

# Curriculum Vitae (CV)

## Wutigri Nimlamool

---

Department of Pharmacology, Faculty of Medicine, Chiang Mai University  
Phone: 0896378793

Email: [wutigri.nimlamool@cmu.ac.th](mailto:wutigri.nimlamool@cmu.ac.th)



**Associate Professor Dr. Wutigri Nimlamool**

**DATE OF BIRTH**      January 8, 1982 (8 มกราคม พ.ศ. 2525)

### CURRENT POSITION

**2020-Current**      Associate Professor at Department of Pharmacology, Faculty of Medicine, Chiang Mai University, Thailand

**2017-2020**      Assistant Professor at Department of Pharmacology, Faculty of Medicine, Chiang Mai University, Thailand

**2015-2017**      Lecturer at Department of Pharmacology, Faculty of Medicine, Chiang Mai University, Thailand

### EDUCATION

**2008-2013**      Ph.D. Cell and Molecular Biology, Lehigh University, Department of Biological Sciences, PA, USA

**2000-2004**      B.S. Biology (honor), Khon Kaen University, Department of Biology, Thailand

## ACADEMIC HONORS AND AWARDS

- 2023-2026** ได้รับพระราชทานทุนส่งเสริมบัณฑิต แผนกแพทยศาสตรบัณฑิตทุนมูลนิธิอานันทมหิดล ประจำปี 2566
- 2022** รางวัลเกียรติยศ ศ.นพ.อวย เกตุสิงห์ รางวัลงานวิจัยเภสัชวิทยาของนักวิจัยรุ่นใหม่ สมาคมเภสัชวิทยาแห่งประเทศไทย
- 2008-2013** The Royal Thai scholar for pursuing a Doctoral Degree in the United States of America (นักเรียนทุนรัฐบาล กระทรวงวิทยาศาสตร์และเทคโนโลยี ปี 2550)
- 2011** Trainee Award from the American Society of Andrology
- 2004** Outstanding Undergraduate Research Award, Department of Biological Sciences, Faculty of Sciences, Khon Kaen University, Thailand

## RESEARCH EXPERIENCE AND EMPLOYMENT

- 2014-2015** **Postdoctoral Associate**, Yale University, School of Medicine, Department of Pharmacology, CT, USA
- Principle Investigator:** Dr. Benjamin E. Turk
- Project:** Rational Redesign of a Functional Protein Kinase-Substrate Interaction
- Establishing an orthogonal pair of kinase-substrate for studying the molecular mechanisms underlying cellular regulation. The study used Pim1 Kinase and BAD protein as a model for probing the consequence of kinase and substrate modification.
- 2013-2014** **Postdoctoral Associate**, Lehigh University, Department of Biological Sciences, PA, USA
- Principle Investigator:** Dr. Matthias M. Falk
- Project:** Internalization of Cx43-based gap junction in response to vascular endothelial growth factor (VEGF)
- Investigating the molecular mechanisms underlying the inhibition of gap junction intercellular communication and the internalization of Cx43-based gap junctions in response to VEGF. Particularly, the project focused on studying phosphorylation of different serine residues on the C-terminal region of Cx43 by MAP kinase and protein kinase C signal transduction pathways. The mechanism of gap junction internalization such as clathrin-mediated endocytosis was also studied.

**2008-2013**

**Graduate Research Fellow:** Lehigh University, Department of Biological Sciences, PA, USA

**Advisor 1:** Dr. Linda J. Lowe-Krentz

**Project 1:** Human sperm CRISP-2 is released from the acrosome during the acrosome reaction and reassociates to the Equatorial Segment

- This work was done in the previous laboratory, but dissertation writing was continued in this lab due to death of my former advisor, Professor Barry S. Bean.

**Project2:** Heparin responses in vascular smooth muscle cells involve cGMP dependent protein kinase (PKG)

- Investigating the effects of heparin signaling pathway in deactivating ERK and Elk-1 and decreasing cell proliferation. In this project, studies using the PKG inhibitors and PKG knock down revealed that PKG is a key mediator involved in heparin signaling.
- *Techniques include mammalian cell culture, biochemical techniques, and confocal and fluorescence microscopy.*

**Advisor 2:** Dr. Barry S. Bean

**Project 1:** Mechanisms of relocalization of sperm cysteine rich secretory protein 2 (CRISP-2) during the acrosome reaction

