

CURRICULUM VITAE

Personal Details		
Full Name	Mohd Zulkhairi MOHD YUSOFF	Title: Dr.
Designation	Senior Lecturer	

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Scientific experience and Specialisation)				
Organization	Position	Start Date	End Date	Expertise
Penn State University USA	Research Scholar	January 2013	March 2013	Microarray
Institute of Urban Environment China	Research Scholar	January 2012	March 2012	Microbial fuel cells
Massey University New Zealand	Research Scholar	May 2012	July 2012	Algae cultivation

Honours and Awards				
Name of awards	Title	Award Authority	Award Type	Year
Sasakawa Scientific Research Grant	Identification and Determination of Functional Prominent Genes Related to Escherichia coli for Hydrogen Production.	The Japan Science Society	International	2012

Grant awarded	
Role	Name of Project
Project leader	Elucidation of Uncharacterized Pseudogene Ydfw, as a Functional Protein in Hydrogen Metabolism

Member	Research Study on The Effectiveness of Biofertilizer Pellets for Landscape Plant
Member	Promotion of Green Economy with Palm Oil Industry for Biodiversity Conservation in Malaysia
Sub-project leader	Color Removal of Textile Wastewater Final Discharge Using Biochar Activated Carbon from Biomass.
Project leader	Identification and Determination of Functional Prominent Genes Related to Escherichia coli for Hydrogen Production.

List of publications	
Journal	<ol style="list-style-type: none"> 1. Akita H, Kimura Z-i, Mohd Yusoff MZ, Nakashima N, Hoshino T (2016) Draft Genome Sequence of Burkholderia sp. Strain CCA53, Isolated from Leaf Soil Genome Announcements 4:e00630-00616 doi:10.1128/genomeA.00630-16 2. Akita H, Kimura Z-i, Mohd Yusoff MZ, Nakashima N, Hoshino T (2016) Isolation of <i>Pseudomonas</i> sp. Strain CCA1 from Leaf Soil and Preliminary Characterization Its Ligninolytic Activity JSM Biotechnology & Biomedical Engineering 3:2-4 3. Akita, H., Kimura, Z., Mohd Yusoff, M.Z., Nakashima, N., and Hoshino, T. (2016) Isolation and characterization of Burkholderia sp. strain CCA53 exhibiting ligninolytic potential, SpringerPlus 5, 596. 4. Ibrahim, M., Yusof, N., Mohd Yusoff, M.Z., and Hassan, M. A. (2015) Enrichment of anaerobic ammonium oxidation (anammox) bacteria for short start-up of the anammox process: a review, Desalination and Water Treatment, 1-21. 5. Nguyen, M. T., Maeda, T., Mohd Yusoff, M.Z., and Ogawa, H. I. (2014) Effect of azithromycin on enhancement of methane production from waste activated sludge, J Ind Microbiol Biotechnol 41, 1051-1059. 6. Sanchez-Torres, V., Mohd Yusoff, M.Z., Nakano, C., Maeda, T., Ogawa, H. I., and Wood, T. K. (2013) Influence of Escherichia coli hydrogenases on hydrogen fermentation from glycerol, Int J Hydrogen Energ 38, 3905-3912. 7. Mohd Yusoff, M.Z., Hu, A., Feng, C., Maeda, T., Shirai, Y., Hassan, M. A., and Yu, C.-P. (2013) Influence of pretreated activated sludge for electricity generation in microbial fuel cell application, Bioresource Technology 145, 90-96. 8. Mohd Yusoff, M.Z., Hashiguchi, Y., Maeda, T., and Wood, T. K. (2013) Four products from Escherichia coli pseudogenes increase hydrogen production, Biochemical and Biophysical Research Communications 439, 576-579.

