

AFZAN BINTI MAT YUSOF



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KELAYAKAN AKADEMIK

- Ph.D in Molecular Parasitology
- Bachelor of Biomedical Sciences

TANGGUNGJAWAB MENGAJAR

ANATOMY, PHYSIOLOGY AND BIOCHEMISTRY I	2016/2017 2017/2018 2018/2019 2019/2020
ANATOMY,PHYSIOLOGY AND BIOCHEMISTRY II	2016/2017 2017/2018 2018/2019 2019/2020
ENVIRONMENTAL MICROBIOLOGY	2013/2014 2014/2015 2015/2016 2016/2017
FINAL YEAR RESEARCH PROJECT 1	2016/2017
FINAL YEAR RESEARCH PROJECT I	2019/2020
FOUNDATION PATHOLOGY	2013/2014 2014/2015
GENERAL PATHOLOGY AND INFECTIOUS AGENTS	2017/2018 2018/2019
INNOVATION IN NURSING	2018/2019 2019/2020
INTEGRATED NURSING SCIENCES (FINAL PROFESSIONAL EXAMINATION)	2017/2018
INTRODUCTION TO BIOMEDICAL LABORATORY SCIENCES	2013/2014 2014/2015 2015/2016
MEDICAL MICROBIOLOGY	2012/2013 2013/2014 2014/2015 2015/2016
MEDICAL PARASITOLOGY	2014/2015 2015/2016 2016/2017
MICROBIOLOGY & IMMUNOLOGY	2012/2013 2013/2014 2014/2015 2015/2016 2016/2017
PARASITOLOGY & ENTOMOLOGY	2012/2013
PATHOLOGY	2013/2014
PATHOLOGY & PHARMACOLOGY	2014/2015
PATHOLOGY, HISTOPATHOLOGY & CYTOLOGY	2013/2014 2014/2015
PHARMACOLOGY	2016/2017 2017/2018 2018/2019

PRINCIPLES OF MICROBIOLOGY	2012/2013 2013/2014 2014/2015 2015/2016
PUBLIC HEALTH ENTOMOLOGY	2015/2016
RESEARCH PROJECT FINAL	2017/2018 2018/2019
RESEARCH PROJECT PROPOSAL	2017/2018 2018/2019

PROJEK PENYELIDIKAN

In Progress

2019 - Present Formulating a Model for Sustainable Menstrual Hygiene practices among Bottom-40 Urban Young Women through Maternal involvement.

2019 - Present Development of Silage Based on Napier Grass Enriched with Rice Straw and Leucaena Leucocephala to Increase Meat Production in Beef Cattle

2018 - Present Probiotic Treatment on Rat Project

2018 - Present Genomic determinants of specific virulence gene(s) of Cryptosporidium and its role in the pathogenesis of cryptosporidiosis and low milk production in goats

2018 - Present In vitro effect of Tamarindus indica as a potential anti-larvae of screwworm maggots obtained from goats with myiasis

2018 - Present Knowledge Transfer to Small Holder Goat Farmers on Rotational Grazing to Reduce Parasitic Infections

2016 - Present The development of in vitro human fibroblast feeder line

2015 - Present Genomic Determinants Of Specific Virulent Gene Of Blastocystis Amoeboid Stage As A Marker In Zoonotic Potential, Biological And Host-Parasite Relationships

Unknown - Present Knowledge Transfer to Small Holder Goat Farmers on Rotational Grazing to Reduce Parasitic Infections

Completed

2018 - 2019 Knowledge Transfer to Small Holder Goat Farmers on Rotational Grazing to Reduce Parasitic Infections

2017 - 2017 Transfer of Knowledge to Goat Farmers on Improving and Formulating Proper Feeding using Local Crops: Towards Sustainable Health, Milk and Meat Production

2016 - 2018 Fertility Enhancing Effect of Aquilaria malaccensis Leave Extrct in Sprague Dawley Rats Prior Exposure to Cyclophosphamide

2016 - 2018 Phytochemical Analysis and Toxicity Study of Aquilaria malaccensis Leaves Extract in Sprague Dawley Rats