**Project 2:** roles of mouse sperm membrane associated alpha-L-fucosidase in fertilization

- *Using enzyme assay, sperm protein purification, in vitro fertilization (IVF), and Intracytoplasmic Sperm Injection (ICSI)*

**2004-2007**

**Employed Researcher:** Chiang Mai University, Department of Clinical Immunology, Faculty of Associated Medical Sciences, Thailand

**Advisor:** Prof. Dr. Chatchai Tayapiwatana

**Project 1:** Production of Phage displaying leukocyte surface molecule for ligand tracing

- *Molecular cloning/Recombinant DNA technology*
- *Phage Display technique*

**Project 2:** Development of single chain variable fragment (scFv) intrabody for cancer therapies

- *Functional assay for various scFv<sub>s</sub>*
- *Adenoviral transduction to transfer therapeutic genes into target cells*

**Project 3:** Production of recombinant proteins for antibody production

- *Gene cloning and expression in E.coli*
- *Recombinant protein production and purification*
- *Animal immunization and screening of antibodies*

**2000-2004**

**Undergraduate Research:** KhonKaen University, Department of Biology, Faculty of Sciences, Thailand

**Advisor:** Dr.Sumpars Khunsook

- Characterization of alpha-L fucosidase in *Bos indicus* semen to study roles of this enzyme in the reproductive system.

#### **INVITED PRESENTATIONS AND SEMINARS**

November, 2014	Yale Pharmacology retreat, Yale University School of Medicine, New Haven, CT, USA
April, 2011	Annual meeting poster presentation, American Society of Andrology, Montreal, Quebec, Canada
March, 2011	Graduate student/Postdoc presentation, Department of Biological Sciences, Lehigh University, USA
October, 2011	Open house poster presentation, Department of Biological Sciences, Lehigh University, USA
October, 2010	Open house poster presentation, Department of Biological Sciences, Lehigh University, USA
October, 2009	Open house poster presentation, Department of Biological Sciences, Lehigh University, USA

## PUBLICATIONS (52 papers in PubMed)

1. Budluang P, Potikanond S, Wikan N, **Nimlamool W**. Pinostrobin Inhibits Nuclear Factor-Kappa B Signaling and Production of Inflammatory Cytokines and Chemokines in Human Macrophages. *Nutrients*. 2025 Nov 17;17(22):3589. doi: 10.3390/nu17223589.
2. Bunyatrachata O, **Nimlamool W**, Sangin S. The Impact of Centrifugation Devices and Collection Tubes on Fibrin Characteristics and Growth Factor Release Under High- and Low-Speed Protocols. *Dent J (Basel)*. 2025 Oct 17;13(10):476. doi: 10.3390/dj13100476.
3. Rodwattanagul S, Wongrattanakamon P, Chaichit S, Chittasupho C, **Nimlamool W**, Hennink WE, Okonogi S. Exploring the antioxidant, antiglycation, and anti-inflammatory potential of *Oroxylum indicum* stem bark extracts. *PLoS One*. 2025 Jun 12;20(6):e0325795. doi: 10.1371/journal.pone.0325795. *Dent J (Basel)*. 2025 Oct 17;13(10):476. doi: 10.3390/dj13100476.
