

A.B.M. HELAL UDDIN



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المؤهل العلمي

- Ph.D in Environmental Chemistry
- Master of Science Chemistry
- Bachelor of Science (Hons) in Chemistry

مسؤوليات التدريس

BASIC PHARMACEUTICAL ANALYSIS	2019/2020
DOSAGE DESIGN I	2012/2013 2013/2014 2014/2015 2015/2016 2016/2017 2017/2018 2018/2019 2019/2020
Dosage Design I	2010/2011 2011/2012
GOOD REGULAR PRACTICE	2014/2015 2015/2016
INDUSTRIAL PHARMACY	2013/2014 2014/2015 2015/2016 2016/2017 2017/2018 2019/2020
PHARMACEUTICAL ANALYSIS	2014/2015
PHARMACEUTICAL ANALYSIS 1	2003/2004
PHARMACEUTICAL ANALYSIS I	2004/2005 2009/2010 2011/2012 2013/2014 2014/2015 2015/2016 2016/2017 2017/2018 2018/2019
PHARMACEUTICAL ANALYSIS II	2004/2005 2009/2010 2010/2011 2011/2012 2012/2013 2013/2014 2014/2015 2015/2016 2016/2017 2017/2018 2018/2019 2019/2020
PHARMACEUTICAL INSTRUMENTAL ANALYSIS	2020/2021
Pharmaceutical Analysis I	2006/2007
Pharmaceutical Analysis II	2006/2007 2007/2008 2008/2009
Pharmaceutical Biotechnology	2008/2009
QUALITY ASSURANCE	2020/2021
QUALITY CONTROL	2014/2015

Quality Assurance	2007/2008 2008/2009 2009/2010 2010/2011 2011/2012 2012/2013 2013/2014 2014/2015 2015/2016 2016/2017 2017/2018 2018/2019 2019/2020
RESEARCH PROJECT 1	2013/2014 2014/2015
RESEARCH PROJECT 2	2017/2018
RESEARCH PROJECT-LITERATURE SEARCH	2012/2013 2014/2015 2015/2016 2016/2017

المشاريع البحثية

In Progress

- 2019 - Present** - Extraction and identification of bioactive compounds from *Cassia angustifolia* using conventional and non-conventional methods.
- 2019 - Present** - Formulation and characterisation of micronized *Oroxylum indicum* intended for hepatoprotective effect based on Malay Medical Manuscript
- 2019 - Present** - Investigation of the pharmacokinetic interaction of sulfonylurea and calcium channel blocker in diabetic and hypertensive rats
- 2018 - Present** - Mechanism of amide coupling interaction for eliminating organic solvent from generic pharmaceuticals with supercritical CO₂.
- 2017 - Present** - Analytical and Biological Activity Analysis of Malaysian leeches Saliva Extract of Both Green and Brown Types
- 2016 - Present** - Isolation and characterization of Potential α -glucosidase inhibitors from *Clinacanthus Nutans*
- 2016 - Present** - Influence of multiple reaction monitoring (MRM) on the separation of amlodipine and perindopril in pharmaceutical dosage form and plasma
- Unknown - Present** - Extraction and identification of bioactive compounds from *Cassia angustifolia* using conventional and non-conventional methods.
- Unknown - Present** - Investigation of the pharmacokinetic interaction of sulfonylurea and calcium channel blocker in diabetic and hypertensive rats
- Unknown - Present** - Investigation of the pharmacokinetic interaction of sulfonylurea and calcium channel blocker in diabetic and hypertensive rats.
- Unknown - Present** - Formulation and characterisation of micronized *Oroxylum indicum* intended for hepatoprotective effect based on Malay Medical Manuscript
- Unknown - Present** - Extraction of fatty acids from leaves, stems and roots of Raja Berangkat plant using supercritical fluids.

