

Curriculum Vitae

Name	Assist. Prof. Rathapon Asasutjarit, Ph.D.
Areas of Expertise	1. Application of polymers and surfactants as drug and cosmetic delivery systems 2. Nanotechnology for drug and cosmetic delivery 3. Skin and Ophthalmic drug delivery
Email address	rathapona@hotmail.com; rathapon@tu.ac.th

Qualifications			
Degree	Title	Year (B.E.)	University
Ph. D.	Ph. D. in Pharmaceutics	2007 (2550)	Chulalongkorn University, Bangkok, Thailand
M. Sc.	M. Sc. in Pharmaceutics	2002 (2545)	Chulalongkorn University, Bangkok, Thailand
B. Sc.	B. Sc. in Pharmacy (1 st Class Honor)	1998 (2541)	Chulalongkorn University, Bangkok, Thailand

Publications

- Asasutjarit R**, Theerachayanan T, Kewsuwan P, Veeranondha S, Fuongfuchat A, Ritthidej GC.
Gamma sterilization of diclofenac sodium loaded- N-trimethyl chitosan nanoparticles for ophthalmic use. **Carbohydr. Polym.** 2017; 157: 603-612. DOI:0.1016/j.carbpol.2016.10.029.
- Asasutjarit R**, Theerachayanan T, Kewsuwan P, Veeranondha S, Fuongfuchat A, Ritthidej GC.
Development and evaluation of diclofenac sodium loaded-N-trimethyl chitosan nanoparticles for ophthalmic use. **AAPS PharmSciTech.** 2015; 16 (5): 1013-1024. DOI: 10.1208/s12249-015-0290-4.
- Asasutjarit R**, Larpmahawong P, Fuongfuchat A, Sareedenchai V, Veeranondha S.
Physicochemical properties and anti-*Propionibacterium acnes* activity of film forming solutions containing alpha-mangostin rich extract. **AAPS PharmSciTech.** 2014; 15 (2): 306-316. DOI:10.1208/s12249-013-0057-8.
- Asasutjarit R**, Sorrachaitawatwong C, Tipchuwong N, Pouthai S. Effect of formulation compositions on particle Size and zeta potential of diclofenac sodium-loaded chitosan nanoparticles. **World Academy of Science, Engineering and Technology: International Journal of Pharmaceutical Sciences.** 2013; 7 (9): 454-456.
- Uthumpa C, Indranupakorn R, **Asasutjarit R**. Development of nanoemulsion formulations of ginger extract. **Adv Mater Res.** 2013; 68: 12-15.
- Ukosaramik P, Tangyuenyongwatana P, and **Asasutjarit R**. Microemulsion formulation of *Angelica sinensis* root extract on clove oil/nonionic surfactant/water mixture. **Thai J. Pharm. Sci.** 2012; 36 (Suppl): 166-169.
- Wichitchan R, Tangyuenyongwatana P, and **Asasutjarit R**. Preparation and characterizations of microemulsion of *Zingiber cassumunar* rhizomes extract. **Thai J. Pharm. Sci.** 2012; 36 (Suppl): 170-173.
- Asasutjarit R**, Thanasanchokpibull S, Fuongfuchat A, Veeranodha S. Optimization and evaluation of thermoresponsive diclofenac sodium ophthalmic in situ gels. **Int. J. Pharm.** 2011; 411: 128-135.

- Asasutjarit R**, and Maluangnont K. Effect of Encouragement Methods for Lesson Review on Learning Achievement in the Topic of Rheology of Pharmacy Students at Rangsit University. **Journal of Srinakharinwirot Research and Development (Human Sciences and Social Sciences)**. 2010; 2 (suppl. 1): 157-166.
- Asasutjarit R**. A topical DNA vaccine using nanoparticles: A newly promising and painless vaccination. **Bull. Health, Sci. & Tech.** 2009; 9(1-2): 1-10.
- Asasutjarit R**, and Fuongfuchat A. Development of thermoresponsive diclofenac ophthalmic in situ gel formulations. **Proceedings of RSU Research Conference 2009**, Apr 2; Rangsit University, 2009. p. 2-8.
- Asasutjarit R**. Formulation of thermoresponsive diclofenac ophthalmic gels using the rheological approach. **Bull. Health, Sci. & Tech.** 2008; 8(1): 35-44.
- Asasutjarit R**, Lorenzen S, Sirivichayakul S, Ruxrungtham K, Ruktanonchai U, Ritthidej GC. Effect of Solid Lipid Nanoparticles Formulation Compositions on Their Size, Zeta potential and Potential for In Vitro pHIS-HIV-hugag Transfection. **Pharm. Res.** 2007; 24: 1098-1107.
- A-sasutjarit R**, Sirivat A, Vayumhasuwan P. Viscoelastic properties of carbopol 940 gels and their relationships to piroxicam diffusion coefficients in gel bases. **Pharm. Res.** 2005; 22:2134-2140.

