

# CURRICULUM VITAE

## Pornchai Rojsitthisak, Ph.D.



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### EDUCATION

1997-2002 Ph.D. (Pharmaceutical Sciences)  
Department of Pharmaceutical Sciences,  
University of Southern California, Los Angeles, CA.  
1993-1996 M.Sc. (Pharmacy), Major: Pharmaceutical Chemistry  
Faculty of Pharmaceutical Sciences  
Chulalongkorn University, Bangkok, Thailand  
1988-1993 B.Sc. (Pharmacy)  
Faculty of Pharmaceutical Sciences  
Chulalongkorn University, Bangkok, Thailand  
1988-1993 B.B.A. (Marketing)  
Faculty of Business Administration  
Ramkhamhaeng University, Bangkok, Thailand

### PROFESSIONAL EXPERIENCE

2021-present Head, Center of Excellent in Natural Products for Ageing and Chronic Diseases  
Chulalongkorn University, Bangkok, Thailand  
2013-2021 Associate Dean for Research Affairs,  
Faculty of Pharmaceutical Sciences, Chulalongkorn University, Bangkok, Thailand  
2011-present Associate Professor  
2006-2011 Assistant Professor  
1995-2006 Lecturer, Department of Food and Pharmaceutical Chemistry  
Faculty of Pharmaceutical Sciences, Chulalongkorn University, Bangkok, Thailand  
2001-2002 Product Development Scientist  
Stason Pharmaceutical, Inc., Irvine, CA, USA  
1995 Exchange Student  
Laboratory of Organic Synthesis, Chiba University, Japan  
1995-1997 Regulatory Affairs Pharmacist  
Innovet Cooperation Co., Ltd., Samutprakarn, Thailand  
1994-1995 Product Development Scientist  
Wellknown International Co., Ltd., Samutprakarn, Thailand

### CONSULTATION EXPERIENCE

2005-present Pharma Nueva Co., Ltd., Bangkok, Thailand  
2011-present Innovet Cooperation Co., Ltd., Samutprakarn, Thailand  
2006 SGS Thailand Co., Ltd. Bangkok, Thailand  
2003-2005 Siam Bheasach Co., Ltd. Bangkok, Thailand

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### RESEARCH INTERESTS

Our team at the Center of Excellence in Natural Products for Ageing and Chronic Diseases, located at Chulalongkorn University in Bangkok, Thailand, is committed to enhancing potential drug candidates derived from natural products. We utilize cutting-edge techniques, such as in silico drug screening, prodrug design, polymer-drug conjugates, and nanoformulations, to improve the physicochemical and biopharmaceutical properties of our drug candidates.

Our group has developed an impressive range of curcumin nanoparticle formulations, including PEGylated curcumin, and synthesized many novel curcumin prodrugs. We conduct comprehensive evaluations of both drug candidates and nanoformulations in vitro and in vivo, including permeation, drug release, pharmacokinetics, anti-nociceptive, anti-inflammatory, and anticancer activities, which provide valuable insights into drug discovery and development.

In addition, our laboratory has developed and validated analytical methods using HPLC and LC-MS/MS for identifying and quantifying bioactive compounds in various matrices, including API, pharmaceutical dosage forms, and biological samples. These methods are critical in the drug development process.

