CURRICULUM VITAE

Microalgae Research enthusiast with a Ph.D. in Molecular Biotechnology, with experiences in microalgal isolation, identification, cultivation, and pigment analysis. Actively seeking a challenging researcher or lecturer role in microalgae-focused institutes/laboratories. Passionate about contributing to fundamental microalgae research addressing societal well-being and industrial needs. Backed by strong academic background, extensive laboratory experience, and a commitment to sustainable solutions, I aim to contribute to cutting-edge research in microalgae biotechnology.



A. Personal Details			
Full Name (Title):	Tan Hui Teng (Ms.)	Citizenship:	Malaysian
Date of Birth:	28-10-1994	Race:	Chinese
Current Designation:	Ph.D.		

B. Address and	B. Address and Contacts				
Current City:	Seri Kembangan, Selangor, Malaysia				
Department/	Aquatic Animal Health and Therapeutics Laboratory, Institute of Bioscience				
Faculty:					
Email address:	huiteng28.tan@gmail.com				
H/P no.:	17957 9457 (+60)				

C. Academic Qualification					
Certificate/Qualification	Name of School/Institution	Year	Area of Specialization		
Doctorate of Philosophy	Universiti Putra Malaysia	2023	Molecular Biotechnology		
Bachelor of Science (Honours)	Universiti Putra Malaysia	2018	Biochemistry		
Malaysian Higher School Certificate (STPM)	SMK Triang	2013	Biology		

D. Language Proficiency					
Language	Poor	Moderate	Good	Very Good	Excellent
English				1	
Malay				1	
Chinese					1

E. Scientific Experience and Specialization				
Organization	Position	Start Date	End Date	Experience/Expertise
Institute of Bioscience, Universiti Putra Malaysia	Research Assistant	Aug 2023	Ongoing	 Isolated, identified, and maintained diatom Conducted screening for quorum-sensing inhibitors (QSI) in the associated bacteria of diatoms

Department of Aquaculture, Faculty Agriculture, Universiti Putra Malaysia	Research Enumerator	May 2023	July 2023	Optimized media formulation for the mass-cultivation of probiotics Executed quorum-sensing inhibitor (QSI) screenings of microalgae.
Institute of Bioscience, Universiti Putra Malaysia	Ph.D.	Mac 2021	Sept 2023	Isolated and identified the associated bacteria community of cyanobacteria Performed metagenomic (amplicon sequencing) analysis of bacterial communities Demonstrated expertise in the preservation of both microalgae and bacteria Conducted gene expression studies focusing on phycobiliprotein biosynthesis genes Managed the mass cultivation of microalgae in a photobioreactor
	Master	Feb 2019	Mac 2021 (Converted to Ph.D. candidate)	 Accomplished isolation and cultivation of cyanobacteria Performed morphological and molecular Identification of cyanobacteria Conducted molecular toxicity assessments of cyanobacteria Optimized the extraction process of phycobiliproteins from cyanobacteria
	Graduate Research Assistant	Mac 2019	Mac 2020	Contributed to the production of gelatin hard capsules Conducted stability tests on gelatin film Isolated and identified Malaysia indigenous microalgae Conducted chemical flocculation harvesting of microalgae
	Research Assistant	Sept 2018	Feb 2019	Optimized the acid pretreatment of harvested jellyfish Successfully extracted collagen and gelatin from jellyfish

Plant Biotechnology Research Centre, Agro-Biotechnology Institute (ABI), National Institutes of Biotechnology Malaysia	Research Intern	May 2017	August 2017	 Managed the preparation of Tiger Milk Mushroom seeds/spawn and sawdust Conducted the inoculation of spawn and incubation of sawdust blocks Executed proteomics analysis, including protein extraction and MALDI-TOF analysis
Department of Biochemistry, Faculty of Biotechnology and Biomolecular Sciences, Universiti Putra Malaysia	Undergraduate Researcher	May 2017	May 2018	 Cultivated and maintained microalgae Molecular identified microalgae Conducted analysis of growth, pigments and metabolites

