Miss. Supawadee Duangprom

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Citizenship	Thai
Position	Lecturer, Chulabhorn International College of Medicine, Thammasat University

Education

2006-2010	BSc. (Medical sciences), Faculty of Medical Sciences, Naresuan University
2012-2014	MSc. (Anatomy and Structural biology), Anatomy department, Faculty of science, Mahidol University, Thailand
2019-2025	Ph.D. (Stem Cell and Molecular Biology), Faculty of Medicine, Thammasat University
Job experiences	Researcher assistant, Center of Excellence in Shrimp Molecular Biology and Biotechnology, Mahidol University, Thailand

Teaching experiences

2013-2014	Gross anatomy, Basic anatomy for second year medical students, paramedic student, Faculty of sciences, Mahidol university
2015-Now	Gross anatomy, Histology, Development and Neuroanatomy for second year medical students, Chulabhorn International College of Medicine

Research interests Cell structure and biological functions, molecular biology in reproduction and diseases

Research experiences
1. Anatomical organization of the central nervous system and gonad in crustaceans
2. Molecular cloning, characterization, and expression of reproductive genes and protein
3. Application of biotechnology in the aquatic animals
4. Primary cell culture and isolation of stem cell (Mesenchymal stem cell) and its application

Research skills RT-PCR, Real time PCR, Cloning, Gene expression, Histology, Immunohistochemistry, Cell culture, In-situ hybridization, protein expression, MSCs isolation

Publications

1. **Duangprom, Supawadee**, Siriporn Nonkhwao, Jirawat Saetan, Sineenart Songkoomkrong, Prateep Amonruttanapun, Chompunut Samhuay, Benyamat Boonobrom, Montakan Tamtin, Prasert Sobhon, and Napamanee Kornthong. 2025. 'Increasing reproductive capacity in female blue swimmer crabs using vitellogenesis-inhibiting hormone dsRNA', *Aquaculture Reports*, 42: 102827.
2. Saetan, U., Kornthong, N., **Duangprom, S.**, Songkoomkrong, S., Phanthong, P., Sanprick, A., et al. (2025). The occurrence of luteinizing hormone-like molecule and its receptor in the blue swimming crab, Portunus pelagicus. Comparative Biochemistry and Physiology -Part A: Molecular and Integrative Physiology 299. doi: 10.1016/j.cbpa.2024.111753.
3. Songkoomkrong, S., Nonkhaow, S., **Duangprom, S.**, Saetan, J., Manochantr, S., Sobhon, P., et al. (2024). Investigating the potential effect of Holothuria scabra extract on osteogenic differentiation in

preosteoblast MC3T3-E1 cells. Scientific Reports 14. doi: 10.1038/s41598-024-77850-4.

4. Saetan, J., **Duangprom, S**., Songkoomkrong, S., Amonruttanapun, P., Phanaksri, T., Surinlert, P., et al. (2023). Potent ovarian development as being stimulated by cocktail hormone in the female Scylla olivacea. Frontiers in Marine Science 10. doi: 10.3389/fmars.2023.1286789.

5. Kruangkum, T., **Duangprom, S**., Songkoomkrong, S., Chotwiwatthanakun, C., Vanichviriyakit, R., Sobhon, P., et al. (2022). Discovery of a hidden form of neuropeptide F and its presence throughout the CNS–gut axis in the mud crab, Scylla olivacea. Frontiers in Marine Science 9. doi: 10.3389/fmars.2022.951648.

6. Duangprom, S., Saetan, J., Phanaksri, T., Songkoomkrong, S., Surinlert, P., Tamtin, M., et al. (2022). Acceleration of Ovarian Maturation in the Female Mud Crab With RNA Interference of the Vitellogenesis-Inhibiting Hormone (VIH). Frontiers in Marine Science 9.

