

ประวัตินักวิจัย

ดร.จิรกฤต แซ่ตั้ง

ตำแหน่ง อาจารย์ ศูนย์ความเป็นเลิศนานาชาติด้านวิทยาศาสตร์และนวัตกรรมอาหารทะเล คณะอุตสาหกรรมเกษตร มหาวิทยาลัยสงขลานครินทร์

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ประวัติการศึกษา

- วิทยาศาสตร์บัณฑิต (จุลชีววิทยา) เกียรตินิยมอันดับ 1 คณะวิทยาศาสตร์ มหาวิทยาลัยสงขลานครินทร์
- ปรัชญาดุษฎีบัณฑิต (ชีวเวชศาสตร์) คณะแพทยศาสตร์ มหาวิทยาลัยสงขลานครินทร์

สาขาเชี่ยวชาญ/งานวิจัย

- Molecular authentication of seafood products
- Functional analysis of novel/active ingredients and nutraceuticals
- Molecular biology and microbiology

ผลงานตีพิมพ์

- 1: Tagrida M, Palamae S, Saetang J, Ma L, Hong H, Benjakul S. Comparative Study of Quercetin and Hyperoside: Antimicrobial Potential towards Food Spoilage Bacteria, Mode of Action and Molecular Docking. *Foods*. 2023 Nov 7;12(22):4051. doi: 10.3390/foods12224051. PMID: 38002109; PMCID: PMC10670185.
- 2: Mittal A, Singh A, Buatong J, Saetang J, Benjakul S. Chitooligosaccharide and Its Derivatives: Potential Candidates as Food Additives and Bioactive Components. *Foods*. 2023 Oct 20;12(20):3854. doi: 10.3390/foods12203854. PMID: 37893747; PMCID: PMC10606384.
- 3: Saetang J, Sukkapat P, Palamae S, Singh P, Senathipathi DN, Buatong J, Benjakul S. Multiplex PCR-Lateral Flow Dipstick Method for Detection of Thermostable Direct Hemolysin (TDH) Producing *V. parahaemolyticus*. *Biosensors (Basel)*. 2023 Jun 30;13(7):698. doi: 10.3390/bios13070698. PMID: 37504096; PMCID: PMC10377466.
- 4: Saetang J, Sukkapat P, Mittal A, Julamanee J, Khoponlert W, Maneechai K, Nazeer RA, Sangkhathat S, Benjakul S. Proteome Analysis of the Antiproliferative Activity of the Novel Chitooligosaccharide-Gallic Acid Conjugate against the SW620 Colon Cancer Cell Line. *Biomedicines*. 2023 Jun 10;11(6):1683. doi: 10.3390/biomedicines11061683. PMID: 37371778; PMCID: PMC10296375.
- 5: Buatong J, Mittal A, Mittraparp-Arthorn P, Palamae S, Saetang J, Benjakul S. Bactericidal Action of Shrimp Shell Chitooligosaccharide Conjugated with Epigallocatechin Gallate (COS-EGCG) against *Listeria monocytogenes*. *Foods*. 2023 Feb 2;12(3):634. doi: 10.3390/foods12030634. PMID: 36766163; PMCID: PMC9914238.
- 6: Bejrananda T, Saetang J, Sangkhathat S. Molecular Subtyping in Muscle-Invasive Bladder Cancer on Predicting Survival and Response of Treatment. *Biomedicines*. 2022 Dec 27;11(1):69. doi: 10.3390/biomedicines11010069. PMID: 36672577; PMCID: PMC9856180.