Conferences

- Papawee Sookdee, **Rathapon Asasutjarit**, Arunporn Itharat. Effect of activated carbon on anti-inflammatory activity and physicochemical properties of product containing Sahasthara remedy extract. Annual Academic Meeting in Medicine "Patient-Centered Care", Faculty of Medicine, Thammasat University, Thailand. June 20-22, 2016 (poster presentation).
- Rathapon Asasutjarit**, Thitaree Theerachayanan, Prartana Kewsuwan, Sukitaya Veeranondha, Asira Fuongfuchat and Garnpimol C. Ritthidej. Sterilization of diclofenac sodium-loaded trimethylchitosan nanoparticles for ophthalmic use by gamma-irradiation. FIP 2015: 75th FIP's World Congress of Pharmacy and Pharmaceutical Sciences, Congress Centre Düsselldorf, Düsselldorf, Germany. September 29-October 3, 2015 (poster presentation).

Rathapon Asasutjarit, Chayanid Sorrachaitawatwong, Nardauma Tipchuwong, and Sirijit Pouthai.

Effect of Formulation Compositions on Particle Size and Zeta Potential of Diclofenac Sodium-Loaded Chitosan Nanoparticles. ICPPS 2013: International Conference on Pharmacy and Pharmaceutical Sciences, River View Hotel Singapore, Singapore 12-13 September, 2013 (oral presentation).

Rathapon Asasutjarit, Papassara Larpmahawong, Vipaporn Sareedenchai, Asira Fuongfuchat, Development of Film Forming Lotion Containing Mangosteen Peel Extract against Bacteria causing Acne. The 9th Annual Meeting of National Thai Medicine, Folk Medicine and Alternative Medicine. Impact Exhibition and Convention Center, Muang Thong Thani, Nonthaburi, 5-6 September, 2012 . (*Compliment Award, Oral presentation*)

Rathapon Asasutjarit, Somchai Luangsanam, Narong Moolsri, and Asira Fuongfuchat. Effect of autoclaving on physicochemical properties of thermoresponsive diclofenac sodium ophthalmic in situ gels. The 27th Annual Research Meeting in Pharmaceutical Sciences, Chulalongkorn University, Thailand, 2010 (poster presentation).

Rathapon Asasutjarit and Kusawadee Maluangnont. Effect of Encouragement Methods for Lesson Review on Learning Achievement in the Topic of Rheology of Pharmacy Students at Rangsit University. The 4th Annual Research Meeting of Srinakarinwirot University, 2010 (poster presentation).

Rathapon Asasutjarit, Chanwit Kammat, Thumrongrat Pukpinyo, Watunya Witisil, Suthira Thanasanchokepibull, Susiri Preedasuttichit and Asira Fuongfuchat. Evaluation of sustained release effect of thermoresponsive diclofenac sodium ophthalmic in situ gel. The 26th Annual Research Meeting in Pharmaceutical Sciences, Chulalongkorn University, Thailand, 2009 (poster presentation).

Rathapon Asasutjarit and Asira Fuongfuchat. Development of thermoresponsive diclofenac ophthalmic in situ gel formulations. RSU Research Conference 2009, Rangsit University, Thailand, 2009. (*Outstanding Award, Oral Presentation*)

Rathapon Asasutjarit, Chanwit Kammat, Thumrongrat Pukpinyo, Watunya Witisil, Suthira Thanasanchokepibull, Susiri Preedasuttichit and Asira Fuongfuchat. Thermoresponsive diclofenac sodium ophthalmic in situ gels. The 25th Annual Research Meeting in Pharmaceutical Sciences, Chulalongkorn University, Thailand, 2008 (poster presentation).

Rathapon Asasutjarit, Chanwit Kammat, Thumrongrat Pukpinyo, Watunya Witisil, Suthira Thanasanchokpibull, Susiri Preedasuttichit and Asira Fuongfuchat. Thermoresponsive diclofenac sodium ophthalmic in situ gels. The 25th Annual Research Meeting in Pharmaceutical Sciences, Chulalongkorn University, Thailand, 2008 (poster presentation).

Rathapon Asasutjarit, Kitti Sermklar, Panya Kaewmafai, Anukul Chatpailsalsakul and Kusawadee Maluangnont. Factors influencing learning achievement in rheological topic of pharmacy students, Rangsit University, academic year 2007, The 25th Annual Research Meeting in Pharmaceutical Sciences, Chulalongkorn University, Thailand, 2008 (poster presentation).