Completed

- 2016 - 2019** - Influence of multiple reaction monitoring (MRM) on the separation of amlodipine and perindopril in pharmaceutical dosage form and plasma

2016 - 2018	Isolation and characterization of Potential α -glucosidase inhibitors from Clinacanthus Nutans
2015 - 2020	Addressing Formulation Issues of Syariah Compliant Generic Sustained Release Antidiabetic Solid Dosage Form
2014 - 2017	Estimation of Amlodipne Level in Diabetic and Hypertensive Rats' Urine and its Effects on Adrenergic Receptors
2013 - 2016	Development of Quality Control for Generic Antihypertensive Formulation Manufactured at IIUM Pharmacy Manufacturing Plant
2013 - 2015	Development of Adsorbent Materials from Selected Local Fruit Waste
2013 - 2017	Fusion Prophetic Medicine (Honey) and Contemporary Medicine (Paracetamol) as a Future Greener Pharmaceutical
2011 - 2013	Detection of Cetirizine in Human Plasma using High Performance Liquid Chromatography
2011 - 2013	Determination of Chemical/Pharmaceutical Contaminants (Toxic Metals, Estrogenic and Cytotoxic Compounds) in River Water in Pahang
2011 - 2012	KVC Book Project 2011- Sustainable Utilization of Malaysian Agrowaste
2011 - 2013	Analytical Method Development for the Detection and Determination of Amlodipine in Pharmaceutical Raw Materials and Dosage Forms
2010 - 2011	High Performance liquid chromatographic method for the detection of cimetidine and ranitidine in human plasma with Uv-vis detector
2007 - 2011	Determination of Octanol-Water Partition Coefficients of Anti-microbial Alkaloids from Glycosmis pentaphylla (Retz.) DC
2007 - 2011	Detection of Toxic Heavy Metals in Locally Available Traditional Medicines
2004 - 2007	Blood Level Serotonin of Tryptophan, Catecholamines and Estrogen and their Implications for Mood Changes During Pregnancy Ad Postpartum Period
Unknown - 2019	Extraction of fatty acids from leaves, stems and roots of Raja Berangkat plant using supercritical fluids.

المنشورات

Article

- 2020** [Effect of processing methods on xylitol-starch base co-processed adjuvant for orally disintegrating tablet application.](#) Pakistan Journal of Pharmaceutical Sciences , 33 (2) pp.551-559
- 2020** [Comparison of disintegrant-addition methods on the compounding of orodispersible tablets.](#) International Journal of Pharmaceutical Compounding , 24 (2) pp.148-155

- 2020** [Synthesis and characterization of orotic acid loaded chitosan inclusion complex.](#) International Journal of Drug Delivery Technology , 10 (1) pp.1-4
- 2020** [Phytochemical and cytotoxicity evaluation of lagerstroemia speciosa \(L.\) leaves extract by MCF-7 cell line and brine shrimp lethality bioassay.](#) International Journal of Drug Delivery Technology , 10 (1) pp.40-44
- 2020** [Comparison of disintegrant-addition methods on the compounding of orodispersible tablets.](#) International Journal of Pharmaceutical Compounding , 24 (2) pp.148-155
- 2020** [Supercritical fluid technology and its pharmaceutical applications: a revisit with two decades of progress.](#) Indian Journal of Pharmaceutical Education and Research , 54 (2 (April-June)) pp.s1-s11
- 2020** [Isolation and characterization of novel antibacterial compound from an untapped plant, Stereospermum fimbriatum.](#) Natural Product Research , 34 (5) pp.629-637
- 2020** [Effect of processing methods on xylitol-starch base co-processed adjuvant for orally disintegrating tablet application.](#) Pakistan Journal of Pharmaceutical Sciences , 33 (2) pp.551-559
- 2019** [A new classification and an extension of waste from business practices and Islamic perspective.](#) Intellectual Discourse , 27 (1) pp.175-195
- 2019** [Determination of cetirizine in human plasma and validation method using HPLC technique.](#) Journal of Drug Delivery and Therapeutics , 9 (2-S (March-April)) pp.243-247
- 2019** [A sensitive and reliable RP-HPLC method for the detection of cimetidine - a H2 receptor antagonist in human plasma.](#) Letters in Applied NanoBioScience , 8 (3) pp.671 -674
- 2018** [Development and validation of bioanalytical method for the analysis of amlodipine in human plasma with optimized extraction method using design of experiment.](#) Latin American Journal of Pharmacy (Acta Farmaceutica Bonaerense) , 37 (1) pp.99-104
- 2018** [Improvement of dissolution properties of albendazole from different methods of solid dispersion.](#) Journal of Drug Delivery and Therapeutics pp.475-480
- 2018** [In vitro cytotoxic and in vivo anxiolytic study of methanolic crude extract of Streulia villosa seeds.](#) PharmacologyOnline , Archive 2018 (1) pp.137-142
- 2018** [Comparative water quality study between peat coagulant treated and untreated model water bodies.](#) ARPJ Journal of Engineering and Applied Sciences , 13 (4) pp.1503-1511
- 2018** [Study on the perception of staff and students of a university on community pharmacy practice in Ipoh, Perak, Malaysia.](#) Journal of Pharmacy and Bioallied Sciences , 10 (4 (October -December)) pp.226-231
- 2018** [Preliminary study on the formulation of syariah compliant generic sustained release gliclazide tablet using xanthan gum.](#) International Medical journal Malaysia (IMJM) , 17 (Special Issue 2) pp.1-4

