

Curriculum Vitae

Pitak Chuawong

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EDUCATION

- Ph.D. in Chemistry (Organic and Bio-Organic Chemistry)** 2006
 The Johns Hopkins University, Baltimore, MD, USA
 Thesis entitled "Characterization of the Indirect Pathway for Asn-tRNA^{Asn} Biosynthesis
 Used by the Human Pathogen *Helicobacter pylori*"
- M.A. in Chemistry (Organic and Bio-Organic Chemistry)** 2003
 The Johns Hopkins University, Baltimore, MD, USA
- M.S. in Chemistry (Organometallic Chemistry)** 2001
 Oregon State University, Corvallis, OR, USA
 Thesis entitled "Synthesis, Characterization, and Reactivity of Rhenium Dithiodiolate and
 Monothiodiolate Complexes"
- B.Sc. in Chemistry (First class honors)** 1999
 Kasetsart University, Bangkok, Thailand

CURRENT POSITION

Associate Professor of Organic Chemistry	Kasetsart University Department of Chemistry	February, 2018 – present
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PROFESSIONAL EXPERIENCE

<i>Assistant Professor of Chemistry</i>	Kasetsart University (Department of Chemistry)	November, 2013 – January, 2018
<i>Lecturer/Research Scientist</i>	Kasetsart University (Department of Chemistry)	October, 2006 – October, 2013
<i>Visiting Research Scientist</i> (Host: Professor Tamara Hendrickson)	Wayne State University, U.S.A. (Department of Chemistry)	October-November, 2010
<i>Visiting Research Scientist</i>	Tsukuba University, Japan (Department of Chemistry)	March 2010

(Internship Program for Asian Young Researchers in the Field of Life Sciences and Bioengineering)

Visiting Research Scientist

Nagoya University, Japan

August-September, 2009

(Host: Professor Toshio Nishikawa)

(JSPS-NRCT Program)

AWARDS AND HONORS

The 2018 Fulbright Thai Visiting Scholar Program (TVS)	2018
Lectureship Award (ICCEOCA 8 th , Osaka, Japan)	2013
Outstanding Academic Staff for Academic Service (Kasetsart University)	2007
Alexander Kossiakoff Award (Johns Hopkins University)	2002
The DPST Scholarship from the Institute for the Promotion of Teaching Science and Technology, Bangkok, Thailand	1995 - 2006

COURSES TAUGHT**At Kasetsart University**

01403123	Organic Chemistry for Medical Sciences
01403223	Organic Chemistry I
01403225	Organic Chemistry Laboratory
01403423	Biological Chemistry
01403527	Bioorganic Chemistry
01403691	Advanced Research Methodology in Chemistry
01403622	Methodologies in Organic Synthesis
01403624	Frontier Research in Organic Chemistry

At Mahidol University International College (MUIC)

ICCH471	Bioorganic Chemistry
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PUBLICATIONS

- 1) Sudhan, D., Puttamuk, T., Vuttipongchaikij, S., Chuawong, P. "Cloning, Overexpression, and Purification of a Gene of Unknown Function of Prophage Loci from '*Candidatus* Liberibacter Asiaticus,' the Destructive Bacterial Pathogen of Huanglongbing Disease in Citrus Plants" *Protein Expr Purif.*, **2018**, 15, 72-80.
- 2) Sangsuwan, W., Kongkathip, B., Chuawong, P., Kongkathip, N. "Total Synthesis of (+)-epiquinamide and (+)-*epie*quiquinamide from D-Mannose" *Tetrahedron* **2017**, 73, 7274-7281.
- 3) Songsiriritthigul, C., Suebka, S., Chen, C., Fuengfuloy, P., Chuawong, P. "Crystal Structure of the N-Terminal Anticodon-Binding Domain of the Nondiscriminating Aspartyl-tRNA Synthetase from *Helicobacter pylori*" *Acta Cryst. F* **2017**, F73, 62-69.
- 4) Sumrit, P., Chuawong, P., Nanok, T., Duangthongyou, T., Hormnirun, P. "Aluminum Complexes Containing Salicylbenzoxazole Ligands and Their Application in the Ring-Opening Polymerization of *rac*-lactide and ϵ -caprolactone" *Dalton Trans.* **2016**, 45, 9250-9266.
- 5) Rukkijakan, T., Ngiswara, L., Lirdprapamongkol, K., Svasti, J., Phetrak, N., Chuawong, P. "A Synthetic 2,3-Diarylindole Induces Cell Death via Apoptosis and Autophagy in A549 Lung Cancer Cells" *Bioorg. Med. Chem. Lett.* **2016**, 26, 2119-2123.

