

MOHAMMED IMAD A. MUSTAFA MAHMUD



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ACADEMIC QUALIFICATION

- Doctor of Philosophy in Microbiology
- Bachelor of Medicine and Surgery
- M.B.B.Ch
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TEACHING RESPONSIBILITIES

ADVANCED MEDICAL VIROLOGY	2008/2009 2009/2010
BACTERIAL VIRULENT FACTORS	2003/2004
BASIC LABORATORY TECHNIQUES	2013/2014 2014/2015 2015/2016 2016/2017 2017/2018 2019/2020
BODY REACTION TO PHYSICAL, CHEMICAL & BIOLOGICAL AGENTS	2010/2011 2014/2015 2015/2016 2016/2017 2017/2018 2018/2019
BODY REACTIONS TO PHYSICAL, CHEMICAL AND BIOLOGICAL AGENTS	2019/2020
CARDIOVASCULAR, RESPIRATORY AND HAEMOPOIETIC SYSTEMS	2020/2021
CARDIOVASCULAR, RESPIRATORY, BLOOD AND BLOOD FORMING ORGANS	2010/2011 2011/2012 2012/2013 2013/2014 2014/2015 2015/2016 2017/2018 2018/2019 2019/2020
CLINICAL MICROBIOLOGY DIAGNOSTIC LAB PRACTICE	2012/2013 2013/2014 2014/2015 2015/2016 2016/2017 2017/2018 2018/2019
CREATIVITY AND INNOVATION	2013/2014 2014/2015 2015/2016 2016/2017 2017/2018 2018/2019 2019/2020 2020/2021
DIAGNOSTIC LAB PRACTICE I	2008/2009 2009/2010
DISSERTATION	2009/2010 2010/2011 2013/2014 2014/2015
EPIDEMIOLOGY OF COMMUNICABLE DISEASE	2003/2004
GENERAL MOLECULAR & PROTEOMICS TECHNIQUES	2013/2014 2014/2015 2015/2016 2016/2017 2017/2018 2018/2019 2019/2020
INTRODUCTION TO MEDICAL MICROBIOLOGY	2007/2008 2009/2010
INTRODUCTION TO MEDICAL VIROLOGY	2007/2008

KNOWLEDGE AND SCIENCE IN ISLAM	2018/2019
MEDICAL BACTERIOLOGY	2011/2012 2012/2013 2013/2014 2014/2015 2015/2016 2016/2017 2017/2018 2018/2019
MEDICAL LABORATORY INSTRUMENTATION	2013/2014 2014/2015 2015/2016 2016/2017 2017/2018 2019/2020
MEDICAL MYCOLOGY	2011/2012 2012/2013 2013/2014 2015/2016 2016/2017 2017/2018 2018/2019
MEDICAL VIROLOGY	2011/2012 2012/2013 2013/2014 2014/2015 2016/2017 2017/2018 2018/2019
NORMAL RESPONSE & PROCESS TO DISEASED STATE	2010/2011 2011/2012 2012/2013 2014/2015 2016/2017 2017/2018 2018/2019
NORMAL RESPONSE AND PROCESS TO DISEASED STATE	2019/2020 2020/2021
NORMAL STRUCTURE & FUNCTION OF THE HUMAN CELL, TISSUE & BODY SYSTEM	2011/2012 2012/2013 2014/2015 2015/2016 2017/2018 2018/2019
NORMAL STRUCTURE & FUNCTION OF THE HUMAN CELL, TISSUE & BODY SYSTEMS	2019/2020 2020/2021
PATHOGENESIS CAUSED BY MICROBES	2009/2010
PATHOGENESIS OF MICROBIAL INFECTIONS	2009/2010
RESEARCH (DATA ANALYSIS)	2007/2008
RESEARCH (DATA COLLECTION)	2007/2008 2009/2010 2010/2011 2011/2012 2012/2013 2013/2014 2014/2015
RESEARCH (LITERATURE REVIEW)	2008/2009 2009/2010 2010/2011 2011/2012 2012/2013 2014/2015
RESEARCH PROPOSAL	2008/2009 2009/2010 2010/2011 2011/2012 2012/2013 2014/2015 2018/2019
STRUC., PHY., IDENTIF., CLASS. OF MICROBES AND VIRULENCE FACTORS	2009/2010
STRUCTURE & FUNCTION IN NORMAL & DISEASED STATES & BEHAVIOURAL SCIENCE	2019/2020
THE ALIMENTARY AND HEPATOBILIARY SYSTEMS	2011/2012 2012/2013 2014/2015 2017/2018 2018/2019 2019/2020 2020/2021
THE ENDOCRINE, REPRODUCTIVE URINARY SYSTEMS	2014/2015 2015/2016 2017/2018 2018/2019 2019/2020
THE LOCOMOTOR AND NERVOUS SYSTEMS	2010/2011 2014/2015 2015/2016 2017/2018 2018/2019 2019/2020

