



# Prof. Dr. Wan Mohtar Wan Yusoff

## Bioindustrial Engineer

### My Contact

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- ✉ wantarukm@gmail.com
- 📞 +6019-333 3921
- 📍 Lot 3084, Jalan Air Itam,  
Kampung Sungai Merab Luar,  
43000, Kajang, Selangor D. E.

### Personal Data

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• <b>Name</b>	Wan Mohtar Wan Yusoff
• <b>IC NO</b>	560512-03-5123
• <b>D. O. B.</b>	12 Mei 1956
• <b>P. O. B.</b>	Kelantan
• <b>Sex</b>	Male
• <b>Nationality</b>	Malaysian
• <b>Current Employer</b>	Entruss Ventures Sdn Bhd
• <b>Employer Address</b>	Bandar Baru Bangi
• <b>Telephone No</b>	03-8925 8301

### About Me

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Prof Dr Hj Wan Mohtar Wan Yusoff is a trained biochemical engineer with a flair and passion in business and shariah compliance investments. He is the ex chairman of UNIKEB Bhd, a registered cooperative with SKM, the ex president of IWAQF, a registered NGO in global Waqf advancement with HQ in Malaysia and the ex deputy chairman of JPAN Selangor, the coordinating office for all cooperatives in the state of Selangor that is registered with Angkasa (The apex cooperative representing all cooperative in Malaysia). currently engage with several cooperative to develop customise strategic planning for sustainability. He is a certified HRDC trainer . he has engaged with the cooperative movement since 1990 and is currently board member of KOPSYA and KOBANGI. He is currently vice chairman of KOMAS (community Base Cooperative

### Educational Qualifications

#### Academic Qualification

##### Ph. D.

Industrial Microbiology / Fermentation Technology  
1985  
Queen Elizabeth College, London University, UK

##### B. Sc.

Chemical Engineering  
1978  
Leeds University, UK

#### Other Professional Courses Completed

Research Management, Los Banos University, Philipines



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## Research Experience

### Number of Years of Experience in the Field Related to the Proposed Project

**28 years of experience in the field of Fermentation Technology / Industrial Biotechnology**

### Major Research Programmes/Projects Completed

**Title:** Utilization of cells and enzyme production for the Bioconversion of cellulosic material IRPA 4-07-03-008 (1991-1995) and 08-02-02-0001 (1996-2000)

**From:** 1991

**To:** 2002

**Position held:** Researcher

**Major output:** Publications and Postgraduate students

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**Title:** Continuous production of B.t in a two-stage fermentation system

**From:** 1998

**To:** 2003

**Position held:** Researcher

**Major output:** A two-stage continuous production system for B.t with high delta-endotoxin concentration

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**Title:** Production of PUFA from oleaginous fungi

**From:** 2001

**To:** 2004

**Position held:** Project leader

**Major output:** A local isolate with good potential for lipid production rich in GLA and a step by step manual for the production of PUFA

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## Research Achievements

### Honours and Award

- Excellent service 2003 awarded by UKM
- Harvest Award (TNB R&D Convention 2013



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## Benefits to society and country

Acts as advisor to several rubber glove manufacturers in Malaysia and Medan, Indonesia for the treatment of waste water to comply with local authority requirements. An integrated approach that begins with treatment at source of pollutant generation and ends with an in-house laboratory-based monitoring system in order to satisfy the concept of beyond compliance that is industry-friendly.

Development of a 2-stage packed bioreactor for the continuous production of cellulase, reducing sugar and spent cellulose. Cellulase has numerous use in industry and currently we are investigating the potential for silage production. Reducing sugar is a well established feedstock for various fermentation processes and the spent cellulose has good potential as the bulk component in poultry feed.

As teacher to 27 Masters and PhD's students (up till 2013) from Indonesia, Yamen, Iraq, Jordan, Sudan, Iran, Libya and of course Malaysia. All graduated in the field of Fermentation Technology. Field of research includes production of industrially important biotechnological products such as enzymes, biofuels, biosurfactant, biopolymer and PUFA from fermentation of bacteria and fungi. Special considerations are given to industry and community engagements. Currently, in year 2012-2015, emphasis in the application of Effective Microbes in rice production (via SRI approach) and in the production of biofuels for community empowerment. New interest is in Halal-Toiyeb foods with emphasis on the Toiyeb aspects.

Approach to education centred on the development of man aware of existence of indigenous knowledge with Al-Quran and Hadith as source references. The central idea that all organisms (makhluk) are in equilibrium (al-Mizan) in a specialized environs colours much of Prof Wan Mohtar's thoughts and explanation of existence within the Islamic Cosmology. Wallahualam.

## Current and past appointments

- Former Chairman of UNIKEB ALK (12 consecutive years)
- Former Deputy Chairman JPAN Selangor
- Deputy Chairman Kariah Masjid Sungai Merab Cooperative KOMAS
- Council Member of KOBANGI
- Deputy Chairman Cooperative FICCOP
- Former UKM Professor (Biotech Industry)
- Founding Members of Malaysian Association of Research Scientist MARS
- Former Chairman of Bioscience and Biotechnology Learning Center, FST, UKM.
- Council Member of Koperasi Pembiayaan Syariah Angkasa Berhad (KOPSYA)