2016 - 2018 Protective Effects of Aquilaria malaccensis Leaves Extract against Sperm DNA Damage on Sprague Dawley Rats due to Cyclophosphamide Exposure

- 2016 - 2017** The development of in vitro human fibroblast feeder line
- 2015 - 2018** Evaluation of in vitro antihelmintic effect of crude leaves extracts of Piper betle (sireh) on gastrointestinal helminths obtained from goats
- 2015 - 2019** Genomic Determinants Of Specific Virulent Gene Of Blastocystis Amoeboid Stage As A Marker In Zoonotic Potential, Biological And Host-Parasite Relationships
- 2014 - 2018** Identification of Specific Mirna Expression of Cryptosporidium in HCT-8 Cell and its Pathway as Fundamental Role in Pathogenesis Mechanisms
- 2013 - 2016** Phenotypic and Genotypic Characteristics of Waterborne Parasites (Giardia, Entamoeba, Blastocystis and Cryptosporidium) in Urban and Peripheral Communities of Kuantan, Pahang, Malaysia

PENERBITAN

Article

- 2019** [Identification of gastrointestinal helminths infection from goats isolated in a farm in Kuantan, Pahang, Malaysia.](#) Jurnal Teknologi , 81 (1) pp.125-131
- 2019** [The alarming community concern on household insecticide exposure and usage.](#) The International Medical Journal of Malaysia , 18 (2) pp.133-138
- 2019** [Knowledge on involvement during pregnancy among fathers in respective areas in Kuantan, Malaysia.](#) Enfermería Clínica , 29 (Supplement 2) pp.572-578
- 2019** [Occurrence of gastrointestinal parasites from Friesian cattle in Pekan.](#) Malaysian Journal of Microscopy , 15 (1) pp.103-110
- 2019** [Patient satisfaction and cost analysis of analgesia management for post-operative procedures in HTAA : PCA vs. conventional method.](#) Malaysian Journal of Public Health Medicine , 19 (2) pp.78-95
- 2019** [Role of l-glutamine in the in-vitro growth of HCT-8 and HT-29 cell lines = Peranan l-glutamin dalam pertumbuhan sel HCT-8 dan HT-29 in-vitro.](#) Malaysian Journal of Analytical Sciences , 23 (4) pp.580-585
- 2019** [Chemical components of polymerase chain reaction in 18s rRNA for detection of Cryptosporidium from river water samples.](#) Malaysian Journal of Analytical Sciences , 23 (3) pp.401-406
- 2019** [Cryptosporidium-host Interaction alters regulation of oncomiRNAs and tumor suppressor miRNA expression.](#) Journal of Biological Sciences , 19 (4) pp.272-279
- 2019** [Identification of hyaluric acid synthesis 2 \(has2\) and gremlin 1 \(grem1\) gene expressions in human cumulus cells as a biomarker for oocyte quality..](#) Malaysian Journal of Biochemistry and Molecular Biology , 22 (2) pp.41-45
- 2018** [Immunofluorescent staining and mirna expression of HCT-8 and HT-29 cell lines upon cryptosporidium infection.](#) Malaysian Applied Biology , 47 (5) pp.101-112

