

BRIEF CV

Name: **Goh Hoe Han**

Associate Professor

Email: gohhh@ukm.edu.my

BIODATA

Research specialization : Plant Functional Genomics
Academic qualification : PhD (Biology), 2011, University of Sheffield
BSc (Biology), 2008, University of Sheffield
Academic employment : Universiti Kebangsaan Malaysia (2008-Present)
Current academic position : Associate Professor (Since 2019)
Current administration post : Deputy Director (2022-present); Head of Quality Assurance (2020-2022)
Recognition : Honorary Secretary/ Life Member of Malaysian Proteomics Society 2020
Visiting Researcher Grant 2018 at National Institute of Genetics, Japan
Veni Domain Science, Dutch Research Council Grant Review Panel
Human Frontier Science Program (HFSP) Grant Review Panel
UK BBSRC Grant Review Panel
Life member of Asian Federation of Biotechnology (AFOB)
Awards & Honour : UKM MyRA® 2019 Award –Individual Excellence Award (Publication);
MOOC UKM Design Award 2018-2019 (Open Category) – 2nd place;
Excellent Service Award 2014
SeqAhead Travel grant 2014, TGAC, UK
Uni Sheffield Excellence Exchange Scheme Award 2009
Uni Sheffield PhD Studentship, ORS Award & Fee Scholarship 2008-2011

RESEARCH SUMMARY

PUBLICATION

Publication name : Hoe-Han Goh
Scopus ID : 57195439102
ORCID link : 0000-0002-8508-9977
Researcher ID : I-2943-2012
Google Scholar ID : Zkj3yxcAAAAJ
No of indexed publication : 80
No of non-indexed publication : 18
No of books : 6
No of book chapters : 3

List of selected publication (recent 5 years)

1. Ting T-Y, Li YD, Bunawan H, Ramzi AB & **Goh H-H*** (2023) Current advancements in systems and synthetic biology studies of *Saccharomyces cerevisiae*. Journal of Bioscience and Bioengineering 135(4):259-265. (Q3, IF:3.185)

2. Wee C-C, Nor Muhammad NA, Subbiah VK, Arita M, Nakamura Y & **Goh H-H*** (2023) Plastomes of *Garcinia mangostana* L. and comparative analysis with other *Garcinia* species. *Plants* 12(4):930. <https://doi.org/10.3390/plants12040930> (Q1, IF:4.658)
3. Baharin A, Ting T-Y & **Goh H-H*** (2023) Omics approaches in uncovering molecular evolution and physiology of botanical carnivory. *Plants* 12(2):408. <https://doi.org/10.3390/plants12020408> (Q1, IF:4.658)
4. Wee C-C, Subbiah VK, Arita M & **Goh H-H*** (2023) The applications of network analysis in fruit ripening. *Scientia Horticulturae* 311, 111785. <https://doi.org/10.1016/j.scienta.2022.111785> (Q1, IF:4.342)
5. Baharin A, Ting T-Y & **Goh H-H*** (2022) Post-proline Cleaving Enzymes (PPCEs): Classification, Structure, Molecular Properties, and Applications. *Plants* 11(10), 1330. (Q1 IF:3.935)
6. Ting T-Y, Baharin A, Ramzi AB, Ng C-L & **Goh H-H** (2022) Neprosin belongs to a new family of glutamic peptidase based on *in silico* evidence. *Plant Physiology and Biochemistry* 183, 23-35. (Q1 IF:4.27)
7. Ravee R, Baharin A, Cho W-T, Ting T-Y & **Goh H-H*** (2021) Protease activity is maintained in *Nepenthes ampullaria* digestive fluids depleted of endogenous proteins with compositional changes. *Physiologia Plantarum* 173(4), 1967-1978. (Q1 IF: 4.148 Top 10%)
8. Rosli MAF, Mediani A, Azizan KA, Baharum SN & **Goh H-H*** (2021) UPLC-TOF-MS/MS-based metabolomics analysis reveals species-specific metabolite compositions in pitchers of *Nepenthes ampullaria*, *Nepenthes rafflesiana*, and their hybrid *Nepenthes × hookeriana*. *Front. Plant Sci.* 12:655004. (Q1 IF: 4.402 Top 10%)
9. Zulkapli MM, Ab Ghani NS, Ting TY, Aizat WM & **Goh H-H*** (2021) Transcriptomic and proteomic analyses of *Nepenthes ampullaria* and *Nepenthes rafflesiana* reveal parental molecular expression in the pitchers of their hybrid, *Nepenthes × hookeriana*. *Front. Plant Sci.* 11:625507. (Q1 IF: 4.402 Top 10%)
10. **Goh H-H***, Baharin A, Mohd Salleh FI, Ravee R, Wan Zakaria WNA. & Mohd Noor N (2020) Transcriptome-wide shift from photosynthesis and energy metabolism upon endogenous fluid protein depletion in young *Nepenthes ampullaria* pitchers. *Scientific Reports* 10: 6575. (Q1 IF:4.011)

