

## CURRICULUM VITEA



**Name** : Mohd Farizal Bin Ahmad Kamaroddin  
**Date of Birth** : 14 September, 1985  
**Nationality** : Malaysian  
**Marital Status** : Married  
**Home Address** : No. 32, Jalan Pulai Mesra 12, Bandar Baru Kangkar Pulai,  
81110 Johor Bahru, Johor, Malaysia  
**Corresponding Address** : Department of Biosciences, Faculty of Science,  
Universiti Teknologi Malaysia,  
81310 Johor Bahru, Johor

Tel: 07-5557530 (O), Fax:  
E-mail: [farizal@utm.my](mailto:farizal@utm.my), [mohdfarizal@fbb.utm.my](mailto:mohdfarizal@fbb.utm.my)  
Website: <http://fbme.utm.my/farizal>

### ACADEMIC QUALIFICATION

2017 : Ph.D. of Chemical and Biological Engineering  
University of Sheffield, United Kingdom  
2011 : M.Sc. of Science (Bioscience)  
Universiti Teknologi Malaysia  
2007 : B. Sc. of Science (Industrial Biology)  
Universiti Teknologi Malaysi

### AWARDS AND HONORS RECEIVED

Date : **Awards/Achievement**

- i. 1<sup>st</sup> Place for Green Building/ Green Technology Product category in International Biotechnology Competition and Exhibition 2019 (IBCEX 19).
- ii. SLAB Scholarship (2012/2016) to pursue PhD in Sheffield, UK
- iii. 1st Prize in Poster Presentation, 30th Symposium of Malaysian Society for Microbiology, Kuantan, Malaysia, 16th-19th August 2008.
- iv. UTM Scholarship (2009/2010) to pursue MSc in UTM, Malaysia.
- v. Best Presenter, Final Year Undergraduate Project (2007)
- vi. Dean's List Semester II 2004/200

## **PROFESSIONAL EXPERIANCE**

2007-2008	:	Research Assistant, Department of Industrial Biotechnology, Faculty of Biosciences and Bioengineering, Universiti Teknologi Malaysia, Skudai, Johor Bahru.
2008-2017	:	Tutor, Department of Industrial Biotechnology, Faculty of Biosciences and Medical Engineering, Universiti Teknologi Malaysia, Skudai, Johor Bahru.
2017-present	:	Senior Lecturer, Department of Biosciences, Faculty of Science, Universiti Teknologi Malaysia, Skudai, Johor Bahru

## **JOURNAL EDITOR/EDITORIAL/ADVISORY PANEL**

2016:	Journal reviewer for Applied Energy Journal (IF 5.746) Ms. Ref. No.: APEND1601337 Title: Algal blooming: A potential source of bulk biomass for biodiesel production (July 2016).
	Journal reviewer for International Journal of Applied Science and Technology, King Mongkut's University of Technology North Bangkok Title: Henry's Law Constant Estimation of Ozone in Unsaturated Fatty Acid (October 2016).
	Journal reviewer for Journal of Food Engineering (IF 3.199) Ms. Ref. No.: JFOODENG1601547 Title: Antimicrobial effectiveness of ultrafine bubble mixtures and fine bubble mixtures for fresh vegetables using an alternating flow (February 2016).
2017:	Journal reviewer for Journal of Food Engineering (IF 3.199) Ms. Ref. No.: JFOODENG1700743 Title: Lipase hydrolysis to improve foaming properties of egg white proteins (May 2017).
	The Open waste Management Journal (IF 0.60). Ms. Ref. No.: TOWMJ-9 Title: Utilization of residual glycerin from biodiesel production to obtain algal biomass (September 2017).
	Journal of Biotechnology for Biofuels (IF 5.203). Ms. Ref. No.: BBIO-D-17-00384. Title: Triaxic growth of an oleaginous red yeast Rhodospiridium toruloides under osmotic stress on "waste extract" for enhanced and concomitant lipid and carotenoid production (September 2017).
2018:	Journal Reviewer of 7th International Graduate Conference on Engineering, Science and Humanities (IGCESH 2018).
	Journal Reviewer for Malaysian Journal of Fundamental and Applied Sciences (MJFAS). Title: Synthesis and Optimization of Nano-sized Bacterial-based Violacein Pigment using Response Surface Methodology (April 2018).

## **ADMINISTRATIVE EXPERIENCE**

### **Faculty Level**

- 2019/  
2020:
- Committee member, Badan Kebajikan Jabatan Biosains, Faculty of Science, Universiti Teknologi Malaysia.
  - Coordinator for Student Development Program Committee (JKPP Biosains), Department of Biosciences, Faculty of Science, UTM
  - Committee member of Biosciences Academic and Quality committee, Department of Biosciences, Faculty of Science, UTM
  - Committee member of Biosciences STEM program, Department of Biosciences, Faculty of Science, UTM
- 2018:
- Coordinator for Student Development Program Committee (JKPP Biosains), Department of Biosciences, Faculty of Science, UTM
  - Module Leader (Biology) and committee for National Science Challenge, Semi Final Level 2018.

