### **CURRICULUM VITAE**

### Mr. Thitianan Kulsirirat

### Ph.D. in Pharmaceutics

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24110, Thailand

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### **Education qualification**

2016-2020	DOCTOR OF PHILOSOPHY (PHARMACEUTICS, International Program)	
	Faculty of Pharmacy, Mahidol University, Thailand	
	Thesis Title: "The study of medical and pharmacokinetic potential of Thai herbal	
	extracts on differentiation of stem cells aiming for regenerative medicine"	
2013-2016	MASTER OF SCIENCE IN PHARMACY (PHARMACEUTICS,	
	International Program)	
	Faculty of Pharmacy, Mahidol University, Thailand Thesis Title: "Effect of	
	Polysorbates (Tween) against drug transport on human epidermal keratinocyte	
	cell"	
2008-2013	DACHELOD DECDEE OF DILADMACY (Honord)	
2008-2013	BACHELOR DEGREE OF PHARMACY (Honors)	
	Faculty of Pharmacy, Huachiew Chalermprakiet University, Thailand	
	B. Pharm Project: "Effects of dry binders on the mechanical and disintegration	
	properties of nava-kote tablets"	

## **Research/Teaching experiences**

Feb 2021 – Feb 2023	Post-doctoral fellowship	
(2 years)	Faculty of Pharmacy, Mahidol University, Thailand	
	Supervisor: Assoc Prof. Dr. Korbtham Sathirakul	
Jan 2019- Jan 2020	Visiting scholar	
(1 year)	Laboratory of drug delivery systems, Faculty of Pharmaceutical	
	Sciences, Kobe Gakuin University, Japan	
	Supervisor: Prof. Dr. Mariko Takeda-Morishita	
Jan 2018, 2020 – 2021	Special instructor	
(3 years)	Pharmacology at Boromarajonani College of Nursing	
2015 – 2023	Special project (co-advisor)	
(8 years)	Faculty of Pharmacy Srinakharinwirot University and Mahidol	
	University	

## Awards/ Honors and Scholarship

2021 - 2023	Funding from Health Systems Research Institute (HSRI64–043), Thailand.			
	Title: The development of innovative treatment using polymeric targetable drug			
	delivery system for Thai medicinal herb ingredients to stem cells with the			
	pharmacokinetics and pharmacodynamics principle			
2022	Oral Presentation for the Distinguished Thesis Awards, Fiscal Year 2022			
	Category: Biological Sciences			
	Faculty of Graduate Studies, Mahidol University			
	Title: The study of medical and pharmacokinetic potential of Thai herbal extracts			
	on differentiation of stem cells aiming for regenerative medicine			
2019	3 <sup>rd</sup> Prize winner Innovative Idea Competition of Thai Students' Association			
	in Japan under the Royal Patronage: TSAJ, Tokyo, Japan			
	Title: The development of drug delivery system providers for geriatric care in			
	Japan			
2019	Most Awesome Award Presentation PK Summer Boot Camp			
	RIKEN, Yokohama, Japan			
2016 - 2019	The Royal Golden Jubilee Ph.D. Programme (RGJ) Scholarship			
	Title: The study of medical and pharmacokinetic potential of Thai herbal extracts			
	on differentiation of stem cells aiming for regenerative medicine			
2015	Certificate of Honor and Appreciation Awarded Princess Maha Chakri			
	Sirindhorn Congress International approach to sustainable research and			
	development			
2015	Certificate of award on the 1 <sup>st</sup> International Conference on Pharmacy			
	Education and Research Network of ASEAN (ASEAN PHARMNET I)			
	Title: Pgp-GLO™ Assay Systems: A tool for high-throughtput screening to			
	predict biopharmaceutics of non-ionic surfactant			
2013	The 60 <sup>th</sup> Year Supreme Reign of His Majesty King Bhumibol Adulyadej			
	Scholarship			
	Faculty of Graduate Studies, Mahidol University			
2013	Certificate of award on Special project of Pharmaceutical Science			
	Title: Effects of dry binders on the mechanical and disintegration properties of			
	nava-kote tablets			

## Professional society membership

- Graduate Studies of Mahidol University Alumni
- Japan Society of Drug Delivery system

