

BASMA EZZAT MUSTAFA



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المؤهل العلمي

- Ph.D in Clinical Pharmacy & Advanced Clinical Biochemistry
- M.Sc in Laboratory Sciences
- Diploma in Clinical Biochemistry
- Bachelor in Pharmacology

مسؤوليات التدريس

BIOCHEMISTRY	2019/2020
Biochemistry	2012/2013 2013/2014 2014/2015 2015/2016 2017/2018 2018/2019
MICROBIOLOGY & IMMUNOLOGY	2017/2018 2018/2019 2019/2020
Microbiology & Immunology	2012/2013 2013/2014 2015/2016
PHARMACOLOGY	2017/2018 2018/2019 2019/2020
PHYSIOLOGY	2019/2020
Pharmacology	2012/2013 2013/2014 2015/2016
RESEARCH YEAR 4	2018/2019 2019/2020
Research Project	2013/2014 2015/2016 2017/2018 2018/2019

المشاريع البحثية

In Progress

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|-----------------------|--|
| 2019 - Present | Specific orthodontic tooth movement (OTM) biomarkers-related gene expression and hormonal changes induced by mechanical transduction on various mechanisms of orthodontic traction |
| 2019 - Present | Development, Characterization and Invitro Study of Flax Seed Oil Ointment for Wound Healing |
| 2018 - Present | Evaluation of antihypertensive mechanisms and pathways modulated by Szygium polyanthum leaves fraction: In vitro study. |

- 2017 - Present** Leptin Receptor Expression In The Brain Of Animal Model with Hypoperfusion-Induced Neurodegeneration
- 2016 - Present** Prospective study on response to treatment of patients with temporomandibular joint dysfunction: A Clinical Study
- 2016 - Present** Immunological, Histopathological and Gene Expression Changes Induced by Flax Seed Extract during Wound Healing Process
- 2016 - Present** Prospective study on response to treatment of patients with temporomandibular joint dysfunction: A Clinical Study
- 2016 - Present** Developmental dental defect among patients attending iium dental clinic Kuantan, Pahang
- 2015 - Present** Flax seed extract and its effect on WNT signaling pathway in the osteogenic differentiation potential of stem cells from human exfoliated deciduous teeth (SHED)

Completed

- 2016 - 2019** Prospective study on response to treatment of patients with temporomandibular joint dysfunction: A Clinical Study
- 2016 - 2019** Immunological, Histopathological and Gene Expression Changes Induced by Flax Seed Extract during Wound Healing Process
- 2016 - 2019** Developmental dental defect among patients attending iium dental clinic Kuantan, Pahang
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- 2016 - 2019** Immunological, Histopathological and Gene Expression Changes Induced by Flax Seed Extract during Wound Healing Process
- 2015 - 2020** Flax seed extract and its effect on WNT signaling pathway in the osteogenic differentiation potential of stem cells from human exfoliated deciduous teeth (SHED)
- 2014 - 2016** Evaluation Of Morphological Changes Of Apical Foramen And Apical Third Of Root After Using Rotary Instruments In Endodontic Treatments Using Computerized Tomography
- 2014 - 2016** Leptin Levels In Gingival Crevicular Fluid (GCF) During Orthodontic Tooth Movement And Gingival Healing
- 2011 - 2012** The Study of the Effect of Flax Seed on Candidal Growth in Vetro (Comparative Study)
- 2011 - 2013** Serum Leptin and Blood Pressure Variability After Exposure to Noise Stress at Workplace
- 2011 - 2013** (RU2011) Effect of Chitosan-based implant coating on bone healing

- 2011 - 2011** KVC Book Project 2011- Essential Laboratory Diagnosis for Dental Students
- 2011 - 2013** Hormonal, Biochemical and Histopathological effect of Eurycoma longifolia Jack extract on rat
- 2010 - 2013** The effect of inoculation of Candida albicans under acrylic and chrome- cobalt palatal , a comparative Microbiological study

