



NAME : DR. NORAZLINA AHMAD  
NATIONALITY : MALAYSIAN  
NRIC : 731225-10-5110  
DATE OF BIRTH : 25 DECEMBER 1973  
PLACE OF BIRTH : KLANG, SELANGOR, MALAYSIA  
MAILING ADDRESS : norazlina060@puncakalam.uitm.edu.my  
CURRENT EMPLOYER : UNIVERSITI TEKNOLOGI MARA  
PRESENT POSITION : SENIOR LECTURER  
APPOINTMENT STATUS : PERMANENT STAFF

### **ACADEMIC QUALIFICATION**

- 1 Doctor of Philosophy in Pharmaceutical Biotechnology  
The University of Queensland, Brisbane, Australia
- 2 Master of Science in Applied Molecular Microbiology,  
School of Biosciences, University of Nottingham, United Kingdom.
- 3 Bachelor of Science in Cell and Molecular Microbiology,  
Universiti Kebangsaan Malaysia, Bandar Baru Bangi Selangor.

### **PREVIOUS PROFESSIONAL EMPLOYMENT**

- 1. Senior Lecturer**  
Faculty of Pharmacy, Universiti Teknologi MARA, Puncak Alam, Selangor.  
Duration: December 2006 – Present
- 2. Microbiologist**
  - a) National TB Centre of Malaysia (NTBC), Kuala Lumpur  
Duration: 1 year (2000 - 2001)
  - b) Pathology Department, Kuala Lumpur Hospital  
Duration: 3 years (2001- 2004)
- 3. Research Assistant**  
Plant Biotechnology Laboratory, Universiti Kebangsaan Malaysia, Bangi, Selangor  
Duration: 2 years (1997-1999)

## **CURRENT TEACHING AND ADMINISTRATIVE RESPONSIBILITIES**

### **Area Of Teaching**

1. Pharmaceutical Microbiology and Parasitology
2. Pharmaceutical Bioengineering and Biotechnology
3. Pharmaceutical Biochemistry
4. Traditional and Complementary Medicine

### **Administrative Position**

1. Head of Quality Unit, UiTM Faculty of Pharmacy, Jan 2023 – Dec 2024
2. Head of Quality Unit, UiTM Cawangan Selangor, April 2018 – March 2022
3. Head of the accredited ISO/IEC 17025 Microbiology Laboratory and National Pharmaceutical Regulatory Agency (NPRA) Panel Laboratory 8 July 2022 – 7 July 2024
4. Coordinator for Quality Management, UiTM Cawangan Selangor June 2017 - April 2018
5. Coordinator for Strategic Planning Unit, Faculty of Pharmacy (2012 – 2016)
6. Committee Member for Quality Assurance, Faculty of Pharmacy (2012 – present)
7. Internal Auditor ISO9001:2015 Faculty of Pharmacy, UiTM (2012 – present)
8. Committee Member for Student Development, Faculty of Pharmacy (2016 – present)

## **RESEARCH AND PUBLICATIONS**

### **Field of Research Interest:**

Genetic Transformation and Heterologous Protein Expression in microbes and plants, Microalgae Biotechnology, Agrobiotechnology, Molecular Microbiology, Plant Tissue Culture

### **Research Interests**

1. Transgenic approaches to foreign protein production in plants and microbes
2. Bioprospecting microalgae and microbes for biopharmaceutical, cosmeceutical and nutraceutical applications
3. Study of emotional intelligence skills

### **Ongoing Projects**

1. Exploring UiTM Cawangan Selangor (UCS)-pond-derived microalgae for their potential in biopharmaceutical applications. Grant Agency: UiTM Cawangan Selangor (UCS) DUCS-P Grant 2022. Project code: 600-UiTMSEL (P.1 5/4) (075/2022); Sum RM 30,000; Principal Investigator, **1 July 2022 - 30 June 2024**
2. Consultation via telepharmacy: Are our pharmacists equipped and the public prepared? Grant Agency: UiTM Cawangan Selangor (UCS) DUCS-F Grant 2022. Project code: 600-

UiTMSEL (P.1 5/4) (141/2022); Sum RM 25,000; Co-Researcher, **1 October 2022 - 30 September 2024**