#### **Skills**

- Cell-based study
- Primary cell, Mesenchymal stem cell, Cancer cell, Normal cell etc.
- *In vitro* permeation study e.g., Intestinal epithelial barrier; Caco-2, Transdermal cell lines; HEKn, Synovial membrane cell lines; SW-982, Respiratory cell lines; RPMI 2650 and 16HBE14o-.
- Development of drug delivery system based on controlled and sustained release formulations.
- Development of drug delivery system based on micro and nano-encapsulation technologies.
  - PLGA nanoparticles using emulsion-solvent evaporation technique
- Particle characterization including size, and zeta potential
- Real Time PCR
- Quantitative and qualitative analysis using high performance liquid chromatography
- In Vivo imaging system.
- Pharmacokinetic data analysis and simulation.

### **Publications and Academic presentation**

#### **Guest Speaker:**

 The Academy of Pharmaceutical Science and Technology, Kobe Gakuin University, Japan. 6 February 2019

Title: Possible using of the molecule from Thai herbal extract on the differentiation of mesenchymal stem cells aiming for regenerative medicine

2. Drug Discovery and Development, Miracle Grand Convention Hotel, Bangkok, Thailand. 25-27 December 2017

Title: Classification of drug molecules with ADMET concept in drug permeability studies.

## **Oral Presentations:**

Titles	Year	
1. T. Kulsirirat, K. Sathirakul.	2022	
Title: The study of medical and pharmacokinetic potential of Thai herbal extracts		
on differentiation of stem cells aiming for regenerative medicine		
Distinguished Thesis Awards, Fiscal Year 2022, Faculty of Graduate Studies,		
Mahidol University		
2. T. Kulsirirat, K. Sathirakul, N. Kamei, Takeda-Morishita M.,	2021	
Title: Design and development of a novel Andrographolide formulation for intra-		
articular drug delivery systems. 2021 CSPS/PSJ/CC-CRS SYMPOSIUM		
Pharmaceutical Sciences in a Pandemic World, Canada. (online).		
3. <i>T. Kulsirirat</i> , Y. Takahashi, K. Sathirakul, N. Kamei, Takeda-Morishita M.,	2020	
Title: Design and development of Andrographolide for intra-articular drug delivery		
systems. The 36 <sup>th</sup> Annual meeting of the Japan Society of Drug Delivery System,		
Kobe, Japan.		
4. <i>T. Kulsirirat</i> , K. Sathirakul., S. Honsawek, P. Rugthong., Takeda-Morishita M.,	2019	
Title: The study of controlled/sustained release formulation for Thai herbal extract		
to improve delivery and extend residence time of joint disease therapy aiming for		
regenerative medicine. The 35 <sup>th</sup> Annual meeting of the Japan Society of Drug		
Delivery System, Yokohama, Japan.		
5. T. Kulsirirat, S. Honsawek, Takeda-Morishita M., K. Sathirakul.	2019	
Title: Advanced therapeutics promising of the Thai herbal extract molecule on the		
differentiation of mesenchymal stem cells aiming for regenerative medicine. RGJ-		
University Forum. Bangkok, Thailand.		
6. T. Kulsirirat, K. Sathirakul.	2015	
Title: High-Throughtput Screening Prediction for Biopharmaceutics of Non-ionic		
Surfactant Using Pgp-Glo™ Assay Systems. Princess Maha Chakri Sirindhorn		
Congress (The 5 <sup>th</sup> Interdisciplinary Day Conference) Interdisciplinary Approach to		
Sustainable Research and Development. IMPACT Forum, IMPACT, Muang		
Thong Thani, Nonthaburi, Thailand.		