	<p>9. Mohd Yusoff, M.Z., Maeda, T., Sanchez-Torres, V., Ogawa, H. I., Shirai, Y., Hassan, M. A., and Wood, T. K. (2012) Uncharacterized Escherichia coli proteins YdjA and YhjY are related to biohydrogen production, <i>Int J Hydrogen Energ</i> 37, 17778-17787.</p> <p>10. Mohd Yasin, N. H., Rahman, N. A. A., Man, H. C., Mohd Yusoff, M.Z., and Hassan, M. A. (2011) Microbial characterization of hydrogen-producing bacteria in fermented food waste at different pH values, <i>Int J Hydrogen Energ</i> 36, 9571-9580.</p> <p>11. Mohd Yusoff, M.Z., Nor`Aini, A. R., Abd-Aziz, S., Chong, M. L., Hassan, M. A., and Shirai, Y. (2010) The Effect of Hydraulic Retention Time and Volatile Fatty Acids on Biohydrogen Production from Palm Oil Mill Effluent under Non-Sterile Condition, <i>Australian Journal of Basic and Applied Sciences</i> 4, 577-587.</p> <p>12. Sulaiman, A., Tabatabaei, M., Mohd Yusoff, M.Z., Ibrahim, M. F., Hassan, M. A., and Shirai, Y. (2010) Accelerated Start-up of a Semi-commercial Digester Tank Treating Palm Oil Mill Effluent with Sludge Seeding for Methane Production, <i>World Applied Sciences Journal</i> 8, 247-258.</p> <p>13. Baharuddin, A. S., Lim, S. H., Mohd Yusoff, M.Z., Nor'Aini, A. R., Md Shah, U. K., Hassan, M. A., Wakisaka, M., Sakai, K., and Yoshihito, S. (2010) Effects of palm oil mill effluent (POME) anaerobic sludge from 500 m³ of closed anaerobic methane digested tank on pressed-shredded empty fruit bunch (EFB) composting process, <i>Journal of Biotechnology</i> 9, 2427-2436.</p> <p>14. Rasdi, Z., Nor`Aini, A. R., Abd-Aziz, S., Phang, L.-Y., Mohd Yusoff, M.Z., Chong, M. L., and Hassan, M. A. (2009) Statistical Optimization of Biohydrogen Production from Palm Oil Mill Effluent by Natural Microflora <i>The Open Biotechnology Journal</i> 3, 79-86.</p> <p>15. Mohd Yusoff, M.Z., Hassan, M. A., Abd-Aziz, S., and Nor`Aini, A. R. (2009) Start-Up of Biohydrogen Production from Palm Oil Mill Effluent under Non-Sterile Condition in 50 L Continuous Stirred Tank Reactor, <i>International Journal of Agricultural Research</i> 4, 163-168.</p>
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Past Research Project)		
No.	Project Title	Role
1.	Elucidation of uncharacterized pseudogene ydfW, as a functional protein in hydrogen metabolism	Project leader
2.	Color removal of textile wastewater final discharge using Biochar activated carbon from biomass	Member
3.	Improvement of biocompost and biofertilizer productivity using oil palm biomass, anaerobic POME sludge with addition of biochar and determination of microbial consortium.	Member

Teaching experience		
Code	Course	Class size
BTC3401	Waste Management and Utilization	>50 students
BTC4901	Industrial Training	>50 students
BTC4404	Wastewater Treatment Technology	<50 students
BTC4402	Environmental Biotechnology	<50 students

Supervision				
	Name of Student	Type of Supervision	Level	Title of Research Project
1.	Nurhajirah binti Mohamed Biran	Main Supervisor	Masters with thesis	Enhancement Of Polyhydroxyalkanoates Production From Escherichia Coli Through Molecular Biotechnology Approach
2.	Muhammad Azman bin Zakaria	Main Supervisor	Masters with thesis	Escherichia Coli Pseudogenes Related to Hydrogen Production
3.	Marahaini binti Md Mokhtar	Main Supervisor	Masters with thesis	Elucidation of Uncharacterized ydfw Pseudogene, as a Functional Protein During Hydrogen Metabolism
4.	Yuya Hashiguchi	Co-Supervisor	PhD with thesis	Understanding Unexplained POME Wastewater Treatment to Approach a Better Way
5.	Mohd Hafif bin Samsudin	Co-Supervisor	Masters with thesis	Pilot Scale Co-Composting of Kitchen And Garden Wastes with Addition of Biochar
6.	Mohd Faiz bin Mat Saad	Co-Supervisor	Masters with thesis	Enhancement of Biohythane Production From C0-Digestion of Food Waste and Chicken Manure
7.	Azam Fikri bin Taifor	Co-Supervisor	Masters with thesis	Utilization of Palm Oil Mill Effluent for Biohydrogen Production.
8.	Murni Binti Zabar	Main Supervisor	Bachelor (Graduated)	Biohydrogen Production from Biodiesel Glycerol Waste of Used Cooking Oil By Engineered Escherichia Coli Strains.
9.	Amar bin Ab Malik	Main Supervisor	Bachelor (Graduated)	Biohydrogen Production From Palm Oil Mill Effluent Using Engineered Escherichia Coli Strain

Consultancy			
	Company	Position	Title of Research Project
1.	Microclear Sdn Bhd.	Subject Matter Expert	Color removal of textile wastewater final discharge using Biochar activated carbon

Recognition			
	Name of Academic Program	Position	Name of Journal /Organization/Institution
1.	Evolution of methane oxidizer bacteria in rice soil in tropical region	Journal Reviewer	Journal of Basic Microbiology
2.	Enhancement of sludge reduction and methane production by removing extracellular polymeric substances from waste activated sludge	Journal Reviewer	Chemosphere
3.	Production and Characterization of Biodiesel Using Non Edible Castor Oil by Immobilized Lipase from Bacillus aureus	Journal Reviewer	BioMed Research International
4.	Simultaneous Saccharification and Fermentation of Cassava waste to Produce Ethanol	Journal Reviewer	Biofuel Research Journal
5.	A Comparative Study of Almond Biodiesel-Diesel Blends for Diesel Engine in terms of Performance and Emissions	Journal Reviewer	BioMed Research International
6.	The simultaneous removal of ammonium and manganese from water by iron manganese cooxide filtee film: The role of chemical catalytic oxidation for ammonium removal	Journal Reviewer	Chemical Engineering Journal
7.	Phytoremediation of Palm Oil Mill Final Discharge (POMFD) Wastewater Using Selected Aquatic Macrophytes	Journal Reviewer	Journal of Oil Palm Research
8.	Enrichment of Anammox biomass from different seeding sludge: process strategy and microbial diversity	Journal Reviewer	Water, Air, & Soil Pollution

Research interest
Environmental biotechnology, microbial identification, bioprocess technology, bioenergy production, molecular biotechnology, microbial fuel cell