### BOOK CHAPTERS

1. Jittima Amie Luckanagul, Khent Primo Alcantara, Bryan Paul I Bulatao, Tin Wui Wong, **Pornchai Rojsitthisak** and Pranee Rojsitthisak. Thermo-Responsive Polymers and Their Application as Smart Biomaterials. In Smart Nanomaterials in Biomedical Applications (ISBN: 978-3-030-84262-8), edited by Jin-Chul Kim, Madhusudhan Alle, and Azamal Husen. Springer, Cham (Publisher), p. 291-343 (2021).
2. **Pornchai Rojsitthisak**, Wisut Wichitnithad, Chawanphat Muangnoi, Asma El-Magboub, Rebecca M. Romero and Ian S Haworth. Design, synthesis and biological activities of curcumin prodrugs. In Curcumin: Synthesis, Emerging Role in Pain Management and Health Implications (ISBN: 978-1-63321-319-7), edited by Daniel L. Pouliquen. Nova Science Publishers, Inc., p. 103-133 (2014).
3. Asma El-Magboub, **Pornchai Rojsitthisak**, Chawanphat Muangnoi, Wisut Wichitnithad, Rebecca M. Romero, Ian S Haworth. Biological targets and pharmacology of curcumin. In Curcumin: Synthesis, Emerging Role in Pain Management and Health Implications (ISBN: 978-1-63321-319-7), edited by Daniel L. Pouliquen. Nova Science Publishers, Inc., p. 135-175 (2014).
4. Pranee Lertsutthiwong, Ian S. Haworth and **Pornchai Rojsitthisak**. Alginate: A promising polysaccharide for delivery of essential oils. In: Handbook of carbohydrate polymers: development, properties and applications (ISBN: 978-1-60876-367-2), edited by Ryouichi Ito and Youta Matsuo. Nova Science Publishers, Inc., p. 621-638 (2010).
5. **Pornchai Rojsitthisak**. Physicochemical Properties and Drug Action. In: Medicinal Chemistry Volume I (ISBN 978-9-74050-574-7), edited by Opa Vajragupta, P.S. Print, Inc., p. 79-111 (2008).
6. **Pornchai Rojsitthisak**. Analysis of Need and Opportunity in Medical Biotechnology Development in Thailand. In: Delivery System of Biotechnological Products and Efficacy Evaluation (ISBN 974-9624-27-0), edited by Praneet Opanasopit and Wanlop Wecharangsan. Silpakorn University Printing, Inc., p. 1-10 (2004).

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### PUBLICATIONS

124. Feuangthit Niyamissara Sorasitthiyankarn, Chawanphat Muangnoi, Pranee Rojsitthisak and **Pornchai Rojsitthisak**. Stability and Biological Activity Enhancement of Fucoxanthin Through Encapsulation in Alginate/Chitosan Nanoparticles. *Int. J. Biol. Macromol.*, 263(Pt 1)(Apr 2024):130264, 1-15
123. Sirikanya Kaewpradit, Gorawit Yusakul, **Pornchai Rojsitthisak** and Chutima Jantararat. A Simple and Rapid HPLC-UV Method for the Determination of Valproic Acid in Human Plasma Using Microwave-Assisted Derivatization with Phenylhydrazine Hydrochloride. *Heliyon*, 10(6)(13 Mar 2024):e27875, 1-13
122. May Thazin Thant, Narumol Bhummaphan, Jittima Wuttiin, Charoenchai Puttipanyalears, Waraluck Chaichompoo, **Pornchai Rojsitthisak**, Yanyong Punpreuk, Chotima Böttcher, Kittisak Likhitwitayawuid and Boonchoo Sritularak. SNew Phenolic Glycosides from *Coelogyne fuscescens* Lindl. var. *brunnea* and Their Cytotoxicity Against Human Breast Cancer Cells. *ACS Omega*, 9(7)(9 Feb 2024):7679-7691
121. Waraluck Chaichompoo, **Pornchai Rojsitthisak**, Wachirachai Pabuprapap, Yuttana Siriwanasathien, Pathumwadee Yotmanee and Apichart Suksamrarn. Amaryllidaceae Alkaloids From the Bulbs of *Crinum latifolium* L. and Their Cholinesterase Inhibitory Activities. *Phytochem.*, 217(1 Jan 2024):113929, 1-14
120. Bryan Paul Bulatao, Nonthaneth Nalinratana, Pongsakorn Jantararatana, Opa Vajragupta, **Pornchai Rojsitthisak** and Pranee Rojsitthisak. Design and Development of a Magnetic Field-Enabled Platform for Delivering Polymer-Coated Iron Oxide Nanoparticles to Breast Cancer Cells. *Methods X*, 2023, 11(1 Dec 2023):102318, 1-12
119. John Wilfred T Malabanan, Khent Primo Alcantara, Pongsakorn Jantararatana, Yue Pan, Nonthaneth Nalinratana, Opa Vajragupta, **Pornchai Rojsitthisak** and Pranee Rojsitthisak. Enhancing Physicochemical Properties and Biocompatibility of Hollow Porous Iron Oxide Nanoparticles through Polymer-Based Surface Modifications. *ACS Appl. Bio Mater.*, 2023, 6(12)(13 Nov 2023), 5426-5441
118. Qian Li, Yanting Ding, Ying Ou, Manjing Li, Ponsiree Jithavech, Visarut Buranasudja, Boonchoo Sritularak, Yichun Xu, **Pornchai Rojsitthisak** and Junsong Han. Curcuminoids Modulated the IL-6/JAK/STAT3 Signaling Pathway in LoVo and HT-29 Colorectal Cancer Cells. *Curr. Pharm. Res.*, 2023, 29(36)(1 Oct 2023), 2867-2876
117. Wisut Wichitnithad, Siriwan Nantaphol, Worathat Thitikornpong and **Pornchai Rojsitthisak**. Development and Validation of an LC-MS/MS Method for Simultaneous Determination of Three Organic Azido Impurities in Tetrazole-Containing Sartans. *Arab. J. Chem.*, 2023, 16(8)(August 2023):104951, 1–14
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115. Bryan Paul Bulatao, Nonthaneth Nalinratana, Pongsakorn Jantararatana, Opa Vajragupta, Pranee Rojsitthisak and **Pornchai Rojsitthisak**. Lutein-Loaded Chitosan/Alginate-Coated Fe<sub>3</sub>O<sub>4</sub> Nanoparticles as Effective Targeted Carriers for