- 2018** [Identification of beta human chorionic gonadotrophin \(bHCG\) expression in frozen cleavage embryo of in vitro fertilization \(IVF\) patients: An essential approach for better outcome towards human being inheritance in line with maqasid syari'ah concept.](#) International Medical Journal Malaysia , 17 (Special Issue 2) pp.165-170
- 2018** [Identification of VASA gene expression in in-vitro culture from non-obstructive azoospermia \(NOA\) testicular biopsy cells: A study to unlock knowledge of male infertility.](#) International Medical Journal Malaysia , 17 (Special Issue 2) pp.143-148
- 2018** [Identification of cockroaches as mechanical vector for parasitic infections and infestations in Kuantan, Malaysia.](#) Journal of Entomology , 15 (3) pp.143-148
- 2018** [Factors affecting treatment seeking patterns amongst public in three selected areas in Kuantan: discovery of perceptions \(dzan\) among community as thought in Islam.](#) International Medical Journal Malaysia , 17 (Special Issue 2) pp.171-176
- 2018** [Health seeking behavior of men's health disorders of among government servants in Kuantan: Prevalence study towards healthy ummah.](#) International Medical Journal Malaysia , 17 (Special Issue 2) pp.157-164
- 2018** [Review on the control of waterborne diseases - The Islamic approach.](#) International Medical Journal of Malaysia , 17 (Special Issue 2) pp.137-142
- 2018** [Signal peptide sequence analysis of selected protein sequences from Cryptosporidium parvum.](#) Trends in Bioinformatics , 11 (1) pp.33-43
- 2018** [First report of lice infestation among saanen goats in Kuantan, Malaysia.](#) Journal of Entomology , 15 (2) pp.62-68
- 2018** [The determination of Acanthamoeba spp. from air ventilation system samples from selected buildings in Kuantan.](#) International Journal of Care Scholars , 1 (1) pp.19-21
- 2018** [Cockroaches as potential mechanical vectors for mites infestation the first report in Kuantan.](#) International Journal of Zoological Research , 14 (2) pp.71-76
- 2018** [Seasonal prevalence of gastrointestinal parasitic infections in goats in a commercial farm Kuantan, Malaysia.](#) Asian Journal of Agriculture and Biology , 6 (4) pp.455-460
- 2018** [Spermatogonial stem cells protein marker identification from in vitro differentiation of nonobstructive azoospermia \(NOA\) testes biopsies cells: An approach in line with Maqasid Shariah to maintain the heredity..](#) The International Medical Journal Malaysia , 17 (Special Issue 2) pp.149-156
- 2017** [Review: In vitro study revealed sugar as anticancer constituent = İn vitro Çalışmalar Şekeri Bir Antikanser Bileşeni Olarak Gösteriyor; Literatür Derleme.](#) Journal of Biotechnology and Strategic Health Research , 1 (2) pp.39-44
- 2017** [Animal studies on male fertility enhancing properties of plants in Malaysia: A review of the past 16 years.](#) Journal of Biotechnology and Strategic Health Research (BSHR) , 1 (1) pp.17-24
- 2017** [The association of Cryptosporidium from three different points of Balok River and Kuantan River by using physico-chemical and heavy metal assessments.](#) Asian Pacific Journal of Tropical Disease , 7 (8) pp.449-454