المنشورات

Article

- 2020** [Potential antibacterial effects of flaxseed and Nigella sativa extracts on 11 streptococcus pyogenes.](#) International Journal of Orofacial and Health Sciences , 1 (1) pp.11-17
- 2020** [Potential effects of flaxseed \(Linum usitatissimum\) in tissue reparative processes: a mini review.](#) Journal of Biomedical and Clinical Sciences (JBCS) , 5 (1) pp.1-7
- 2019** [The effect of flaxseed extract on skin elasticity of the healing wound in rabbits.](#) The International Medical Journal Malaysia , 18 (1) pp.5-12
- 2019** [The antimicrobial effect of flax seed on pseudomonas aeruginosa.](#) World Journal of Pharmacy and Pharmaceutical Sciences , 8 (9) pp.629-642
- 2019** [The effect of flax seed extract on the blood glucose level and liver bio markers in diabetic rats.](#) World Journal of Pharmacy and Pharmaceutical Sciences , 8 (8) pp.780-798
- 2019** [The potential effect of different types of flaxseed \(Linum usitatissimum\) extract on the cell viability of oral fibroblasts human cell line.](#) International Journal of Allied Health Sciences (3: Special Issue: Research Towards Sustainable Development Goals) pp.829-829
- 2019** [Substantial effect of fenugreek seeds aqueous extract on serum estradiol level in ovarian hyperstimulation syndrome rat model.](#) Oman Medical Journal , 34 (3) pp.238-243
- 2018** [Evaluation of the salivary flow rate and pH in patients with recurrent oral ulcers.](#) International Medical Journal Malaysia , 17 (2) pp.49-56
- 2018** [Evaluation of bioactive compounds in different extracts of Linum usitatissimum and their antibacterial properties.](#) Makara Journal Health Research , 22 (3) pp.121-127
- 2018** [Linum usitatissimum as an antimicrobial agent and a potential natural healer: a review.](#) Archives of Orofacial Sciences , 13 (2) pp.55-62
- 2018** [A retrospective study on the prevalence of dry socket in patients who attended a polyclinic for extraction.](#) Journal of International Dental and Medical Research , 11 (2) pp.527-531
- 2018** [A prospective study on response to treatment of patients with temporomandibular dysfunction: A clinical study.](#) Journal of International Dental and Medical Research , 11 (2) pp.572-579

- 2018** [The effect of flaxseed extract on skin elasticity of the healing wound in rabbit.](#) Asian Journal of Medicine and Biomedicine , Supplementary 3 pp.109
- 2018** [The relationship between tooth loss, body mass index, and hypertension in postmenopausal female.](#) European Journal of Dentistry , 12 (1) pp.120-122
- 2018** [A pilot study on the use of biolase in the treatment of recurrent aphthous ulcer.](#) Brazilian Journal of Oral Sciences , 17
- 2018** [The antibacterial effect of flaxseed extract on selective oral pathogens - comparative in vitro study.](#) World Journal of Pharmacy and Pharmaceutical Sciences , 7 (11) pp.1-11
- 2018** [The anti-fungal effect of flax seed on oral candidiasis: comparative in-vitro study.](#) Journal of International Dental and Medical Research , 11 (2) pp.580-586
- 2018** [The effect of high cholesterol level on recurrence rate of oral ulcer.](#) Journal of Dental and Oral Health , 4 (2) pp.0109-1-6
- 2018** [Flaxseed ethanolic crude extract influences growth of stem cells from human exfoliated deciduous teeth \(SHED\).](#) Journal of International Dental and Medical Research , 11 (2) pp.643-649
- 2017** [The effect of flaxseed ethanolic extract on the structure of the kidney and the endocrine pancreas in streptozotocin induced diabetic rats.](#) Makara Journal of Health Research (MJHR) , 21 (3) pp.87-92
- 2017** [Effect of flaxseed extract on the liver histological structure in streptozotocin induced diabetic rats.](#) International Medical Journal Malaysia , 16 (1) pp.91-98
- 2017** [Saliva leptin levels in tooth movement during initial stage of orthodontic alignment: a pilot study.](#) Brazilian Journal of Oral Sciences , 16 pp.1-8
- 2017** [Changes in leptin in relation to increased testosterone levels associated with Eurycoma Longifolia Jack \(Tongkat Ali\) root extract consumption in male rats.](#) Journal of Young Pharmacists , 9 (1) pp.40-42
- 2016** [Effects of flaxseed extract on the viability of stem cells from human extracted deciduous teeth \(SHED\).](#) Frontiers in Bioengineering and Biotechnology pp.1-2
- 2016** [The effect of menopause on chronic periodontitis .](#) Journal of International Dental and Medical Research , 9 (1) pp.45-49
- 2015** [Assessment of haemoglobin level in patients with recurrent oral ulcer of a sample of Malaysian population.](#) Research & Reviews: Journal of Medical and Health Sciences , 4 (4) pp.9-12
- 2015** [The effect of chrome-cobalt and acrylic palatal plates on experimental denture stomatitis in Wistar rat.](#) Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology , 119 (3) pp.e126
- 2015** [Immunological Changes in Secondary Sjogran Syndrome \(Comparative Study\).](#) Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology , 119 (3) pp.e126
- 2015** [The effect of novel flax oil-based implant coating on bone healing process \(in vivo animal study\).](#) Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology , 119 (3) pp.e126