F. Employme	F. Employment/Working Experience				
Employer	Designation	Department	Start Date	End Date	
Universiti	Practical demonstrator	Department of	Oct 2023	Ongoing (January	
Putra Malaysia	for Live Food Production	Aquaculture, Faculty		2024)	
	In Aquaculture course	Agriculture, Universiti			
		Putra Malaysia			
	Research assistant	Institute of Bioscience	Aug 2023	Ongoing (January	
				2024)	
	Research Enumerator	Department of	May 2023	July 2023	
	Practical demonstrator	Aquaculture, Faculty	Oct 2022	Feb 2023	
	for <i>Limnology</i> course	Agriculture, Universiti			
		Putra Malaysia			
	Graduate Research	Institute of Bioscience	Mac 2019	Mac 2020	
	Assistant				
	Research Assistant		Sept 2018	Feb 2019	
Agro-	Research Intern	Plant Biotechnology	May 2017	Aug 2017	
Biotechnology		Research Centre			
Institute (ABI),					
National					
Institutes of					
Biotechnology					
Malaysia					

G. Honours, Awards and Participations				
Name of	Title	Award Authority	Award	Year
Awards			Type	
Academic	Best Poster Presentation	Taylor's University	National	2018
awards	Vice Chancellor's List	Universiti Putra	University	2014-2018
	Dean's List	Malaysia		
Exchange	Ishikawa Japanese Studies	Ishikawa Japanese	University	2017
Program	Program	Studies Center, Ishikawa		

		Foundation for		
		International Exchange		
Scholarship				
Sponsorship	Excellent Students'	Public Service	Malaysia	2019-2023
	Program (PPC) scholarship	Department		
	Special Graduate Research	Universiti Putra	University	2019
	Allowance Scheme	Malaysia		
	Sponsorship of Local	Public Service	Malaysia	2014-2018
	Degree Programme (PIDN)	Department		
Participation	is in Research-related Ac	etivities		
National Semina	ar on Live Food Culture and	Universiti Terengganu	National	27th July 2023
Application in A	quaculture	Malaysia (UMT)		
3 Minute Thesis Competition (Oral Presenter)		International	International	4 th June 2023
		Development Research		
		Centre, Canada (IDRC-		
		CRDI)		
Global Algae Su	ımmit (Poster Presenter)	Leave A Nest Malaysia	National	17 th Aug 2023
COSMOS Inter	rnational Conference (CIC)	Universiti Putra	International	23-25th Aug 2022
2022 (Oral & poster presenter)		Malaysia (UPM)		
ASEAN-FEN Annual International Fisheries		Universiti Putra	International	18-21st Nov 2019
Symposium, IFS 2019 (Poster presenter)		Malaysia (UPM)		
29 th Intervarsity Biochemistry Seminar (Poster		Taylor's University,	National	12 th May 2018
presenter)		Malaysia		
27 th Intervarsity	Biochemistry Seminar (Crew	Universiti Putra	National	14 th May 2016
member)		Malaysia (UPM)		

H. List of publications

Journal

N.D. Baharuddin, S. Muthukhrisnan, Clement.R. de Cruz, Z. Kassim, H.H. Hasnan, M. Ihsanudin, Khaw, Y. S., **Tan**, **H.T.**, N. A. I., Nazarudin, M. F., I. Natrah. (2024). Evaluation of diatom *Halamphora* sp. and harpacticoid copepod *Amphiascoides neglectus* as live food for black tiger shrimp *Penaeus monodon* postlarvae. Aquaculture. 586: 740773. (**JCR-Q1**)

Sopawong, A., Yusoff, F.M., Zakaria, M.H., Amin, S. M., **Tan, H.T.**, Hashim, A. (2023). Synergistic combination of plants and microbial-rich substrates improves water quality in an integrated plant-substrate system. *Asian Fisheries Science*. 36: 203-218. (**Scopus**)