- 2017** [A review of Cryptosporidium spp. infection in livestock.](#) Jurnal Teknologi , 79 (6) pp.99-109
- 2017** [First molecular characterization of Cryptosporidium from three different points of two main rivers in Kuantan, Malaysia using 18S rRNA gene nested PCR.](#) Asian Pacific Journal of Tropical Disease , 7 (9) pp.548-552
- 2017** [Prevalence, age-related and molecular of cryptosporidium from dairy cattle in five farms in Kuantan.](#) Malaysian Applied Biology , 46 (2) pp.21-27
- 2017** [Occurrence of intestinal parasitic contamination in selected consumed local raw vegetables and fruits in Kuantan, Pahang.](#) Tropical Life Sciences Research , 28 (1) pp.23-32
- 2017** [First molecular identification of Cryptosporidium by 18S rRNA in goats and association with farm management in Terengganu.](#) Asian Pacific Journal of Tropical Biomedicine , 7 (5) pp.385-388
- 2017** [Knowledge, attitude and practices of intestinal helminths and protozoa infection among parents of school children in peripheral school and urban school area in Kuantan, Pahang, Malaysia.](#) Journal of Biotechnology and Strategic Health Research , 1 (3) pp.75-82
- 2017** [Clay as a potential parasite cleanse in the light of Islamic perspective.](#) Revelation and Science , 7 (1) pp.6-14
- 2017** [Baccaurea angulata fruit juice reduces atherosclerotic lesions in diet-induced Hypercholesterolemic rabbits.](#) Lipids in Health and Disease , 16 pp.1-8
- 2016** [Prevalence of gastrointestinal nematodiasis and coccidiosis in goats from three selected farms in Terengganu, Malaysia.](#) Asian Pacific Journal of Tropical Biomedicine , 6 (9) pp.735-739
- 2016** [The identification of helminths and coccidia from goats in two farms in Kuala Terengganu, Malaysia.](#) Jurnal Teknologi , 78 (9) pp.9-12
- 2016** [Identification of Cryptosporidium from Dairy Cattle in Pahang, Malaysia.](#) Korean Journal of Parasitology , 54 (2) pp.197-200
- 2016** [Rearing systems related to gastrointestinal parasites in goats from selected area in Terengganu.](#) Jurnal Teknologi , 78 (10) pp.133-138
- 2015** [The occurrence Cryptosporidium Oocysts in selected rivers and its physical assessments in Kuantan, Pahang.](#) Journal of Applied Sciences Research , 11 (17) pp.19-25
- 2015** [Investigation on the difference expression of type IV collagen \$\alpha 1\(IV\)\$ - \$\alpha 6\(IV\)\$ chain mrna in normal fibroblast and in skin cell malignant melanoma.](#) Jurnal Teknologi , 77 (25) pp.141-145
- 2015** [Investigation on the difference expression of type IV collagen \$\alpha 1\(IV\)\$ - \$\alpha 6\(IV\)\$ chain mrna in normal fibroblast and in skin cell malignant melanoma.](#) Jurnal Teknologi , 77 (25) pp.141-145
- 2015** [Characterization of Collagen \(IV\) mRNA in Cell Lines of Breast Cancer.](#) Jurnal Teknologi , 77 (25) pp.133-136

- 2015 [The occurrence of cryptosporidium oocysts and physical assessment of selected lakes in Kuantan, Pahang.](#) Journal of Applied Sciences Research , 11 (17) pp.26-31
- 2015 [Effect on immune response and virus shedding in the chicken vaccinated against inactivated local strain of Newcastle disease virus genotype VII.](#) Jurnal Teknologi , 77 (25) pp.89-93
- 2015 [Sequence and phylogenetic analysis of Newcastle disease virus genotype VII isolated in Malaysia during 1999-2012.](#) Jurnal Teknologi , 77 (25) pp.159-164
- Conference or Workshop Item**
- 2018 [Usage of selective local crops for goat feeding regime to increase milk and meat yield.](#) In: **The 15th Symposium Malaysian Society of Applied Biology 2018 (MSAB 2018)**
- 2018 [Analysis of phosphorylation sites of protein kinases in Cryptosporidium.](#) In: **The 15th Symposium of Malaysian Society of Applied Biology 2018- Translating Applied Biology for Future Sustainability**
- 2018 [In silico sequence analysis, homology modeling and function annotation of putative subtilisin-like serine protease from Cryptosporidium parvum.](#) In: **3rd Advanced Medical & Dental Institute International Biohealth Sciences Conferences 2018**
- 2018 [Immunofluorescent staining and miRNA expression of HCT-8 AND HT-29 cell lines upon Cryptosporidium infection.](#) In: **The 15th Symposium of Malaysian Society of Applied Biology 2018- Translating Applied Biology for Future Sustainability**
- 2017 [The isolation and identification of Acanthamoeba from air ventilation system samples in selected buildings in Kuantan.](#) In: **8th Malaysian Symposium of Biomedical Science**
- 2016 [Cryptosporidium in dairy cattle from a commercial farm Pahang.](#) In: **52nd Annual Scientific Conference Malaysian Society of Parasitology and Tropical Medicine**
- 2016 [Cryptosporidium in goats from different farming systems in Terengganu.](#) In: **52nd Annual Scientific Conference Malaysian Society of Parasitology and Tropical Medicine**
- 2016 [Prevalence of Cryptosporidium in goats in Terengganu.](#) In: **52nd Annual Scientific Conference Malaysian Society of Parasitology and Tropical Medicine**
- 2016 [From hadith to application: clay as parasite cleanse.](#) In: **2nd World Congress on Integration and Islamicisation: Focus on Medical and Health Care Sciences (2WCII 2016)**
- 2016 [Health seeking behavior regarding men's health disorders among government servants in Kuantan: prevalence study towards healthy ummah.](#) In: **2nd World Congress on Integration and Islamicisation: Focus on Medical and Health Care Sciences (2WCII 2016)**
- 2016 [Control of water-borne diseases: an Islamic approach.](#) In: **2nd World Congress on Integration and Islamicisation: Focus on Medical and Health Care Sciences (2WCII 2016)**

