

JULIANA BT. MD. JAFFRI



- KULLIYAH OF PHARMACY
- IIUM Kuantan Campus
- Email address:
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ACADEMIC QUALIFICATION

- Food Sciences
- Master of Science
- Bachelor of Science (Science and Practice of Pharmacy)

TEACHING RESPONSIBILITIES

| | |
|---------------------------------------|--|
| BIOAVAILABILITY & BIOEQUIVALENCE | 2015/2016 |
| DOSAGE DESIGN II | 2013/2014 2014/2015 2015/2016 2016/2017 2017/2018 2018/2019 2019/2020 2020/2021 |
| Dosage Design I | 2010/2011 |
| Dosage Design II | 2010/2011 2012/2013 |
| FUNDAMENTALS OF PHARMACOLOGY | 2019/2020 |
| INDUSTRIAL PHARMACY | 2013/2014 2014/2015 2015/2016 2016/2017 2017/2018 2018/2019 2019/2020 2020/2021 |
| INDUSTRIAL TRAINING | 2014/2015 2015/2016 |
| INNOVATIONS IN PHARMACY PRACTICE | 2016/2017 |
| INTRODUCTION TO PHARMACY PRACTICE | 2012/2013 2013/2014 2014/2015 2015/2016 |
| Industrial Training | 2009/2010 2010/2011 |
| MANAGEMENT SKILLS | 2014/2015 |
| NUTRACEUTICAL | 2016/2017 2017/2018 2018/2019 2019/2020 2020/2021 |
| Nutraceuticals & Cosmeticeuticals | 2009/2010 2010/2011 2011/2012 2012/2013 2013/2014 2014/2015 2015/2016 |
| PHARMACOKINETICS AND BIOPHARMACEUTICS | 2013/2014 2014/2015 2015/2016 2016/2017 2017/2018 2018/2019 2019/2020 2020/2021 |
| PHYSICAL PHARMACY 1 | 2010/2011 2011/2012 |
| PHYSICAL PHARMACY I | 2010/2011 |

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|--|---|
| PHYSICAL PHARMACY II | 2011/2012 |
| PT III : ENDOCRINE, CNS, PSYCHIATRY & OTHER DISEASES | 2016/2017 |
| Pharmacokinetics and Biopharmaceutics | 2009/2010 2010/2011 2011/2012 2012/2013 |
| Physical Pharmacy I | 2009/2010 |
| Physical Pharmacy II | 2009/2010 2010/2011 |
| RESEARCH PROJECT-LITERATURE SEARCH | 2012/2013 2015/2016 2016/2017 |
| STERILE PRODUCT SYSTEMS | 2014/2015 |

RESEARCH PROJECTS

In Progress

2018 - Present Mechanism of amide coupling interaction for eliminating organic solvent from generic pharmaceuticals with supercritical CO₂.

Unknown - Present Extraction of fatty acids from leaves, stems and roots of Raja Berangkat plant using supercritical fluids.

Completed

2016 - 2019 Effects of Oil Palm Leaf extract on Hydrogen Peroxide Oxidative Stress in Human Umbilical Vein Endothelial Cells

2016 - 2018 Stereospermum Fimbriatum (Chicha) - Prospects of Antimicrobial Agent for Skin Infection

2014 - 2016 Influence of Co-Solvent in Solubility of Phalerin and Mahkoside-A from Mahkota dewa (*Phaleria macrocarpa*) with Carbon Dioxide as a Solvent

2014 - 2016 Development Characterization And Stability Evaluation Of Solid Dispersed Atorvastatin For Improvement Of Solubility
NEW TITLE : Development Characterization and Stability Evaluation of Solid Dispersed Nisoldipine for Improvement of Solubility

2013 - 2018 Nano-Transfersomes as a Novel Elastic Transdermal Carrier to Address Poor Bioavailability Issue of Raloxifene Hydrochloride