## **Poster Presentations:**

Titles	Year
1. N. Sowankul, N. Thanusorn, K. Sathirakul, P. Ruenraroengsak, J.	2023
Leanpolchareanchai, J. Romsaiyud, T. Kulsirirat	
Title: The study of physicochemical properties, toxicity, and biopharmaceutics of	
highly aqueous soluble Andrographolide nanoparticles developed in house in order	
to evaluate the possibility for respiratory tract targeting as nasal nebulizer.	
Faculty of Pharmacy, Mahidol University.	
2. T. Kulsirirat, S. Honsawek, Takeda-Morishita M., K. Sathirakul.	2021
Title: The Development of Polymeric Drug Delivery System to Target Active	
Ingredient in Thai Medicinal Herb Administered Intra-articularly to Regulate	
Mesenchymal Stem Cells for Regenerative Medicine. The 2021 National RGJ and	
RRI Conferences.	
3. S. Boonyuen, T. Phromsatit, P. Arpornmaeklong, Y. Shirosaki,	2020
T.Teerawatananond, <i>T Kulsirirat</i> , K.Sathirakul, J. Rabablert.	
Title: In Vitro Cytotoxicity Study of Copper and Gold Porphyrin Complexes,	
PACCON 2020, IMPACT Forum, Mauangthong Thani, Bangkok, Thailand.	
4. T. Phromsatit, S. Boonyuen, <i>T Kulsirirat</i> , K.Sathirakul.,	2019
Title: Synthesis, and cytotoxicity study of Cu (II) tetrakis(4-alkyloxy) phenyl	
porphyrin complexes, PACCON 2019, Bangkok International Trade & Exhibition	
Centre (BITEC), 7-8 February, 2019 Bangkok, Thailand	
5. T. Kulsirirat, K. Sathirakul.,	2015
Title: Pgp-GLO <sup>TM</sup> Assay Systems: A tool for high-throughtput screening to predict	
biopharmaceutics of non-ionic surfactant, The 1st International Conference on	
Pharmacy Education and Research Network of ASEAN Harmonizing the Diversity	
of Pharmacy Profession in the Era of AEC (ASEAN PHARM NET I), Bangkok,	
Thailand	
6. B. Nimprayoon, P. Rukthong, P.Dechwongya, S. limpisood <i>T. Kulsirirat</i> , K.	2014
Sathirakul.,	
Title: <i>In Silico</i> Biopharmaceutics of α-Mangostin Garcinia mangostana L. Pericarp	
Extract, The 3 <sup>rd</sup> Scientific Program Current Drug Development International	
Conference (CDD 2014) Ao Nang Beach Resort, Ao Nang, Krabi, Thailand	