4. Kiatsoonthon K, Phimthong N, Potikanond S, Wikan N, **Nimlamool W**. Panduratin A Inhibits TNF Alpha-Stimulated Endothelial Cell Activation Through Suppressing the NF- $\kappa$ B Pathway. *Biomolecules*. 2024 Dec 30;15(1):34. doi: 10.3390/biom15010034.
5. Yeewa R, Pohsa S, Yamsri T, Wongkumool W, Jantaree P, Potikanond S, Nimlamool W, Shotelersuk V, Lo Piccolo L, Jantrapirom S. The histone acylation reader ENL/AF9 regulates aging in *Drosophila melanogaster*. *Neurobiol Aging*. 2024 Dec;144:153-162. doi: 10.1016/j.neurobiolaging.2024.10.002.
6. Thaklaewphan P, Wikan N, Potikanond S, **Wutigri Nimlamool**. Oxyresveratrol Enhances the Anti-Cancer Effect of Cisplatin against Epithelial Ovarian Cancer Cells through Suppressing the Activation of Protein Kinase B (AKT). *Biomolecules* 2024, 14(9), 1140; <https://doi.org/10.3390/biom14091140>
7. Sookkhee S, Khamnoi P, Sastraruji T, Boonkum S, Wikan N, **Nimlamool W**. Synergistic Inhibition of Synbiotic Cultures among Lactobacilli and Plant Extracts against Vaginal Discharge Causing *Candida albicans*. *Nutrients*. 2024 Apr 30;16(9):1372. doi: 10.3390/nu16091372.
8. Tan B, Wikan N, Lin S, Thaklaewphan P, Potikanond S, **Nimlamool W**. Inhibitory actions of oxyresveratrol on the PI3K/AKT signaling cascade in cervical cancer cells. *Biomed Pharmacother*. 2024 Jan;170:115982. doi: 10.1016/j.biopha.2023.115982.
9. Tan B, Chiranthanut N, Chansakaow S, Sireeratawong S, Khonsung P, **Nimlamool W**, Takuathung MN, Lertprasertsuke N. Gastroprotective effects of Pikad Tri-phol-sa-mut-than herbal remedy on multiple gastric ulcer models in rats. *Heliyon*. 2023 Aug 19;9(8):e19297. doi: 10.1016/j.heliyon.2023.e19297. eCollection 2023 Aug.
10. Ruttanapattanakul J, Wikan N, Potikanond S, **Nimlamool W**. Combination of Pinocembrin and Epidermal Growth Factor Enhances the Proliferation and Survival of Human Keratinocytes. *Int J Mol Sci*. 2023 Aug 5;24(15):12450. doi: 10.3390/ijms241512450.
11. Ngamnok T, **Nimlamool W**, Amador-Noguez D, Palaga T, Meerak J. Efficiency of *Lactiplantibacillus plantarum* JT-PN39 and *Paenibacillus motobuensis* JT-A29 for Fermented Coffee Applications and Fermented Coffee Characteristics. *Foods*. 2023 Jul 29;12(15):2894. doi: 10.3390/foods12152894.
12. Lo Piccolo L, Umegawachi T, Yeewa R, Potikanond S, **Nimlamool W**, Prachayasittikul V, Gotoh Y, Yoshida H, Yamaguchi M, Jantrapirom S. A Novel *Drosophila*-based Drug Repurposing Platform Identified Fingolimod As a Potential Therapeutic for TDP-43 Proteinopathy. *Neurotherapeutics*. 2023 Jul 26. doi: 10.1007/s13311-023-01406-z.