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113. Peththa Wadu Dasuni Wasana, Opa Vajragupta, **Pornchai Rojsitthisak**, Pasarapa Towiwat and Pranee Rojsitthisak. Metformin and Curcumin Co-encapsulated Chitosan/Alginate Nanoparticles as Effective Oral Carriers Against Pain-Like Behaviors in Mice. *Int. J. Pharmaceutics.*, 2023, 640(10 June 2023): 1230372023, 1–18
112. Engkarat Kingkaew, Nisachon Tedsree, Sukanya Phuengjayaem, **Pornchai Rojsitthisak**, Boonchoo Sritularak, Worathat Thitikornpong, Somphob Thompho, Wuttichai Mhuantong and Somboon Tanasupawat. Genomic Insight and Optimization of Astaxanthin Production from a New *Rhodotorula* sp. CP72-2. *Fermentation*, 2023, 9(6)(June 2023), 501, 1–16
111. Thanchanok Limcharoen, Peththa Wadu Dasuni Wasana, Pornpoom Angsuwattana, Chawanphat Muangnoi, Sakan Warinhomhoun, Tassanee Ongtanap, Boonchoo Sritularak, Opa Vajragupta, **Pornchai Rojsitthisak** and Pasarapa Towiwat. An Integrative Approach to Investigate the Mode of Action of (-)-Dendroparishioliol in Bacterial Meningitis: Computer-Aided Estimation of Biological Activity and Network Pharmacology. *Int. J. Mol. Sci.*, 2023, 24(9)(1 May 2023), 8072, 1–18
110. Bachtiar Rivai, Peththa Wadu Dasuni Wasana, Chaisak Chansrinियom, Pasarapa Towiwat, Yanyong Punpreuk, Kittisak Likhitwitayawuid, **Pornchai Rojsitthisak** and Boonchoo Sritularak. Potential Role of a Novel Biphenanthrene Derivative Isolated from *Aerides falcata* in Central Nervous System Diseases. *RSC Advances*, 2023, 13(16) (April 2023):10757 - 107674
109. Pongsawat Panuthai, Rianthong Phumsuay, Chawanphat Muangnoi, Porames Maitreesophon, Virunh Kongkatitham, Wanwimon Mekboonsonglarp, **Pornchai Rojsitthisak**, Kittisak Likhitwitayawuid and Boonchoo Sritularak. Isolation and Identification of Dihydrophenanthrene Derivatives from *Dendrobium virgineum* with Protective Effects against Hydrogen-Peroxide-Induced Oxidative Stress of Human Retinal Pigment Epithelium ARPE-19 Cells. *Antioxidants*, 2023, 12(3)(2 Mar 2023):624, 1-20
108. Wisut Wichitnithad, Siriwan Nantaphol, Kachathong Noppakhunsomboon and **Pornchai Rojsitthisak**. An update on the current status and prospects of nitrosation pathways and possible root causes of nitrosamine formation in various pharmaceuticals. *Saudi Pharm. J.*, 2023, 31(2)(3 Mar 2023), 295-311
107. Wisut Wichitnithad, Siriwan Nantaphol, Kachathong Noppakhunsomboon, Worathat Thitikornpong and **Pornchai Rojsitthisak**. Current Status and Prospects of Development of Analytical Methods for Determining Nitrosamine and *N*-nitroso Impurities in Pharmaceuticals. *Talanta*, 2023, 254(1 March 2023):124102, 1-16
106. Nattapong Jongjitphisut, Worathat Thitikornpong, Wisut Wichitnithad, Thanundorn Thanusuwanasak, Opa Vajragupta and **Pornchai Rojsitthisak**. A Stability-Indicating Assay for Tetrahydrocurcumin-Diglutamic Acid and Its Applications to Evaluate Bioaccessibility in an In Vitro Digestive Model. *Molecules*, 2023, 28(4)(February 2023):1678, 1-15