### **Completed Projects**

1. Heterologous expression of Phospholipase A<sub>2</sub> enzyme for Biopharmaceutical Industrial Application. Collaboration with the Faculty of Applied Sciences, Universiti Teknologi Mara (UiTM) Shah Alam and Universiti Islam Antarabangsa Malaysia (UIAM). Grant Agency: eScience, MOSTI; Sum RM 278, 000; Principal Investigator, **2007-2008**
2. Formulation and Optimization of Nutrient for Microalgae Cultured Under Coal-Fired combustion Flue Gas Conditions. with Faculty of Applied Sciences, Universiti Teknologi Mara (UiTM) Shah Alam. Grant Agency: Tenaga Nasional Berhad (TNB) Research Sdn Bhd; Sum RM 462,869.86; **February - December 2014.**
3. Accelerating Biogenesis of Silica in Microalgae (Diatoms). Collaboration with Faculty of Applied Sciences, Universiti Teknologi Mara (UiTM) Shah Alam. Grant Agency: FRGS, Ministry of Higher Education; Sum RM 101, 000; Principal Investigator, **2013-2015**
4. Systematic Miniaturized Nutrient Screening Strategies To Assess Nutrient Modulation On Microalgal Biomass, Lipid and Biochar. Collaboration with Faculty of Applied Sciences, Universiti Teknologi Mara (UiTM) Shah Alam. Grant Agency: FRGS, Ministry of Higher Education; Sum RM 78, 000; Co-Researcher, **2013-2015**
5. Antimicrobial potential of a chemical constituent from *Cassia alata* towards multidrug-resistant microbial strain. Grant Agency: Institute of Research, Development and Commercialisation (IRDC) UiTM; Sum RM 20, 000; Principal Investigator, **2005**
6. Molecular detection for 'Halal' authentication of Meat and Pharmaceutical Products. Collaboration with Faculty of Applied Sciences, Universiti Teknologi Mara (UiTM) Shah Alam and Department of Chemistry, Petaling Jaya, Selangor. Grant Agency: FRGS, Institute of Research, Development and Commercialisation (IRDC) UiTM. Sum RM 10,000; Co-Researcher, **2005**

### **Publications**

Azwandi, A., Hasan, H.M., Salim, S.S., Usir, E., **Norazlina, A., (2022)**. The relationship between emotional intelligence and stress among pharmacy students at Universiti Teknologi MARA Puncak Alam during COVID-19 pandemic. *Education in Medicine Journal* 2022; 14(3): 75–90

Nur Nabiha Razak, Nur Farahanim Mohd Tahir, Syafiqa Abdul Samad, Syafiqa Hayati Mohd Ali, Khairul Adzfa Radzun, **Norazlina Ahmad**. Strategies for the Isolation and Cultivation of Malaysian Freshwater Microalgae for Biopharmaceutical Application. 3<sup>rd</sup> International Postgraduate Conference On Postgraduate Conference On Pharmaceutical (iPoPS 2014), 11-12 August **2014**, Faculty of Pharmacy, Universiti Teknologi MARA, Puncak Alam Campus, Selangor, Malaysia.

Syafiqa Hayati Mohd Ali, Syafiqa Abdul Samad, Wong Tin Wui, Khairul Adzfa Radzun, Norazlina Ahmad. Isolation and Purification of Siliceous Frustules from *Thalassiosira pseudonana*. 3<sup>rd</sup> International Postgraduate Conference On Postgraduate Conference On Pharmaceutical (iPoPS 2014), 11-12 August 2014, Faculty of Pharmacy, Universiti Teknologi MARA, Puncak Alam Campus, Selangor, Malaysia.

**Ahmad, N (2012)**. Transgenic approaches to foreign protein expression in sorghum grain. PhD Thesis, The University of Queensland, Brisbane, Australia

**Ahmad N, Sant R, Bokan M, Steadman KJ, Godwin ID (2011)**: Expression pattern of the *alpha*-kafirin promoter coupled with a signal peptide from *Sorghum bicolor* (L.) Moench. *Journal of Biomedicine and Biotechnology* 49: 492-500 [IF: 2.436]

**Ahmad N, Sant R, Steadman KJ, Godwin ID**: Expression of alpha-kafirin promoter from sorghum for seed specific production of pharmaceutical proteins. In Emmerton L., Peter A., Ross D and Ross D (ed.) Proceedings of the Australasian Pharmaceutical Science Association Annual Conference: 6 –9 December, 2010, Brisbane, Australia, pp. 135, ISBN: 978-0-646-54805-0

Hazni H, **Ahmad N**, Hitotsuyanagi Y, Takeya K, Chee-Yan C: Phytochemical Constituents from *Cassia alata* with Inhibition against Methicillin-Resistant *Staphylococcus aureus* (MRSA) (2008). *Planta Med*; 74(15): [IF:2.369 cited 9 times]

**Ahmad, N. (2004)**. Cloning and Expression of Active Porcine Phospholipase A<sub>2</sub>. MSc Thesis, The University of Nottingham, United Kingdom

## OTHER RELEVANT INFORMATION

### Awards

1. **Public Service Award of Excellent 2019**  
UiTM Cawangan Selangor Universiti Teknologi MARA, Puncak Alam, Selangor.
2. **Public Service Award of Excellent 2007**  
Faculty of Pharmacy Universiti Teknologi MARA, Shah Alam, Selangor.
3. **INPEX Pittsburgh USA-11<sup>th</sup> -14<sup>th</sup> June 2008**  
David L.Lawrence Convention Centre, Pittsburgh, United States of America  
Award:  
**General Award**  
Research Title:  
Halazyme- Recombinant Halal Phospholipase A<sub>2</sub> Enzyme from microbes
4. **BANK ISLAM INNOVATION AWARD OF the YEAR 2007 in conjunction with UiTM IID 2008, 27<sup>March</sup> 2008**  
Dewan Sri Budiman/Annex UiTM Shah Alam, Selangor  
**Award: RM 2500.00**

Research Titles:

MAXRACT- Confidence Assured DNA Testing System for Porcine Traces Detection in Leather and Food Products

PharmKARNA- Pharmaceutical Product Genetic Testing for Complete Peace of Mind

5. **UiTM IID2008- Globalizing UiTM's Inventions, Innovations and Designs, 25<sup>th</sup> – 27<sup>th</sup> March 2008**

Dewan Sri Budiman/Annex UiTM Shah Alam, Selangor.

