

Chin Chin Too

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Education

October 2014 – January 2019: PhD in Environmental Science – Monash University Malaysia

August 2009 – June 2011: MSc. in Marine Biology – University of Bergen, Norway

May 2003 – April 2006: BSc. in Marine Science (Distinction) – Universiti Kebangsaan Malaysia

Research Experiences

1 Oct 2024 – Present	Postdoc researcher in the Centre for Microbiology and Environmental Systems Science, University of Vienna, Austria Terrestrial Ecosystem Research (TER) - Univ.-Prof. Dr. Andreas Richter Project: Impacts of warming on methane cycling in tropical and subarctic peatlands
1 Jan 2024 – Present	APEC-Australia Women in Research Fellowship, adjunct researcher University of the Sunshine Coast, Queensland, Australia Laboratory of Environmental Science - Prof. Catherine Yule Project: Microbial community dynamics in Australian peatlands
Oct 2020 – Sep 2023	Postdoc in Ghent University, Belgium Laboratory of Environmental and Plant Microbiology - Prof. Anne Willems Project: A study on the ecological roles of the genus <i>Deinococcus</i> from Antarctica using whole-genome sequencing approach
Mar 2019 – Jan 2020	Research Assistant in Monash University Malaysia Laboratory of Environmental Science - Dr. Holly Barclay Project: Mapping green space in Subang Jaya using ArcGIS Pro
May 2017 – Mar 2018	Research attachment in University of Würzburg, Germany Molecular Biodiversity Group – Prof. Dr. Alexander Keller Tasks: Learning next-generation sequencing, bioinformatics on Linux platform and data analysis using <i>R</i> packages
Oct 2014 – Jan 2019	PhD student in Monash University Malaysia Laboratory of Environmental Science - Prof. Catherine Yule Microbial community dynamics in a Malaysian tropical peat swamp forest
Mar – Sep 2014	Research Assistant in Universiti Sains Malaysia (USM) Molecular Aquatic Lab - Prof. M. Nor Siti-Azizah Projects: Seafood forensics, eel & fish diversity in Malaysia

Jun 2011 – Jan 2014	Research Assistant Laboratory for Fresh Water Ecology and Inland Fisheries (LFI), Uni Research AS, Bergen, Norway Tasks: Isoelectric focusing to delimit salmon and trout eggs, video and microtag assessment for salmon migration
Sep 2011 – Feb 2012	Research Engineer in University Museum of Bergen, Norway Laboratory of Prof. Manuel Malaquias Project: Study on the diversity of Cephalaspidea in Atlantic Ocean
Aug 2009 – Jun 2011	Master's student in Marine Biology Laboratory of Prof. Manuel Malaquias, University of Bergen Thesis: Diversity and systematics of Haminoeidae (Gastropoda: Cephalaspidea) in the Indo-West Pacific Ocean: the genera <i>Aliculastrum</i> , <i>Atys</i> , <i>Diniatys</i> and <i>Liloa</i>

Grants/ Fellowships

2023 APEC-Australia Women in Research Fellowship: 1 Jan – 31 Mar 2024

Travel grant for Twinning for European Excellence in Island Biodiversity Genomics (iBioGen) workshop
on metagenetic data analysis, Cyprus, Oct 2019: € 1,500

Monash Strategic Large Grant (July 2016 – Nov 2018): RM200,000 (€ 43,200)

Monash Higher Degree Research Fellowship: Apr – Nov 2018

Monash Graduate Research Merit Scholarship: Oct 2014 – Mar 2018

Skills

- Genomic analysis tools e.g. SPAdes, Flye, Unicycler, Prokka, eggNOG, FastANI, CheckM, bcgTree, Anvi'o, OrthoFinder
- R packages for microbiome data analyses (DADA2, phyloseq, vegan, MetQy), statistical modelling (vegan, lme4, ade4, FactoMineR) and data visualization (ggplot2)
- Library preparation and sequencing on Illumina and Oxford Nanopore Technologies platforms
- Bacterial cultivation and phenotypic tests

Educational activity experiences

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| Oct 2020 – Sep 2023 | (i) Panel for Year 1 MSc. students' projects
(ii) Guiding person for 6 Bachelor's and 9 Master's students
(iii) Assisting Bachelor's and Master's practical courses (Microbial Genomics, Biochemistry and Microbiology, Basic Analysis of Microbial and Eukaryotic Cells) |
| Feb 2015 – Nov 2018 | Tutor for Environmental Science in Monash University Malaysia |