- 6) Vitayakritsirikul, V., Jaemsaeng, R., Lohmaneeratana, K., Thanapipatsiri, A., Daduang, R., Chuawong, P., Thamchaipenet, A. "Improvement of Chloramphenicol Production in *Streptomyces venezuelae* ATCC 10712 by Overexpression of the *aroB* and *aroK* Genes Catalyzing Steps in the Shikimate Pathway" *Antonie van Leeuwenhoek* **2016**, 109, 379-388.
- 7) Tabthong, S., Nanok, T., Sumrit, P., Kongsaree, P., Prabpai, S., Chuawong, P., Hormnirun, P. "Bis(pyrrolidine) Schiff Base Aluminum Complexes as Isolelective-Biased Initiators for the Controlled Ring-Opening Polymerization of *rac*-Lactide: experimental and Theoretical Studies" *Macromolecules* **2015**, 48, 6846-6861.
- 8) Theppawong, A., Ploypradith, P., Chuawong, P., Ruchirawat, S., Chittchang, M., "Facile and Divergent Synthesis of Lamellarins and Lactam-Containing Derivatives with Improved Drug Likeness and Biological Activities" *Chem Asian J.*, **2015**, 10(12), 2631-2650.
- 9) Klinchan, C., Hsu, Y., Lo, L., Pluempanupat, W., Chuawong, P., "Synthesis of Non-Hydrolyzable Substrate Analogs for Asp-tRNA^{Asn}/Glu-tRNA^{Gln} Amidotransferase" *Tetrahedron Lett.*, **2014**, 55(45), 6204-6207.
- 10) Phetrak, N., Rukkijakan, T., Sirijaraensre, J., Prabpai, S., Kongsaree, P., Klinchan, C., Chuawong, P., "Regioselectivity of Larock Heteroannulation: A Contribution from Electronic Properties of Diarylacetylenes" *J. Org. Chem.*, **2013**, 78(24), 12703-12709.
- 11) Fuengfuloy, P., Chuawong, P., Suebka, S., Wattana-amorn, P., Williams, C., Crump, M., Songsirithigul, C., "Overproduction of the N-terminal Anticodon-binding Domain of the Non-discriminating Aspartyl-tRNA Synthetase from *Helicobacter pylori* for Crystallization and NMR Measurements" *Protein Expr Purif.*, **2013**, 89, 25-32.
- 12) Silva, G. N., Fatma, S., Floyd, A. M., Fischer, F., Chuawong, P., Cruz, A. N., Simari, R. M., Joshi, N., Kern, D., Hendrickson, T. L., "A tRNA-independent Mechanism for Transamidosome Assembly Promotes Aminoacyl-tRNA Transamidation" *J. Biol. Chem.*, **2013**, 288, 3816-3822.
- 13) Kongkathip, N., Pradidphol, N., Hasitapan, K., Grigg, R., Kao, W., Hunte, C., Fisher, N., Warman, A., Biagini, G. A., Kongsaree, P., Chuawong, P., Kongkathip, B., "Transforming Rhinacanthin Analogues from Potent Anticancer Agents into Potent Antimalarial Agents" *J. Med. Chem.*, **2010**, 53, 1211-1221
- 14) Cathopoulos, T., Chuawong, P., and Hendrickson, T. L., "Conserved Discrimination Against Misacylated tRNAs by Two Mesophilic Elongation Factor Tu Orthologs" *Biochemistry*, **2008**, 47(29), 7610-6
- 15) Cathopoulos, T., Chuawong, P., and Hendrickson, T. L., "Novel tRNA Aminoacylation Mechanisms" *Molecular Biosystems*, **2007**, 3, 408-418
- 16) Cathopoulos, T., Chuawong, P., and Hendrickson, T. L., "A Thin-Layer Electrophoretic Assay for Asp-tRNA^{Asn}/Glu-tRNA^{Gln} Amidotransferase" *Anal. Biochem.*, **2007**, 360, 151-153.
- 17) Stanley, A. M., Chuawong, P., Hendrickson, T. L., and Fleming, K. G., "Lipid Chain Selectivity by Outer Membrane Phospholipase A" *J. Mol. Biol.*, **2007**, 366(2), 461-8.
- 18) Chuawong, P., Hendrickson, T. L., "The Nondiscriminating Aspartyl-tRNA Synthetase from *Helicobacter pylori*: Anticodon-Binding Domain Mutations That Impact tRNA Specificity and Heterologous Toxicity" *Biochemistry*, **2006**, 45(26), 8079-8087
- 19) Stanley, A. M., Chuawong, P., Hendrickson, T. L., Fleming, K.G., "Energetics of outer membrane phospholipase A (OMPLA) dimerization." *J. Mol. Biol.*, **2006**, 358(1), 120-31
- 20) Gable, K. P., Khownium, K., Chuawong, P., "Reaction of Strained-Ring Heterocycles with a Rhenium(V) Dioxo Complex" *Organometallics*, **2004**, 23(22), 5268-5274

