

Asst. Prof. Dr. Boon-ek Yingyongnarongkul**PERSONAL**

Name	Boon-ek Yingyongnarongkul
Sex & Marital status	Male, Married
Nationality	Thai

EDUCATION

1991	B.Sc. Chemistry	Ramkhamhaeng University, Bangkok, Thailand
1995	M.Sc., Applied Chemistry	Ramkhamhaeng University, Bangkok, Thailand
1999	Research Training	Department of Chemical Engineering, Tokyo Institute of Technology, Tokyo, Japan
2003	Ph.D., Organic Chemistry	University of Southampton, United Kingdom
2010	Research Training (2 Oct-14 Nov)	Graduate School of Bioagricultural sciences, Nagoya University, Nagoya, Japan

ACADEMIC POSITIONS

1996-2005	Lecturer	Department of Chemical, Faculty of Science, Ramkhamhaeng University
2005-present	Assistant Professor	Department of Chemical, Faculty of Science, Ramkhamhaeng University

ADMINISTRATIVE EXPERIENCE

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PRESENT WORK ADDRESS

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RESEARCH INTERESTS

Bioactive Natural Products	Isolation and structural elucidation of bioactive natural products
Structural Modification of Natural Products	Use of chemistry and biotechnology to modify the structures and enhance the biological activities of natural products
Combinatorial Chemistry	Synthesis of natural products analogues to enhance the biological activity Synthesis of DNA carrier Synthesis of delivery system for natural product

PUBLICATIONS

1. Suksamrarn, A., Charoensuk, S., **Yingyongnarongkul, B.** Synthesis and Biological Activity of 3-Deoxyecdysteroid Analogues. *Tetrahedron* **1996**, *52*, 10673-10684.
2. Suksamrarn, A., **Yingyongnarongkul, B.** Synthesis and Biological Activity of 2-Deoxy-20-hydroxyecdysone and Derivatives. *Tetrahedron* **1996**, *52*, 12623-12630.
3. Suksamrarn, A., **Yingyongnarongkul, B.**, Charoensuk, S. Synthesis and Moulting Hormone Activity of Ecdysteroids and Analogues. In *Proceeding of NRCT-JSPS Third Joint-seminar in Current Advances in Natural Product Research*: Bangkok, **1996**, pp. 157-178.
4. Suksamrarn, A., **Yingyongnarongkul, B.** Synthesis and Moulting Hormone Activity of 3-*epi*-2-Deoxy-20-hydroxyecdysone and Analogues *Tetrahedron* **1997**, *53*, 3145-3154
5. **Yingyongnarongkul, B.**, Suksamrarn, A. Asymmetric Dihydroxylation of Stachysterone C: Stereoselective Synthesis of 24-*epi*-Abutasterone. *Tetrahedron* **1998**, *54*, 2795-2800.
6. Suksamrarn, A., **Yingyongnarongkul, B.**, Promrangsarn, N. Naturally Occurring 20,26-Dihydroxyecdysone Exists as Two C-25 Epimers which Exhibit Different Degrees of Moulting Hormone Activity. *Tetrahedron* **1998**, *54*, 14565-14572.
7. Suksamrarn, A., **Yingyongnarongkul, B.**, Charoensuk, S. Regioselective Synthesis of 24-*epi*-Pterosterone. *Tetrahedron* **1999**, *55*, 255-260.
8. Suksamrarn, A., Tanachatchairatana, T., Haritakun, W., Pattanaprateep, P., **Yingyongnarongkul, B.** Structure-Activity Relationships of Insect Moulting Hormones: Unexpected Biological Activity of some Ecdysteroid Analogues. In *Proceeding of Natural Products Symposium on Agrochemicals*: Bangkok **1999**, VI-1-14.
9. **Yingyongnarongkul, B.**, Suksamrarn, A. 25-Deoxyecdysteroids: Synthesis and Moulting Hormone Activity of two C-25 Epimers of Inokosterone. *ScienceAsia* **2000**, *26*, 15-20.
10. Charoensuk, S., **Yingyongnarongkul, B.**, Suksamrarn, A. Synthesis of 2-Dehydro-3-*epi*-20-hydroxyecdysone. *Tetrahedron* **2000**, *56*, 9313-9317.
11. Takahashi, T., Inoue, H., **Yingyongnarongkul, B.**, Doi, T. Parallel Synthesis of Trisaccharides Using Sulfonate Traceless Linker on Multipin System. (1) Coupling of Sulfonate Linker onto Support Using Palladium(0)-Catalyzed Carbonylation. *Nippon Kagakkai Koen Yokoshu* **2002**, *78*, 914. (in Japanese)
12. Suksamrarn, A., Kumpun, S., Kirtikara, K., **Yingyongnarongkul, B.**, Suksamrarn, S. Iridoids with Anti-inflammatory Activity from *Vitex peduncularis*. *Planta Med.*, **2002**, *68*, 72-73.
13. Suksamrarn, A., Pattanaprateep, P., Tanachatchairatana, T., Haritakun, W., **Yingyongnarongkul, B.**, Chimnoi, N. Chemical Modification at the 22-Hydroxyl Group of Ecdysteroids: Alternative Structural Requirements for High Moulting Activity. *Insect Biochemistry and Molecular Biology* **2002**, *32*, 193-197.
14. Suksamrarn, A., Kumpun, S., **Yingyongnarongkul, B.** Ecdysteroids of *Vitex scabra* Stem Bark. *J. Nat. Prod.*, **2002**, *65*, 1690-1692.