## **Proceeding:**

201 C. Jitsongserm, J. Bonyapichest, K. Sathirakul, S. Limpisood, <i>T.Kulsirirat</i> , N. Boonnak, P. Buranatrakul, A.W. Salae, P. Rukthong., Citle: <i>IN SILICO</i> AND <i>IN VITRO</i> STUDIES INDICATE THE SOLUBILITY AND PERMEABILITY PROPERTIES OF CURCUMIN. The 5 <sup>th</sup> international Conference on Drug Development (CDD 2018) and 3 <sup>rd</sup> international on Herb and Craditional Medicine (HTM 2018), 165-166. May 23-25 Songkhla, Thailand C. P. Lertpatipanpong, T.Pupen, K.Sathirakul, C.Krisanapun, S. Limpisood, S. Ceethochawalit, <i>T.Kulsirirat</i> , P.Buranatrakul, P. Rakthong., Citle: DEVELOPMENT OF PHARMACOKINETIC MODEL OF EZETIMIBE USING COMPUTER SIMULATIONS. The 5 <sup>th</sup> international Conference on Drug Development (CDD 2018) and 3 <sup>rd</sup> international on Herb and Traditional Medicine HTM 2018), 142-144. May 23-25 Songkhla Thailand
Citle: IN SILICO AND IN VITRO STUDIES INDICATE THE SOLUBILITY AND PERMEABILITY PROPERTIES OF CURCUMIN. The 5 <sup>th</sup> international Conference on Drug Development (CDD 2018) and 3 <sup>rd</sup> international on Herb and Craditional Medicine (HTM 2018), 165-166. May 23-25 Songkhla, Thailand C. P. Lertpatipanpong, T.Pupen, K.Sathirakul, C.Krisanapun, S. Limpisood, S. Ceethochawalit, T.Kulsirirat, P.Buranatrakul, P. Rakthong., Citle: DEVELOPMENT OF PHARMACOKINETIC MODEL OF EZETIMIBE USING COMPUTER SIMULATIONS. The 5 <sup>th</sup> international Conference on Drug Development (CDD 2018) and 3 <sup>rd</sup> international on Herb and Traditional Medicine
AND PERMEABILITY PROPERTIES OF CURCUMIN. The 5 <sup>th</sup> international Conference on Drug Development (CDD 2018) and 3 <sup>rd</sup> international on Herb and Craditional Medicine (HTM 2018), 165-166. May 23-25 Songkhla, Thailand P. P. Lertpatipanpong, T.Pupen, K.Sathirakul, C.Krisanapun, S. Limpisood, S. Leethochawalit, <i>T.Kulsirirat</i> , P.Buranatrakul, P. Rakthong., Citle: DEVELOPMENT OF PHARMACOKINETIC MODEL OF EZETIMIBE USING COMPUTER SIMULATIONS. The 5 <sup>th</sup> international Conference on Drug Development (CDD 2018) and 3 <sup>rd</sup> international on Herb and Traditional Medicine
Conference on Drug Development (CDD 2018) and 3 <sup>rd</sup> international on Herb and Craditional Medicine (HTM 2018), 165-166. May 23-25 Songkhla, Thailand P. P. Lertpatipanpong, T.Pupen, K.Sathirakul, C.Krisanapun, S. Limpisood, S. Leethochawalit, <i>T.Kulsirirat</i> , P.Buranatrakul, P. Rakthong., Citle: DEVELOPMENT OF PHARMACOKINETIC MODEL OF EZETIMIBE USING COMPUTER SIMULATIONS. The 5 <sup>th</sup> international Conference on Drug Development (CDD 2018) and 3 <sup>rd</sup> international on Herb and Traditional Medicine
Craditional Medicine (HTM 2018), 165-166. May 23-25 Songkhla, Thailand  Development (CDD 2018) and 3 <sup>rd</sup> international on Herb and Traditional Medicine  Craditional Medicine (HTM 2018), 165-166. May 23-25 Songkhla, Thailand  201  201  201  201  201  201  201  20
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Leethochawalit, <i>T.Kulsirirat</i> , P.Buranatrakul, P. Rakthong.,  Citle: DEVELOPMENT OF PHARMACOKINETIC MODEL OF EZETIMIBE  USING COMPUTER SIMULATIONS. The 5 <sup>th</sup> international Conference on Drug  Development (CDD 2018) and 3 <sup>rd</sup> international on Herb and Traditional Medicine
Citle: DEVELOPMENT OF PHARMACOKINETIC MODEL OF EZETIMIBE USING COMPUTER SIMULATIONS. The 5 <sup>th</sup> international Conference on Drug Development (CDD 2018) and 3 <sup>rd</sup> international on Herb and Traditional Medicine
USING COMPUTER SIMULATIONS. The 5 <sup>th</sup> international Conference on Drug Development (CDD 2018) and 3 <sup>rd</sup> international on Herb and Traditional Medicine
Development (CDD 2018) and 3 <sup>rd</sup> international on Herb and Traditional Medicine
HTM 2018), 142-144, May 23-25 Songkhla Thailand
2010), 112 111111111111111111111111111111111
P.Phonboon, K.Sathirakul, C. Krisanapun S.Limpisood, <i>T.Kulsirirat</i> , 201
Leethochawalit, P.Buranatrakul, P. Rukthong.,
Title: THE DEVELOPMENT OF WARFARIN PHARMACOKINETICS AND
PHARMACODYNAMICS MODEL TO PREDICT INR VALUE USING
COMPUTER SIMULATIONS. The 5 <sup>th</sup> international Conference on Drug
Development (CDD 2018) and 3 <sup>rd</sup> international on Herb and Traditional Medicine
HTM 2018), 146-147. May 23-25 Songkhla Thailand.
T. Kulsirirat, P. Rukthong, P.Dechwongya, K.Sathirakul.
Citle: The optimum concentration of non-ionic surfactant for improvement of drug
ransport using high-throughput screening method. The JSPS-NRCT Follow-Up
deminar 2017 and 33 <sup>rd</sup> International Annual Meeting in Pharmaceutical Sciences
JSPS-NRCT 2017 AND IAMPS 33). March 2-3, 2017, The Berkeley Hotel
Pratunam, Bangkok, Thailand.
K. Methaset, K.Sathirakul, S.Limpisood, <i>T.Kulsirirat</i> , S.Leethochawalit, N. <b>201</b>
Chulsom, P. Rukthong
Citle: Pharmacokinetic Modeling to Predict the Phenytoin Level in Blood by Using
ELLA Program. Proceeding for the 4 <sup>th</sup> Current Drug Development International
Conference 2016 (CDD2016), Phuket Graceland Resort & Spa, Patong Beach,
Phuket, Thailand.

