

RESUME

MOHD ZULKHAIRI BIN AZID

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 Mohd Zulkhairi Azid  Mohd Zulkhairi Azid
Agrobiodiversity and Environmental Research Centre, Malaysian Agriculture and Research
Institute (MARDI), Serdang Selangor, MALAYSIA

PROFESSIONAL EDUCATION

1. Master of Science - Natural Products Chemistry, Universiti Putra Malaysia - 2009-2012
Thesis: Isolation and Bioactivity of Chemical Constituents from *Zingiber cassumunar* Roxb. and *Aglaia oligophylla* Miq.
2. Bachelor of Science (Hons) - Industrial Chemistry, Universiti Putra Malaysia - 2005-2008 (2nd Class Upper)
3. Sijil Pelajaran Malaysia, Sekolah Menengah Kebangsaan Saint Anthony, Teluk Intan - 2003

EMPLOYMENT HISTORY

1. Agrobiodiversity and Environmental Research Centre, Malaysian Agriculture and Research Institute (MARDI), Persiaran UPM-MARDI, 43400 Serdang, Selangor Mar 2014 - current
Position: Senior Research Officer
Description: To plan and lead research activities for the institute, to publish articles in various journals/proceedings, to complete task given by the top management
1. Stenta Films (M) Sdn Bhd, Lot No 10, Jalan P/ 10, Kawasan Perusahaan Seksyen 10, Bandar Baru Bangi, Selangor Oct-Dec 2013
Position: R & D Engineer
Description: To improve current products on films packaging to meet customer requisition, to develop new products in order to enhance the operation, reliability and efficiency of company
2. National Wages Consultative Council, Ministry of Human Resources, Putrajaya Jan-Sep 2013
Position: Administrative Support (PSH) N41
Description: Operational task on the implementation of Minimum Wages Policy 2013, received and analysis applications for deferment of implementation of Minimum Wages

EXPERTISE

Instrument / Analysis	Proficiency (Beginner-Intermediate-Advance)
Liquid Chromatography Mass Spectrometry -QTOF (LCMS QTOF)	Intermediate
High Performance Liquid Chromatography (HPLC)	Intermediate
Gas Chromatography Mass Spectrometry (GC-MS)	Intermediate
Extraction of crude extracts (Soxhlet, microwave, conventional)	Advance
Analysis of essential oils (GC-MS,GC-FID, Kovat's Indices)	Advance

Chem Draw Ultra	Advance
Delta NMR Software Spectrum Analysis	Advance
Microsoft Office (Word/Excel/Power Point)	Advance
JEOL Nuclear Magnetic Resonance (NMR) 400 & 500 MHz	Intermediate
Bioactivity (Antioxidant, Cytotoxic)	Intermediate
Fourier Transform Infrared Spectroscopy (FT-IR)	Beginner
Melt Flow Indexer (MFI)	Beginner
Rheometer	Beginner

RESEARCH BACKGROUND

Year	Research	Position
2016-2020	11 TH Malaysian Plan (RMK-11) : Bioprospection and domestication of selection traditional vegetable for high yield and commercialization.	Project members
2016-2020	11 TH Malaysian Plan (RMK-11) : Stingless bee as Polling Agent on Selected Premium Fruity	Project members
2016	Development of Malaysian Herbs Monograph	Project members
2016	Collaboration research between MARDI and Penawar Farm: The Effectiveness of Penawar Farm Nano fertilizer in increasing paddy production under pot experiment	Project members
2011-2015	10 TH Malaysian Plan (RMK-11) : Metabolites from plants for control of disease and agricultural pests	Project members
2011-2015	10 TH Malaysian Plan (RMK-11): Functional chemical compounds from traditional vegetable sources, ulam, new crops and herbs	Project members

SEMINARS/ CONFERENCES/ WORKSHOPS

Year	Seminars/ Conferences / Workshops	Achievement
2019	Malaysia Society and Plant Physiology Conference (MSPPC 2019), 27 – 29 August 2019, Kota Kinabalu Sabah	Presenter
2019	Agriculture Innovation Challenge (AIC), International Stingless Bee Conference and Workshop (ISCBW 2019), 31 July – 2 August 2019, Kota Kinabalu , Sabah	Silver Award
2019	Souh East Asia Vegetable Symposium (SEAVEG 2019), 9 – 11 July 2019, Hatten Hotel , Melaka	Presenter
2018	International Scientific Conference of Indigenous Crops, 16 – 17 October 2018, Sarawak	Presenter
2017	International Stingless Bees Conference, 18 – 20 July 2017, Terengganu	Bronze Award
2016	MARDI Science Technology and Innovation Exhibition, 10-13 October 2016, MAEPS Serdang	Gold Award
2016	MARDI Science Technology and Innovation Exhibition, 10-13 October 2016, MAEPS Serdang	Bronze Award
2016	Southeast Asian Vegetable Symposium 2016 (SEAVAGE 2016), 6-8 September 2016, Putrajaya	Presenter
2016	National Agrobiodiversity Conference (NAC 2016), 4-6 October 2016, Terengganu	Presenter
2015	International Conference for Young Chemists 2015 (ICYC2015), 5-7 August 2015	Presenter