GRANTS

No of completed grants : 7

No of ongoing grants : 3

List of grants (as a project leader) :

No.	Title / Grant Code / Duration	Status	Funding (RM)
1.	MANGOSTEEN (GARCINIA MANGOSTANA) ORGANELLE GENOME PROJECT - NIG-Joint (A) Grant: 2A2021 9 Mar 2021 – 30 Apr 2022	Ongoing	5,000.00 JPY129,000
2.	REFERENCE DATABASE FOR FUNCTIONAL GENOMICS ANALYSIS OF MANGOSTEEN - Research University Grant: DIP-2020-018 1 Aug 2020 – 31 Jul 2022	Ongoing	100,000.00
3.	FUNCTIONAL ANALYSIS OF A NOVEL PROLYL PROTEASE NEPROSIN FROM <i>Nepenthes ampullaria</i> - FRGS: FRGS/1/2019/STG05/UKM/02/10 1 Sep 2019 – 31 Aug 2021	Ongoing	97,200.00
4.	PROFILING AND FUNCTIONAL CHARACTERISATION OF ENZYME FROM NEPENTHES PITCHER PLANT - Research University Grant: GUP-2017-057 16 Oct 2017 – 15 Jul 2019	Completed	70,000.00
5.	MULTI-OMICS ANALYSIS OF MANGOSTEEN RIPENING -NIG-Joint (A) Grant: 2A2019 26 Feb 2019 - 10 Oct 2019	Completed	6,230.00 JPY163,000
6.	GENOME-WIDE IDENTIFICATION AND FUNCTIONAL CHARACTERIZATION OF NOVEL PROTEINS FROM <i>Nepenthes ampullaria</i> THROUGH TRANSCRIPTOMIC APPROACH - FRGS: FRGS/2/2014/SG05/UKM/02/4 1 Dec 2014 – 30 Nov 2017	Completed	96,200.00
7.	PROTEOMIC AND METABOLOMIC SCREENING OF DIFFERENT NEPENTHES SPECIES - Research University Grant: DIP-2014-008 1 Aug 2014 – 31 Jul 2017	Completed	150,000.00

8.	ELUCIDATING THE FUNCTIONAL ROLE OF EXPANSINS USING FOURIER-TRANSFORM INFRARED (FTIR) MICROSPECTROSCOPY - FRGS: FRGS/1/2013/ST04/UKM/02/1 1 Apr 2013 – 30 Sep 2015	Completed	81,000.00
9.	INTEGRATED APPROACH TO IMPROVE LOCAL PAPAYA VARIETIES THROUGH ANTHHER AND ENDOSPERM CULTURE - ScienceFund MOSTI: 02-01-02-SF0907 1 Oct 2012 – 30 Sep 2015	Completed	253,350.00
10.	NOVEL APPROACH TO THE ENHANCEMENT OF CAROTENOID CONTENT IN PAPAYA - Research University Grant: GGPM-2011-053 19 Dec 2011 – 18 Dec 2013	Completed	50,000.00

RESEARCH INNOVATION & OUTPUT

No of patent : 0
 No of copyright : 3
 Others (if any) : 1 Trademark

SUPERVISION EXPERIENCE

	PhD	MSc	Undergraduate
Completed	10	17	3
Ongoing	4	5	0

TEACHING EXPERIENCE

LEVEL	COURSE NAME AND CODE	NO OF STUDENTS/BATCH
Undergraduate	Plant development (STBT2012)	20
	Issues and Applications of Genetically Modified Organisms (LMRB1512)	20
Postgraduate	Concepts and Applications of Systems Biology (RBRB6012)	10
	Research Methodology (RBRB8/6014)	10
	Omics Big Data Analysis in Biology (RBRB8022)	10
Professional	Micro-credentials Advanced Transcriptomics 2022-present Applications of Transcriptomics 2022-present	-

