesterol Absorption: Potential Use as Anti-hyperlipidemia Agent. The 6th Korea Digestive Disease Week (KDDW 2022), Precision, Innovation & Convergence in Gastroenterology and Hepatology. December 1st – 3rd, 2022, Incheon, Korea.
8. Atcharaporn Ontawong, Jakkapong Inchai, Kwanruthai Tedpetch, Vatcharin Rukachaisirikul, and **Chutima S. Vaddhanaphuti**. Inhibition of Cholesterol Absorption by Preussin B., an Asperidine B Derivative, in Human Colorectal Adenocarcinoma (Caco-2) cells and Rat Jejunal Epithelial Cells: A Potential Anti-hyperlipidemic Agent. The 6th Korea Digestive Disease Week (KDDW 2022), Precision, Innovation & Convergence in Gastroenterology and Hepatology. December 1st – 3rd, 2022, Incheon, Korea.

9. Chaiwat Jakrachai, Kornwalai Tunkaew, Jakkapong Inchai, Atcharaporn Ontawong, Thippawan Yasanga, Doungporn Amonlerdpison, and **Chutima S. Vaddhanaphuti**. Eggplant Aqueous Extract Inhibits Intestinal Cholesterol Absorption by Alteration of Physicochemical Properties of Cholesterol Micelles in Human Colorectal Adenocarcinoma (Caco-2) cells. The 6th Korea Digestive Disease Week (KDDW 2022), Precision, Innovation & Convergence in Gastroenterology and Hepatology. December 1st – 3rd, 2022, Incheon, Korea.
10. Jakkapong Inchai, Atcharaporn Ontawong, and **Chutima Srimaroeng**. The assessment of *Ocimum sanctum* L. Flower Aqueous Extract for inhibition of Cholesterol Absorption in Human Colorectal Adenocarcinoma (Caco-2) Cells. **(Young Investigator Award)**. The 5th Korea Digestive Disease Week (KDDW 2021), New Challenges and Collaboration in Gastroenterology and Hepatology Research. December 18th-20th, 2021, Seoul, Korea (virtual).
11. Jakkapong Inchai and **Chutima Srimaroeng**. The Assessment of *Ocimum sanctum* L. Aqueous Extract for Ameliorating Lipid Content in Non-Alcoholic Fatty Liver Disease. *The 46th International Congress on Science, Technology and Technology-based Innovation (STT46)*. October 5th-7th, 2020, Ramkhamhaeng University, Bangkok, Thailand.
12. Oranit Boonphang, Atcharaporn Ontawong, Anchalee Pongchaidecha, Tiphida Pasachan, Manussabhorn Phassara, Acharaporn Duangjai, Doungporn Amornlerdpison, and **Chutima Srimaroeng**. Protective Effect of Coffee Pulp Extract on Renal Oxidative Stress in Experimental Diabetic Rats. *The First International Conference on Innovation of Functional Foods in Asia (IFFA 2018)*. January 22nd–24th 2018, University of Phayao, Phayao, Thailand.
13. Atcharaporn Ontawong, Oranit Boonphang, Tiphida Pasachan, Acharaporn Duangjai, Anchalee Pongchaidecha, Doungporn Amornlerdpison, and **Chutima Srimaroeng**. Coffee pulp extract (CPE) alone and combined with simvastatin ameliorate non-alcoholic fatty liver disease in obese insulin resistance rats. *The First International Conference on Innovation of Functional Foods in Asia (IFFA 2018)*. 22nd – 24th January, 2018, University of Phayao, Phayao, Thailand.
14. Tiphida Pasachan, Atcharaporn Ontawong, Acharaporn Duangjai, Sunhapas Soodvilai, Anchalee Pongchaidecha, Doungporn Amornlerdpison, and **Chutima Srimareong**. *Tiliacora triandra* (Colebr.) Diels ameliorates insulin resistance and non-alcoholic fatty liver in T2DM rats. *The First International Conference on Innovation of Functional Foods in Asia (IFFA 2018)*. 22nd – 24th January, 2018, University of Phayao, Phayao, Thailand.
15. **Chutima Srimareong**, Atcharaporn Ontawong, Jutatip Kaewmalee, Tiphida Pasachan, Nichanan Inboot, Kungsadal Sirijariyawat, Oranit Boonphang, Naruwan Saowakon, Acharaporn Duangjai, Rawiwan Wongpoomchai. Anthocyanin mixture extracted from rice berry bran ameliorates insulin resistance and non-alcoholic fatty liver in high-fat diet obese rats. *The First International Conference on Innovation of Functional Foods in Asia (IFFA 2018)*. 22nd – 24th January, 2018, University of Phayao, Phayao, Thailand.
16. **Chutima Srimaroeng**, Kungsadal Sirijariyawat, Atcharaporn Ontawong, Siripong Palee, Savitree Thummasorn, Chayodom Maneechote, Oranit Boonphang, Varanuj Chatsudthipong and Nipon, Chattipakorn. Impairment of renal transport mediated by