- 2017** [Development and validation of new RP-HPLC method for the determination of gliclazide in tablet dosage form.](#) Latin American Journal of Pharmacy , 36 (8) pp.1642-1647
- 2017** [Current analytical methods for amlodipine and its formulations: A review.](#) Journal CleanWAS , 1 (1) pp.17-22
- 2016** [Persistence of chloramphenicol in the fish flesh patin \(*Pangasius hypothalamus*\) and tilapia \(*Oreochromis niloticus*\).](#) International Medical Journal of Malaysia , 15 (supplement) pp.110
- 2016** [Comparative study of three digestion methods for elemental analysis in traditional medicine products using atomic absorption spectrometry.](#) Journal of Analytical Science and Technology , 7 (6) pp.1-7
- 2016** [Main analytical techniques used for elemental analysis in various matrices.](#) Tropical Journal of Pharmaceutical Research , 15 (2) pp.427-434
- 2016** [Reliability of graphite furnace atomic absorption spectrometry as alternative method for trace analysis of arsenic in natural medicinal products.](#) Tropical Journal of Pharmaceutical Research , 15 (9) pp.1967-1972
- 2015** [In vivo assessment of the therapeutic effects of lyophilized leech saliva extract from \(*Hirudinaria manillensis*\) on LNCaP tumor xenograft model in nude mice.](#) Journal of Clinical Oncology , 33 (7 (Supp.)) pp.271-271
- 2015** [Development and validation of reversed phase high performance liquid chromatographic method for determination of amlodipine.](#) Tropical Journal of Pharmaceutical Research , 14 (4) pp.663-669
- 2014** [Studies on bactericidal efficacy of pumpkin \(*Cucurbita moschata* Duchesne\) peel.](#) Journal of Coastal Life Medicine , 2 (2) pp.146-153
- 2014** [Starvation time and successive collection effects on leeches saliva collection quantity and proteins quality and quantity in wet season \(Kesan masa kebuluran dan kejayaan pengumpulan kuantiti air liur lintah serta kualiti dan kuantiti protein dalam musim hujan\).](#) Sains Malaysiana , 43 (11) pp.1693-1697
- 2014** [High performance liquid chromatographic determination of mefenamic acid in human plasma using UV vis detector.](#) International Journal of Pharmacy and Pharmaceutical Sciences , 6 (11) pp.167-170
- 2014** [Antimicrobial activity of bBanana \(*Musa paradisiaca* L.\) peels against food borne pathogenic microbes.](#) Journal of Pure and Applied Microbiology , 8 (5) pp.3627-3639
- 2014** [Isolation and characterization of antithrombin peptides from the saliva of Malaysian leeches.](#) Tropical Journal of Pharmaceutical Research , 13 (4) pp.553-557
- 2014** [Weeds as alternative useful medicinal source: *Mimosa pudica* Linn. on diabetes mellitus and its complications.](#) Advanced Materials Research , 995 pp.49-59
- 2013** [A review on the formulation and analysis of anti-diabetic agent: Gliclazide.](#) Advanced Materials Research , 810 pp.159-172
- 2013** [A review of heavy metals contamination in traditional medicinal products.](#) Journal of Applied Pharmacy , 4 (2) pp.748-756