- 7: Patil U, Saetang J, Zhang B, Benjakul S. Use of Tuna Visceral Pepsin in Combination with Trypsin as Digestion Aid: Enhanced Protein Hydrolysis and Bioavailability. *Foods*. 2022 Dec 26;12(1):125. doi: 10.3390/foods12010125. PMID: 36613341; PMCID: PMC9818428.
- 8: Palamae S, Mittal A, Yingkajorn M, Saetang J, Buatong J, Tyagi A, Singh P, Benjakul S. *Vibrio parahaemolyticus* Isolates from Asian Green Mussel: Molecular Characteristics, Virulence and Their Inhibition by Chitooligosaccharide-Tea Polyphenol Conjugates. *Foods*. 2022 Dec 14;11(24):4048. doi: 10.3390/foods11244048. PMID: 36553790; PMCID: PMC9778124.
- 9: Benjakul S, Saetang J. Development of Loop-Mediated Isothermal Amplification (LAMP) Assays for the Rapid Authentication of Three Swimming Crab Species. *Foods*. 2022 Jul 28;11(15):2247. doi: 10.3390/foods11152247. PMID: 35954015; PMCID: PMC9368355.
- 10: Saetang J, Roongsawang N, Sangkhathat S, Voravuthikunchai SP, Sangkaew N, Prompat N, Srichana T, Tipmanee V. Surface cysteine to serine substitutions in IL-18 reduce aggregation and enhance activity. *PeerJ*. 2022 Jul 5;10:e13626. doi: 10.7717/peerj.13626. PMID: 35811828; PMCID: PMC9266699.
- 11: Saetang J, Tipmanee V, Benjakul S. In Silico Prediction of Cross-Reactive Epitopes of Tropomyosin from Shrimp and Other Arthropods Involved in Allergy. *Molecules*. 2022 Apr 21;27(9):2667. doi: 10.3390/molecules27092667. PMID: 35566021; PMCID: PMC9104922.
- 12: Saetang J, Sangkhathat S, Jangphattananont N, Khopantert W, Julamanee J, Tipmanee V. Computational discovery of binding mode of anti-TRBC1 antibody and predicted key amino acids of TRBC1. *Sci Rep*. 2022 Feb 2;12(1):1760. doi: 10.1038/s41598-022-05742-6. PMID: 35110642; PMCID: PMC8810837.
- 13: Saetang J, Tedasen A, Sangkhathat S, Sangkaew N, Dokduang S, Prompat N, Taraporn S, Graidist P. The attenuation effect of low piperine Piper nigrum extract on doxorubicin-induced toxicity of blood chemical and immunological properties in mammary tumour rats. *Pharm Biol*. 2022 Dec;60(1):96-107. doi: 10.1080/13880209.2021.2018470. PMID: 34962450; PMCID: PMC8735876.
- 14: Bejrananda T, Kanjanapradit K, Saetang J, Sangkhathat S. Impact of immunohistochemistry-based subtyping of GATA3, CK20, CK5/6, and CK14 expression on survival after radical cystectomy for muscle-invasive bladder cancer. *Sci Rep*. 2021 Oct 27;11(1):21186. doi: 10.1038/s41598-021-00628-5. PMID: 34707176; PMCID: PMC8551252.
- 15: Suwanhom P, Saetang J, Khongkow P, Nualnoi T, Tipmanee V, Lomlim L. Synthesis, Biological Evaluation, and In Silico Studies of New Acetylcholinesterase Inhibitors Based on Quinoxaline Scaffold. *Molecules*. 2021 Aug 12;26(16):4895. doi: 10.3390/molecules26164895. PMID: 34443482; PMCID: PMC8400540.
- 16: Jongvilakasem S, Sampao S, Kanjanapradit K, Saetang J, Sangkhathat S, Mahattanobon S. Serum β -2 microglobulin levels are associated with distant metastasis in patients with breast cancer. *Mol*

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18: Saetang J, Chonpathompikunlert P, Sretrirutchai S, Roongsawang N, Kayasut K, Voravuthikunchai SP, Sukketsiri W, Tipmanee V, Sangkhathat S. Anti-cancer effect of engineered recombinant interleukin 18. *Adv Clin Exp Med.* 2020 Oct;29(10):1135-1143. doi: 10.17219/acem/126298. PMID: 33031647.

19: Jewboonchu J, Saetang J, Saeloh D, Siriyong T, Rungrotmongkol T, Voravuthikunchai SP, Tipmanee V. Atomistic insight and modeled elucidation of conessine towards *Pseudomonas aeruginosa* efflux pump. *J Biomol Struct Dyn.* 2022 Mar;40(4):1480-1489. doi: 10.1080/07391102.2020.1828169. Epub 2020 Oct 7. PMID: 33025857.

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