2013 - 2019 Fabrication and Evaluation of a Halal Medicated Hydrogel Film from Standardized *Centella Asiatica* for Wound Healing

2013 - 2019 Fabrication and Evaluation of a Halal Medicated Hydrogel Film from Standardized *Centella Asiatica* for Wound Healing

2013 - 2016 Continuous Micronization and Particle Formation of Malaysian Medicinal Extracts Using Different Supercritical Antisolvent Techniques

2013 - 2016 Identification of Critical Elements for the Manufacturing of Halal Pharmaceuticals

- 2011 - 2015** Determination of the in vitro Percutaneous Absorption of Topical Corticosteroids in Palm Olein Based Emulsions and the Mechanisms of Diffusion
- 2011 - 2013** (RU2011) Design and development of gastro retentive drug delivery system (GRDDS) of an anti-diabetic drug
- 2011 - 2013** Detection of Cetirizine in Human Plasma using High Performance Liquid Chromatography
- 2010 - 2012** Neuroregenerative And Neuroprotective Properties Of Haruan Traditional Extract For The Treatment Of Traumatic Brain Damage In Sprague Dawley Rats
- 2010 - 2012** Microencapsulation of Cassia alata Extract for Topical Application.
- Unknown - 2019** Extraction of fatty acids from leaves, stems and roots of Raja Berangkat plant using supercritical fluids.

PUBLICATIONS

Article

- 2020** [Enrichment of antibacterial compound from the stem bark of *Stereospermum fimbriatum* using supercritical carbon dioxide extraction.](#) Separation Science and Technology (Philadelphia) , 55 (9) pp.1656-1666
- 2020** [Isolation and characterization of novel antibacterial compound from an untapped plant, *Stereospermum fimbriatum*.](#) Natural Product Research , 34 (5) pp.629-637
- 2019** [Pharmacological properties of *Centella asiatica* hydrogel in accelerating wound healing in rabbits.](#) BMC Complementary and Alternative Medicine , 19 pp.1-7
- 2018** [Palm olein emulsion: a novel vehicle for topical drug delivery of betamethasone 17-valerate.](#) AAPS PharmSciTech , 19 (1) pp.371-383
- 2018** [PVA-PEG physically cross-linked hydrogel film as a wound dressing: experimental design and optimization.](#) Pharmaceutical Development and Technology , 23 pp.751-760
- 2018** [pH responsive polymers in drug delivery.](#) Research Journal of Pharmacy and Technology , 11 (11) pp.5115-5122
- 2018** [Enrichment, in vitro, and quantification study of antidiabetic compounds from neglected weed *Mimosa pudica* using supercritical CO₂ and CO₂-Soxhlet.](#) Separation Science and Technology , 53 (2) pp.243-260
- 2018** [Selected natural agents used for cholesterol controls.](#) Nutrition & Food Science , 48 (2) pp.301-317
- 2017** [Development of a binary carrier system consisting polyethylene glycol 4000 - ethyl cellulose for ibuprofen solid dispersion.](#) International Journal of Pharmaceutical Investigation , 7 (3) pp.142-148
- 2017** [\$\alpha\$ -glucosidase inhibitors isolated from *Mimosa pudica* L..](#) Natural Product Research , 33 (10) pp.1495-1499