INVITED AND PLENARY TALKS

(selected)

1. International Science and Technology Colloquium (i-COSTECH), 8 Jun 2023, (Online), Invited Speaker
2. African Society for Bioinformatics and Computational Biology (ASBCB) CoSI webinar, 16 Mar 2022, (Webinar), Invited Speaker
3. Virtual Podium Asia Pacific 2021, 29 Nov - 2 Dec 2021 (Webinar), Lightning Talk Speaker
4. The 4th International Conference on Applied Biochemistry and Biotechnology (ABB 2021), 9-11 Aug 2021, Invited Speaker
5. Plant Genomics and Gene Editing Congress: Asia, 20-21 Apr 2021, Invited Speaker
6. National Conference on Precision Biotechnology in Agriculture (NCPBA), 8-10 Dec 2020 Invited Speaker
7. International Virtual Conference on Innovations and Recent Trends in Genomic Research ICITGR' 20, 30 Jul 2020 (Webinar) - Keynote
8. 6th Plant Genomics & Gene Editing Congress Asia/ Microbiome for Agriculture Congress Asia, 29-30 Jul 2019, Grand Millennium Hotel, Kuala Lumpur, Invited Speaker
9. Empowering Agricultural Research through (Meta) genomics 2019, Kasetsart University, 25 Jun 2019, Bangkok, Thailand, Invited Speaker
10. Multi-omics Approach in Plant Systems Biology, Chulalongkorn University, 19 Nov 2018, Montien Hotel, Bangkok, Thailand, Invited Speaker
11. Symposium on Evolutionary Genetics and Omics, National Institute of Genetics, Japan, 13-14 Jul 2018
12. The 81st Annual Meeting of the Botanical Society of Japan, 8-10 Sep 2017, Tokyo University of Science, Noda, Japan. International Symposium of Japanese Plant Research (JPR) fully sponsored speaker
13. Simposium Bioteknologi 2017, Hotel Armada, Jabatan Kimia Malaysia, 20-21/09/2017, Invited Speaker

SERVICES (THESIS EXAMINER, JOURNAL REVIEWER/EDITOR)

No of PhD thesis examined : 2

No of MSc thesis examined : 7

List of journals (as reviewer) : Botany, Scientific Reports, BMC Genomics, BMC Plant Biology, Cells, PLoS ONE, Tree Genetics & Genomes, Plant Physiology and Biochemistry, Journal of Oil Palm Research, GigaScience, Journal of Plant Research, PeerJ, Genomics, Food Research International, Sains Malaysiana, Physiology and Molecular Biology of Plants, International Journal of Molecular Sciences, Journal of Plant Growth Regulation

List of journals (as editor) : Frontiers in Plant Science - Associate Editor

INTERNATIONAL NETWORK ACADEMIC RELATIONS

(Provide name of the university)

- University of Sheffield, UK
- University of Warwick, UK
- National Institute of Genetics, Japan
- Tokyo University of Science, Japan
- Saitama University, Japan
- National University of Singapore, Singapore
- Kasetsart University, Thailand
- Chulalongkorn University, Thailand

PROFESSIONAL MEMBERSHIP

1. Malaysian Proteomics Society, Honorary Secretary 2020-2023; National
2. Malaysian Agricultural Proteomics Society; Assistant Treasurer 2015-2019, National
3. Asian Federation of Biotechnology (AFOB), member 2015-Present (Life member), International
4. Botanical Society of Japan (BSJ), member, 2019, International
5. Society for Experimental Biology (SEB), member, 2008-2015, International
6. Malaysian Society of Plant Physiology (MSPP), member, 2012, National
7. Royal Society of Biology/ UK Plant Sciences Federation, member, 2011-Present, International
8. GARNet, member, 2011-Present, International
9. American Society of Plant Biologists (ASPB), member, 2011, International

CONSULTATION

Project Consultation:

1. KAJIAN PEMBANGUNAN GARIS PANDUAN PENILAIAN RISIKO DAN PENGURUSAN RISIKO BERKAITAN BIOTEKNOLOGI BAHARU MUNCUL (EMERGING BIOTECHNOLOGIES), Jabatan Biokeselamatan Malaysia, 19 Sep 2022-18 Sep 2023, RM99,195.86