- 2013** [Determination of arsenic content of available traditional medicines in Malaysia using hydride generation atomic absorption spectrometry.](#) Tropical Journal of Pharmaceutical Research , 12 (6) pp.1053-1056
- 2012** [Determination of heavy metal concentration of different traditional medicine formulations available at the East Coast Region of Malaysia.](#) African Journal of Pharmacy and Pharmacology , 6 (20) pp.1487-1491
- 2012** [Development and validation of analytical method by RP-HPLC for quantification of Alpha-Mangostin Encapsulated in PLGA microspheres.](#) Journal of Analytical & Bioanalytical Techniques , 3 (7) pp.1-5
- 2012** [Blood levels of serotonin and tryptophan and their relationship with mood changes during pregnancy and postpartum period.](#) Journal of Science and Technology , 36 (1 & 2) pp.31-36
- 2011** [Seasonal changes effects on the serotonin and melatonin transmission.](#) Canadian Journal of Applied Sciences , 1 (2) pp.1-9
- 2010** [Cytotoxicity of Vibrio cholerae of Madin Darby bovine kidney cells.](#) Pakistan Journal of Pharmaceutical Sciences , 23 (4) pp.393-397
- 2008** [Clarification of turbid lake water using novel coagulant from peat soil.](#) Canadian Journal of Pure and Applied Sciences , 2 (1) pp.261-266
- 2008** [Tropical sapric peat-rubber agglomerates as adsorbent for wastewater treatment.](#) Canadian Journal of Pure and Applied Sciences , 2 (3) pp.567-575
- 2007** [Fish wastewater treatment with "PACP" filter and reuse of the treated water.](#) Journal of Basic and Applied Sciences , 3 (1) pp.5-10
- 2005** [Studies on the effect of 4-hydroxy-4-phenylpiperidine derivative \(4HPPD\) on mice brain serotonin levels.](#) International Medical Journal Malaysia , 4 (1) pp.1-8

Conference or Workshop Item

- 2020** [Developmental toxicity evaluation of sub-CO₂ extract of Phaleria macrocarpa fruit flesh in Danio rerio embryo.](#) **In: International Research Conference on Pharmaceutical and Allied Sciences**
- 2019** [Plasma concentrations of pro-inflammatory cytokine IL-6 and anti-inflammatory cytokine IL-10 in short and long term opioid users with non-cancer pain.](#) **In: International Conference on Pharmaceutical Research and Pharmacy Practice cum 14th IIUM-MPS Pharmacy Scientific Conference (ICPRP 2019)**
- 2019** [Synthesis and characterization of orotic acid loaded chitosan inclusion complex.](#) **In: AIMST International Pharmacy Conference (AIPC) 2019: Challenges and Opportunities in Pharmaceutical Sciences, Technology and Practice**
- 2018** [Cytotoxicity and thrombolytic potential of seven different medicinal plant leaves extract.](#) **In: 4th International Pharmaceutical Research Conference 2018**
- 2018** [Development and validation of LC-MSMS method for the analysis of amlodipine and perindopril in tablet dosage form.](#) **In: 4th Pharmaceutical Research Conference 2018**