- 2016 [Identification of VASA gene expression in in-vitro culture from Non-Obstructive Azoospermia \(NOA\) testicular biopsy cells: a study to unlock knowledge of male infertility.](#) In: **2nd World Congress on Integration and Islamicisation: Focus on Medical and Health Care Sciences (2WCII 2016)**
- 2016 [Spermatogonial stem cells protein marker identification from in-vitro differentiation of Non-Obstructive Azoospermia \(NOA\) testes biopsies cells: an approach in line with Maqasid al Shariah to maintain the heredity.](#) In: **2nd World Congress on Integration and Islamicisation: Focus on Medical and Health Care Sciences (2WCII 2016)**
- 2016 [Factors affecting treatment seeking patterns among public in three selected areas in Kuantan.](#) In: **2nd World Congress on Integration and Islamicisation: Focus on Medical and Health Care Sciences (2WCII 2016)**
- 2016 [Immunofluorescence evidence of cryptosporidium in water.](#) In: **25th Scientific Conference of the Microscopy Society Malaysia (25th SCMSM 2016)**
- 2016 [A preliminary study of the occurrence of Nematodes among goats in two farms in Kuantan.](#) In: **Malaysian Society for Microbiology Postgraduate Seminar 2016 (MSMPS 2016)**
- 2016 [Identification of Cryptosporidium in goats by 18S rRNA across four districts in Terengganu, Malaysia.](#) In: **Malaysian Society for Microbiology Postgraduate Seminar 2016 (MSMPS 2016)**
- 2016 [Identification of Beta Human Chorionic Gonadotrophin \(BHcg\) expression in frozen cleavage embryo of in vitro fertilization \(Ivf\) patients: an essential approach for better outcome towards human being inheritance in line with Maqasid Syari'ah concept.](#) In: **2nd World Congress on Integration and Islamicisation: Focus on Medical and Health Care Sciences (2WCII 2016)**
- 2016 [Occurrence of helminths and coccidia from calves in a commercial farm in Kuantan, Pahang, Malaysia.](#) In: **52nd Annual Scientific Conference Malaysian Society of Parasitology and Tropical Medicine**
- 2016 [Intestinal parasitic infections among school children in Kuantan area.](#) In: **52nd Annual Scientific Conference Malaysian Society of Parasitology and Tropical Medicine**
- 2015 [The occurrence of Cryptosporidium oocysts and physical assessment of selected lakes in Kuantan, Pahang.](#) In: **IPN-IWNEST 2015 Conferences**
- 2014 [Knowledge, attitude and practices \(KAP\) of intestinal helminths and protozoa infections among parents of Sekolah Kebangsaan Bukit Goh and Sekolah Kebangsaan Sungai Talam, Kuantan, Pahang, Malaysia.](#) In: **International Health Conference IIUM (IHCI 2014)**
- 2014 [A preliminary study of the occurrence of soil-transmitted helminths among standard one school children in urban and peripheral areas Kuantan, Pahang, Malaysia.](#) In: **International Health Conference IIUM 2014**
- 2013 [Morphological aspects of multi-nucleated Trichomonas vaginalis from cervical cancer patients in Malaysia.](#) In: **Biomicroworld2013 : V International Conference on Environmental , Industrial and Applied Microbiology**
- Book**
- 2017 [The assessment of water quality in two main rivers in Kuantan, Pahang.](#) IIUM Press, International Islamic University Malaysia . ISBN 978-967-418-818-4

Book Section