6. T. Kulsirirat, C. Lorpongpaiboon, K. Hammaworachat, S. Kasemsuwan, S.	2012
Channarong.	
Title: Effects of dry binders on the mechanical and disintegration properties of	
Nava-Kote tablets. Thai Journal of Pharmaceutical Sciences (TJPS), 2012,	ı
36(SUPPL.), pp. 128–131.	

## **International Publications:**

Titles	Participation	Year
1. Kuendee, N., Naladta, A., Kulsirirat, T., Yimsoo, T.,	Author	2023
Yingmema, W., Pansuksan, K., Sathirakul, K.,		
Sukprasert, S. Lysiphyllum strychnifolium (Craib) A.		
Schmitz Extracts Moderate the Expression of Drug-		
Metabolizing Enzymes: In Vivo Study to Clinical		
Propose. Pharmaceuticals 2023, 16, 237.		
https://doi.org/10.3390/ph16020237 (Impact Factor:		
5.215, Q1/2021)		
2. Woottisin, N., Sukprasert, S., Kulsirirat, T., Tharavanij,	Author	2022
T., Sathirakul, K. Evaluation of the Intestinal		
Permeability of Rosmarinic Acid from Thunbergia		
laurifolia Leaf Water Extract in a Caco-2 Cell Model.		
Molecules 2022, 27(12), 3884;		
https://doi.org/10.3390/molecules27123884. (Impact		
Factor: 4.927, Q1/2021); citations 3		
3. Kulsirirat T., Sathirakul K., Kamei N., Takeda-	First author	2021
Morishita M. The in vitro and in vivo study of novel		
formulation of andrographolide PLGA nanoparticle		
embedded into gelatin-based hydrogel to prolong		
delivery and extend residence time in joint.		
Int. J. Pharm. 2021, 602 120618		
https://doi.org/10.1016/j.ijpharm.2021.120618. (Impact		
Factor: 6.51, Top 10% Q1/2021); citations 13		
4. Kulsirirat, T., Honsawek, S., Takeda-Morishita, M.,	First author	2021
Sinchaipanid, N., Udomsinprasert, W.,		

	Lannalaharaanahai I Sathirakul V The Effects of		
	Leanpolchareanchai, J., Sathirakul, K. The Effects of		
	Andrographolide on the Enhancement of		
	Chondrogenesis and Osteogenesis in Human		
	Suprapatellar Fat Pad Derived Mesenchymal Stem Cells.		
	Molecules 2021, 26(7), 1831;		
	https://doi.org/10.3390/molecules26071831. (Impact		
	Factor: 4.927, Q1/2021); citations 8		
5.	Rukthong, P., Sereesongsang, N., <i>Kulsirirat, T.</i> et al. <i>In</i>	Author	2020
	<i>vitro</i> investigation of metabolic fate of $\alpha$ -mangostin and		
	gartanin via skin permeation by LC-MS/MS and in silico		
	evaluation of the metabolites by ADMET predictor $^{\text{TM}}$ .		
	BMC Complement Med Ther 2020, 20, 359.;		
	https://doi.org/10.1186/s12906-020-03144-7 (Impact		
	Factor:2.838, Q1/2021); citations 3		
6.	Dechwongya, P., Limpisood, S., Boonnak, N.,	Author	2020
	Mangmool, S., Takeda-Morishita, M., Kulsirirat, T.,		
	Rukthong, P., Sathirakul, K. The Intestinal Efflux		
	Transporter Inhibition Activity of Xanthones from		
	Mangosteen Pericarp: An In Silico,		
	In Vitro and Ex Vivo Approach. Molecules 2020, 25(24),		
	5877; https://doi.org/10.3390/molecules25245877.		
	(Impact Factor: 4.927, Q1/2021); citations 2		
7.	Kulsirirat T., Rukthong P., Dechwongya P. and	First author	2017
	Sathirakul K. The Potential of Non-Ionic Surfactant		
	Against P-Glycoprotein Efflux Transporters for Drug		
	Development System. J Bioequiv Availab 2017, 9:528-		
	529. DOI: 10.4172/jbb.1000357		
8.	Rukthong P., Sereesongsang N., <i>Kulsirirat T.</i> ,	Author	2017
	Nimprayoon B., Sathirakul K. Effect of α-mangostin on		
	Enhanced Transdermal Bioavailability of Gartanin via		
	Efflux Transporters. J Bioequiv Availab 2017, 9:455-		
	462. DOI: 10.4172/jbb.1000344		
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#### **Academic Article**

