

Ratchanaporn Chokchaisiri Ph.D.



Contact

Department of Chemistry,
School of Science,
University of Phayao

Address:

19 Moo 2 Maeka, Muang, Phayao,
THAILAND 56000

Phone:

+66 (0)54 466 666 #1705

Email:

ratchanaporn.ch@up.ac.th

Languages

Thai
English

Experiences

May 2011 – Present Lecturer (Organic chemistry); Department of Chemistry, School of Science, University of Phayao, Thailand

Academic Position

Associate Professor

Education

- **Ph.D. (Applied Chemistry), Year 2011**
Ramkhamhaeng University, Thailand
- **M.Sc. (Applied Chemistry), Year 2007**
Ramkhamhaeng University, Thailand
- **B.Sc. (Chemistry), Year 2002**
Ramkhamhaeng University, Thailand

Scholarships

2009-2011 Ph.D. Scholarship supported by The Royal Golden Jubilee Ph.D. Program of The Thailand Research Fund

Specializations

- Natural product chemistry
- Phytochemistry

Research Grant Support

2018-2020	The Thailand Research Fund (TRF) and Office of the Higher Education Commission
2018-2019	University of Phayao
2013-2015	Office of the Higher Education Commission, Thailand Research Fund and University of Phayao
2013-2014	Office of the Higher Education Commission
2013-2014	University of Phayao

Publications

- P. Jumnonprakon, **R. Chokchaisiri**, S. Thummayot, A. Suksamrarn, C. Tocharus, J. Tocharus. 5, 6, 7, 4'-tetramethoxy flavanone attenuates NADPH oxidase 1/4 and promotes sirtuin-1 to inhibit cell stress, senescence and apoptosis in A β ₂₅₋₃₅-mediated SK-N-SH dysfunction. *EXCLI J.* (2021), 20, 1346-1362.
- **R. Chokchaisiri**, W. Chaichompoo, W. Pabuprapap, O. Sukcharen, J. Tocharus, L. Ganranoo, S. Bureekaew, E. Sangvichien, A. Suksamrarn. Biotransformation of 1 α , 11 α -dihydroxyisopimara-8 (14), 15-diene by *Cunninghamella echinulata* NRRL 1386 and their neuroprotective activity, *Bioorg. Chem.* (2021), 110, 104799.

Publications (continued)

