



Assoc. Prof. Dr. CHAROONROJ CHOTWIWATTHANAKUN (Ph.D.)

Experience

- 2543-2546 ดำรงตำแหน่ง อาจารย์ สังกัด คณะสหเวชศาสตร์ มหาวิทยาลัยศรีนครินทรวิโรฒ
- 2552-2556 ดำรงตำแหน่ง อาจารย์ สังกัด โครงการจัดตั้งวิทยาเขตนครสวรรค์ สำนักงานอธิการบดี มหาวิทยาลัยมหิดล
- 2556-2560 ดำรงตำแหน่ง ผู้ช่วยศาสตราจารย์ สาขาวิชาชีวเคมี สังกัดฝ่ายวิชาการและ หลักสูตรโครงการจัดตั้งวิทยาเขตนครสวรรค์ สำนักงานอธิการบดีมหาวิทยาลัยมหิดล
- 2560-ปัจจุบัน ดำรงตำแหน่ง รองศาสตราจารย์ สาขาวิชาชีวเคมี สังกัดฝ่ายวิชาการและหลักสูตรโครงการจัดตั้งวิทยาเขตนครสวรรค์ สำนักงานอธิการบดีมหาวิทยาลัยมหิดล
- 2564 - ปัจจุบัน ดำรงตำแหน่ง กรรมการสภาคณาจารย์ มหาวิทยาลัยมหิดล วาระดำรงตำแหน่งปี พ.ศ. 2564- 2566

Publication

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7. Anuracpreeda P, Songkoomkrong S, Sethadavit M, **Chotwiwatthanakun C**, Tinikul Y, Sobhon P. *Fasciola gigantica*: Production and characterization of a monoclonal antibody against recombinant cathepsin B3 *Experimental Parasitology*.2011; 127(2):340-5.
8. Sroyraya M, **Chotwiwatthanakun C**, Stewart MJ, Soonklang N, Kornthong N, Phoungpetchara I, Hanna P, Sobhon P. Bilateral eyestalk ablation of the blue swimmer crab, *Portunus pelagicus*, produces hypertrophy of the androgenic gland and an increase of cells producing insulin-like androgenic gland hormone. *Tissue Cell*. 2010; 42(5): 293-300.

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EXPERTISE

- Molecular biology of crustacean endocrinology
- Molecular biology of crustacean pathogen-host interaction
- Aquatic animal diseases
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9. Tinikul Y, Poljaroen J, Nuurai P, Anuracpreeda P, **Chotwiwatthanakun C**, Phoungpetchara I, Kornthong N, Poomtong T, Hanna PJ, Sobhon P. Existence and distribution of gonadotropin-releasing hormone-like peptides in the central nervous system and ovary of the Pacific white shrimp, *Litopenaeus vannamei*. *Cell Tissue Res.* 2011; 343(3):579-93.

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26. Jariyapong P, **Chotwiwatthanakun C**, Direkbusarakom S, Hirono I, Wuthisuthimethavee S, Weerachatanukul W. Delivery of double stranded RNA by *Macrobrachium rosenbergii* nodavirus-like particles to protect shrimp from white spot syndrome virus Aquaculture, 2015; 435: 86-9

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Publication

44. Pudgerd A, **Chotwiwatthanakun C**, Kruangkum T, Itsathiphaisarn O, Sritunyalucksana K, Vanichviriyakit R. The hematopoietic organ of *Macrobrachium rosenbergii*: Structure, organization and immune status. *Fish Shellfish Immunol.* 2019; 88:415-423.
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50. Thongbuakaew T., Sumpownon C., Engsusophon A., Kornthong N., **Chotwiwatthanakun C.**, Meeratana P. Sobhon P. Characterization of prostanoid pathway and the control of its activity by the eyestalk optic ganglion in the female giant freshwater prawn, *Macrobrachium rosenbergii*. *Heliyon* 2021; 7: e05898.
51. Wuthisathid K, Chaijarasphong T, **Chotwiwatthanakun C**, Somrit M, Sritunyalucksana K, Itsathiphaisarn O. Co-expression of double-stranded RNA and viral capsid protein in the novel engineered *Escherichia coli* DualX-B15(DE3) strain. *BMC Microbiol.* 2021;21(1):88.
52. Weerachatanukul W, **Chotwiwatthanakun C**, Jariyapong P. Dual VP28 and VP37 dsRNA encapsulation in IHNV virus-like particles enhances shrimp protection against white spot syndrome virus. *Fish Shellfish Immunol.* 2021;113:89-95.
53. Thansa K, Kruangkum T, Pudgerd A, Chaichandee L, Amparyup P, Suebsing R, **Chotwiwatthanakun C**, Vanichviriyakit R, Sritunyalucksana K. Establishment of hematopoietic tissue primary cell cultures from the giant freshwater prawn *Macrobrachium rosenbergii*. *Cytotechnology.* 2021;73(2):141-157.
54. Grataitong K, Huault S, **Chotwiwatthanakun C**, Jariyapong P, Thongsum O, Chawiwithaya C, Chakrabandhu K, Hueber AO, Weerachatanukul W. Chimeric virus-like particles (VLPs) designed from shrimp nodavirus (MrNV) capsid protein specifically target EGFR-positive human colorectal cancer cells. *Sci Rep.* 2021;11(1):16579.
55. Laphyai P, Kruangkum T, **Chotwiwatthanakun C**, Semchuchot W, Thajjongrak P, Sobhon P, Tsai PS, Vanichviriyakit R. Suppression of a Novel Vitellogenesis-Inhibiting Hormone Significantly Increases Ovarian Vitellogenesis in the Black Tiger Shrimp, *Penaeus monodon*. *Front Endocrinol (Lausanne).* 2021;12:760538.
56. Weerachatanukul W, Pooljun C, Hirono I, Kondo H, **Chotwiwatthanakun C**, Jariyapong P. Infectious hypodermal and hematopoietic necrosis virus-like particle (IHNV-VLP) induces peroxiredoxin expression and activity in *Fenneropenaeus merguensis*. *Fish Shellfish Immunol.* 2022;121:53-61.
57. Thajjongrak P, **Chotwiwatthanakun C**, Laphyai P, Prachumwat A, Kruangkum T, Sobhon P, Vanichviriyakit R. Molecular characterization and expression profiling of transformer 2 and fruitless-like homologs in the black tiger shrimp, *Penaeus monodon*. *PeerJ.* 2022;10:e12980. doi: 10.7717/peerj.12980. eCollection 2022.
58. Kruangkum, T., Duangprom, S., Songkoomkrong, S., **Chotwiwatthanakun, C.**, Vanichviriyakit., Sobhon, P., Kornthong, N. 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*, 2022, 9, 951648.
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60. Semchuchot W, **Chotwiwatthanakun C**, Santimanawong W, Kruangkum T, Thajjongrak P, Wityachumnarnkul B, Vanichviriyakit R. Sesquiterpenoid pathway in the mandibular organ of *Penaeus monodon*: Cloning, expression, characterization of PmJHAMT and its alteration response to eyestalk ablation. *Gen Comp Endocrinol.* 2023; 331:114176.



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