

---

## Curriculum Vitae

---

**Name:** Assoc. Prof. Dr Hii Siew Ling

**List of Research:**

**Internal Grant**

1. Study on physiochemical and functional properties of stingless bee honey indigenous to Sarawak. [Research ID: UCTS/RESEARCH/2/2017/02]
2. Characterisation of Bioactive Compounds from Malaysian *Kelulut* Honey. [Research ID: UCTS/RESEARCH/1/2019/07]
3. Nutrition bar from local ingredients. [Research ID: UCTS/RESEARCH/1/2021/02]
4. Jam from the "*Belimbing Hutan*" (*Baccaurea angulate*) fruit skin. [Research ID: UCTS/RESEARCH/2/2016/08]
5. Nutritional profile, total phenolic and antioxidant activity of *terung asam* Sarawak. [Research ID: UCTS/RESEARCH/4/2016/01]
6. Effects of degumming and bleaching 3-monochloropropane-1,2-dio (3-MCPD) esters content in refined palm oil. [Research ID: UCTS/RESEARCH/4/2016/02]
7. Extraction of prebiotics from underutilised native plant species as functional food ingredient. [Research ID: UCTS/RESEARCH/2/2018/10]
8. A study on physicochemical properties of spray dried *Kelulut* honey powder. [Research ID: UCTS/RESEARCH/3/2018/11]

9. Optimisation of prebiotic extraction from agro industry waste as functional food ingredient. [Research ID: UCTS/RESEARCH/1/2019/03]
10. The construction of high cellulose affinity cel8C cellulose. [Research ID: UCTS/RESEARCH/4/2018/09]
11. Development of stingless bee honey – ginger crystal. [Research ID: UCTS/RESEARCH/2/2019/04]

### **External Grant**

- (i) Innovative Technologies for Extraction of Emergent Prebiotics from Malaysian Seaweeds as Functional Food Ingredients. (FRGS, MOHE, Malaysia). (Project ID: FRGS/1/2019/WAB09/KUTS/02/1). (Sept 2019 – May 2023).
- (ii) Development of bioplastic from natural polysaccharides of selected Malaysian seaweeds. (ERGS, MOHE, Malaysia). (Project No: ERGS/1/2013/TK04/TAYLOR/02/01). (July 2013 – Mac 2017).
- (iii) In vitro tissue culture of Sargassum species with enhanced biochemical properties through application of gamma radiation. (FRGS, MOHE, Malaysia). (Project No: FRGS/1/2013/STWN03/TAYLOR/02/1). (Apr 2013 – Jan 2017).

### **Consultancy with Gratuity**

- (i) Black Soldier Flies Larvae (899 HOLDINGS (MALAYSIA) SDN BHD) – Sept 2020 – Oct 2020.

### **List of Publications:**

1. Wong, J.C.J., Hii, S.L. and Koh, C.C. (2021). Isolation of prebiotics from *Artocarpus integer's* seed. *International Journal of Food Science*, Volume

2021, Article ID 9940078, 11 pages,  
<https://doi.org/10.1155/2021/9940078>

2. Tang, S. L., Hii, S. L. and Koh, C. C. (2020). Recent advance in extraction of prebiotics from plants: A review. *International Journal of Biomass & Renewables*, 9(2), 14-21.
3. Lim, J.Y., Hii, S.L., Chee, S.Y. & Wong, C.L. (2018). *Sargassum siliquosum* J. Agardh extract as potential material for synthesis of bioplastic film. *Journal of Applied Phycology*, 30, 3285 – 3297.
4. Tang, S. L., Koh, C.C. and Hii, S.L. (2021). Evaluation and characterisation of candidate prebiotics extracted from coconut husk by ultrasound-assisted extraction technique, in 32<sup>nd</sup> Symposium of Malaysian Chemical Engineers 2021 (SOMChE2021), virtual conference, 15 to 16 July 2021. Accepted for publication in *IOP Conference Series: Materials Science and Engineering*.
5. Jacky, L. T. J., Koh, C. C. and Hii, S. L. (2021). The physicochemical properties of stingless bee honey: A review. *Borneo Journal of Sciences & Technology*, 3(2), 59-64.
6. Hwong, C. S., Lau, J. S. J., Koh, C. C. and Hii, S. L. (2020). Optimisation of phenolic compounds extraction from *Terung Asam* Sarawak and their antioxidant activity. *Borneo Journal of Science and Technology*, 2(2), 39 – 46.
7. Wong, P., Hii, S. L., Koh, C. C., Moh, T.S.Y., Gindi, S.R. and Wong, W.P.M. (2020). Physicochemical and proximate analysis of *Heterotrigona itama* honey from inland and coastal regions of Sarawak. *ASM Science Journal*, 13, Special Issue 4, 36 – 44.

