

NYIEW KE YING

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EDUCATION

- 2021 - Present** **Sunway University**
PhD Candidate, PhD in Biology
- Thesis title: Neuroregeneration Potential of *Gracilaria manilaensis* Yamamoto & Trono in the Treatment of Peripheral Nerve Injury
- 2017 - 2020** **Sunway University - Lancaster University**
BSc (Hons) Medical Biotechnology
- Award Classification: Class I
 - CGPA 3.65
 - Final Year Dissertation:
 - A systematic review of the antimicrobial properties of kombucha: Evidence from 1995 to 2020
- 2016 - 2017** **Sunway College**
Foundation in Science and Technology
- CGPA 4.0

TEACHING/SUPERVISING EXPERIENCE

- 2022 - Present** **Teaching assistant, Department of Biological Sciences, School of Medical and Life Sciences, Sunway University**
- Assisted in laboratory practical sessions
 - Assisted in supervising undergraduate students in final year projects

PUBLICATIONS

- Nyiew, KY., Wong, KH., Lim, LW. *et al.* Safety profile of subacute oral administration of ethanolic extract of *Gracilaria manilaensis* Yamamoto & Trono. *J Appl Phycol* (2024). <https://doi.org/10.1007/s10811-024-03218-w>
- Nyiew, K.-Y., Ngu, E.-L., Wong, K.-H., Goh, B.-H., & Yow, Y.-Y. (2022). Neuroprotective potential of marine algal antioxidants. In *Marine Antioxidants*.
- Yow, Y. Y., Goh, T. K., Nyiew, K. Y., Lim, L. W., Phang, S. M., Lim, S. H., Ratnayeke, S., & Wong, K. H. (2021). Therapeutic potential of complementary and alternative medicines in peripheral nerve regeneration: A systematic review. *Cells*, 10(9). <https://doi.org/10.3390/cells10092194>
- Nyiew, K. Y., Kwong, P. J., & Yow, Y. Y. (2022). An overview of antimicrobial properties of kombucha. *Comprehensive Reviews in Food Science and Food Safety*, 21(2), 1024–1053. <https://doi.org/10.1111/1541-4337.12892>

KEY RESEARCH SKILLS

- **Animal handling and surgery techniques (rats)**
 - Administration of substance using oral gavage
 - Intraperitoneal injection of substance
 - Blood sampling technique: cardiac puncture
 - Able to perform surgery on rat to induce sciatic nerve crush injury
 - Animal dissection (necropsy)
- **Histological techniques**
 - Preparation of formalin-fixed, paraffin-embedded animal tissue block
 - Microtomy
 - Haematoxylin & eosin staining
 - Immunostaining of formalin-fixed, paraffin-embedded animal tissue
- **Extraction of RNA from frozen animal tissue**
- **Able to perform high-performance liquid chromatography analysis of crude extract**
- **Data analysis and visualisation using Microsoft Excel, SPSS, and GraphPad Prism**

CONFERENCES & PRESENTATIONS

- 2023**
- Cross-Disciplinary Postgraduate Research for SDG Symposium**
- Poster presentation titled “Toxicity assessment of subacute oral administration of *Gracilaria manilaensis* Yamamoto & Trono ethanolic extract”
 - Award: Best Presentation
- Global Algae Summit 2023**
- Poster presentation titled “Neuroregeneration potential of *Gracilaria manilaensis* Yamamoto & Trono in the treatment of peripheral nerve injury”

EXTRACURRICULAR EXPERIENCE

- 2024**
- Co-chair, 4th Joint Higher Degree by Research Conference 2024**
- Handled overall management and planning of the conference
 - Managed the conference' sponsorship & stakeholder details
 - Assisted in dissemination of conference information
- 2023 - 2024**
- President, Postgraduate Student Council, Sunway University**
- Represented Sunway's postgraduate community by identifying and soliciting academic, administrative and welfare issues faced by master's and PhD students, and to raise these issues strategically in the various committees at Sunway University
- 2022 - 2023**
- Representative for Sunway University Taught and Research Postgraduate Programmes 2022/2023**
- Represented Sunway's postgraduate community by identifying and soliciting academic, administrative and welfare issues faced by master's and PhD students, and to raise these issues strategically in the various committees at Sunway University

- Organised the inaugural Sunway University Postgraduate Research Symposium 2023
- Established the Sunway University Postgraduate Student Council

2021 - 2022 Masters Student Co-Representative, Department of Biological Sciences, School of Medical & Life Sciences, Sunway University

- Helped resolve issues raised by students regarding their studies
- Served as a liaison between students and the department
- Organized events that provide alumni and students platform to share their experiences and advice with current students

Masters Student Representative, Sunway Biological Society, Sunway University

- Served as a liaison between the society and the postgraduate community in School of Medical and Life Sciences, Sunway University
- Provided advice to the executive committee of the society regarding event and activity planning from the perspective of a postgraduate student

Jan – Mar 2020 Research Intern, Centre for Drug Research, Universiti Sains Malaysia

- Research project: "Evaluation of cytochrome P450 metabolizing enzymes *in vitro* of *Ampellocissus cinnamomea* tuber extract and its constituent"
- Performed CYP3A4 inhibition assays
- Analysed results of CYP3A4 inhibition assays using high performance liquid chromatography (HPLC)
- Assisted in managing lab chemicals and consumables
- Actively engaged in learning about the research carried out in the centre by attending the weekly journal club meeting.

2017 - 2020 Volunteering Laboratory Assistant, Sunway University

- Assisted in research projects involving *Acanthamoeba castellanii*
- Performed amoebostatic assays with *A. castellanii* treated with mealworm extracts
- Assisted in maintaining *A. castellanii* cultures
- Cultured cysts of *A. castellanii*

2019 - 2020 Secretary and Co-founder, Sunway Biological Society, Sunway University

- Prepared correspondence as required for the activities of the society

2019 Volunteer, ASEAN Emerging Researchers Conference 2019

- Assisted in the preparation of the conference and the registration of participants during the conference

Student Helper, Genetic Study on Acne and Allergy Diseases Research, Sunway University

- Collected mouthwash samples
- Measured and recorded data from skin prick tests

2017 - 2018 President, Science Really Matters Society, Sunway University

- Organized science related activities such as experiments, trivia, and documentary viewing
- Held general and annual meetings for members of the society
- Organized recruitment activities during Clubs and Societies Weeks

SCHOLARSHIPS & AWARDS

2023	Sunway University PhD Studentship
2021	Sunway University Masters Degree Scholarship
2017	Vice Chancellor's Award, Sunway University Vice Chancellor's Subject Award, Sunway University Jeffrey Cheah Special Entrance Scholarship, Sunway University
2016	Jeffrey Cheah Entrance Scholarship, Sunway College

LANGUAGES

- **English**
- **Mandarin**
- **Bahasa Malaysia**