13. Hankittichai P, Thaklaewphan P, Wikan N, Ruttanapattanakul J, Potikanond S, Smith DR, **Nimlamool W**. Resveratrol Enhances Cytotoxic Effects of Cisplatin by Inducing Cell Cycle Arrest and Apoptosis in Ovarian Adenocarcinoma SKOV-3 Cells through Activating the p38 MAPK and Suppressing AKT. *Pharmaceuticals (Basel)*. 2023 May 17;16(5):755. doi: 10.3390/ph16050755.
14. Rodwattanagul S, **Nimlamool W**, Okonogi S. Antioxidant, antiglycation, and anti-inflammatory activities of *Caesalpinia mimosoides*. *Drug Discov Ther*. 2023 May 15;17(2):114-123. doi: 10.5582/ddt.2023.01002.
15. Wikan N, Potikanond S, Hankittichai P, Thaklaewphan P, Monkaew S, Smith DR, **Nimlamool W**. Alpinetin Suppresses Zika Virus-Induced Interleukin-1 $\beta$  Production and Secretion in Human Macrophages. *Pharmaceutics*. 2022 Dec 14;14(12):2800. doi: 10.3390/pharmaceutics14122800.
16. Somwong K, Lertpatipanpong P, **Nimlamool W**, Panya A, Tragoolpua Y, Yongsawas R, Gritsanapan W, Pandith H, Baek SJ. Effect of *Holoptelea integrifolia* (Roxb.) Planch. n-Hexane Extract and Its Bioactive Compounds on Wound Healing and Anti-Inflammatory Activity. *Molecules*. 2022 Dec 4;27(23):8540. doi: 10.3390/molecules27238540.
17. Siriwoot Sookkhee, Choompone Sakonwasun, Pitchaya Mungkornasawakul, Phadungkiat Khamnoi, Nitwara Wikan and **Wutigri Nimlamool**. Synergistic Effects of Some Methoxyflavones Extracted from Rhizome of *Kaempferia parviflora* Combined with Gentamicin Against Carbapenem-Resistant Strains of *Klebsiella pneumoniae*, *Pseudomonas aeruginosa*, and *Acinetobacter baumannii*. *Plants (Basel)*. 2022 Nov 16;11(22):3128. doi: 10.3390/plants11223128.
18. Wikan N, Potikanond S, **Nimlamool W**. Alpinetin Suppresses Effects of TGF- $\beta$ 1 on Stimulating the Production and Organization of Fibrotic Markers in Human Primary Dermal Fibroblasts. *Cells* . 2022 Sep 1;11(17):2731. doi: 10.3390/cells11172731.
19. Bing Tan 1, Natthakarn Chiranthanut 2, Sunee Chansakaow 3, Seewaboon Sireeratawong 4, Parirat Khonsung 5, **Wutigri Nimlamool** 6, Mingkwan Na Takuathung 7, Nirush Lertprasertsuke. Anti-inflammatory effects of Pikad Tri-phol-sa-mut-than remedy, consisting of dried fruits of *Aegle marmelos* (L.) Corrêa, *Coriandrum sativum* L., and *Morinda citrifolia* L. *J Ethnopharmacol* . 2022 Aug 11;115639. doi: 10.1016/j.jep.2022.115639
20. Jirapak Ruttanapattanakul, Nitwara Wikan, Saranyapin Potikanond and **Wutigri Nimlamool**. Molecular Targets of Pinocembrin Underlying Its Regenerative Activities in Human Keratinocytes. *Pharmaceuticals* 2022, 15, 954. <https://doi.org/10.3390/ph15080954>
21. Wisit Thitinarongwate, **Wutigri Nimlamool**, Parirat Khonsung, Raktham Mektrirat and Puongtip Kunanusorn. Anti-Inflammatory Activity of Essential Oil from *Zingiber ottensii* Valetton in Animal Models. *Molecules* 2022, 27, 4260. <https://doi.org/10.3390/molecules27134260>
22. **Wutigri Nimlamool**, Sunee Chansakaow, Saranyapin Potikanond Nitwara Wikan, Phateep Hankittichai, Jirapak Ruttanapattanakul, and Phatarawat Thaklaewphan. The Leaf Extract of *Mitrephora chulabhorniana* Suppresses Migration and Invasion and Induces Human Cervical Cancer Cell Apoptosis through Caspase-Dependent Pathway. *Biomed Res Int*. 2022 May 12;2022:2028082. doi: 10.1155/2022/2028082. eCollection 2022.
23. Khantham C, Linsaenkart P, Chaitep T, Jantrawut P, Chittasupho C, Rachtanapun P, Jantanasakulwong K, Phimolsiripol Y, Sommano SR, Prom-U-Thai C, Jamjod S, Arjin C, Sringarm K, Berrada H, Barba FJ, Carmona FD, **Nimlamool W**, Ruksiriwanich W. Antioxidation, Anti-Inflammation, and Regulation of SRD5A Gene Expression of *Oryza sativa* cv. Bue Bang 3 CMU Husk and Bran Extracts as

