Wai Hoe, Chin

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Education

Monash University, Barr Lab, PhD **[2018 – present]**

- Research project: Deciphering the co-evolution of mucous-adherent bacteriophages within the dynamic mucosal environment of the gut. P.I.s: Dr Jeremy Barr and Dr Mike McDonald.
- Funding conferred via Monash International Tuition Scholarship and Research Training Program Stipend from The Government of Australia.

University of Edinburgh, Biomedical Sciences (Infectious Diseases) BSc (Hons) **[2014 – 2017]**

- Awarded **first class honours**.
    - Dissertation project **(Grade: 78%, A3)**: **Characterising the RstA-RstB two component system in *Klebsiella pneumoniae*.** P.I.: Dr Thamarai Schneiders **[Jan 2017 – April 2017]**.
- Awarded Ritchie Prize in recognition for **top scholar achievement in Infectious Diseases**.
- Offered and accepted **second year direct entry** upon evaluation of A level results.
- **Class representative** for Molecular Microbiology 3 **[Sept 2015 – Dec 2015]**.
    - Duties: Provide peer support via peer-tutoring and administrative liaison with teaching staff.

Tenby International School, Malaysia **[2013 – 2014]**

- Cambridge International Examinations (CIE) A level
    - Chemistry: 95 (A*)
    - Biology: 92 (A*)
    - Physics: 91 (A*)
    - Mathematics: 91 (A*)

Laboratory and Research Experiences

John Innes Centre International Summer School **[July 2016 – August 2016]**

Eight-week summer project: **α-glucan biosynthesis and its impact on survival and pathogenicity of pseudomonads.** P.I.s: Dr Stephen Bornemann (biological chemistry) and Dr Jacob Malone (molecular microbiology).

- Investigating the significance of the products within the novel GlgE α-glucan biosynthetic pathway via a genetic and microbiological approach in *Pseudomonas syringae*.
- Tangible leads were generated from the data obtained and overall results will contribute to a publication in the coming future.

Edinburgh University's Young Scientists Research Association (EUYSRA) **[November 2015]**

One-week mini-project: **Effects of garlic extract on growth of *Neurospora* spp.**

- Investigation on plant phytoncides contained in garlic extract in the inhibition of fungal growth using *Neurospora* spp. as a model fungus.

Laboratory Skills

- Familiar with **general microbiological practices** e.g. microscopy, efficient culture handling, sterilisation and disinfection from extensive training in bio-containment laboratories level 1 and 2.
- Good understanding of spectrophotometry, PCR procedures/analyses, primer design, recombinant DNA construction, enzyme-linked immunosorbent assay (ELISA) and haemagglutination assay.
- Basic training in fluorescence-activated cell sorting (FACS) and confocal microscopy.
- Proficient in **quantitative analyses** and good understanding of **statistics in biology**.
- Appropriate level of familiarisation with health and safety executive (HSE) issued "Biological agents: Managing the risks in laboratories and healthcare premises" and UK good laboratory practice regulations.

Teaching Experiences

Cambridge International Examinations (CIE) A level Chemistry Consolidator [2013 – 2014]
Providing paid after-class sessions to peer-students with difficulties in AS-level physical and organic chemistry.

Primary and Secondary School Language Tutor [2012 – 2013]

- Teaching English and Malay languages to non-English speaking students aged nine to twelve at primary schooling level.
- Teaching English to non-English speaking students aged thirteen and above at secondary schooling level.

Skills acquired from teaching experience and as a class representative:

- **Excellent people skills –** able to communicate with people across various age groups from very young individuals to peers and to academics.
- Ability to convey ideas and opinions professionally and understandably.
- Patient and understanding when faced with challenges.
- Responsible and possess **good organisation and planning abilities**.

Additional Skills

IT skills: Advanced user in the **Microsoft Office Package** (Word, Excel and Powerpoint) and **Keynote** (Mac OSX), alongside basic **XML** and **Python** coding knowledge.

Other skills obtained during degree and from research experience:

- Ability to perform critical evaluation and analyses on scientific literatures.
- Confident **presentation skills** and **proactive in discussions**.
- Good understanding of **balance between scientific accuracy** and **simplicity** in scientific communication.
- Adherence to deadlines and punctuality.

Extracurricular Activities

Member of Edinburgh University's Young Scientists Research Association (EUYSRA) Biology Department. [2015 – 2017]

- Inspiring younger peers in scientific research through presentations and organised lab sessions.

1st Violinist in the Edinburgh University's Musical Medics Orchestra [2014 – 2017]

- Two concerts are performed annually (winter and spring concerts) to raise funds for local charities and non-profit organisations.

Edinburgh University Cricket Club Men's Teams 3 and 4 [2015 – 2017]

External Language Courses:

- French 2.2 (beginner to intermediate) **[January 2016 – March 2016]**
- French 2.4 (intermediate) **[September 2016 – December 2016]**

Additional Information

Languages:
Full working/professional proficiency in English, native/bilingual proficiency in Malay, limited working proficiency in French and Cantonese, and elementary proficiency in Mandarin.

Nationality: Malaysian