7. Saetan J, Kornthong N, **Duangprom S**, Phanthong P, Kruangkum T, Sobhon P. 2021. The oxytocin/vasopressin-like peptide receptor mRNA in the central nervous system and ovary of the blue swimming crab, *Portunus pelagicus*. Comparative Biochemistry and Physiology Part A: Molecular & Integrative Physiology 258: 110983

8. Kornthong N, Saengsuwan J, **Duangprom S**, Songkoomkrong S, Vivattanasarn T, Suwansa-ard S, Manochantr S, et al. The Effect of Sea Cucumber Extract (Holothuria scabra) on the Proliferation of Human Placenta Derived Mesenchymal Stromal Cells. J Med Assoc Thai 2020;103:24.

9. Nakeima J., Kornthong N., Saetan J., **Duangprom S**., Sobhona P., Sretarugsaa P. (2019), Presence of serotonin and its receptor in the central nervous system and ovary and molecular cloning of the novel

crab serotonin receptor of the blue swimming crab, *Portunus pelagicus*., Acta Histochemica, 122(1), 151457.

10. Duangprom, S., Ampansri, W., Suwansa-ard, S., Chotwiwatthanakun, C., Sobhon, P., Kornthong, **N**., 2018. Identification and expression of prostaglandin E synthase (PGES) gene in the central nervous system and ovary during ovarian maturation of the female mud crab, Scylla olivacea. Anim. Reprod. Sci. 198, 220-232.

11. Duangprom S., Kornthong N**.**, Suwansa-ard S., Srikawnawan W., Chotwiwatthanakhun C., Sobhon P. Distribution of crustacean hyperglycemic hormones (CHH) in the mud crab (*Scylla olivacea*) and their differential expression following serotonin stimulation. Aquaculture. 2017, 468: 481–488.

Conferences

Supawadee Duangprom, Supawadee Kheowkae, Wilailuk Ampansri, Jutaporn pollawat, Napamanee Kornthong.

The Presence of Prostaglandin E Synthase in the mud crab, Scylla olivacea. in Biological Science session in the 35th International Conference of the Microscopy Society of Thailand (MST35), 30 January 2018 – 2 February 2018, Imperial Mae Ping Hotel, Chiang Mai. (Poster Presentation).

Supawadee Duangprom, Wilailuk Ampansri, Saowaros Suwansa-ard, Charoonroj Chotwiwatthanakun, Prasert Sobhone, Napamanee Kornthong. Identification and expression of prostaglandin E synthase (PGES) in the central nervous system and ovary during ovarian maturation in female mud crab, Scylla *olivacea*. International Journal of Arts and Sciences' (IJAS) academic conference in Freiburg, Germany, December 3 to 6, 2018. (Oral presentation).

Duangprom, S., Saetan, J., Songkoomkrong, S., and Kornthong, N. (2024). Abstract 1101 Enhancing the reproductive capacity of female blue swimming crabs, Portunus pelagicus through hormonal

manipulation and its potential for implementation in aquaculture. Journal of Biological Chemistry 300, 106826. doi: 10.1016/j.jbc.2024.106826. (Poster Presentation).

Supawadee Duangprom, Chairat Tantrawatpan, Pakpoom Kheolamai, Sirikul Manochantr. High Glucose Suppresses Stemness and Migration of Human Placental-Derived Mesenchymal Stem Cells. 7th IASCBC & 46th AAT Annual Conference, Proceedings of the Anatomy Association of Thailand, May 14-17, 2024. (Poster Presentation).

Supawadee Duangprom, Chairat Tantrawatpan, Pakpoom Kheolamai, Sirikul Manochantr. High Glucose Suppresses Cell Proliferation, Stemness and Migration of Human Placental-Derived Mesenchymal Stem Cells. 7th IASCBC & 46th AAT Annual Conference, Proceedings of the Anatomy Association of Thailand, May 14-17, 2024. (Poster Presentation).

Award Outstanding young researcher award, Thammasat university, 2019

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