## **PROFESSIONAL MEMBERSHIP AND RECOGNITION**

- I. Life Member, Asian Federation of Biotechnology (AFOB), membership No.: MY00702
- II. Member, The Institution of Chemical Engineers (IchemE), membership No.: 99958993

## **RESEARCH PROJECT UNDERTAKEN**

- 2017-2018 : Project Leader, In-situ Sterilization of Photobioreactor and Contaminants Control through Ozonolysis. Potential Academic Staff Grant (PAS). Budget approved RM 20,000.
- 2019-2021 : Project Leader, The Mechanism of Biological Algaecide using Locally Isolated Fungi in Controlling Harmful Algal Bloom. Tier 2 Grant. Budget approved RM 30,000.
- 2020-2022 : Team Member, Spirulina Superfood for Community (Social Enterprise) Lead by Dr Mohd Faiz Mohd Amin (UMK-MOF: RM300,000)

## **THESIS**

- I. Direct Utilization of Tapioca Starch by *Aspergillus flavus* for Production of Kojic Acid in Batch and Fed-batch Culture. Degree Thesis, Universiti Teknologi Malaysia (2007).
- II. Statistical Optimization of Lignocellulase by Locally Isolated *Aspergillus niger* EFB-1 in Stirred Tank Reactor. Master Thesis, Universiti Teknologi Malaysia (2011).
- III. In-situ Disinfection and Algal Lipid Extraction using Ozonation in Novel Microbubbles Bioreactor for Biofuel Production. PhD Thesis, University of Sheffield (2017).

## **CONFERENCES ATTENDED**

1. Mohd Farizal Ahmad Kamaroddin, Ng Pui Yian and Madihah Md Salleh, 2008. Enzymatic Degradation of Oil Palm Empty Fruit Bunch (OPEFB) by Crude lignocellulase Produced by EFB1 and commercial Cellulase for Production of Polyoses. 30th Symposium of Malaysian Society for Microbiology, Kuantan, 16th-19th August 2008.
2. 3rd Annual Minaturisation Event “Miniaturisation – Micro Scale Bioprocess Development” at the Stevenage Biosciences Catalyst, Gunnels Wood Road, Stevenage, UK. 14th November 2012.
3. Algae Biotechnology Sheffield Network First Annual Conference Research in Algae Biotechnology at the University of Sheffield 11th July 2013, Ideas Space, Chemical and Biological Engineering, Sheffield.
4. Post Graduate Research Conference at Idea Space, Chemical and Biological Engineering Department, Sheffield, UK. May 2014. (Poster presentation).
5. University Of Sheffield Engineering Symposium (USES). Octagon Centre, Sheffield University, UK. 24 June 2014.
6. Algae Biotechnology Sheffield Network Annual Conference Research in Algae Biotechnology at the University of Sheffield 11th July 2013, Ideas Space, Chemical and Biological Engineering, Sheffield.
7. Research in Algae Biotechnology at the University of Sheffield, 26<sup>th</sup> August 2014, Ideas Space, Chemical and Biological Engineering, Sheffield.
8. IChemE Biochemical Engineering Young Researchers Meeting, 29th August 2014. Engineering Graduate School Pam Liversage, Sir Federick Mappin Street Sheffield. (Poster presentation).
9. Algae around the World Symposium. The Sainsbury Laboratory 23<sup>rd</sup> March 2015. University of Cambridge, Bateman Street, Cambridge CB2 1LR, United Kingdom. (Poster presentation).

## **PUBLICATIONS AND PAPER PRESENTED**

1. Md. Salleh, Madihah and Kamaroddin, Mohd. Farizal Ahmad, (2008). Direct utilization of tapioca starch by aspergillus flavus for production of kojic acid in batch and fed-batch culture. In: Advances in Biosciences and Bioengineering. Penerbit UTM, Johor, pp. 19-32. ISBN 978-983-52-0553-8
2. Kamaroddin, M. F., Hanotu, J., Gilmour, D. J. and Zimmerman, W. B. (2016). Insitu disinfection and a new downstream processing scheme from algal harvesting to lipid extraction using ozonerich microbubbles for biofuel production. ALGAL RESEARCH 17, 217–226. (Q1, IF 5.01)  
*Available at: <http://dx.doi.org/10.1016/j.algal.2016.05.006>*
3. Kamaroddin, M. F. (2018). The Challenges of Microalgal Biodiesel: Energy Efficient Downstream Processes, International Seminar on Biosciences & Medical Engineering (ISBME) 2018, pp. 9-10. ISBN 978-967-21-7122-
4. Kamaroddin, M. F., Rahaman, A., Gilmour, D. J. and Zimmerman, W. B. (2019). Optimization and cost estimation of microalgal lipid extraction using ozone-rich microbubbles for biodiesel production. Biocatalysis and Agricultural Biotechnology, 101462.

## **PLENARY LECTURE/KETNOTE ADDRESS**

1. Kamaroddin, M. F. (2018). The Challenges of Microalgal Biodiesel: Energy Efficient Downstream Processes, International Seminar on Biosciences & Medical Engineering (ISBME) (Plenary Lecture).
2. Kamaroddin, M. F. (2019). The Promising Future of Microalgae: Current Status and Future Research. Popular Science Seminar Series 21, (Lecture).