- Organic anion transport 1 (Oat1) and 3 (Oat3) in acute myocardial ischemic injury in rats. *FASEB J.* 2018 32(1supplement).
17. Tiphthida Pasachan, Atcharaporn Ontawong, Sunhapas Soodvilai, Acharaporn Duangjai, Anchalee Pongchaidecha, Doungporn Amornlerdpison, and **Chutima Srimaroeng**. *Tiliacora triandra* (Colebr.) Diels Ameliorates Hepatic Steatosis by Inhibition of HMGR and Down-regulation of FAT/CD36. *FASEB J.* 2018 32(1supplement).
 18. Atcharaporn Ontawong, Tiphthida Pasachan, Sunhapas Soodvilai, Acharaporn Duangjai, Anchalee Pongchaidecha, Doungporn Amornlerdpison, and **Chutima Srimaroeng**. Chlorogenic Acid Enriched in Coffee Pulp Extract Attenuates Hepatic Steatosis by Modulating Gene-regulated Lipid Metabolism and Lipid Transporters. *FASEB J.* 2018 32(1supplement).
 19. **Chutima Srimaroeng**, Promsuk Jutabha, Naohiko Anzai, Atcharaporn Ontawong, Metee Jinakote, and Jaiyen Chaliya. Potential interaction of anxiolytic drug, buspirone, with human organic cation transporter 1. *The 13th European Regional International Society for the Study of Xenobiotics (ISSX)*, 22-25 June 2015: P54, 67.
 20. Atcharaporn Ontawong, Acharaporn Duangjai, Chatchai Muanprasat, Anchalee Pongchaidecha and Chutima Srimaroeng. Inhibition of Cholesterol Absorption by Coffee Pulp Extract in intestinal Caco-2 cells. *The Journal of Physiological Sciences.* 2015, 65(suppl2): S-A150.
 21. Tiphthida Pasachan, Atcharaporn Ontawong, Acharaporn Duangjai, Anchalee Pongchaidecha, Chatchai Muanprasat, and **Chutima Srimaroeng**. Effect of *Tiliacora triandra* (Colebr.) Diels on cholesterol synthesis and absorption *in vitro*. *The Journal of Physiological Sciences.* 2015: 65 (Suppl2): S-A154.
 22. Oranit Boonphang, Atcharaporn Ontawong, Anchalee Pongchidecha, Tiphthida Pasachan, Acharaporn Duangjai, and **Chutima Srimaroeng**. The effect of oxidative and nitrosative stresses on renal organic anion transporter 3 function in type 2 diabetic rats. *The Journal of Physiological Sciences.* 2015: 65 (Suppl2): S-A164.
 23. **Metee Jinakote**, Sunhapas Soodvilai, Atcharaporn Ontawong, and Chutima Srimaroeng. *In Vitro* Study of Organic Cation Drug Transport Mediated by Human Organic Cation Transporter 1 (*SLC22A1*) and 3 (*SLC22A3*) in Hepatocellular Carcinoma (HepG2) cells. *The Journal of Physiological Sciences.* 2015: 65 (Suppl2): S-A166.
 24. **Chutima Srimaroeng**, Promsuk Jutabha, Naohiko Anzai, Atcharaporn Ontawong, Metee Jinakote, and Jaiyen Chaliya. Potential interaction of anxiolytic drug, buspirone, with human organic cation transporter 1. The 13th European Regional International Society for the Study of Xenobiotics (ISSX), June 22nd-25th, 2015, Glasgow, Scotland.
 25. Ontawong A, **Srimaroeng C**, Jaiyen C, Pongchidecha A, Saowakon N. Involvement of Liver Oxidative Stress and Histopathological Changes in Type 2 diabetes rats. 9th Congress of the APSAVD and 16th EMW Symposium September 25th-28th, 2014, Hongkong.
 26. Lungkaphin Anusorn, Arjinajarna Phatchawan, Pongchaidecha Anchalee, **Srimaroeng Chutima**, Chatsudthipong Lisa, Chatsudthipong Varanuj. The modulation of Organic Anion Transporter 3 function in type I diabetic rats. *Nephrology.* May 2014: 19(suppl4), 89.