THESIS	2009/2010 2011/2012 2012/2013 2013/2014 2014/2015
TISSUE CULTURE	2011/2012 2012/2013 2013/2014 2014/2015 2015/2016 2016/2017 2017/2018 2018/2019 2019/2020

RESEARCH PROJECTS

In Progress

- 2019 - Present** Molecular approach of platelet activating factor (PAF) in mediating the inflammation-induced human preterm delivery.
- 2018 - Present** Expression of Group B Streptococcus virulence genes in rectovaginal swab samples of symptomatic pregnant women, in association with preterm birth.
- 2016 - Present** Effect of Eurycoma Longifolia on Testosterone Level on Rat
- 2014 - Present** Assessing the New Technique for HCV RNA Quantification Using Real-time PCR

Completed

- 2016 - 2017** Effect of Eurycoma Longifolia on Testosterone Level on Rat
- 2015 - 2018** Investigation of fenugreek seeds aqueous extract for prevention of ovarian hyperstimulation syndrome in the rat animal model
- 2014 - 2018** Assessing the New Technique for HCV RNA Quantification Using Real-time PCR
- 2014 - 2018** Immunoprotective Effect of Virgin Coconut Oil Against Cyclophosphamide-induced Histological Changes in Lymphoid Tissues
- 2014 - 2017** Development Of HCV Genotyping Protocol Based On High Resolution Melting Analysis Real-Time PCR: A Pilot Study
- 2013 - 2015** Teaching and Learning Qur'anic Arabic Utilizing Adaptive and Intelligent Systems for Collaborative Learning
- 2013 - 2015** Teaching and Learning Qur'anic Arabic Utilizing Adaptive and Intelligent Systems for Collaborative Learning
- 2012 - 2014** Development Molecular Beacon Real Time PCR assay for simultaneous quantification and genotyping of HCV in blood samples of infected patients
Change to- Interrelationship between qHBsAg, HBV DNA load, genotypes and peripheral immune cells in patients with chronic hepatitis B virus infection.
- 2011 - 2013** (RU2011) Development of in-house one-tube RT-PCR protocol for HCV-RNA detection
- 2011 - 2014** RU 2011 -Isolation, primary culture and maintenance & preservation of mouse hepatocytes