Rathapon Asasutjarit, Tharinee Kaewpalurg, Wara Sripinyo and Benchawan Chamsai. Formulation of thermosetting diclofenac ophthalmic gels using rheological approach, The 24th Annual Research Meeting in Pharmaceutical Sciences, Chulalongkorn University, Thailand, 2007 (poster presentation).

Rathapon Asasutjarit, Sven-Iver Lorenzen, Sunee Sirivichayakul, Kiat Ruxrungham, Uracha Ruktanonchai, Richard H. Guy, and Garpimol C. Ritthidej, Delivery of pHIS-HIV- hugag into Skin using Solid Lipid Nanoparticles and Chitosan Nanoparticles, The 24th Annual Research Meeting in Pharmaceutical Sciences, Chulalongkorn University, Thailand, 2007 (poster presentation).

Rathapon Asasutjarit, Sven-Iver Lorenzen, Sunee Sirivichayakul, Kiat Ruxrungham, Uracha Ruktanonchai, Richard H. Guy, and Garpimol C. Ritthidej, Delivery of pHIS-HIV- hugag into Skin using Solid Lipid Nanoparticles and Chitosan Nanoparticles, The 34th Annual Meeting and Exposition of the Controlled Release Society Long Beach Convention Center, Long Beach, CA. USA, 7-11 July 2007 (poster presentation).

Rathapon Asasutjarit, Uracha Rungsardthong, and Garpimol C. Ritthidej, Effect of Formulation Compositions on Zeta Potential and Ability of Solid Lipid Nanoparticles to Form Complex with Plasmid DNA, The 33rd Annual Meeting and Exposition of the Controlled Release Society, Austria Center, Vienna, Austria, 22-26 July 2006 (poster presentation).

Rathapon A-sasutjarit, Anuvat Sirivat and Panida Vayumhasuwan, Viscoelastic Properties of Carbopol 940 gels and Their Relationships to Piroxicam Diffusion Coefficients, The 19th Annual Research Meeting in Pharmaceutical Sciences, Chulalongkorn University, Thailand ,2002 (poster presentation).

Research Grant

Year (B.E.)	Project Title	Status	Granting Agency
2559-present	Development of topical nanoemulsion containing Benjakul remedy extract for anti-inflammation	Principal investigator	National Research Council of Thailand/Thammasat University
2557-2559	Film forming spray containing Sahathara remedy extract for anti-inflammation	Principal investigator	National Research Council of Thailand/Thammasat University
2557-2559	Effect of gamma irradiation sterilization on physicochemical properties of diclofenac sodium loaded trimethylchitosan nanoparticles for ophthalmic drug delivery	Principal investigator	Thammasat University
2555-2557	Ophthalmic delivery of diclofenac sodium using trimethylchitosan nanoparticles	Principal investigator	Thailand Research Fund
2555-2556	Development of topical microemulsions containing banana fruit extract (<i>Musa sapientum</i> L.) for anti-allergy and anti-inflammation	Principal investigator	National Research Council of Thailand/Thammasat University
2553-2554	Effect of autoclave sterilization on physicochemical properties of thermoresponsive diclofenac sodium ophthalmic in situ gels	Principal investigator	Faculty of Pharmacy, Srinakhrinwirot University
2551-2552	Effect of formulation compositions on physicochemical properties and ability to form gel of thermoresponsive diclofenac sodium ophthalmic in situ gels	Principal investigator	Rangsit University
2551-2552	Effect of Encouragement Methods for Lesson Review on Learning Achievement in the Topic of Rheology of Pharmacy Students at Rangsit University	Principal investigator	Rangsit University

Awards and Prizes

2016 (2559 B.E.)

Award for the best lecturer in Pharmaceutical Sciences, Faculty of Pharmacy, Thammasat University, year 2559.

2015 (2558 B.E.)

Outstanding award for the best research in Medical Sciences entitled “Development and evaluation of diclofenac sodium loaded-N-trimethyl chitosan nanoparticles for ophthalmic use”. Researcher Day, Thammasat University, year 2558.

2012 (2555 B.E.)

Compliment Award for the oral presentation of Development of Film Forming Lotion Containing Mangosteen Peel Extract against Bacteria causing Acne. The 9th Annual Meeting of National Thai Medicine, Folk Medicine and Alternative Medicine. Impact Exhibition and Convention Center, Muang Thong Thani, Nonthaburi, 5-6 September, 2012 .

2011 (2554 B.E.)

Award for International Publications “60 years of SWU: 300 international publications for stepping to be National Research University Songkran 2553-Songkran 2554”; Optimization and evaluation of thermoresponsive diclofenac sodium ophthalmic in situ gels. **Int. J. Pharm.** 2011; 411: 128-135.

2009 (2552 B.E.)

Outstanding Award for the oral presentation of Development of thermoresponsive diclofenac ophthalmic in situ gel formulations. RSU Research Conference 2009, Rangsit University, Thailand, 2009.