27. Jaiyen Chaliya, Jutabha Promsuk, Anzai Naohiko, **Srimaroeng Chutima**. Interaction of green tea catechins with renal Organic Cation Transporter 2. *Nephrology*. May 2014: 19(suppl4), 119.
28. **Srimaroeng Chutima**, Ontawong Atcharaporn, Jaiyen Chaliya, Pongchidecha Anchalee, and Amornlerdpison Dounporn. Protective effects of *Cladophora glomerata* Kützing Extract against the Impairment of Renal Transport Function in Experimental Type 2 Diabetic Rats: A Potential Nutraceutical Product for Diabetic Nephropathy. *Nephrology*. May 2014: 19(suppl4), 135.
29. **C. Srimaroeng***, A. Ontawong, A. Pongchidecha, and V. Chatsudthipong. Anti-diabetic and renoprotective effects of *Cladophora glomerata* Kützing extract in high fat diet with streptozotocin-induced type 2 diabetic rats. The 5th BBBB International Conferences, September 26th-28th, 2013, Athens, Greece.
30. Atcharaporn Ontawong and **Chutima Srimaroeng**. Renoprotective effect of *Spirogyra neglecta* extract in type 2 diabetic rats. *The 2nd Phayao Research Conference*. Jan 17th-18th, 2013.
31. Teerawat Rattanapot, **Chutima Srimaroeng**, Kriangsak Mengumphan and Dounporn Amornlerdpison. Effects of Spirogyra sp. Supplement on Antioxidant System in Nile Tilapia. *The 6th National Conference on algae and plankton (NCAP)*. March 28th-30th, 2013.
32. Dounporn Amornlerdpison, Teerawat Rattanapot, **Chutima Srimaroeng**, and Kriangsak Mengumphan. Effects of Spirogyra Supplement on Oxidative Defense in Nile Tilapia. *International Conference on Interdisciplinary Research and Development in ASEAN Universities*. August 8th-10th, 2013.
33. Chaliya Jaiyen, Promsuk Jutabha, Naohiko Anzai, and **Chutima Srimaroeng**. Interaction of green tea catechins with renal organic cation transport in rats. *The 129th Kanto regional meeting of the Japanese Pharmacological Society*. October 19th, 2013.
34. Narissara Lailerd, Dounporn Amornlerdpison, **Chutima Srimaroeng**, Anusorn Lungkaphin, Nattinee Jitprawet, Sopida Apichai, Waranya Keapai, and Anchalee Pongchaidacha. Mechanisms of antihyperglycemic effects of the aqueous extract of *Spirogyra neglecta* in type2 diabetic rat model. *APCAB 2012*.
35. **Chutima Srimaroeng***, Atcharaporn Ontawong, Manunya Arjinacharn, Narissara Lailerd, Anchalee Pongchaidecha, Anusorn Lungkaphin and Pornpun Vivithanaporn. The beneficial effects of *Spirogyra neglecta* extract on renal transport function in high-fat diet induced Diabetic type II rats. *Drug Metabolism Reviews*. 2011, 43(S1): 87.
36. Dounporn Amornlerdpison, Narissara Lailerd, Anchalee Pongchaidacha, **Chutima Srimaroeng**, Rattanaporn Junthip, Teerawat Ratanapot, and Kriangsak Mengumphan. Anti-hyperlipidemic activity of crude oil from Mekhong giant catfish (*Pangasinodon gigas*). *The Forth International Fisheries Conference*. Dec 1st-2nd, 2011.
37. Anusorn Lungkaphin, **Chutima Srimaroeng** and Varanuj Chatsudthipong. Functional impairment of basolateral renal organic anion transporters in experimental diabetes in mice. *Drug Metabolism Reviews*. 2009, a special supplemental issue.
38. Paranee Meetam, **Chutima Srimaroeng**, Sunhapas Soodvilai, Titiwat Sungkaworn and Varanuj Chatsudthipong. Regulatory role of sex hormones on organic cation transport: in vivo and in vitro studies. *Drug Metabolism Reviews*. 2009, a special supplemental issue.