ทฤษฎีและการปฏิบัติการศึกษาการซึมผ่าน (Permeation) ในหลอดทดลองเพื่อใช้จำแนกยาตาม เกณฑ์บีซีเอส สมาคมเภสัชกรอุตสาหการ (ประเทศไทย) มิถุนายน 2018

### Completed research project

1. The development of innovative treatment using polymeric targetable drug delivery system for Thai medicinal herb ingredients to stem cells with the pharmacokinetics and pharmacodynamics principle.

From Health Systems Research Institute (HSRI 64-043)

### **Current activity (Ongoing granted research)**

- 1. Identification and characterization of specific biomarkers expressed in exosomes in breast cancer patients in Thailand
- 2. Immunomodulatory activity of vitamin D 3 and Lysiphyllum strychnifolium Craib) A. Schmitz extract: *in vivo* study to clinical outcome in colorectal cancer

### **Upcoming granted research (October 2023)**

1. The development of highly water soluble Fa thalai chon nano-formulation and evaluation of pharmaceutical and biopharmaceutical of the formulation delivered through respiratory system for treatment and alleviate the infection and inflammation by simulating pharmacokinetics and therapeutic outcomes in virtual experimental animals and humans to assist in the selection of effective and safe drug formulas and dosage regimen

# **Training & Professional Development**

TOPIC	INSTITUTE	DATE
Real time PCR	3N Training Center, Gibthai	April 2023
	company	
High-Throughput Screening	Faculty of Medicine,	August 2022
for Biomarker Discovery	Srinakharinwirot University	
using MILLIPLEX® multiplex		
immunoassay technology		
การประชุมวิชาการเภสัช	Faculty of Pharmacy, Mahidol	November 2021
อุตสาหกรรม ครั้งที่ 14 (The 14 <sup>th</sup>	University	
Industrial Pharmaceutical		
Technology Conference) เรื่อง		
แนวทางการพัฒนาและการขึ้น		
ทะเบียนผลิตภัณฑ์สมุนไพร		
(Online)		
การประชุมวิชาการวิทยาศาสตร์	กรมวิทยาศาสตร์การแพทย์	August 2021
การแพทย์ ครั้งที่ 29 ประจำปี		
งบประมาณ 2564 (Online)		
โครงการประชุมวิชาการ เรื่อง	Faculty of Pharmacy,	August 2021
การบริหารจัดการระบบลูกโซ่	Huachiew chalermprakiet	
ความเย็นและการติดตามอาการ	University	
ไม่พึ่งประสงค์หลังฉีดวัคซีนโค		
วิด-19 ในศูนย์บริการฉีดวัคซีน		
มหาวิทยาลัยหัวเฉียวเฉลิมพระ		
เกียรติ (Online)		
Complementary Medicines in	Faculty of Pharmacy,	October 2020
Pharmacy Practices	Huachiew chalermprakiet	
	University	