- 2017 [Combination of xanthan gum and HPMC as retardants in sustained release gliclazide formulation.](#) In: **International Malaysian French Scientific Conference 2017**
- 2017 [In vivo study of the pharmacokinetic effect of amlodipine and gliclazide.](#) In: **2nd International Conferenec on Separation Technology (ICoST) 2017**
- 2017 [Bio-analytical method development of generic formulations manufactured at IIUM Pharmaceutical manufacturing plant.](#) In: **th International Symposium and Exhibition on Aqua Science and Water Resources (ISASWR'17)**
- 2016 [Evaluation of graphite furnace and hydride generation atomic absorption spectrometry for trace analysis of arsenic in natural herbal medicine.](#) In: **International Conference of Pharmacy and Health Sciences 2016 (ICPHS)**
- 2016 [Development and validation of LC-MSMS bioanalytical method for the analysis of Amlodipine and gliclazide in Human plasma.](#) In: **International Conference of Pharmacy and Health Sciences 2016 (ICPHS)**
- 2016 [Influence of inorganic stabilizers on releasing volatile \(As and Hg\) metal ions from complex matrices of natural medicinal products in spectroscopic elemental analysis.](#) In: **29th Malaysian Analytical Chemistry Symposium = Simposium Kimia Analisis Malaysia ke-29 (SKAM29)**
- 2016 [Development and validation of bioanalytical method for the detection of gliclazide in human plasma.](#) In: **2nd International Conference on Industrial Pharmacy (2nd ICIP 2016)**
- 2016 [Preliminary study on the formulation of syariah compliant generic sustained release gliclazide tablet using xanthan gum.](#) In: **2nd World Congress on Integration and Islamicisation: Focus on Medical and Healthcare Science (2WCII 2016)**
- 2016 [Development and validation of new RP-HPLC method for the determination of amlodipine in pharmaceutical wastewater using SPE for extraction.](#) In: **3rd Pharmaceutical Research Conference (3rd PRC 2016) for Pharmacy Students & Young Graduates**
- 2015 [Effect of different digestion techniques on elements recoveries for spectroscopic analysis in natural medicinal remedies .](#) In: **International Conference on Natural Products 2015 (ICNP 2015)**
- 2015 [Bio-analytical method for generic formulation: an IIUM pharmaceutical manufacturing plant experience.](#) In: **Collaborative Conference on 3D & Materials Research (CC3DMR 2015)**
- 2015 [Development and validation of bioanalytical method for amlodipine in human plasma with optimised extraction method using Design of Experiment \(DOE\).](#) In: **4th International Conference on Pharmaceuticals, Nutraceuticals and Cosmetic Science (IPNaCs)**
- 2014 [A new hope to control foodborne diseases and pollution: potential antimicrobial activity of banana \(Musa paradisiaca\) peels against food borne pathogenic microbes.](#) In: **International Research, Invention and Innovation Exhibition 2014 (IRIIE2014)**
- 2014 [Reverse phase high performance liquid chromatographic determination of mefenamic acid in human plasma using liquid-liquid extraction technique .](#) In: **1st International Conference on Industrial Pharmacy (ICIP) 2014**