- 2017 [Mimosa pudica L.: a comparative study via in vitro analysis and GC Q-TOF MS profiling on conventional and supercritical fluid extraction using food grade ethanol.](#) Indian Journal of Natural Products and Resources , 8 (1) pp.54-62
- 2017 [A lignan with glucose uptake activity in 3T3-L1 adipocytes from the stem bark of Knema patentinervia.](#) Pakistan Journal of Pharmaceutical Science , 30 (4) pp.1335-1339
- 2017 [Mimosa pudica L.: A comparative study via in vitro analysis and GC Q-TOF MS profiling on conventional and supercritical fluid extraction using food grade ethanol.](#) Indian Journal of Natural Products and Resources (IJNPR) , 8 (1) pp.54-62
- 2017 [Rapid investigation of \$\alpha\$ -glucosidase inhibitory activity of Phaleria macrocarpa extracts using FTIR-ATR based fingerprinting.](#) Journal of Food and Drug analysis , 25 (2) pp.306-315
- 2016 [Cytotoxic and anti-inflammatory activities of Garcinia xanthochymus extracts on cell lines.](#) Makara Journal of Health Research , 20 (1) pp.11-17
- 2016 [Screening of various parts of phaleria macrocarpa plant for \$\alpha\$ -glucosidase inhibitory activity.](#) Journal of Food Biochemistry , 40 (2) pp.201-210
- 2016 [Malaysian consumers' awareness, perception, and attitude toward cosmetic products: Questionnaire development and pilot testing.](#) Journal of Pharmacy And Bioallied Sciences , 8 (3) pp.203-209
- 2016 [The enlightenment from Malaysian consumers' perspective towards cosmetic products.](#) Journal of Pharmacy And Bioallied Sciences pp.1-6
- 2015 [Design and in-vitro evaluation of sustained release floating tablets of metformin HCl based on effervescence and swelling.](#) Iranian Journal of Pharmaceutical Research , 15 (1) pp.1-34
- 2014 [Supercritical carbon dioxide extraction and studies of mango seed kernel for cocoa butter analogy fats = Extracción mediante dióxido de carbono supercrítico y estudios del núcleo de la semilla de mango para obtener grasas análogas a la mantequilla de cacao.](#) CyTA - Journal of Food , 12 (1) pp.97-103
- 2014 [Haplophytin B from maclurodendron porteri.](#) Pakistan Journal of Pharmaceutical Sciences , 27 (1) pp.179-181
- 2013 [Cognitive enhancement and neuroprotection by catechin-rich oil palm leaf extract supplement.](#) Journal of the Science of Food and Agriculture , 93 (4) pp.819-827
- 2012 [Optimization of supercritical CO₂ extraction of fish oil from viscera of African Catfish \(Clarias gariepinus\).](#) International Journal of Molecular Sciences , 13 (9) pp.11312-11322
- 2011 [Antihypertensive and cardiovascular effects of catechin-rich oil palm \(Elaeis guineensis\) leaf extract in nitric oxide-deficient rats.](#) Journal of Medicinal Food , 14 (7/8) pp.775-783

Conference or Workshop Item

- 2019 [A novel antibacterial compound from an untapped plant: Stereospermum fimbriatum.](#) In: **AIMST International Pharmacy Conference (AIPC) 2019: Challenges and Opportunities in Pharmaceutical Sciences, Technology and Practice**