- 21) Gable, K. P., Chuawong, P., Yokochi, A. F. T., "Thermal Stability of Tris(3,5-dimethylpyrazolyl)hydridoboratorhenium(V)(oxo)-(1,2-dithiolate) and -(1,2-monothiodiolate) Complexes and DFT Studies of C-S Bond Cleavage" *Organometallics*, **2002**, 21(5), 929-933

PRESENTATIONS

- 1) Poster presentation at the 8th International Conference on Cutting-Edge Organic Chemistry in Asia (ICCEOCA-5), November 25-28, 2013, Osaka, Japan
- 2) Poster presentation at the 2011 International Conference on Aminoacyl-tRNA Synthetases, September 25-30, 2011, Salt Lake City, UT, USA.
- 3) Poster presentation at the 5th International Conference on Cutting-Edge Organic Chemistry in Asia (ICCEOCA-5), November 7-11, 2010, Hsinchu, Taiwan (R.O.C.)
- 4) Poster presentation at the 2008 International Conference on Aminoacyl-tRNA Synthetases, September 7-11, 2008, Veyrier du Lac, France.
- 5) Poster presentation at the 2006 International Conference on Aminoacyl-tRNA Synthetases, October 1st – 6th 2006, San Diego, CA, USA.

INVITED LECTURES

- 1) The 11th International Kasetsart University Science and Technology Annual Research Symposium (iKUSTAR), Bangkok, Thailand, May 29th – 30th, 2019.
- 2) The 6th NRCT-IFS-PERCH-CIC Workshops, Chiang Mai, Thailand, February 19th – 24th, 2019.
- 3) Bristol Tackles Global Challenges Conference, Bristol, U.K., March 13th -17th, 2017.
- 4) PERCH-CIC Congress IX, Pattaya, Chonburi, Thailand, June 26th - 29th, 2016.
- 5) Department of Chemistry, National Sun Yat-Sen University, Kaohsiung, Taiwan R.O.C., December 11th, 2014.
- 6) Department of Chemistry, National Tsing Hua University, HsinChu, Taiwan R.O.C., December 10th, 2014.
- 7) Department of Chemistry, National Taiwan Normal University, Taipei, Taiwan R.O.C., December 9th, 2014.
- 8) Synchrotron Light Research Institute (Public Organization), Nakhon Ratchasima, Thailand, June 18th, 2014.
- 9) Department of Chemistry, Oregon State University, Corvallis, USA, October 7th, 2011.
- 10) Department of Chemistry, Srinakharinwirot University, Bangkok, Thailand, June 23rd, 2008.
- 11) Department of Chemistry, Ramkhamhang University, Bangkok, Thailand, February 20th, 2008.
- 12) Laboratory of Medicinal Chemistry, Chulabhorn Research Institute, Bangkok, Thailand, December 8th, 2006.