UNIVERSITI TEKNOLOGI MARA

Credentials (IOS Researcher)

NOOR HANA HUSSAIN

BSc. (Hons.) Biological Sciences (University of Essex, U.K)
PhD Microbiology, (University College London, U.K)

Current roles and responsibilities:

1. Researcher, Centre of Chemical Synthesis & Polymer Technology, Institute of Science
2. Associate Professor, Faculty of Applied Sciences

External Contributions:

1. President of the Malaysian Society for Molecular Biology and Biotechnology, 2011 - 2015
2. Council member of the Malaysian Society for Molecular Biology and Biotechnology, 2007 - 2011
3. Secretary of the Malaysian Society for Molecular Biology and Biotechnology, 2003 - 2007
4. Technical Committee member for the National Committee for the Control of Citrus Greening Ministry of Agriculture, 2002 - 2005

Selected Journals & Publications

- Synthesis of 3-methyl-5-nitrobenzyl β, β-diketoester as a derivative of pachydermin, a tetramic acid from Chamonixia pachydermis, Journal of Sustainability Science and Management, 2017, 12(2), pp. 1-7
- "Improving Mathematical Model in Biodegradation of PAHs Contaminated Soil Using Gram-Positive Bacteria", Soil and Sediment Contamination: An International Journal, Vol. 25, 2016
- "Inducible Acid Tolerance Response in *Shigella sonnei* and *Shigella flexneri*", Research Journal of Microbiology, Vol. 10 (7), 320-328, 2015
- "Removal of Silica Bodies on Oil Palm Empty Fruit Bunch Surfaces and Application for Biogas Production", Advanced Materials Research, Vol. 709, 895-899, 2013
- "Zero Valent Iron (ZVI) Particles for the Degradation of Polycyclic Aromatic Hydrocarbons (PAHs) in Contaminated Soil", Avanced Materials Research, Vol. 587, 111-115, 2012
- "Biodegradation of High-Molecular-Weight Polycyclic Aromatic Hydrocarbon in Contaminated Sand by *Sphingobacterium spiritovorum* and *Corynebacterium urealyticum*", International Journal of Engineering and Physical Sciences, Vol. 6, 69-376, 2012

Research Grant

- Synthesis And Theoretical Study of Newly Designed Polynuclear Heterocyclic Azomethine Complexes Derived From Benzyldiamine as Bioorganic Agents – **RM 90 000.00**
- Genetic Relationship among *Enterobacter cloacae* Strains from Clinical and Plant Origins – **RM 106 780.00**
- Performance of Hybrid Bioremediation Technology on Removal of Polycyclic Aromatic Hydrocarbon from Industrial Effluents – **RM 1.0193 mil**
- Microbe-Silica Interaction Derivative Biomineralisation Model – **RM 192 000.00**
- Bacteriophages as Biocontrol for Papaya Dieback Disease – **RM 128 000.00**
- Characterization and Diversity of Metallo β-Lactamase Producers Among Multidrug Resistant *Acinetobacter sp* – **RM 78 700.00**
- Investigation of Proteins Involved in Acid Stress Response in the Enteric Pathogen *Shigella sp* – **RM 97 000.00**
- Chemical Studies towards the Total Synthesis of Dysidamide C: A Neurotoxin Isolated from Marine Sponge *Lamellodysideae herbacea* – **RM 111 000.00**

Consultancy

- Ex-officio of Malaysian Society for Molecular Biology & Biotechnology (MSMBB)

Articles & Books

- ***BOOK*** – "Autogenous Healing Mortar Made of Alginate-encapsulated *Geobacillus stearothermophilus*: Proceedings of the International Civil and Infrastructure (InCIEC 2015)", Raden Maizatul Aimi Mohd Azam, Khalilah Abdul Khalil, Noor Hana Hussain & Hamidah Mohd Saman, Springer Science+Business Media Singapore, ISBN 978-981-10-0154-3, 2016
- ***BOOK*** – "Enhancement of Thermophilic (*Geobacillus stearothermophilus*) Cement-Sand Mortar Properties: Regional Conference on Science, Technology and Social Sciences (RCSTSS 2014) Science and Technology", Maizatul Aimi Mohd Azam, Hamidah Mohd Saman, Kartini Kamaruddin, Noor Hana Hussain, Springer Science+Business Media Singapore, ISBN: 978-981-10-0532-9, 2016