- K. Pakdeepak, **R. Chokchaisiri**, P. Govitrapong, C. Tocharus, A. Suksamrarn, J. Tocharus. 5, 6, 7, 4'-Tetramethoxyflavanone alleviates neurodegeneration in a dexamethasone-induced neurodegenerative mouse model through promotion of neurogenesis via the Raf/ERK1/2 pathway. *Phytother. Res.* (2020), 1-9.
- S. Soodvilai, P. Meetam, L. Siangjong, **R. Chokchaisiri**, A. Suksamrarn, S. Soodvilai. Germacrone reduces cisplatin-induced toxicity of renal proximal tubular cells via inhibition of organic cation transporter. *Biol. Pharm. Bull.* (2020), 43(11), 1693-1698.
- W. Chaichompoo, **R. Chokchaisiri**, A. Sangkaew, W. Pabuprapap, C. Yompakdee, A. Suksamrarn. Alkaloids with anti-human carbonic anhydrase isozyme II activity from the bulbs of *Crinum asiaticum* L. var. *asiaticum*. *Phytochem. Lett.* (2020), 37, 101-105.
- **R. Chokchaisiri**, W. Chaichompoo, W. Chunglok, S. Cheenpracha, L. Ganranoo, N. Phutthawong, S. Bureekaew, A. Suksamrarn. Isopimarane Diterpenoids from the Rhizomes of *Kaempferia marginata* and Their Potential Anti-inflammatory Activities, *J. Nat. Prod.* (2020), 83, 14-19.
- **R. Chokchaisiri**, J. Srijun, W. Chaichompoo, S. Cheenpracha, L. Ganranoo, A. Suksamrarn. Anti-herpes simplex type-1 (HSV-1) activity from the roots of *Jatropha multifida* L. *Med. Chem. Res.* (2020), 29, 328-333.
- K. Pakdeepak, **R. Chokchaisiri**, J. Tocharus, P. Jearjaroen, C. Tocharus, A. Suksamrarn. 5,6,7,4'-Tetramethoxyflavanone protects against neuronal degeneration induced by dexamethasone by attenuating amyloidogenesis in mice. *EXCLI J.* (2020), 19, 16-32.
- W. Pabuprapap, Y. Wassanatip, P. Khetkam, W. Chaichompoo, S. Kunkaewom, P. Senabud, J. Hata, **R. Chokchaisiri**, S. Svasti, A. Suksamrarn. Quercetin analogs with high fetal hemoglobin inducing activity. *Med. Chem. Res.* (2019), 28, 1755-1765.
- **R. Chokchaisiri**, W. Chaichompoo, O. Sukcharoen, A. Suksamrarn, L. Ganranoo. Microbial transformation of isocoronarin D by *Cunninghamella echinulata* NRRL 1386. *Nat. Prod. Res.* (2019), 33, 2890-2896.
- L. Ganranoo, **R. Chokchaisiri**, K. Grudpan. Simple simultaneous determination of iron and manganese by sequential injection spectrophotometry using astilbin extracted from *Smilax china* L. root. *Talanta.* (2019), 191, 307-312.
- S. Chawalitpong, **R. Chokchaisiri**, A. Suksamrarn, S. Katayama, T. Mitani, S. Nakamura, A. A. Athamneh, P. Ritprajak, A. Leelahavanichkul, R. Aeimlapa, N. Charoenphandhu, T. Palaga. Cyperenoic acid suppresses osteoclast differentiation and delays bone loss in a senile osteoporosis mouse model by inhibiting non-canonical NF- κ B pathway. *Sci. Rep.* (2018), 8(5625), 1-12.
- T. Utaipana, A. Suksamrarn, P. Kaemchantuek, **R. Chokchaisiri**, W. Stremmel, W. Chamulitrat, W. Chunglok. Diterpenoid trigonoreidon B isolated from *Trigonostemon reidioides* alleviates inflammation in models of LPS-stimulated murine macrophages and inflammatory liver injury in mice. *Biomed. Pharmacother.* (2018), 101, 961-971.

Publications (continued)