- 2014 [Biomonitoring metals in leeches \(*Hirudinaria manillensis*\): a step towards its immediate application in traditional medical treatments](#) . In: **1st International Conference on Industrial Pharmacy (ICIP) 2014**
- 2014 [Optimization of acid digestion methods for the determination of heavy metals in traditional medicine samples by atomic absorption spectrometry](#). In: **International Conference on Natural Products 2014**
- 2014 [Potential antimicrobial activity of banana \(*Musa paradisiaca*\) peels against food borne pathogenic microbes](#). In: **International Conference on Natural Products 2014**
- 2014 [High performance liquid chromatographic determination of Mefenamic acid in human plasma using UV vis detector](#). In: **International Conference on Pharmaceutical, Medical & Environmental Health Sciences (IPharME, 2014)**
- 2014 [Development and validation of new economic HPLC method for the analysis of gliclazide in tablet dosage form](#). In: **Malaysian International Chemical Congress (18MICC) 2014**
- 2013 [Evaluation of different extraction method for the isolation of cetirizine from human plasma for HPLC analysis](#). In: **2nd International Postgraduate Conference on Pharmaceutical Sciences 2013 (iPoPS 2013)**
- 2013 [Different sample clean up procedure of Mefenamic Acid in human plasma using HPLC with UV VIS detector](#) . In: **2nd International Postgraduate Conference on Pharmaceutical Sciences 2013 (iPoPS 2013)**
- 2013 [Development and validation of new RP-HPLC method for the determination of Amlodipine in tablet dosage form manufactured by IIUM pilot plant](#) . In: **4th USIM Annual Health Conference 2013**
- 2012 [Novel formulation of 'painkiller' using vegetarian capsule](#). In: **IIUM's 1st International Postgraduate Research Conference, IIPRC 2012**
- 2012 [Evaluation of different extraction method for the isolation of cimetidine and ranitidine from human plasma for HPLC analysis](#). In: **Proceeding of International Conference on Science, Technology & Social Sciences**
- 2011 [Heavy metal content determination in locally available traditional medicines using Atomic Absorption Spectroscopy \(AAS\)](#) . In: **25th Scientific Meeting of Malaysian Society of Pharmacology and Physiology**
- 2011 [Determination of arsenic \(As\) content in the locally available traditional medicine by Hydride Generation AAS](#). In: **International Health Conference IIUM 2011**
- 2010 [Use of traditional medicine : are we on the right way?](#). In: **3rd International Conference on Advancement in Science and Technology (iCAST) 2010**
- 2010 [Human factor in mental health and healing](#). In: **3rd International Conference on Advancement in Science and Technology (iCAST) 2010**
- 2010 [High performance liquid chromatographic method for the detection of some neurotransmitters in blood samples using fluorescence detector](#). In: **3rd International Conference on Science & Technology : Applications in Industry and Education (ICSTIE 2010)**

- 2010 [Determination of octanol-water partition coefficients of anti-microbial alkaloids from *Glycosmis pentaphylla* \(Retz\) DC.](#) In: **3rd International Conference on Advancement in Science and Technology (iCAST) 2010**
- 2010 [Determination of heavy metal content in traditional Chinese medicines and supplements using atomic absorption spectrometry.](#) In: **Regional Seminar on Science, Technology & Social Sciences 2010**
- 2009 [High performance liquid chromatographic method development and validation of cimetidine in human plasma for bioequivalence study.](#) In: **International Symposium 12th Canadian Society for Pharmaceutical Sciences (CSPS) Annual Meeting**

Book

- 2011 [Sustainable utilization of Malaysian agrowaste.](#) IIUM Press . ISBN 9789674180089

Book Section

- 2015 [Quality control.](#) In: **Manufacturing of Halal Pharmaceuticals** IIUM Press . ISBN 9789674183165 , pp.147-167
- 2015 [Quality control.](#) In: **Manufacturing of Halal Pharmaceuticals** IIUM Press . ISBN 9789674183165 , pp.147-167
- 2011 [Metals in herbal formulations.](#) In: **Current Issues in pharmacy** IIUM Press . ISBN 9789674180195 , pp.320-332
- 2011 [Metals in herbal formulations.](#) In: **Current Issues in pharmacy** IIUM Press . ISBN 9789674180195 , pp.320-332
- 2011 [Bioadsorption of heavy metals from synthetic waste water by tropical rambutan seed .](#) In: **Biotechnologies towards sustainable development in Malaysia** IIUM Press . ISBN 9789674182007 , pp.208-222
- 2011 [Agrowaste towards sustainable by-products: Malaysian perspectives.](#) In: **Sustainable utilization of Malaysian agrowaste** IIUM Press . ISBN 9789674180089 , pp.21-60
- 2009 [Blood levels of tryptophan and serotonin and their relationships with mood changes during pregnancy and postpartum period.](#) In: **Proceedings of the seminar on research findings 2008** IIUM Press . ISBN 9789833855780 , pp.488-491