8. Wong, P., Hii, S.L., Koh, C.C., Moh, T.S.Y. and Gindi, S.R. (2019). Chemical analysis on the honey of *Heterotrigona itama* and *Tetrigona binghami* from Sarawak, Malaysia. *Sains Malaysiana*, 48 (8): 1635-1642.
9. Wong, P., Hii, S.L., Lim, S.N., Koh, C.C. and Gindi, S.R. (2019). A newly developed *Kelulut* honey drink enriched with seaweed by using design of experiment approach. *e-bangi*, Vol. 16, No. 3 (1-10).
10. Hwong, C.S., Koh, C.C. and Hii, S.L. (2019). Nutritional composition of unripe and ripe freeze-dried terung asam from Sarawak. *e-bangi*, Vol. 16, No. 3 (1-6).
11. Gindi, S.R., Chua, S.P.L., Koh, C.C. and Hii, S.L. (2019). Optimising the acceptability of jam from *Baccaurea angulata* fruit peel. *e-bangi*, Vol. 16, No. 3 (1-9).
12. Gindi, S.R., Koh, C.C., Chua, S.P.L. and Hii, S.L. (2019). Physicochemical characteristics and proximate analysis of fruit jam from *Baccaurea angulate* peel. *Borneo Journal of Sciences & Technology*, 1(2), 74-77.
13. Tan, Y. H., Chiang, E. W., Hii, S.L. & Woo, K.K. (2018). Behavioral properties of *Acinetobacter* species in degrading oil. *Malaysian Journal of Biochemistry & Molecular Biology*, 3, 72-76.
14. Wong, P., Moh, T.S.Y., Suzy, R.A.G., Wong, W.P.M. and Hii, S.L. (2018). Comparison of stingless bee honey originated from two different geographical area in Sarawak, Malaysia, in *Proceeding of National Conference on Agricultural and Food Mechanization 2018* (NCAFM 2018), pp. 127 – 129.
15. Wong, P., Hii, S.L., Lim, S.N. and Suzy, R.A.G. (2018). Development of new stingless bee honey-algal drink by using statistical approach, in

*Proceeding of National Conference on Agricultural and Food Mechanization 2018* (NCAFM 2018), pp.130 – 132.

16. Suzy, R.A.G., Chua, P.L. and Hii, S.L. (2018). Utilization of “Belimbing Hutan” (*Baccaurea angulata*) skin by producing a fruits jam, in *Proceeding of National Conference on Agricultural and Food Mechanization 2018* (NCAFM 2018), pp. 133 – 135.
17. Ting, H.Y., Wong, P., Pao, K.W.D. and Hii, S.L. (2018). Vision-based estimation system for total phenolic content in honey, in *Proceeding of National Conference on Agricultural and Food Mechanization 2018* (NCAFM 2018), pp. 108 – 111.

**List of Awards:**

- (i) Gold medal – International Invention, Innovation & Technology Exhibition 2019 (ITEX 2019), by MINDS (Malaysian Invention & Design Society), 2019
- (ii) Bronze medal - Malaysia Technology Expo (MTE 2019), by Malaysian Association of Research Scientists, 2019
- (iii) Gold medal - Innovation Technology Expo 2019 (InTEX-19), by UNIMAS, 2019