

# CURRICULUM VITAE

## Cheng Hong Sheng

### Education

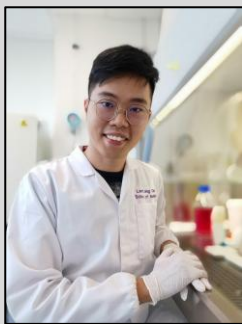
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- 2015- **PhD in Biochemistry and Translational Medicine**  
2018 *Monash University Malaysia, Malaysia*
- Optimisation of metabolic syndrome induction in rats for the investigation of effects and mechanisms of ellagitannin geraniin
- 2010- **Bachelor of Science in Biotechnology**  
2014 **Bachelor of Science (Hons) in Medical Bioscience**  
*Monash University Malaysia, Malaysia*
- Average grade: 3.88 (undergraduate), 4.00 (Hons)

### Professional Experience

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- 2018- **Postdoctoral Research Fellow**  
Present *Nanyang Technological University, Singapore*
- Awarded a fellowship (SGD 90,000) and young investigator research grant (SGD 249,100) to study host-microbiome interaction in steatotic liver disease
  - Identified drug targets for precision oncology of glioblastoma
  - Develop and refine advanced animal experimental workflows: orthotopic bladder cancer xenograft, fecal microbiome transplantation, intratracheal bacterial inoculation.
  - Lead bioinformatician — establish analytical workflow of bulk-RNAseq, SC-RNAseq, metabolomics, and multiomic analysis.
  - Developed an open-access, interactive webtool for MASLD liver transcriptomic analysis (MegaMASLD)
  - Published in high-impact scientific journals: *Molecular Cancers, Neuro-oncology, Advanced Science, Theranostics*
- 2015- **Postgraduate (PhD) Researcher**  
2018 *Monash University Malaysia, Malaysia*
- Developed a robust diet-induced metabolic syndrome model in rats
  - Established RNAseq pipeline for mechanistic study
  - Helped manage a government research fund (MYR 225,400)
  - Facilitated an academia-industry collaboration to initiate a clinical trial on tocotrienols
  - Published 4 first-authored publications
- 2015- **Teaching Assistant**  
2018 *Monash University Malaysia, Malaysia*
- Mentored undergraduate students in biochemistry-related modules
- 2013- **Undergraduate Researcher**  
2014 *Monash University Malaysia, Malaysia*
- Explored the effects of stress response and inflammation in metabolic syndrome, resulted in 4 research papers



#### EMAIL

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#### WEBSITES

[Google Scholar](#)

[ResearchGate](#)

[X](#)

[MegaMASLD](#)

#### DATE OF BIRTH

10 April 1991

#### NATIONALITY

Malaysian

#### LANGUAGES

- Mandarin
- English
- Malay

#### IT SKILLS

- SPSS
- R programming
- Linux
- Adobe Photoshop
- Adobe Illustrator
- Cytoscape

## Research Skills

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- Rodent experimentation
- Mammalian cell culture
- Cancer stem cell culture
- Histology & microscopy
- Western blot
- HPLC
- Flow cytometry
- PCR and qPCR
- Bioinformatics
- Single nucleotide polymorphism (SNP) analysis
- Bulk RNAseq
- Single-cell transcriptomics