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105. Feuangthit N. Sorasitthiyankarn, Chawanphat Muangnoi, Clinton B. Gomez, Apichart Suksamrarn, Pranee Rojsitthisak and **Pornchai Rojsitthisak**. Potential Oral Anticancer Therapeutic Agents of Hexahydrocurcumin-Encapsulated Chitosan Nanoparticles against MDA-MB-231 Breast Cancer Cells. *Pharmaceutics*, 2023, 15(2)(February 2023):472, 1-28
104. Htet Htet Moe San, Khent Primo Alcantara, Bryan Paul I. Bulatao, Feuangthit Niyamissara Sorasitthiyankarn, Nonthaneth Nalinratana, Apichart Suksamrarn, Opa Vajragupta, Pranee Rojsitthisak and **Pornchai Rojsitthisak**. Folic acid-grafted chitosan-alginate nanocapsules as effective targeted nanocarriers for delivery of turmeric oil for breast cancer therapy. *Pharmaceutics*, 2023, 15(2)(January 2023):110, 1-24
103. Waraluck Chaichompoo, **Pornchai Rojsitthisak**, Wachirachai Pabuprapap, Yuttana Siriwanasathien, Pathumwadee Yotmanee and Apichart Suksamrarn. Alkaloids with cholinesterase inhibitory activities from the bulbs of *Crinum × amabile* Donn ex Ker Gawl. *Phytochemistry*, 2023, 205(January 2023):113473, 1-13
102. Supakarn Hansapaiboon, Bryan Paul Bulatao, Feuangthit Niyamissara Sorasitthiyankarn, Pongsakorn Jantaratana, Nonthaneth Nalinratana, Opa Vajragupta, Pranee Rojsitthisak and **Pornchai Rojsitthisak**. Fabrication of Curcumin Diethyl  $\gamma$ -Aminobutyrate-Loaded Chitosan-Coated Magnetic Nanocarriers for Improvement of Cytotoxicity against Breast Cancer Cells. *Polymers*, 2022, 14(24)(December-2 2022):5563, 1-25
101. Khent Primo Alcantara, Nonthaneth Nalinratana, Nopporn Chutiwitoonchai, Agnes L. Castillo, Wijit Banlunara, Opa Vajragupta, **Pornchai Rojsitthisak** and Pranee Rojsitthisak. Enhanced Nasal Deposition and Anti-Coronavirus Effect of Favipiravir-Loaded Mucoadhesive Chitosan–Alginate Nanoparticles. *Pharmaceutics*, 2022, 14(12)(December 2022):2680, 1-20
100. Pawana Boonrueng, Peththa Wadu Dasuni Wasana, Hasriadib, Opa Vajragupta, **Pornchai Rojsitthisak** and Pasarapa Towiwat. Combination of Curcumin and Piperine Synergistically Improves Pain-like Behaviors in Mouse Models of Pain with no Potential CNS Side Effects. *Chin. Med.*, 17(1 Dec 2022):119, 1-21
99. Peththa Wadu Dasuni Wasana, Hasriadi, Chawanphat Muangnoi, Opa Vajragupta, Pranee Rojsitthisak, **Pornchai Rojsitthisak** and Pasarapa Towiwat. Curcumin and Metformin Synergistically Modulate Peripheral and Central Immune Mechanisms of Pain. *Sci Rep.*, 2022, 12(1)(Dec 2022):9713, 1-19
98. Hasriadi, Peththa Wadu Dasuni Wasana, Piyapan Suwattananuruk, Somphob Thompho, Worathat Thitikornpong, Opa Vajragupta, **Pornchai Rojsitthisak** and Pasarapa Towiwat. Curcumin Diethyl  $\gamma$ -Aminobutyrate, a Prodrug of Curcumin, for Enhanced Treatment of Inflammatory Pain. *ACS Pharmacol. Transl. Sci.* 2022, 5(9), 774–790
97. Worathat Thitikornpong, Ponsiree Jithavech, Somphob Thompho, Yanyong Panpruk, Hasserri Halim, Boonchoo Sritularak and **Pornchai Rojsitthisak**. Development and Validation of a Simple, Sensitive and Reproducible Method for Simultaneous Determination of Six Polyphenolic Bioactive Markers in Dendrobium Plants. *Arab. J. Chem.*, 2022, 15(9)(Sep2022), 104038, 1-15
96. Dinh Thi Thai Ha, Kittirat Glab-ampai, **Pornchai Rojsitthisak** and Opa Vajragupta. Production of human embryonic kidney 293T cells stably expressing CXC chemokine