Publications

- Naranjo, H., Lebbe, L. Cnockaert, M., Lassalle, F., **Too, C.C.**, Willems, A. 2022. Phylogenomics reveals insights into the functional evolution of the *Agrobacterium* genus and enables the description of *Agrobacterium divergens* sp. nov. *Systematic and Applied Microbiology*. 46(3): 126420.
- Yeap, C.Y.Y., Nguyen, N., Spanek, R., **Too, C.C.**, Benes, V., Provaznik, J., Cernik, M. 2022. Dissolved iron released from nanoscale zero-valent iron (nZVI) activates the defense system in soil bacterium *Pseudomonas putida*, leading to high tolerance to oxidative stress. *Journal of Hazardous Materials*. 439: 129627.
- Too, C. C.**, K. S. Ong, C. M. Yule, A. Keller. 2021. Putative roles of bacteria in the carbon and nitrogen cycles in a tropical peat swamp forest. *Basic and Applied Ecology* **52**:109-123.
- Oskars, T., **Too, C.C.**, Rees, D., Mikkelsen, P.M., Willassen, E. and Malaquias, M.A.E. 2019. A molecular phylogeny of the gastropod family Haminoeidae *sensu lato* (Heterobranchia, Cephalaspidea) - a generic revision. *Invertebrate Systematics*.
- Too, C. C.**, A. Keller, W. Sickel, S. M. Lee, and C. M. Yule. (2018e). Microbial community structure in a Malaysian tropical peat swamp forest: the influence of tree species and depth. *Frontiers in Microbiology*, **9**:2859.
- Too, C.C.**, Ong, K.S., Lee, S.M., Yule, C.M., and Keller, A. (2018d). Draft genome sequence of *Dyella* sp. strain C9, isolated from a Malaysian tropical peat swamp forest. *Genome Announcements* **6**, e00459-00418.
- Too, C.C.**, Ong, K.S., Lee, S.M., Yule, C.M., and Keller, A. (2018c). Draft genome sequence of *Dyella* sp. strain C11, isolated from a Malaysian tropical peat swamp forest. *Genome Announcements* **6**, e00459-00418.
- Too, C.C.**, Ong, K.S., Ankenbrand, M.J., Lee, S.M., Yule, C.M., and Keller, A. (2018b). Draft genome sequence of *Paraburkholderia* sp. strain C35, isolated from a Malaysian tropical peat swamp forest. *Genome Announcements* **6**, e00561-00518.
- Too, C.C.**, Ong, K.S., Ankenbrand, M.J., Lee, S.M., Yule, C.M., and Keller, A. (2018a). Draft genome sequence of *Klebsiella* sp. strain C31 isolated from a Malaysian tropical peat swamp forest. *Genome Announcements* **6**, e00560-00518.
- Too, C. C.**, A. Adibah, Z. D. Hariz, and M. S. Azizah. 2016. Detection of mislabelled seafood products in Malaysia by DNA barcoding: Improving transparency in food market. *Food Control*, **64**: 247-256.
- Keller, A., **Too, C.C.**, Yue, C.M., Aw, Y.K., Ong, K.S., Ong, S.P.C., Gan, H.M. & Eng, W.H.W. 2017. Litter processing in Malaysian peat swamp forests. *8th Conference on Plant Litter Processing in Freshwaters: 20 years of breakdown*. Bilbao, Spain.
- Arai, T., **Too, C. C.**, Kwong, K. O., & Siti Azizah, M. N. 2015. Occurrence of the tropical eels *Anguilla bengalensis bengalensis* and *Anguilla bicolor bicolor* in Peninsular Malaysia and implications for eel taxonomy. *Marine Biodiversity Records*, **8**, e28.
- Too, C. C.**, Carlson, C.H., Hoff, P. J. & Malaquias, M. A. E. 2014. Diversity and systematics of Haminoeidae gastropods (Heterobranchia: Cephalaspidea) in the tropical West Pacific: new data on the genera *Aliculastrum*, *Atys*, *Diniatys* and *Liloea*. *Zootaxa*, **7**, 3794: 355-392.