## Extracurricular Experience/Affiliations

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2022	Committee member of New Frontiers in Biomedicine 2022 Conference & LEARN Annual Awards
2021	Committee member of Singapore National Postdoc Symposium
2021	<i>Ad hoc</i> reviewer of <i>Journal of Functional Foods</i> (ISSN: 1756-4646)
2021	<i>Ad hoc</i> reviewer of <i>Archives of Pharmacal Research</i> (ISSN: 0253-6269)
2020-2022	LKCMedicine EARly Researcher Network (LEARN) Secretary of Social Affairs, NTU Singapore
2020	<i>Ad hoc</i> reviewer of <i>Clinical and Translational Medicine</i> (ISSN 2001-1326)
2020-2022	Reviewer Board Member of <i>Hearts</i> (ISSN 3673-3846)
2019-present	Regular reviewer of <i>Multidisciplinary Digital Publishing Institute (MDPI)</i>
2019	<i>Ad hoc</i> reviewer of <i>Theranostics</i> (ISSN: 1838-7640)
2017	<i>Ad hoc</i> reviewer of <i>PharmaNutrition</i> (ISSN: 2213-4344)
2015	Committee member of 26 <sup>th</sup> Intersivity Biochemistry Seminar
2011	Treasurer of Monash Sudokan Aikido Club

## Achievements and Awards

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2024	Best Oral Presenter Award & Travel Grant Award	FEBS-IUBMB-ENABLE Conference 2024
2024	Best Oral Lightning Talk Presenter Award	LEARN Symposium 2024
2020	AYOXXA Grant 2020	AYOXXA Biosystems GmbH
2019	Nomination for 2018 Vice-Chancellor's Commendation for Thesis Excellence	Monash University Malaysia
2018	Travel Grant Award to 6 <sup>th</sup> Seoul International Congress of Endocrinology and Metabolism	Korean Endocrine Society
2017	Travel Grant Award to 2017 International Congress of Diabetes and Metabolism	Korean Diabetes Association
2017	Best Higher Degree by Research Student Award 2017	Monash University Malaysia
2016	"Research in a Flash" presentation-Third prize	Monash Science Symposium
2015	Monash University Malaysia Research Degrees Scholarship	Monash University Malaysia
2013&2014	Best Graduate Awards	Monash University Malaysia
2013	Dean's List Award	Faculty of Science, Monash University
2010-2012	Highest Academic Performance	Faculty of Science, Monash University
2009	Program Ijazah Dalam Negara (PIDN) Scholarship	Public Service Department Malaysia

## Research Grants

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2025	Open Fund-Young Investigator Research Grant (OF-YIRG) (MOH001719; SGD 249,100 for 3 years)	National Medical Research Council (NMRC), Singapore
2022	LKC Medicine Dean's Postdoctoral Fellowship 2022 (SGD 30,000 per year for 3 years)	LKC Medicine, NTU Singapore

## Scientific Communication & Meetings

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2025	Asia Pacific Association for the Study of the Liver (APASL) 2025	Oral Presentation
2024	FEBS-IUBMB-ENABLE Conference 2024	Oral Presentation
2024	LKC Medicine EARly Researcher Network (LEARN) Symposium 2024	Oral Lightning Talk
2024	European Association for the Study of the Liver (EASL) Congress 2024	Poster Presentation
2018	6 <sup>th</sup> Seoul International Congress of Endocrinology and Metabolism	Oral Presentation
2017	2017 International Congress of Diabetes and Metabolism	Oral Presentation
2016	Monash Science Symposium 2016	"Research in a Flash" & Poster Presentation
2014	25 <sup>th</sup> Interschool Biochemistry Seminar	Poster Presentation
2014	Monash Science Symposium 2014	Oral Presentation

## Technology Disclosure and Patent

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1. TAN Nguan Soon, **CHENG Hong Sheng**, LOW Zun Siong, CHUA Damien. C-Terminal Fibrinogen-Like Domain Of Angiopoietin-Like 4 (cANGPTL4) And Its Use In Alleviating Liver Fibrosis Associated With Nonalcoholic Steatohepatitis (NASH). 10202250125X. [10 June 2022]. (Singaporean Provisional Patent Application)
2. TAN Choon Hong, TAN Nguan Soon, XIE Hao, **CHENG Hong Sheng** The discovery of specific fatty acid hydroxy-fatty acids (FAHFA) as potential food additives for inhibiting lipid absorption. 10202500347W [7 February 2024]. (Singaporean Provisional Patent Application)