- 2016 [Swelling index, gel fraction, thermal and rheological properties of Centella asiatica hydrogel.](#) In: **2nd International Conference On Industrial Pharmacy 2016 (ICIP 2016)**
- 2016 [Potential of untapped local species, "Chicha" \(Stereospermum fimbriatum\), as an alternative for skin infection treatment.](#) In: **The 14th Symposium of Malaysian Society of Applied Biology (MSAB 2016)**
- 2016 [Subcritical carbon dioxide extraction of stereospermum fimbriatum's stem bark and the extract's potential as an anti-dermal infection agent.](#) In: **2nd International Conference on Industrial Pharmacy (ICIP 2016)**
- 2016 [Enriched extracts of anti-diabetic compounds from neglected weed M. Pudica using supercritical and subcritical carbon dioxide extractions and the corresponding in vitro study for diabetes mellitus.](#) In: **2nd International Conference on Industrial Pharmacy (ICIP 2016)**
- 2015 [Awareness, perception and attitude of Malaysian consumers towards cosmetic products.](#) In: **5th International Conference on Advancement in Science and Technology (iCAST 2015)**
- 2015 [Preparation of natural chitosan from pens of squid Loligo spp..](#) In: **5th International Conference on Advancement in Science and Technology (iCAST 2015)**
- 2015 [Formulation of PVA and PEG hydrogel via Freeze-Thaw method.](#) In: **4th International Conference on Pharmaceuticals, Nutraceuticals and Cosmetic Science (IPNaCs)**
- 2015 [Formulation of hydrogel with synthetic polymers \(PVA and PEG\) .](#) In: **Controlled Release & Drug Delivery Symposium (CRDDS 2015) in conjunction with the 1st MyCRS Scientific Conference**
- 2014 [Turning weeds into drugs: The prospect of Mimosa pudica for Diabetes mellitus in-vitro.](#) In: **1st International Conference on Industrial Pharmacy (ICIP) 2014**
- 2014 [Formulation and characterization of palm oil ester-based betamethasone 17-valerate creams and comparison with marketed products.](#) In: **PharmaTech 2014, 3rd International Conference and Exhibition on Pharmaceutical, Nutraceutical and Cosmeceutical Technology**
- 2014 [Diffusion of betamethasone 17-Valerate from palm olein-based vehicle.](#) In: **CRDDS2014, Controlled Release & Drug Delivery Symposium 2014**
- 2014 [Formulation and in-vitro characterization of floating sustained-release tablets of metformin hydrochloride.](#) In: **1st International Conference on Industrial Pharmacy**
- 2014 [Design & development of gastroretentive drug delivery system of metformin HCL .](#) In: **International Research, Invention and Innovation Exhibition (IRIIE) 2014**
- 2013 [In-vitro antifungal and antibacterial activities of rhizomes extracts of Alpinia galanga and Alpinia conchigera griff.](#) In: **International Conference on Natural Products 2014**

- 2013 [Assessment of behavioural effects following treatment with haruan traditional formulation in brain-damage induced Sprague dawley rats.](#) In: **9th International Conference on Cognitive Science (ICCS 2013)**
- 2011 [Development of Palm olein-in-water emulsion containing extracts of Derris elliptica Benth as insecticide .](#) In: **International Health Conference IIUM 2011**
- 2011 [Palm olein-in-water cream containing extracts from Hirudinaria manillensis for improving blood flow.](#) In: **International Ibn al-Haytham's al-Manazir Innovation and Invention Exhibition (INEX 2011)**
- 2011 [Microencapsulation of Cassia alata extract for topical application.](#) In: **International Congress on Applied Biology (ICAB 2011)**
- 2011 [Preservation of behavioural functions by haruan traditional extract \(HTE\) in rats with ketamine-induced neurodegeneration .](#) In: **International Health Conference IIUM 2011**

**Book
Book Section**

- 2019 [The Kulliyah of Pharmacy : providing shari'ah compliant pharmacy education.](#) In: **The International Islamic University Malaysia: the garden of knowledge and virtue** IIUM Press . ISBN 9789674910358 , pp.405-414
- 2019 [The Kulliyah of Pharmacy : providing shari'ah compliant pharmacy education.](#) In: **The International Islamic University Malaysia: the garden of knowledge and virtue** IIUM Press . ISBN 9789674910358 , pp.405-414
- 2016 [Centella asiatica: a review.](#) In: **Pegaga (Centella asiatica)** IIUM Press . ISBN 978-967-418-442-1 , pp.1-32
- 2015 [Regulatory requirements.](#) In: **Manufacturing of Halal Pharmaceuticals** IIUM Press . ISBN 979-967-418-316-5 , pp.94-126
- 2011 [Liver and kidney protective effects of the polyphenols, tocopherols and carotenoids .](#) In: **Pharmaceutical technology perspectives** IIUM Press . ISBN 9789674180751 , pp.25-36
- 2011 [The vascular protective effects of polyphenols..](#) In: **Current Issues in Pharmacy** IIUM Press . ISBN 9789674180195 , pp.196-214