- 2011 - 2015** RU 2011 - Viral Infections and Autoimmune Diseases Amongst Patients with Schizophrenia in a Tropical Country
- 2010 - 2011** Staphylococcal cassette chromosome mec(SCCmec) typing of methicillin-resistant (MRSA) isolates from patients attending HTAA in Kuantan, Pahang, Malaysia
- 2010 - 2013** The Use of Multiplex Real-Time PCR for Differential Detection of Streptococcus Pneumoniae, Burkholderia pseudomallei and Atypical Bacterial Pathogens in Respiratory and Blood Samples of Patients with Community Acquired Pneumonia
- 2010 - 2012** Isolation of Burkholderia Pseudomallei From Soil and Its Correlation with Seroprevalence Rate in Endemic Area of Pahang, Malaysia
- 2010 - -1** Staphylococcal cassette chromosome mec(SCCmec) typing of methicillin-resistant (MRSA) isolates from patients attending HTAA in Kuantan, Pahang, Malaysia
- 2009 - 2010** Biological Dynamics of HCV Infection in Haemodialysis Patients in Pahang
- 2009 - 2012** Purification of High Activity Taq Dna Polymerase
- 2009 - 2012** Antibacterial activity and cytotoxicity of new modified class I ionomer dental cement
- 2007 - 2010** Determination of Hepatitis C Virus Genotypes Isolated from Haemodialysis Patients in Pahang in Designing a Better Chemotherapy Regime
- 2007 - 2014** Characterization of Burkholderia Pseudomallei and Evaluation and Modification of Available Serodiagnostic Tests for Melioidosis
- 2006 - 2009** Mutation Analysis of BRCA 1 Gene From Malaysian Females Breast Cancer Patients In East Coast of Malaysia
- 2006 - 2017** Prevalence of Chlamydia Pneumoniae, ompA VD4 DNA Sequences in Atherosclerotic and Non-Atherosclerotic Arterial Segments Obtained at Autopsies Performed on Human Cadavers at The Institute of Forensic of Kuala Lumpur General Hospital
- 2005 - 2010** DNA Sequence Analysis of BRCA 1 gene in Breast Cancer from Malaysian Female
- 2004 - 2017** Original Title: Studies on Legionella Contamination to the Air-Conditioning Cooling Towers and Water Supply Tanks of the Health New Title: Is Legionella Contamination of the Air-Conditioning Cooling Towers and Water Supply Tanks a Problem to the??.

PUBLICATIONS

Article

- 2020** [Virulence genes rib and bca in serotypes of group B streptococcus \(GBS\) isolated from symptomatic pregnant women in a tertiary care hospital in East Coast Malaysia.](#) Microorganisms , 8 (2) pp.6-6
- 2020** [COVID-19 pandemic – an apocalypse of our time.](#) IIUM Medical Journal Malaysia , 19 (1) pp.1-3

- 2019** [Seronegative occult Hepatitis C virus infection \(OCI\) in a main haemodialysis centre In Pahang, Malaysia.](#) IIUM Medical Journal Malaysia , 18 (3) pp.11-19
- 2019** [Molecular characterization of gyrA, parC and gepA genes in quinolone resistant ESBL producing E. Coli isolated from patients in HTAA, Kuantan.](#) IIUM Medical Journal Malaysia , 18 (Supplement 2) pp.45-45
- 2019** [Eurycoma longifolia root aqueous extract augments the testosterone level and spermatogenesis in adult male rats.](#) IIUM Medical Journal Malaysia , 18 (3) pp.41-47
- 2019** [Relationship between antimicrobial prescribing and antimicrobial resistance among UTI patients at Buraidah Central Hospital, Saudi Arabia.](#) Journal of Pharmacy and Bioallied Sciences , 11 (2) pp.162-169
- 2019** [Phenotypic and genotypic characterization, and detection of PVL encoding gene in methicillin resistant staphylococcus aureus strains isolated from patients admitted to a tertiary Hospital in Kuantan, Malaysia.](#) International Medical Journal Malaysia (IMJM) , 18 (2) pp.87-94
- 2018** [Phenotypic and molecular study of carbapenem-resistant enterobacteriaceae in a referral hospital in the East coast Malaysia.](#) International urnal of Health & Allied Sciences , 7 (1) pp.17-22
- 2018** [Establishment of simultaneous detection and quantitation of HCV-RNA by third generation intercalating dye real-time PCR.](#) The International Medical Journal Malaysia , 17 (1) pp.31
- 2018** [Protective effect of virgin coconut oil on cyclophosphamide-induced histological changes in lymphoid tissues.](#) International Medical Journal Malaysia , 17 (3) pp.65-74
- 2017** [Study of Hepatitis C virus infection at a tertiary hospital: Genotyping, risk factors and comorbidities.](#) The International Medical Journal Malaysia , 16 (1) pp.11-20
- 2017** [Nutrients depictions of Barhi date palm \(Phoenix dactylifera L.\) kernels 1.](#) International Food Research Journal , 24 (Suppl.) pp.S325-S334
- 2017** [Anti-biofilm and anti-quorum sensing properties of ethanol and aqueous extracts of orthosiphon stamineus and andrographis paniculata leaves and stems.](#) International Medical Journal Malaysia (IMJM) , 16 (Suppl. 1)
- 2017** [Antimicrobial activity of methyl gallate isolated from the leaves of Glochidion superbum against hospital isolates of methicillin resistant Staphylococcus aureus.](#) Natural Product Sciences , 23 (1) pp.5-8
- 2017** [Association between helicobacter pylori chronic gastritis and atherosclerosis of carotid and coronary arteries in autopsy sample of Iraqi population.](#) Annals of Microscopy , 16 (April) pp.37-45
- 2016** [Is there any effect of fenugreek seeds aqueous extract \(FSA\) on the quantity of ovarian follicles and estrus cycle of female rats...?.](#) Journal of Medical Practice and Review , 1 (7) pp.55-63
- 2016** [Hepatitis B surface antigen \(HBsAg\) levels and hepatitisBeAntigen \(HBeAg\) seroconversion status.](#) Hepatology International , 10 (Suppl. 1) pp.S223-S223