- K. Pakdeepak, **R. Chokchaisiri**, P. Govitrapong, C. Tocharus, A. Suksamrarn, J. Tocharus. 5, 6, 7, 4'-Tetramethoxyflavanone alleviates neurodegeneration in a dexamethasone-induced neurodegenerative mouse model through promotion of neurogenesis via the Raf/ERK1/2 pathway. *Phytother. Res.* (2020), 1-9.
- B. Yingngam, D. Jinarat, R. Kaewamatawong, W. Rungseevijitprapa, A. Suksamrarn, P. Piyachaturawat, **R. Chokchaisiri**, A. H. Brantner. Determination of the marker diarylheptanoid phytoestrogens in *Curcuma comosa* rhizomes and selected herbal medicinal products by HPLC-DAD. *Chem. Pharm. Bull.* (2018), 66, 65-70.
- W. Chaichompoo, **R. Chokchaisiri**, N. Apiratikul, A. Chairoungdua, B. Yingyongnarongkul, W. Chunglok, C. Tocharus, A. Suksamrarn, Cytotoxic alkaloids against human colon adenocarcinoma cell line (HT-29) from the seed embryos of *Nelumbo nucifera*. *Med. Chem. Res.* (2018), 27, 939-943.
- **R. Chokchaisiri**, S. Kunkaewom, S. Chokchaisiri, L. Ganranoo, R. Chalermglin, A. Suksamrarn. Potent cytotoxicity against human small cell lung cancer cells of the heptenes from the stem bark of *Xylopiia pierrei* Hance. *Med. Chem. Res.* (2017), 26, 1291-1296.
- P. Kaemchantuek, **R. Chokchaisiri**, S. Prabpai, P. Kongsaree, W. Chunglok, T. Utaipan, W. Chamulitrat, A. Suksamrarn, Terpenoids with potent antimycobacterial activity against *Mycobacterium tuberculosis* from *Trigonostemon reidioides* roots. *Tetrahedron.* (2017), 73, 1594-1601.
- D. Thongwat, L. Ganranoo, **R. Chokchaisiri**. Larvicidal and pupicidal activities of crude and fractionated extracts of *Acacia pennata* (L.) Wild. subsp. *insuavis* shoot tips against *Aedes aegypti* (L.) (Diptera: Culicidae). *SE. ASIAN J. TROP. MED.* (2017), 48(1), 27-36.
- N. Vinayavekhin, J. Sueajai, N. Chaihad, R. Panrak, **R. Chokchaisiri**, P. Sangvanich, A. Suksamrarn, P. Pawinee, Serum lipidomics analysis of ovariectomized rats under *Curcuma comosa* treatment. *J. Ethnopharm.* (2016). 192, 273-282.
- **R. Chokchaisiri**, W. Chaichompoo, R. Chalermglin, A. Suksamrarn, Potent Antiplasmodial Alkaloids and Flavonoids from *Dasymaschalon acuminatum*. *Rec. Nat. Prod.* (2015), 9(2), 243-246.
- N. Sornkaew, Y. Lin, F. Wang, G. Zhang, **R. Chokchaisiri**, A. Zhang, K. Wongkrajang, P. Suebsakwong, P. Piyachaturawat, A. Suksamrarn, Diarylheptanoids of *Curcuma comosa* with Inhibitory Effects on Nitric Oxide Production in Macrophage RAW 264.7 Cells. *Nat. Prod. Commun.* (2015), 10(1), 89-93.
- D. Thongwat, L. Ganranoo, **R. Chokchaisiri**. Larvicidal Activity of *Pereskia bleo* (Kunth) DC. (Cactaceae) fruit endocarp crude and fractionated extracts against *Aedes aegypti* (L.) (Diptera: Culicidae), *SE. ASIAN J. TROP. MED.* (2014), 45, 1292-1300.
- T. Chuprajob, C. Changtam, **R. Chokchaisiri**, W. Chunglok, N. Sornkaew, A. Suksamrarn, Synthesis, cytotoxicity against human oral cancer KB cells and structure activity relationship studies of trienone analogues of curcuminoids. *Bioorg. Med. Chem. Lett.* (2014), 24, 2839-2844.

Publications (continued)

- P. Pimkaew, K. Suksen, K. Somkid, **R. Chokchaisiri**, S. Jariyawat, A. Chuncharunee, A. Suksamrarn, P. Piyachaturawat, Zederone, a sesquiterpene from *Curcuma elata* Roxb. Is hepatotoxic in mice. *Int. J. Toxicol.* (2013), 32, 454-462.
- S. Intapad, V. Saengsirisuwan, M. Prasannarong, A. Chuncharunee, W. Suvitayawat, **R. Chokchaisiri**, A. Suksamrarn, P. Piyachaturawat, Long-term effect of phytoestrogens from *Curcuma comosa* roxb. on vascular relaxation in variectomized rats. *J. Agric. Food Chem.* (2012), 60, 758-764.
- C. Muanprasat, L. Sirianant, S. Soodvilai, **R. Chokchaisiri**, A. Suksamrarn, V. Chatsudthipong, Novel action of the chalcone isoliquiritigenin as a cystic fibrosis transmembrane conductance regulator (CFTR) inhibitor: potential therapy for cholera and polycystic kidney disease. *J. Pharmacol. Sci.* (2012), 118, 82-91.