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- receptor type 4 (CXCR4) as a screening tool for anticancer lead compound targeting CXCR4. *Life Sci.*, 2022, 303(15 Aug 2022), 120661, 1-13
95. Hasriadi, Peththa Wadu Dasuni Wasana, Boonchoo Sritularak, Opa Vajragupta, **Pornchai Rojsitthisak** and Pasarapa Towiwat. Batatasin III, a Constituent of *Dendrobium scabrilingue*, Improves Murine Pain-like Behaviors with a Favorable CNS Safety Profile. *J. Nat. Prod.*, 2022, 85(7)(22 July 2022), 1816-1825
  94. Thien Hoang Truong, Khent Primo Alcantara, Bryan Paul I Bulatao, Feuangthit Niyamissara Sorasitthiyankarn, Chawanphat Muangnoi, Nonthaneth Nalinratana, Opa Vajragupta, **Pornchai Rojsitthisak** and Pranee Rojsitthisak. Chitosan-Coated Nanostructured Lipid Carriers for Transdermal Delivery of Tetrahydrocurcumin for Breast Cancer Therapy. *Carbohydr. Polym.*, 2022, 288(15 Jul 2022), 119401, 1-14
  93. Nattapong Jongjitphisut, Rianthong Phumsuay, Worathat Thitikornpong, Paitoon Rashatasakhon, Chawanphat Muangnoi, Opa Vajragupta and **Pornchai Rojsitthisak**. Synthesis, physicochemical properties, and protective effects of a novel water-soluble tetrahydrocurcumin-diglutamic acid prodrug on ethanol-induced toxicity in HepG2 cells. *J. Pharm. Investig.*, 2022, 52(4)(Jul 2022), 477-487
  92. Visarut Buranasudja, Chawanphat Muangnoi, Kittipong Sanookpan, Hasseri Halim, Boonchoo Sritularak and **Pornchai Rojsitthisak**. Eriodictyol Attenuates H<sub>2</sub>O<sub>2</sub>-Induced Oxidative Damage in Human Dermal Fibroblasts through Enhanced Capacity of Antioxidant Machinery. *Nutrients*, 2022, 14(12)(2Jun2022), 2553, 1-16
  91. Wuttinont Thaweeseest, Visarut Buranasudja, Rianthong Phumsuay, Chawanphat Muangnoi, Opa Vajragupta, Boonchoo Sritularak, Paitoon Rashatasakhon and **Pornchai Rojsitthisak**. Anti-Inflammatory Activity of Oxyresveratrol Tetraacetate, an Ester Prodrug of Oxyresveratrol, on Lipopolysaccharide-Stimulated RAW264.7 Macrophage Cells. *Molecules*, 2022, 27(12)(2Jun2022), 03922, 1-10
  90. Jutamas Jiaranaikulwanitch, Wipawadee Yooon, Nopporn Chutiwitoonchai, Worathat Thitikornpong, Boonchoo Sritularak, **Pornchai Rojsitthisak**, Opa Vajragupta. Discovery of Natural Lead Compound from *Dendrobium* sp. against SARS-CoV-2 Infection. *Pharmaceuticals*, 2022, 15(5)(18 May 2022):620, 1-13
  89. Ihsan Safwan Kamarazaman, Nor Azah Mohamad Ali, Fauziah Abdullah, Nazrin Che Saad, Aida Azlina Ali, Salfarina Ramli, **Pornchai Rojsitthisak** and Hasseri Halim. In Vitro Wound Healing Evaluation, Antioxidant and Chemical Profiling of *Baeckea frutescens* Leaves Ethanolic Extract. *Arab. J. Chem.*, 2022, 15(6)(June 2022), 103871, 1-11
  88. Htet Htet Moe San, Khent Primo Alcantara, Bryan Paul I. Bulatao, Waraluck Chaichompoo, Nonthaneth Nalinratana, Apichart Suksamrarn, Opa Vajragupta, Pranee Rojsitthisak and **Pornchai Rojsitthisak** Development of Turmeric Oil—Loaded Chitosan/Alginate Nanocapsules for Cytotoxicity Enhancement against Breast Cancer. *Polymers*, 2022, 14(9)(1May2022), 1835, 1-17
  87. Tajudeen O Jimoh, Bruno Cesar Costa, Chaisak Chansrinoyom, Chatchai Chaotham, Pithi Chanvorachote, **Pornchai Rojsitthisak**, Kittisak Likhitwitayawuid and Boonchoo Sritularak. Three New Dihydrophenanthrene Derivatives from *Cymbidium ensifolium* and Their Cytotoxicity against Cancer Cells. *Molecules*, 2022, 27(7)(29 Mar 2022), 2222, 1-12
  86. Ponsiree Jithavech, Piyapan Suwattananuruk, Hasriadi, Chawanphat Muangnoi, Worathat Thitikornpong, Pasarapa Towiwat, Opa Vajragupta and **Pornchai Rojsitthisak**. Physicochemical Investigation of a Novel Curcumin Diethyl  $\gamma$ -