15. Leberton, S., How, S.-E., Buchholz, M., **Yingyongnarongkul, B.**, Bradley, M. Solid-phase Construction: High Efficiency Dendrimer Synthesis using AB₃ Isocyanate-type Monomers. *Tetrahedron* **2003**, *59*, 3945-3953.
16. **Yingyongnarongkul, B.**, How, S.-E., Díaz-Mochón, J.J., Muzerelle, M., Bradley, M. Parallel and Multiplexed Bead-based Assays and Encoding Strategies. *Combinatorial Chemistry & High Throughput Screening* **2003**, *6*, 577-587.
17. **Yingyongnarongkul, B.**, Howarth, M., Elliott, T., Bradley, M. Solid-phase Synthesis of 89 Polyamine-based Cationic Lipids for DNA Delivery to Mammalian Cells. *Chem. Eur. J.* **2004**, *10*, 463-473.
18. **Yingyongnarongkul, B.**, Howarth, M., Elliott, T., Bradley, M. DNA Transfection Screening from Single-beads. *J. Comb. Chem.* **2004**, *6*, 753-760.
19. How, S.-E., **Yingyongnarongkul, B.**, Fara, M.A., Díaz-Mochón, J.J., Mitoo, S., Bradley, M. Polyplexes and Lipoplexes for Mammalian Gene Delivery: from Traditional to Microarray Screening. *Combinatorial Chemistry & High Throughput Screening* **2004**, *7*, 423-430.
20. **Yingyongnarongkul, B.**, Kumpun, S., Chimnoi, N. C-25 Epimeric 26-Haloponasterone A: Synthesis, Absolute Configuration, and Moulting Activity. *Steroids* **2005**, *70*, 636-644.
21. Changtam, C., Sukcharoen, O., **Yingyongnarongkul, B.**, Suksamrarn, A. Biotransformations of 20-hydroxyecdysone and analogues by *Curvularia lunata* NRRL 2178. *Steroids* **2006**, *71*, 902-907.
22. **Yingyongnarongkul, B.**, Apiratikul, N., Aroonreak, N., Suksamrarn, A. Solid phase synthesis and antibacterial activity of hydroxycinnamic acid amides and analogues against methicillin-resistant *Staphylococcus aureus* and vancomycin-resistant *S. aureus*. *Bioorg. Med. Chem. Lett.* **2006**, *16*, 5870-5873.
23. Kumpun, S., **Yingyongnarongkul, B.**, Lafont, R., Girault, J.P., Suksamrarn, A. Stereoselective synthesis and moulting activity of integristerone A and analogues. *Tetrahedron* **2007**, *63*, 1093-1099.
24. Changtam, C., Sukcharoen, O., **Yingyongnarongkul, B.**, Chimnoi, N., Suksamrarn, A. Functional group-mediated biotransformation by *Curvularia lunata* NRRL 2178: Synthesis of 3-dehydro-2-deoxy-ecdysteroids from the 3-hydroxy-2-mesyloxy analogues. *Tetrahedron* **2008**, *64*, 2626-2633.
25. **Yingyongnarongkul, B.**, Apiratikul, N., Aroonreak, N., Suksamrarn, A. Synthesis of bis, tris and tetra(dihydrocaffeoyl)polyamine conjugates as antibacterial agents against VRSA. *Arch. Pharm. Res.* **2008**, *31*, 698-704.
26. Suksamrarn, A., Ponglikitmongkol, M., Wongkrajang, K., Chindaduang, A., Kittidanairak, S., Jankam, A., **Yingyongnarongkul, B.**, Kittipanumat, N., Chokchaisiri, R., Khetkam, P., Piyachaturawat, P. Diarylheptanoids, new phytoestrogens from the rhizomes of *Curcuma comosa*: Isolation, chemical modification and estrogenic activity evaluation. *Bioorg. Med. Chem.* **2008**, *16*, 6891-6902.
27. **Yingyongnarongkul, B.**; Radchatawedchakoon, W.; Krajarng, A.; Watanapokasin, R.; Suksamrarn, A. High transfection efficiency and low toxicity cationic lipids with aminoglycerol-diamine conjugate. *Bioorg. Med. Chem.* **2009**, *17*, 176-188.
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29. Joycharat, N.; Plodpai, P.; Panthong, K.; **Yingyongnarongkul, B.**; Voravuthikunchai, S. P Terpenoid Constituents and Antifungal Activity of *Aglaia forbesii* Seed Against Phytopathogens. *Can. J. Chem.* **2010**, *88*, 937-944.
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37. Apiratikul, N.; Penglong, T.; Suksen, K.; Svasti, S.; Chairoungdua, A.; **Yingyongnarongkul, B.** In vitro delivery of curcumin with cholesterol-based cationic liposomes. *Russ. J. Bioorg. Chem.* **2013**, *39*, 497-503.
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39. Nakazaki, A.; Huang, W.-Y.; Koga, K.; **Yingyongnarongkul, B.**; Boonsombat, J.; Sawayama, Y.; Tsujimoto, T.; Nishikawa, T. Structural study on a naturally occurring terphenyl quinone. *Biosci. Biotechnol. Biochem.* **2013**, *77*, 130199-1-4.
40. Paecharoenchai, O.; Niyomtham, N.; Leksantikul, L.; Rojanarata, T.; **Yingyongnarongkul, B.**; Opanasopit, P. Nonionic surfactant vesicles composed of novel lipids as an effective gene carrier in vitro. *AAPS Pharm. Sci. Tech.* **2014**, DOI: 10.1208/s12249-014-0095-x.