- 2016** [Clinical and histopathological relevance of helicobacter pylori BabA2 genotype.](#) International Medical Journal Malaysia , 15 (2) pp.43-49
- 2016** [Antimicrobial Susceptibility of Klebsiella pneumoniae and Escherichia coli with Extended-Spectrum \$\beta\$ -lactamase associated Genes in Hospital Tengku Ampuan Afzan, Kuantan, Pahang.](#) Malaysian Journal of Medical Sciences , 23 (2) pp.14-20
- 2016** [Correlation between the HBsAg level and the peripheral blood lymphocytes profile in chronic Hepatitis B patients from Malaysia.](#) Virology & Antiviral Research , 5 (2)
- 2015** [Correlation between HBSAG quantification and HBV genotypes in chronic HBV infections.](#) International Journal of Advances in Science, Engineering and Technology (IJASEAT) , 3 (2) pp.1-6
- 2012** [Translation termination mutations analysis using the protein truncation test on Exon11A of the BRCA1 gene in female breast cancer patients of Pahang, Malaysia.](#) Journal of Advanced Medical Research , 2 (2) pp.61-69
- 2012** [Translation termination mutations analysis using the protein truncation test on exon11A of the BRCA1 gene in female breast cancer patients of Pahang, Malaysia.](#) Journal of Advanced Medical Research , 2 (2) pp.61-69
- 2012** [Mixed-genotypes infections with hepatitis C virus in hemodialysis subjects..](#) The Medical Journal of Malaysia , 67 (2) pp.199-203
- 2012** [Biodynamics of Hepatitis C virus in haemodialysis patients in Pahang.](#) The International Medical Journal Malaysia , 11 (1) pp.23-30
- 2011** [The use of multiplex real-time PCR improves the detection of the bacterial etiology of community acquired pneumonia.](#) Tropical Biomedicine , 28 (3) pp.531-544
- 2011** [Development of multiplex real-time PCR for the rapid detection of five bacterial causes of community acquired pneumonia.](#) Tropical Biomedicine , Vol 28 (3) pp.545-556
- 2011** [Lipid peroxidation in chronic cerebral hypoperfusion- induced neurodegeneration in rats.](#) International Medical Journal Malaysia , 10 (2) pp.3-6
- 2010** [Biodynamics of HCV infection in haemodialysis patients in Pahang.](#) International Journal of Infectious Diseases , 14 (supp.1) pp.E231-E232
- 2009** [Seroprevalence study of HCV Genotypes in two tertiary hospital and its association with risk factors and current management practice.](#) Medical Journal of Malaysia , 64 (Supp B) pp.59-59
- 2009** [Mutation detection of BRCA1 gene from Malaysian breast cancer patients by denaturing high performance liquid chromatography \(DHPLC\) .](#) Amino Acids , 37 (Supp1) pp.598
- Conference or Workshop Item**
- 2020** [Microbiome brain axis.](#) In: **International Webinar On Nutritional, Brain and Behaviour**
- 2018** [Effect of eurycoma longifolia on the testosterone level in adult male rats.](#) In: **289th International Conference on Sports Nutrition and Supplements(ICSNS)**

