

ANIL AZURA BT. JALALUDIN



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ACADEMIC QUALIFICATION

- Doctor of Philosophy in Chemistry
- Master of Biotechnology
- Bachelor of Science in Biochemistry & Biotechnology

TEACHING RESPONSIBILITIES

ADVANCE ANALYTICAL METHODS FOR HALAL HARAM PRODUCTS	2019/2020
BIOPROCESS DESIGN AND OPTIMISATION	2019/2020
BIOPROCESS I	2004/2005 2005/2006 2006/2007 2013/2014 2014/2015 2015/2016
BIOPROCESS II	2003/2004
BIOTECHNOLOGY, LAW AND ETHICS	2019/2020
COMMERCIALISATION & CURRENT ISSUES IN BIOTECH	2005/2006
ENZYMولوجY	2004/2005 2005/2006 2012/2013 2013/2014 2014/2015 2015/2016 2016/2017 2017/2018 2018/2019 2019/2020
FERMENTATION TECHNOLOGY	2014/2015 2015/2016 2016/2017 2017/2018 2018/2019 2019/2020
INSTRUMENTATION AND TECHNIQUES IN PLANT SCIENCES I	2016/2017 2017/2018
INSTRUMENTATION IN BIOTECHNOLOGY RESEARCH	2013/2014 2015/2016 2016/2017 2017/2018 2018/2019 2019/2020
LABORATORY AND FIELD TECHNIQUES IN PLANT SCIENCES	2016/2017 2017/2018
PRINCIPLES OF BIOCHEMISTRY	2013/2014 2014/2015 2015/2016 2016/2017 2017/2018 2018/2019 2019/2020

RESEARCH PROJECTS

In Progress

- 2016 - Present** VCO blend, VCO soap and Coconut Water Antibacterial Properties Toward Inhibition of Infectious Oral Microbiota and Dental Caries Lesion
- 2016 - Present** Analysis on the Inhibition of Periodontal Pathogens and its Virulence Genes Expression by Virgin Coconut Oil using Quantitative Real-Time Reverse Transcription-PCR(qRT-PCR)
- 2016 - Present** Reconstructing modern microbiology based on the Islamic worldview
- 2015 - Present** Evaluation of Mechanism of Action of Medium-chain fatty Acid from Virgin Coconut Oil and its Potential Role in Arresting Caries Lesion and Promoting Remineralisation on Dentine and Enamel Tooth Surface

Completed

- 2016 - 2019** Analysis on the Inhibition of Periodontal Pathogens and its Virulence Genes Expression by Virgin Coconut Oil using Quantitative Real-Time Reverse Transcription-PCR(qRT-PCR)
- 2015 - 2018** A novel study of virgin coconut oil as an inhibitor against oral microbiota and its remineralisation potential on enamel tooth surface
- 2014 - 2017** Medicinal Benefits Of Phyllanthus Niruri To Reduce The Urologic Complications Of Diabetes
- 2014 - 2018** Microbial Diversity of Pekan Peat Swamp Forest Soil and their Functional Potential Through Cultivation and Metagenomic Approach

PUBLICATIONS

Article

- 2017** [Evaluation Of calcium and phosphorus content in virgin coconut oil, coconut milk and coconut water using ICPMS- assessment Of remineralization potential for tooth enamel.](#) The International Medical Journal Malaysia , 16 (Supplementary Issue No 2) pp.1-1
- 2017** [The antimicrobial effect of virgin coconut oil on oral pathogen.](#) The International Medical Journal Malaysia , 16 (Supplementary issue no 2)

Conference or Workshop Item

- 2019** [Enamel subsurface remineralization potential of virgin coconut oil, coconut milk and coconut water.](#) In: **Conference on BioMedical and Advanced Materials (Bio-CAM 2017)**
- 2019** [Plant-based milk in arresting caries.](#) In: **Conference on BioMedical and Advanced Materials (Bio-CAM 2017)**
- 2018** [Virgin coconut oil and its antimicrobial properties against pathogenic microorganisms: a review.](#) In: **International Dental Conference of Sumatera Utara 2017 (IDCSU 2017)**

2015 [Screening and comparison of the antidiabetic properties of Phyllanthus niruri in alloxan-induced rats.](#) In: **International Conference on Advancement in Science and Technology (iCAST 2015) - 'Frontiers in Biotechnology'**

Book

Book Section

2006 [Biodiversity and marine biotechnology: a new era for the development of biotechnology industry.](#) In: **Management and status of resources in protected areas of Peninsular Malaysia, series 1** Department of Wildlife and National Parks Peninsular Malaysia . ISBN 9834301006 , pp.67-74