Androgenetic Alopecia Molecular Treatment Substances. *Plants (Basel)*. 2022 Jan 26;11(3):330. doi: 10.3390/plants11030330.

24. Nitwara Wikan, Phateep Hankittichai, Phatarawat Thaklaewphan, Saranyapin Potikanond, and **Wutigri Nimlamool**. Oxyresveratrol Inhibits TNF- $\alpha$ -Stimulated Cell Proliferation in Human Immortalized Keratinocytes (HaCaT) by Suppressing AKT Activation. *Pharmaceutics* 2022, 14, 63.
25. Mingkwan NaTakuathung, Saranyapin Potikanond, Siriwoot Sookkhee, Pitchaya Mungkornasawakul, Thanathorn Jearanaikulvanich, Kittinan Chinda, Nitwara Wikan, **Wutigri Nimlamool**. Anti-psoriatic and anti-inflammatory effects of *Kaempferia parviflora* in keratinocytes and macrophage cells. *Biomedicine & Pharmacotherapy* (2021) 112229.
26. Ruttanapattanukul J, Wikan N, Chinda K, Jearanaikulvanich T, Krisanuruks N, Muangcha M, Okonogi S, Potikanond S, **Nimlamool W**. Essential Oil from *Zingiber ottensii* Induces Human Cervical Cancer Cell Apoptosis and Inhibits MAPK and PI3K/AKT Signaling Cascades. *Plants (Basel)*. 2021 Jul 12;10(7):1419. doi: 10.3390/plants10071419.
27. Thaklaewphan P, Ruttanapattanukul J, Monkaew S, Buatoom M, Sookkhee S, **Nimlamool W**, Potikanond S. *Kaempferia parviflora* extract inhibits TNF- $\alpha$ -induced release of MCP-1 in ovarian cancer cells through the suppression of NF- $\kappa$ B signaling. *Biomedicine & Pharmacotherapy* (2021) 111911.
28. Thitinarongwate W, Mekrirat R, **Nimlamool W**, Khonsung P, Pikulkaew S, Okonogi S, Kunanusorn P. Phytochemical and Safety Evaluations of *Zingiber ottensii* Valetton Essential Oil in Zebrafish Embryos and Rats. *oxics*. 2021 May 3;9(5):102. doi: 10.3390/toxics9050102.
29. Salinee Jantrapirom, Pannaphak Hirunsatitpron, Saranyapin Potikanond, **Wutigri Nimlamool**, and Nutthiya Hanprasertpong. Pharmacological Benefits of Triphala: A Perspective for Allergic Rhinitis. *Front. Pharmacol.* | doi: 10.3389/fphar.2021.628198
30. Khantham C, Yooiin W, Sringarm K, Sommano SR, Jiranusornkul S, Carmona FD, **Nimlamool W**, Jantrawut P, Rachtanapun P, Ruksiriwanich W. Effects on Steroid 5-Alpha Reductase Gene Expression of Thai Rice Bran Extracts and Molecular Dynamics Study on SRD5A2. *Biology (Basel)*. 2021 Apr 11;10(4):319. doi: 10.3390/biology10040319.
31. **Wutigri Nimlamool**, Saranyapin Potikanond, Jirapak Ruttanapattanukul, Nitwara Wikan, Siriporn Okonogi, Salinee Jantrapirom, Pornsiri Pitchakarn, and Jirarat Karinchai. *Curcuma amarissima* Extract Activates Growth and Survival Signal Transduction Networks to Stimulate Proliferation of Human Keratinocyte. *Biology* 2021, 10(4), 289
32. Jirapak Ruttanapattanukul, Nitwara Wikan, Siriporn Okonogi, Mingkwan Na Takuathung, Pensiri Buacheen, Pornsiri Pitchakarn, Saranyapin Potikanond, and **Wutigri Nimlamool**. *Boesenbergia rotunda* extract accelerates human keratinocyte proliferation through activating ERK1/2 and PI3K/Akt kinases. *Biomedicine & Pharmacotherapy* 133 (2021) 111002
33. Hankittichai P, Lou HJ, Wikan N, Smith DR, Potikanond S, **Nimlamool W**. Oxyresveratrol Inhibits IL-1 $\beta$ -Induced Inflammation via Suppressing AKT and ERK1/2 Activation in Human Microglia, HMC3. *Int J Mol Sci*. 2020 Aug 22;21(17):E6054. doi: 10.3390/ijms21176054.
34. Jantrapirom S, Piccolo LL, Pruksakorn D, Potikanond S, **Nimlamool W**. Ubiquitin Networking in Cancers. *Cancers*. 2020 Jun 15;12(6):E1586. doi: 10.3390/cancers12061586.