- 2017 [Characterization of occult hepatitis c virus \(hcv\) infection among hemodialysis patient.](#) In: "Medical Research Symposium: Research in Academia: the way forward"
- 2016 [Hepatitis c virus RNA quantification using Evagreen® dye real time PCR.](#) In: **Medical, Medicine & Health Sciences MMHS 2016**
- 2015 [Hepatitis C virus Infection among Patients at Hospital Tengku Ampuan Afzan, Kuantan: Genotypes Distribution, RNA sequence Variation, Risk Factors and Co-morbidities.](#) In: **International Congress of the Malaysian Society for Microbiology 2015 (7-10 December 2015) hosted in Bayview Beach resort, Penang, Malaysia**
- 2015 [Is there any effect \(s\) of fenugreek seeds aqueous extract on the regularity of estrous cycle and quantity of ovarian follicles of female rats...?.](#) In: **Medical Research Symposium 2015**
- 2014 [Alteration of Peripheral Blood Lymphocytes \(PBLs\) profile with HBsAg level in patients with chronic hepatitis B infection.](#) In: **International Conference on Biological, Chemical and Environmental Sciences (BCES-2014)**
- 2013 [Multiplexing of reverse-transcription polymerase chain reaction for Hepatitis C virus genotyping.](#) In: **USIM's 4th Annual Health Conference (AHC 2013)**
- 2013 [In-house semi-nested reverse transcription polymerase chain reaction for the detection of HCV-RNA in serum with low viral load.](#) In: **IUM Research, Invention and Innovation Exhibition 2013**
- 2012 [Full-length characteristics of hepatitis C virus genotype 3 in acutely infected patient.](#) In: **7th International Infectious Diseases Seminar and Workshop (NIDSAW 2012)**
- 2011 [Sensitivity assay of semi-nested reverse-transcription polymerase chain reaction in detecting HCV-RNA from chronic renal disease patient.](#) In: **International Health Conference IUM (IHCI) 2011**
- 2011 [Biodynamics of HCV infection in haemodialysis patients in Pahang.](#) In: **IUM Research, Invention and Innovation Exhibition (IRIIE) 2011**
- 2011 [Sensitivity assay of semi-nested reverse-transcription polymerase chain reaction in detecting HCV-RNA from chronic renal disease patient.](#) In: **International Health Conference IUM 2011**
- 2010 [Molecular study of hepatitis C viral RNA extracted from local isolates in Pahang, Malaysia: genotyping, subtyping and base sequencing.](#) In: **IUM Research, Innovation & Invention Exhibition (IRIIE 2010)**
- 2010 [Hepatitis C genotyping in hemodialysis patients and the development of genotyping method based on TaqMan Probe Real Time \(PCR\).](#) In: **The 20th Conference of the Asian Pacific Association for the Study of the Liver (APASL)**
- 2010 [Community-acquired pneumonia in Hospital Tengku Ampuan Afzan.](#) In: **Pahang Research Day 2010**
- 2008 [HCV genotypes in haemodialysis units: a preliminary study.](#) In: **13th International Congress On Infectious Diseases**

2017 [Invitro activity of T4 bacteriophage on uropathogenic e. Coli.](#) IIUM Press . ISBN 978-967-418-733-0

2017 [Methicillin-resistant staphylococcus aureus \(MRSA\): epidemiology and SCCmec typing.](#) IIUM Press, International Islamic University Malaysia . ISBN 978-967-418-734-7

Book Section

2018 [Bugs and more bugs: medical microbiology and immunology.](#) In: **Introduction to basic medical sciences: anatomy, biochemistry, physiology, microbiology, parasitology, pathology and pharmacology** IIUM Press, International Islamic University Malaysia . ISBN 978-967-418-484-1 , pp.62-77