Organizer: Institute of Research, Development and Commercialisation (IRDC)

Awards:

**Diamond Award**

**Gold Medal**

**Faculty Awards from two faculties in UiTM - the Faculty of Chemical Engineering and Faculty of Business and Management**

Research Title:

Halazyme- Recombinant Halal Phospholipase A2 Enzyme from microbes

6. **Eureka Brussels Innova Energy. The Belgian and International Trade Fair for Technological Innovation, 22<sup>nd</sup> – 25 November 2007**

Awards:

**Gold Medal**

**Special Award from State Office of Industrial Property of The Republic of Macedonia**

**The research is reported in the Belgian newspaper; Gazet Van Antwerpen on 23 November 2007, Malaysian Berita Harian on 3 December 2007 and Sinar 1<sup>st</sup> December 2007.**

Research Title:

MAXRACT- Confidence Assured DNA Testing System for Porcine Traces Detection in Leather and Food Products

7. **Eureka Brussels Innova Energy. The Belgian and International Trade Fair for Technological Innovation, 22<sup>nd</sup> – 25 November 2007**

Award:

**Bronze Medal**

Research Title:

PharmKARNA- Pharmaceutical Product Genetic Testing

8. **Malaysia Technology Exhibition 2007, 29<sup>th</sup> -31<sup>st</sup> March 2007**

Putra World Trade Centre (PWTC), Kuala Lumpur.

Organizer: Malaysia Association of Research Scientists (MARS)

Award:

**Silver Medal**

Research Title:

Novel Molecular Marker for *Sus scrofa* DNA detection in Meat and Pharmaceutical Product.

9. **Malaysia Technology Exhibition 2007, 29<sup>th</sup> -31<sup>st</sup> March 2007**  
 Putra World Trade Centre (PWTC), Kuala Lumpur.  
 Organizer: Malaysia Association of Research Scientists (MARS)  
 Award:  
**Silver Medal**  
 Research Title:  
 Detection of *Sus scrofa* Molecular Markers via Real –Time PCR.
  
10. **IID2007- Glocalizing UiTM's Inventions, Innovations and Designs, 24<sup>th</sup> – 25<sup>th</sup> January 2007**  
 Dewan Sri Budiman/Annex UiTM Shah Alam, Selangor.  
 Organizer: Institute of Research, Development and Commercialisation (IRDC)  
 Award:  
**Gold Medal**  
 Research Title:  
 Novel Molecular Marker for *Sus scrofa* DNA detection in Meat and Pharmaceutical Product.
  
11. **IID2007- Glocalizing UiTM's Inventions, Innovations and Designs, 24<sup>th</sup> – 25<sup>th</sup> January 2007**  
 Dewan Sri Budiman/Annex UiTM Shah Alam, Selangor.  
 Organizer: Institute of Research, Development and Commercialisation (IRDC)  
 Award:  
**Gold Medal**  
 Research Title:  
 Detection of *Sus scrofa* Molecular Markers via Real –Time PCR.
  
12. **International Innovation and Technology Exhibition (ITEX 2006)**  
 Kuala Lumpur Convention Centre (KLCC).  
 Organizer: Ministry of Higher Education, Malaysia  
 Award:  
**Silver Medal**  
 Research Title:  
 Designing Real-Time PCR for the detection of *Sus scrofa* DNA in meat products.
  
13. **IPTA Research and Development Expo 2005**  
 Putra World Trade Centre (PWTC)  
 Kuala Lumpur  
 Organizer: Ministry of Higher Education, Malaysia and Universiti Teknologi Malaysia  
 Award:  
**Bronze Medal**  
 Research Title:  
 Genomic Instability of Phage Challenge *Campylobacter jejuni* (collaboration with University of Nottingham, United Kingdom).

**14. IPTA Research and Development Expo 2005**

Putra World Trade Centre (PWTC)

Kuala Lumpur

Organizer: Ministry of Higher Education, Malaysia and Universiti Teknologi Malaysia

Award:

**Bronze Medal**

Research Title:

Cloning and Expression of Porcine Phospholipase A<sub>2</sub> (collaboration with University of Nottingham, United Kingdom).

**CURRENT PROFESSIONAL MEMBERSHIP – NIL**

**CONFERENCES AND TRAINING – NIL**

**CONSULTANCY – NIL**

**COMMUNITY SERVICE – NIL**