39. **Chutima Srimaroeng***, Anusorn Lungkaphin and Narissara Lailerd. Basic and applied research perspectives in Physiology. *Chiang Mai Medical Journal*. 2009, 48 (3 suppl): 3-4.
40. J. L. Perry, **C. Srimaroeng**, N. Dembla-Rajpal, L. A. Hall, and J. B. Pritchard, "Probing the Binding Cavity of Human Organic Anion Transporters 1 and 3 by Computational Modeling and Experimental Mutations," *Research Triangle Park Drug Metabolism Discussion Group Winter Symposium*, 2007, Research Triangle Park, NC.
41. **C. Srimaroeng**, J.L. Perry, R. Walden and J.B. Pritchard. "Regulation of organic anion transporter 3 expression and function by membrane lipid raft-associated proteins and cytoskeletons," *FASEB J*. 2007 21:758.2.
42. Deborah M. Thompson, **Chutima Srimaroeng**, Shannon L. Dallas, Ramsey Walden, David S. Miller, and John B. Pritchard. Functional characterization of human organic anion transporter 4 (hOAT4) in a Baculovirus expression system *FASEB J*. 2007 21:758.1.
43. J.L. Perry, **C. Srimaroeng**, N. Dembla-Rajpal, L.A. Hall and J.B. Pritchard. "Substrate specificity in a model of the human organic anion transporter 3," *FASEB J*. 2007 21:758.7.
44. **Chutima Srimaroeng**, Jennifer L. Perry and John B. Pritchard. Regulation of OAT3 expression and function by membrane lipid raft-associated proteins and microtubules. *The Forth Annual NIEHS Science Awards day*. Nov 11th, 2006 Abstracts: 72.
45. **C. Srimaroeng**, V. Chatsudthipong, J. B. Pritchard. Mechanisms of Steviol Transport by Human Organic Anion Transporters 1 and 3 (hOAT1 and 3). *The American Society For Cell Biology 43rd 2003 Annual Meeting*. Late Abstracts: L221.
46. Chatsudthipong. V., **Srimaroeng, C.**, Kaewmukul, S., Lungkahin, A., Jutabha, P., Endou, H. Natural sweetener metabolite (steviol) and renal transporter. *The 9th Southeast Asian-Western Pacific Regional Meeting of Pharmacologist*. 2003, Busan, Korea, S-54.
47. **Srimaroeng C**, Babu E., Endou H., Chatsudthipong V. The Interaction of Steviol with Cloned Human Organic Anion Transporter 1 and 3 Expressed in *Xenopus Laevis* Oocytes and Renal S2 Cells. *RGJ - Ph.D. Congress III 2002*. Abstract: 137.
48. Chatsudthipong, V., **Srimaroeng, C.** and Endou, H. The interaction of steviol with cloned human organic anion transporter 1 and 3 expressed in *Xenopus Laevis* Oocytes and Renal S₂ cells. *IUPS Journal*. 2000

CONFERENCE SHORT PAPERS AND ABSTRACTS

1. Atcharaporn Ontawong, Tiphthida Pasachan, Sunhapas Soodvilai, Acharaporn Duangjai, Anchalee Pongchaidecha, Doungporn Amornlerdpison and **Chutima Srimareong**. Effect of coffee pulp aqueous extract against lipid accumulation in human hepatocellular carcinoma (HepG2) cells. *Proceeding to the 30th Annual Meeting of the Thai Society for Biotechnology and International Conference*. November 22nd-23rd, 2018, Ambassador Hotel, Bangkok, Thailand.
2. Tiphthida Pasachan, Atcharaporn Ontawong, Sunhapas Soodvilai, Acharaporn Duangjai, Anchalee Pongchaidecha, Doungporn Amornlerdpison and **Chutima Srimareong**. Tiliacora triandra (Colebr.) Diels reduces lipid accumulation in hepatocellular carcinoma (HepG2) cells. *Proceeding to the 30th Annual Meeting of the Thai Society for Biotechnology and International Conference*. November 22nd-23rd, 2018, Ambassador Hotel, Bangkok, Thailand.