LIST OF CONFERENCES

(selected)

Conference/Seminar (level)	Organiser	Date	Place	Role
ASBCB CoSI webinar (International)	African Society for Bioinformatics and Computational Biology	16 Mar 2022	Online	Invited Speaker
Virtual Podium Asia Pacific 2021 (International)	VPAP	29 Nov – 2 Dec 2021	Online	Lightning Talk Speaker
The 4th International Conference on Applied Biochemistry and Biotechnology (International)	Bohai University, China	9-11 Aug 2021	Online	Invited Speaker
Industrial Webinar: Let's Explore the Next Generation Sequencing (Institutional)	UPM	3 Jul 2021	Online	Invited Speaker
Plant Genomics and Gene Editing Congress: Asia (International)	Global Engage	20-21 Apr 2021	Online	Invited Speaker
National Conference on Precision Biotechnology in Agriculture	MARDI	8-10 Dec 2020	Online	Invited Speaker
The 1st International BioDesign Research Conference (International)	BioDesign Research	1-18 Dec 2020	Online	Oral presenter
International Virtual Conference on Innovations and Recent Trends in Genomic Research ICITGR' 20	Bannari Amman Institute of Technology, India	30 July 2020	Online	Keynote Speaker
7 th International Horticulture Research Conference	Horticulture Research	1-30 July 2020	Online	Poster Presenter
ARCSB2020 (International)	INBIOSIS	2-4 Mar 2020	Ombak Villa Langkawi	Session Chairperson

AOMF- Merlion Metabolomics Symposium 2019 (International)	National University of Singapore	21-22 Nov 2019	Ngee Ann Kongsi Auditorium, NUS, Singapore	Poster Presenter
27th FAOBMB & 44th MSBMB Conference (International)	Malaysian Society for Biochemistry & Molecular Biology	19-22 Aug 2019	Berjaya Times Square Hotel, Kuala Lumpur	Session Chair/Talk presenter
6th Plant Genomics & Gene Editing Congress Asia/ Microbiome for Agriculture Congress Asia (International)	Global Engage	29-30 Jul 2019	Grand Millennium Hotel, Kuala Lumpur	Invited Speaker
Empowering Agricultural Research through (Meta) genomics 2019 (International)	Faculty of Science, Kasetsart University	25 Jun 2019	Bangkok, Thailand	Invited Speaker
11th AFOB Regional Symposium 2019 (International)	Bioprocessing Technology Institute, A*STAR	23-25 Jan 2019	Biopolis, Singapore	Poster presenter

LIST OF WORKSHOPS

(selected)

Workshop	Organiser	Date	Place	Role
2021				
Blockchain Agriculture Supply Chain Conference 2021-"Reinforcing Trust In Our Farm to Plate Processes- Herd That!	Space Exploration Asia	24-25 Aug 2021	Virtual	Invited moderator
Focus Group Discussion on Food Security and Sovereignty of the Paddy and Rice Industry in Malaysia	INSTITUT MASA DEPAN MALAYSIA	18 May 2021	Virtual	Invited panel
Strategic Validation Workshop: Impact Study of National Biotechnology Policy Phase 2 and Phase 3	Ipsos Sdn Bhd (IPSOS)	19 Mar 2021	Virtual	Invited participant
Plant Health Summit for Future Leaders (International)	Royal Society of Biology	2-5 Mar 2021	Virtual	Invited participant
2020				
Virtual RT-qPCR Analysis Workshop	INBIOSIS	19 Oct 2020	Virtual	Organiser/Presenter
SELANGOR BIOTECHNOLOGY ACTION PLAN 2020	UPM-MABIC Bioeconomy Corp	5 Aug 2020	Zenith Hotel, Putrajaya	Invited participant
2019				
MAPS Workshop 2019: Mass Spectrometry Proteomics Data Analysis	MAPS	23 Aug 2019	KLTC, UNMC, KL	Organiser/ Speaker
Kasetsart Genomics Workshop 2019	Kasetsart University	25-28 Jun 2019	Kasetsart University	Invited speaker/ Facilitator
2018				
Transcriptomics Workshop (National)	INBIOSIS	10-12 Apr 2018	INBIOSIS	Organiser/ Speaker
Scientific Workshop on qPCR (National)	INBIOSIS	21 Mar 2018	Genomics Lab, INBIOSIS	Organiser/ Speaker