Tan, H. T., Yusoff, F. M., Khaw, Y. S., Nazarudin, M. F., Noor Mazli, N. A. I., Ahmad, S. A., Shaharuddin, N. A., & Toda, T. (2023). Characterisation and selection of freshwater cyanobacteria for phycobiliprotein contents. *Aquaculture International*, 31(1), 447–477. (JCR-Q1)

Tan, H. T., Yusoff, F. M., Khaw, Y. S., Noor Mazli, N. A. I., Nazarudin, M. F., Shaharuddin, N. A., Katayama, T., & Ahmad, S. A. (2022). A review on a hidden gem: phycoerythrin from blue-green algae. *Marine Drugs*, 21(1), 28. (JCR-Q1)

Khaw, Y. S., F. M. **Tan, H. T.**, Noor Mazli, N. A. I., Nazarudin, M. F., Shaharuddin, N. A., Omar, A.R., & Takahashi, K. (2022). Fucoxanthin production of microalgae under different culture factors: a systematic review. *Marine Drugs*, 20, 592. (JCR-Q1)

Tan, H. T., Yusoff, F. M., Khaw, Y. S., Ahmad, S. A., & Shaharuddin, N. A. (2021). Uncovering research trends of phycobiliproteins using bibliometric approach. *Plants*, 10(11), 1–28. (JCR-Q1)

Khaw, Y.S.; Yusoff, F.M.; **Tan, H.T.**; Noor Mazli, N.A.I.; Nazarudin, M.F.; Shaharuddin, N.A.; Omar, A.R. (2021). The critical studies of fucoxanthin research trends from 1928 to june 2021: A bibliometric review. *Marine Drugs*, 19, 606. (**JCR-Q1**)

Khaw, Y.S.; **Tan, H.T.**; Sopawong, A.; Shaharuddin, N.A.; Omar, A.R.; Yusoff, F.M. (2021). A recommendation for a pre-standardized marine microalgal dry weight determination protocol for laboratory scale culture using ammonium formate as a washing agent. *Biology*, 10, 799. (**JCR-Q1**)

Tan, H. T., Khong, N. M. H., Khaw, Y. S., Ahmad, S. A., & Yusoff. M. (2020). Optimization of the freezing-thawing method for extracting phycobiliproteins from *Arthrospira* sp. *Molecules*, 25(3894). (JCR-Q2)

I. Past Research Project

Project No.	Project Title	Role	Year	Source of fund	Status
	Amplification of carotenoid biosynthesis gene and total carotenoid content analysis upon stress treatment in <i>Chlorella</i> sp.	Member (Final Year Project)	2017-2018	Higher Institution Centre of Excellence (HICOE) Research Grant	Completed
2.	Large scale production of tuber of Tiger's Milk Mushroom (Lignosus rhinocerus)	Member (Internship)	2017	Ministry of Science, Technology and Innovation (MOSTI) Research Grant	Completed (Internship ended)
	Halal gelatin upscaling and capsule prototype production from jellyfish gelatin	Member (Research Assistant)	2018-2020	Prototype Development Research Grant (PRGS)	Completed
	Growth and phycobiliprotein production of non-toxic cyanobacteria through symbiotic bacteria-microalgae interaction and co-cultivation	Member (Ph.D. Project)	2019-2023	COSMOS- SATREPS grant	Completed
	Quorum sensing inhibitor screening of microalgae isolated from shrimp farm	Member (Research assistant)	2023	IDRC-CRDI (Innovet-AMR 2.0)	On-going

J. Publishing ID and Social Networking				
	Author ID	Name		
Scopus	57218716102	Tan, Hui Teng		
ORCID	0000-0002-6814-599X	TAN HUI TENG		
Google Scholar	https://bitly.ws/32meN	TAN HUI TENG		

K. REFEREES			
Referee 1		Referee 2	
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