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- Aminobutyrate, a Carbamate Ester Prodrug of Curcumin with Enhanced Anti-Neuroinflammatory Activity. *PLoS One*, 2022, 17(3)(18 Mar 2022):e0265689, 1-19
85. Feuangthit Niyamissara Sorasitthiyankarn, Chawanphat Muangnoi, **Pornchai Rojsitthisak** and Pranee Rojsitthisak. Chitosan Oligosaccharide/Alginate Nanoparticles as an Effective Carrier for Astaxanthin with Improving Stability, In Vitro Oral Bioaccessibility, and Bioavailability. *Food Hydrocolloids*. 2022, 124(Part A)(March 2022):107246, 1-14
84. Auttaporn Booncharoen, Wonnop Visessanguan, Nattakorn Kuncharoen, Supaluk Yiamsombut, Pannita Santiyanont, Wuttichai Mhuantong, **Pornchai Rojsitthisak**, and Somboon Tanasupawat. *Halobacillus fulvus* sp. nov., a Moderately Halophilic Bacterium Isolated from Shrimp Paste (Ka-pi) in Thailand. *Int. J. Syst. Evol. Microbiol.*, 2021, 71(11)(26 Nov 2021).
83. Dolly Rani, Khwanlada Kobtrakul, Jittima Amie Luckanagul, Wuttinont Thaweeseet, **Pornchai Rojsitthisak**, Wanchai De-Eknamkul, and Sornkanok Vimolmangkang. Differential Gene Expression Levels, Chemical Profiles, and Biological Activities of *Pueraria candollei* var. *mirifica* callus Cultures at Different Growth Stages. *Plant Cell Tissue Organ Cult.*, 2021, 147(1)(1 Oct 2021), 61-72
82. Yonelian Yuyun, Ponsiree Jithavech, Worathat Thitikornpong, Opa Vajragupta and **Pornchai Rojsitthisak**. A Stability-Indicating Ultra Performance Liquid Chromatographic (UPLC) Method for the Determination of a Mycophenolic Acid-Curcumin Conjugate and Its Applications to Chemical Kinetic Studies. *Molecules*, 2021, 26(17)(5 September 2021), 5398, 1-17
81. Hasriadi, Peththa Wadu Dasuni Wasana, Opa Vajragupta, **Pornchai Rojsitthisak** and Pasarapa Towiwat. Automated Home-Cage Monitoring as a Potential Measure of Sickness Behaviors and Pain-Like Behaviors in LPS-Treated Mice. *PLoS One*, 2021, 16(8)(27 Aug 2021):e0256706.
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79. Muttarin Lothong, Watchara Sakares, **Pornchai Rojsitthisak**, Chizu Tanikawa, Koichi Matsuda and Varalee Yodsurang. Collagen XVII Inhibits Breast Cancer Cell Proliferation and Growth Through Deactivation of the AKT/mTOR Signaling Pathway. *PLoS One*, 2021, 16(7)(22 July 2021):e0255179, 1-19
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77. Waraluck Chaichompoo, **Pornchai Rojsitthisak**, Wachirachai Pabuprapap, Yuttana Siriwanasathien, Pathumwadee Yotmanee, Woraphot Haritakund and Apichart Suksamrarn. Stephapierrines A–H, new tetrahydroprotoberberine and aporphine alkaloids from the tubers of *Stephania pierrei* Diels and their anti-cholinesterase activities. *RSC Adv.*, 2021, 11(34)(16 Jun 2021), 21153-21169
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