

Curriculum Vitae
Dr. Nattisa Niyomtham

Walailak University International College of Dentistry	Tel. Fax Email	02-299-0935 - Nattisa.ni@wu.ac.th
---	----------------------	---

1. Educations (from latest year)

Degree	Program/Institute	Year
Ph.D.	Ramkhamhaeng University	2014
M.Sc.	Ramkhamhaeng University	2009
B.D.S.	Ramkhamhaeng University	2007

2. Working Experience (from latest year)

Position – Organization or Institute	Year
Postdoctoral Fellow, Thammasat University, Thailand	2017-2018
Postdoctoral Fellow, Ramkhamhaeng University, Thailand	2016-2017
Postdoctoral Fellow, Université de Nice Sophia Antipolis, France	2015-2016
Research Training, University of Toronto, Canada	2012-2013
Research Assistant, Chulabhorn Research Institute, Thailand	2007-2008

3. Expertise

- 1) Natural Product Chemistry
- 2) Synthetic Organic Chemistry
 - Structure Modification of Natural Products
 - Solid Phase Synthesis of Cationic Lipids
- 3) DNA Delivery Systems

4. Teaching Experience

Yes No

Institutes	Faculty/Dept.	Programs	Subjects	Year

5. Publications (latest 5 years)

5.1 Research articles

- 1) Utispan, K., **Niyomtham, N.**, Yingyongnarongkul, B.-E., Koontongkaew, S.
Ethanollic Extract of Ocimum sanctum Leaves Reduced Invasion and Matrix

- Metalloproteinase Activity of Head and Neck Cancer Cell Lines. *Asian Pacific journal of cancer prevention*, 2020, 21(2), 363-370
- 2) Pengnam, S., Plainwong, S., Patrojanasophon, P., Rojanarata, T., Ngawhirunpat, T., Radchatawedchakoon, W., **Niyomtham, N.**, Yingyongnarongkul, B.-E., Opanasopit, P. Effect of hydrophobic tails of plier-like cationic lipids on nucleic acid delivery and intracellular trafficking. *International Journal of Pharmaceutics*, 2020, 573, 118798
 - 3) Radchatawedchakoon W., **Niyomtham N.**, Thongbamrer, C. Posa, C., Sakee, U., Roobsoong, W., Sattabongkot, J., Opanasopit, P., Yingyongnarongkul, B. Pliers-like cationic lipids as novel gene carrier for transfection. *Russian Journal of Bioorganic Chemistry*, 2020, **in press**
 - 4) Thongbamrer, C., **Niyomtham, N.**, Chaiwut, C., Posa C., Apiratikul, N., Sangvichien, Ek., Opanasopit, P. Sakee, U., Yingyongnarongkul, B.-E., Radchatawedchakul, W. Headgroup modification of cholesterol-based cationic lipids: Synthesis, transfection efficiency evaluation, and serum compatibility, *Songklanakarin J. Sci. Technol.* 42 (1), 213-221, 2020
 - 5) Pengnam, S., Plainwong, S., Singpanna, K., **Niyomtham, N.**, Radchatawedchakoon, W., Yingyongnarongkul, B.-E., Opanasopit, P. Pegylated plier-like cationic niosomes on gene delivery in hela cells. *Key Engineering Materials*, 2019, 819, 151-156
 - 6) Pengnam, S., Tonglairoum, P., **Niyomtham, N.**, Yingyongnarongkul, B., Opanasopit, P.; Plainwong, S. Effect of squalane on the spermine-based cationic niosomes for gene delivery. *Thai Bull. Pharm. Sci.* 2018, 13-24.
 - 7) Pamornpathomkul, B.; **Niyomtham, N.** Yingyongnarongkul, B. Prasitpuriprecha, C. Rojanarata, T., Ngawhirunpat, T., Opanasopit, P. Cationic Niosomes for Enhanced Skin Immunization of Plasmid DNA-Encoding Ovalbumin via Hollow Microneedles. *AAPS Pharm. Sci. Tech.* 2018, 481-488.
 - 8) Wecharangsan, W. Opanasopit, P. **Niyomtham, N.**, Yingyongnarongkul, B. Kewsuwan, P. Lee, R.J. Synergistic Inhibition of Human Carcinoma Cell Growth via Co-Delivery of p53 Plasmid DNA and bcl-2 Antisense Oligodeoxyribonucleotide by Cholic Acid-modified Polyethylenimine. *Anticancer. Res.* 2017, 6335-6340.

- 9) Opanasopit, P. Leksantikul, L. **Niyomtham, N.** Rojanarata, T. Ngawhirunpat, T., Yingyongnarongkul, B. Cationic niosomes an effective gene carrier composed of novel spermine-derivative cationic lipids: effect of central core structures. *Pharm. Dev. Technol.* 2017, 350-359.
- 10) Sanitt, P.; Apiratikul, N.; **Niyomtham, N.**; Yingyongnarongkul, B.; Assavalapsakul, W.; Panyim, S.; Udomkit, A. Cholesterol-based cationic liposome increases dsRNA protection of yellow head virus infection in *Penaeus vannamei*. *J. Biotechnol.* 2016, 228, 95-102.
- 11) Aroonrerk, N., **Niyomtham, N.**, Yingyongnarongkul, B. Anti-inflammation of N-benzyl-4-bromobenzamide in Lipopolysaccharide-induced Human Gingival Fibroblasts. *Med. Prin. Pract.* 2016, 25, 130-136.
- 12) Wecharangsan, W., Paecharoenchai, O., **Niyomtham, N.**, Opanasopit, P.; Yingyongnarongkul, B.; Lee, R.J. Cholic acid-modified polyethylenimine for gene delivery into human carcinoma cells. *Adv. Mat. Res.* 2015, 3-6.
- 13) **Niyomtham, N.**, Apiratikul N., Suksen, K., Opanasopit, P., Yingyongnarongkul, B. Synthesis and in vitro transfection efficiency of spermine-based cationic lipids with different central core structures and lipophilic tails. *Bioorg. Med. Chem. Lett.* 2015, 25, 496–503.

5.2 Proceeding

- 1) Kumpaaree, P., **Niyomtham, N.**, Apiratikul, N., Yingyongnarongkul, B. Synthesis of novel neutral helper lipids with amino acids as polar heads. *Proceeding in Pure and Applied Chemistry International Conference 2018*, 1099-1104
- 2) Posa, C., **Niyomtham, N.**, Kumpun, S., Yingyongnarongkul, B. Synthesis of cationic lipids with guanidine and cyclic guanidine polar head. *Proceeding in Pure and Applied Chemistry International Conference 2018*, 1181-1186.

5.3 Review articles

5.4 Book Chapters

5.5 Patents

6. Awards

Awards	Year

WUICED