Scientific approaches to	Faculty Pharmaceutical	September 2020
bioequivalence testing	Sciences,	
requirements for generic	Prince of Songkla University	
drugs		
Advances in Natural Products	Faculty of Pharmacy,	September 2020
and Cosmeceuticals for Anti-	Thammasat University	
aging		
The First Asian	Faculty of Pharmacy, Mahidol	November 2019
Pharmacometric Network	University	
(APN) Symposium		
PK Summer Boot Camp 2019	RIKEN Yokohama Campus,	September 2019
	Japan	
Pharmacy HCU Reunion2019	Faculty of Pharmacy,	January 2019
เรื่อง Modern Pharmacy 4.0	Huachiew chalermprakiet	
	University	
าารอบรมจริยธรรมการวิจัยใน	Center of Ethical	October 2018
คน สำหรับการวิจัยทางชีว	Reinforcement for Research,	
การแพทย์ รุ่นที่ 3/2561 (Human	Mahidol University	
subject protection in		
biomedical research		
No.3/2018 )		
The 13th Industrial	Faculty of Pharmacy, Mahidol	July 2018
Pharmaceutical Technology	University	
Conference เรื่อง วิทยาการ		
ก้าวหน้าของสารช่วยทางเภสัช		
กรรมและวัสดุบรรจุ		
สหวิทยาการเพื่อการวิจัยค้นคว้า	Drug Discovery and	December 2017
	Davidanment center	
และพัฒนาวัตนกรรมยาใหม่สู่	Development center,	

การอบรมขอรับใบอนุญาตใช้	Institute of Animals for	August 2017
สัตว์ทดลอง	Scientific Purposes	
	Development (IAD)	
การอบรมเชิงปฏิบัติการ " Cell	Institute of Molecular	August 2017
Technology I "	Biosciences (MB), Mahidol	
	University	
Current topics of	Faculty of Pharmacy, Burapha	August 2017
bioequivalence studies of	University	
generic drugs in humans and		
biosimilars		
JSPS-NRCT Follow-Up 2017	Faculty of Pharmacy,	March 2017
และประชุมวิจัยนานาชาติทาง	Chulalongkorn University	
เภสัชศาสตร์ ประจำปี 2560 ครั้ง		
ที่ 33 "ความก้าวหน้าด้านเภสัช		
ศาสตร์จากงานวิจัยพื้นฐานสู่		
งานวิจัยประยุกต์"		
การอบรมเชิงปฏิบัติการด้าน	Faculty of Pharmacy, Mahidol	January 2017
ความปลอดภัยในการใช้	University	
ห้องปฏิบัติการวิทยาศาสตร์		
การอบรมความปลอดภัยทาง	Faculty of Pharmacy, Mahidol	January 2017
ชีวภาพ ระดับทฤษฎี	University	
3 <sup>rd</sup> CU-NIPS Symposium:	Faculty of Pharmacy,	January 2017
"Neuroscience meets cancer	Chulalongkorn University	
biology for a better life"		
Rapid Label Free Detection	Drug Discovery and	October 2016
of Molecular Binding using	Development center,	
Surface Plasmon Resonance	Thammasat University	
imaging (SPRi) for		
Biopharmaceutical		

Good Manufacturing Practice	THAI INDUSTRIAL	September 2016
- Pharmaceutical Inspection	PHARMACIST ASSOCIATION	
Co-Operation Scheme (GMP-	(TIPA)	
PIC/S)		
The 12 <sup>th</sup> Industrial	Faculty of Pharmacy, Mahidol	July 2016
Pharmaceutical Technology	University	
Conference เรื่อง การพัฒนา		
เภสัชภัณฑ์		
Physiologically-based	Faculty of Pharmacy,	June 2016
Pharmacokinetics (PBPK)	Chulalongkorn University	
and Pharmacodynamics:		
Principles and applications to		
drug development		
บูรณาการวิทยาการทางเภสัช	Faculty of Pharmacy,	April 2016
ศาสตร์เพื่อสุขภาพประชาชน	Thammasat University	
การฟื้นฟูข้อกำหนด	Faculty of Pharmacy, Mahidol	February 2016
ISO/IEC 17025:2005	University	
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- 2. The Petroleum and Petrochemical College, Chulalongkorn University
- 3. Siriraj Institute of Clinical Research
- 4. Chulabhorn Internation College of Medicine, Thammasat University
- 5. Drug Discovery and Development center, Thammasat University
- 6. Faculty of Pharmaceutical Sciences Huachiew Chalermprakiet University
- 7. Faculty of Pharmacy, Thammasat University
- 8. Faculty of Pharmacy, Burapha University
- 9. Faculty of Pharmacy, Srinakharinwirot University
- 10. School of Pharmaceutical Sciences; University of Phayao
- 11. Faculty of Pharmaceutical Sciences, Kobe Gakuin University
- 12. School of Integrative Medicine, Mae Fah Luang University

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