35. Jantrapirom S, **Nimlamool W**, Chattipakorn N, Chattipakorn S, Temviriyankul P, Inthachai W, Govitrapong P, Potikanond S. Liraglutide Suppresses Tau Hyperphosphorylation, Amyloid Beta Accumulation through Regulating Neuronal Insulin Signaling and BACE-1 Activity. *Int J Mol Sci*. 2020 Mar 3;21(5).
36. Hankittichai P, Buacheen P, Pitchakarn P, Na Takuathung M, Wikan N, Smith DR, Potikanond S, **Nimlamool W**. *Artocarpus lakoocha* Extract Inhibits LPS-Induced Inflammatory Response in RAW 264.7 Macrophage Cells. *Int J Mol Sci*. 2020 Feb 17;21(4).
37. Phaosri M, Jantrapirom S, Takuathung MN, Soonthornchareonnon N, Sireeratawong S, Buacheen P, Pitchakarn P, **Nimlamool W**, Potikanond S. *Salacia chinensis* L. Stem Extract Exerts Antifibrotic Effects on Human Hepatic Stellate Cells Through the Inhibition of the TGF- $\beta$ 1-Induced SMAD2/3 Signaling Pathway. *Int J Mol Sci*. 2019 Dec 13;20(24).
38. Zheng Z, Wu Y, Li Z, Ye L, Lu Q, Zhou Y, Yuan Y, Jiang T, Xie L, Liu Y, Chen D, Ye J, **Nimlamool W**, Zhang H, Xiao J. Valproic acid affects neuronal fate and microglial function via enhancing autophagic flux in mice after traumatic brain injury. *J Neurochem*. 2019 Oct 11. doi: 10.1111/jnc.14892. [Epub ahead of print]
39. Suradej B, Sookkhee S, Panyakaew J, Mungkornasawakul P, Wikan N, Smith DR, Potikanond S, **Nimlamool W**. *Kaempferia parviflora* Extract Inhibits STAT3 Activation and Interleukin-6 Production in HeLa Cervical Cancer Cells. *Int J Mol Sci*. 2019 Aug 29;20(17)
40. Koonrunsesomboon N, Potikanond S, Na Takuathung M, **Nimlamool W**, Karbwang J. Informational needs for participation in bioequivalence studies: the perspectives of experienced volunteers. *Eur J Clin Pharmacol*. 2019 Nov;75(11):1575-1582. doi: 10.1007/s00228-019-02738-6. Epub 2019 Aug 19.
41. Jantrapirom S, **Nimlamool W**, Temviriyankul P, Ahmadian S, Locke CJ, Davis GW, Yamaguchi M, Noordermeer JN, Fradkin LG, Potikanond S. Dystrobrevin is required postsynaptically for homeostatic potentiation at the Drosophila NMJ. *Biochim Biophys Acta Mol Basis Dis*. 19 Jun 1;1865(6):1579-1591
42. Potikanond S, **Nimlamool W**, Noordermeer J, Fradkin LG. Muscular Dystrophy Model. *Adv Exp Med Biol*. 2018;1076:147-172. doi: 10.1007/978-981-13-0529-0\_9. Review.
43. Paramee S, Sookkhee S, Sakonwasun C, Na Takuathung M, Mungkornasawakul P, **Nimlamool W**, Potikanond S. Anti-cancer effects of *Kaempferia parviflora* on ovarian cancer SKOV3 cells. *BMC Complement Altern Med*. 2018 Jun 11;18(1):178.
44. Potikanond S, Sookkhee S, Na Takuathung M, Mungkornasawakul P, Wikan N, Smith DR, **Nimlamool W**. *Kaempferia parviflora* extract exhibits anti-cancer activity against HeLa cervical cancer cells. *Front Pharmacol*. 2017;8:630
45. Namsen R, Rojanasthien N, Seewaboon Sireeratawong, **Nimlamool W**, Potikanond S. *Thunbergia laurifolia* Exhibits Anti-Fibrotic Effects in Human Hepatic Stellate Cells. *Evid Based Complement Alternat Med*. 2017;3508569

46. **Nimlamool W**, Chen C, Miller CJ, Lou HJ, Turk BE. Rational Redesign of a functional Protein Kinase-substrate Interaction. *ACS Chem Biol.* 2017;12(5):1194-1198
47. **Nimlamool W**, Andrews RK, Falk MM. Connexin43 phosphorylation by PKC and MAPK signals VEGF-mediated gap junction internalization. *Mol Biol Cell* Aug. 2015;26(15):2755-68
48. Gilotti AC, **Nimlamool W**, Pugh R, Slee JB, Barthol TC, Miller EA, Lowe-Krentz LJ. Heparin responses in vascular smooth muscle cells involve cGMP-dependent protein kinase (PKG). *J Cell Physiol.* 2014;299(12):2142-52
49. Fong JT, **Nimlamool W**, Falk MM. EGF induces efficient Cx43 gap junction endocytosis in mouse embryonic stem cell colonies via phosphorylation of Ser262, Ser279/282, and Ser368. *FEBS Lett.* 2014;588(5):836-44
50. **Nimlamool W**, Bean BS, Lowe-Krentz LJ. Human sperm CRISP2 is released from the acrosome during the acrosome reaction and re-associates at the equatorial segment. *Mol Reprod Dev.* 2013; 80:488-502
51. Phopin K, **Nimlamool W**, Lowe-Krentz LJ, Douglass EW, Taroni JN, Bean BS. Roles of mouse sperm-associated alpha-L-fucosidases in fertilization. *Mol Reprod Dev.* 2012;80:273-285
52. Phopin K, **Nimlamool W**, Bartlett MJ, Bean BS. Distribution, crypticity, stability, and localization of  $\alpha$ -L-fucosidase of mouse cauda epididymal sperm. *Mol Reprod Dev.* 2012;79:208-217