3. Tiphthida Pasachan, Atcharaporn Ontawong, Acharaporn Duangjai, Oranit Boonphang, Anchalee Pongchaidecha, Dounporn Amornlerdpison and **Chutima Srimareong**. Tiliacora triandra (Colebr.) Diels reduces lipid accumulation in hepatocellular carcinoma (HepG2) cells. *Proceeding to the 6th National and International Conference 2018 (CASNIC 2018) "Blockchain in Education: The New Challenge for Academy Reform"*. October 5th, 2018, College of Asian Scholars, Khon Kaen, Thailand.
4. Kungsadal Sirijariyawat, Atcharaporn Ontawong, Siripong Palee, Savitree Thummasorn, Chayodom Maneechote, Varanuj Chatsudthipong, Nipon, Chattipakorn, and **Chutima Srimaroeng**. Impairment of renal transport function mediated by oxidative stress in acute myocardial ischemic injury in rats. *Proceeding to The First International Conference on Innovation of Functional Foods in Asia (IFFA 2018)*. 22nd – 24th January, 2018, University of Phayao, Phayao, Thailand.
5. Jutatip Kaewmalee, Atcharaporn Ontawong, Tiphthida Pasachan, Acharaporn Duangjai, Patima Phainuphong, Vatcharin Rukachaisirikul, Chatchai Muanprasat, and **Chutima Srimareong**. Lovastatin extracted from *A. sclerotiorum* PSU-RSPG178 ameliorates hepatic glucose production, insulin resistance, and hepatic steatosis in obese insulin resistance rats. *Proceeding to The First International Conference on Innovation of Functional Foods in Asia (IFFA 2018)*. 22nd – 24th January, 2018, University of Phayao, Phayao, Thailand.
6. Oranit Boonphang, Atcharaporn Ontawong, Anchalee Pongchaidecha, Tiphthida Pasachan, Acharaporn Duangjai, and **Chutima Srimaroeng**. Effect of Metformin on Renal Organic Cation and Anion Transport Functions in Type 2 Diabetic Rats. *Proceeding to International Graduate Research Conference (iGRC)*, December 11th, 2015, Chiang Mai, Thailand.
7. Chaliya Jaiyen, Promsuk Jutabha, Naohiko Anzai and **Chutima Srimaroeng**. Interaction of green tea catechins with renal organic cation transporter 2. *Proceeding to International Graduate Research Conference (iGRC)*, December 12, 2014, Chiang Mai, Thailand.
8. Metee Jinakote, Atcharaporn Ontawong, **Chutima Srimaroeng**. Transport of Fluorescence 4-(4-(dimethylamino) styryl)-*N*-methyl-pyridinium (ASP⁺) into Human Hepatocellular Carcinoma (HepG2) cell line: A model for the Assessment of Organic Cation Transporter Function. *Proceeding to International Graduate Research Conference (iGRC)*, December 12, 2014, Chiang Mai, Thailand.
9. Phatchawan Arjinajarn, **Chutima Srimaroeng**, Anusorn Lungkaphin. Impairment of Renal Organic Anion Transporter 3 (Oat3) Function in Diabetic Rats. *Proceeding to The First ASEAN Plus Three Graduate Research Congress (AGRC)*, Chiang Mai, Thailand. March 2011.
10. Atcharaporn Ontawong, Phatchawan Arjinajarn, Anchalee Pongchaidecha, Naruwan Saowakon, Pornpun Vivithanaporn, Anusorn Lungkaphin, Narissara Lailerd, Dounporn Amonlerdpison, and **Chutima Srimaroeng**. *Spirogyra neglecta* Extract Attenuates Hyperglycemia-induced Oxidative Stress in Type 2 Diabetic Rat Kidneys. *Proceeding to The First ASEAN Plus Three Graduate Research Congress (AGRC)*, Chiang Mai, Thailand. March 2011.

INVITED REVIEW ARTICLES:

-

1. **C. Srimaroeng**, J.L. Perry, and J.B. Pritchard. Physiology, Structure, and Regulation of the Cloned Organic Anion Transporters. *Xenobiotica*. 2008, 38(7): 889-935.

RESEARCH FIELDS OF INTEREST

1. Renal Physiology
2. Cellular and Molecular Mechanisms of Epithelial Transport
3. Gastrointestinal lipid transport and metabolism
4. Hepatocellular lipid transport and metabolism
5. Drug transporter functions and regulations
6. Pharmacokinetic and Drug metabolism: Phase III
7. Natural products, potential use, and adverse effects