2015	Workshop On Basic Introduction To Metabolomics, 27-28 May 2015, UPM	Participant
2015	Enhancement of Capacity Building for Malaysian Herbal Monograph team in Chemical Testing aspects, NPRA, Petaling Jaya, 12 May 2015	Participant
2014	Agrobiodiversity and Agroenvironment Symposium (A-BES 2014), 15-18 September 2014	Presenter
2012	Pameran Reka Cipta & Inovasi, UPM	Bronze Medal
2012	Seminar Sebatian Semulajadi, Kuching, Sarawak	Oral Presenter
2011	LC-MS Worskhop, Drug Discovery Laboratory, Cancer Research Initiatives Foundation (CARIF), Subang Jaya, Selangor	Participant
2011	Antioxidant Methodologies Workshop, Institute of Bioscience, UPM	Participant
2010	International Conference on Natural Products, Penang	Poster Presenter
2010	16 th Malaysian Chemical Congress, PWTC, Kuala Lumpur	Poster Presenter
2010	Pameran Reka Cipta & Inovasi, UPM	Bronze Medal
2010	UK-Malaysia Symposium on Drug Discovery and Development for Cancer	Poster Presenter
2009	Bandung International Conference on Medicinal Chemistry. Institut Teknologi Bandung (ITB), Bandung, Indonesia	Oral Presenter

PUBLICATION

Year	Research Article
2019	Mohd Zulkhairi, A., Nur Syafini, G and Aimi Athirah, A. 2019. Unearthing the Antioxidant Potential of Traditional Eggplants. <i>Agromedia Special Issues</i> , Bil. 50, ISSN 1511-094X, 26-27
2019	Mohd Zulkhairi, A., Rosliza, J., Mirfat, H.A.H. dan Erny Sabrina, M.N.2019. Proses Penulenan Propolis Lebah Kelulut. <i>Buletin Teknologi MARDI</i> , 15 ; 65-70
2018	Buku Agrobiodiversiti di Malaysia, Agrobiodiversiti untuk Pembangunan Sosioekonomi Negara, Editor ; Nor Asiah, I., Mohd Zulkhairi , A., Nurin Izzati, M.Z. dan Aminah, M. 2018. ISBN 978-967-936-657-0, Penerbit MARDI
2018	Mohd Zulkhairi, A. 2018. Tokotrienol - Vitamin E Terhebat, <i>Agromedia</i> , Bil 48, ISSN : 1511-094X, MS : 5
2018	Mohd Zulkhairi, A., Razali M, Umikalsum, M.B., Nur Syafini, G., Siti Aisyah, M.N., Nur Daliana , Y , Rosali, H and Noralienatul Azlia, A.A. 2018. Variation of Phytochemical Activities and Chemical Profiling of Terung Rapuh at Different Maturity Stages, Abstract Book of International Scientific Conference on Indigeneous Crop (ISCIC 2018), 16-17 October 2018, Kuching, Sarawak, pg : 47
2018	Mohd Zulkhairi, A., Siti Aisyah, M. N., Razali, M., Mohd Nor Faizal, G. and Erny Sabrina, M. N.2018. Penentuan sebatian antinutrisi (Oksalat) daripada kultivar keladi di Malaysia menggunakan UHPLC, Buku Agrobiodiversiti di Malaysia III. ISBN 978-967-936-657-0, muka surat 151-156
2018	Nurul Ain, A.T., Faridah, S., Nor Azah, Y., Shahrul Ainliah A.A., Mohd Zulkhairi, A., Razali, M. and Yusran. S. 2018. Enhancing a clenbuterol immunosensor based on poly(3,4-ethylenedioxythiophene)/multi-walled carbon nanotube performance using response surface methodology. <i>RSC Advances</i> , 8 : 15522-15532.
2017	Mohd Zulkhairi, A. dan Zulhairil, A. 2017.Kesedaran pemeliharaan hutan paya bakau oleh peserta NAC 2016. <i>Agromedia</i> , 47: 25-27
2017	Mohd Zulkhairi, A., Mohd Aspollah, S., Ee, Gwendoline Cheng Lian, Ahmad

- Bustamam A. 2017. Phytochemicals and Cytotoxic studies of *Zingiber cassumunar* ROXB., J. Trop. Agri and Fd. Sc., 45 (2) ; 187-197
- 2017 Mohd Zulhairi, A., Erny Sabrina, M.N., Noralienatul Azlia, A.A., Nur Daliana, Y dan Razali, M. 2017. Nutritional Information and Antioxidant activity of madu kelulut from different localities in Sarawak, Program Book International Stingless Bees Conference and Workshop, 18-20 July 2017, Terengganu
- 2016 Mohd Zulhairi, A. 2016. Oksalat dalam sumber makanan harian, *Agromedia* Edisi Khas NAC, ISSN : 1551-094X
- 2016 Mohd Zulhairi, A., Razali, M., Erny Sabrina, M.N. and Siti Aisyah M.N. 2016. UHPLC quantification of oxalate from various cultivars of taro (*Colocasia esculenta*). Proceedings Southeast Asia Vegetable Symposium 2016 (Seaveg 2016), 6-8 September 2016, Putrajaya Marriot Hotel, Malaysia, pp: 49
- 2014 Mohd Zulhairi, A., Mohd Aspollah, S., Ng, R.C. and Nor Azah, Ali. Comparison between Conventional Hydrodistillation and Microwave assisted Hydrodistillation methods towards extraction of essential oils from *Murraya koenigii* (Curry leaves), *Res. Jour. Chem Enviro.*, 18(10), 17-21
- 2013 A phenylbutenoid Dimer, exhibits apoptogenic properties in t-Acute Lymphoblastic Leukemia cells via induction of p53-Independent Mitochondrial signaling pathway, Hindawi Publishing Corporation.
- 2010 Cytotoxic Activity of *Aglaia oligophylla* isolates towards Leukemic Cancer cell lines (CEMss), Malaysian Journal Pharmaceutical Sciences (Supplementary 1).
- 2009 Chemical Constituents from Rhizomes of *Zingiber cassumunar* (Zingiberaceae), *Ultra Science*, International Journal of Physical Sciences.
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