- 2014 [EPA-coated titanium implants promote osteoconduction in white New Zealand rabbits.](#) Clinical Oral Implants Research , 00 pp.1-7
- 2013 [The correlation between serum leptin and blood pressure after exposure to noise at work.](#) Noise & Health , 15 (67) pp.375-378
- 2013 [The effect of Eurycoma Longifolia Jack extract \(Tongkat Ali\) on serum leptin levels in male rats.](#) World Academy of Science, Engineering and Technology , 81 pp.747`-747
- 2013 [Histopathological effects of Eurycoma Longifolia jack extract \(tongkat ali\) on the prostate of rats .](#) Journal of Asian Scientific Research , 3 (8) pp.843-851
- 2012 [The use of intraoral camera in the assessment of students requirement \(work\).](#) European Journal of Scientific Research , 69 (4) pp.489-493
- 2012 [The relation between maternal serum leptin level and glucose in gestational diabetes and in normal pregnancy.](#) Innova Ciencia , 4 (8) pp.2-16
- 2012 [Histopathological evaluation of skin wound healing in rabbits treated by systemic dexamethasone.](#) Annals of Microscopy , 12 pp.27-33
- 2011 [Documentation of three sponge species belong to the family of Petrosiidae.](#) Australian Journal of Basic and Applied Sciences , 5 (12) pp.1047-1053
- 2009 [The relation between estrogen level, anti-Ro \(SSA\), anti-La \(SSB\) & secondary Sjogren's syndrome patients.](#) European Journal of Scientific Research , 31 (2) pp.184-187

Conference or Workshop Item

- 2019 [Experimental oral candidiasis in wistar rat model.](#) **In: International Conference and Exhibition on Dental Science and Oral Health**
- 2019 [Histopathological changes in rat model with oral candidiasis.](#) **In: 2nd World Congress on Dentistry and Oral Health / 2nd International Conference on Dentistry and Oral Health**
- 2019 [The effect of flaxseed extract on genes expression during wound healing process in rabbit.](#) **In: International Conference on Pharmaceutical Research and Pharmacy Practice cum 14th IIUM-MPS Pharmacy Scientific Conference (ICPRP 2019)**
- 2019 [Histopathological and microbiological study of experimentally induced oral candidiasis in wistar rat.](#) **In: Annual World of Dental and Oral Health Congress**
- 2019 [Effects of flaxseed extract on skin wound healing in animal model.](#) **In: International Conference on Pharmaceutical Research and Pharmacy Practice cum 14th IIUM-MPS Pharmacy Scientific Conference (ICPRP 2019)**
- 2019 [Effects of flaxseed \(Linum usitatissimum\) extract on osteoblast differentiation potential of stem cells derived from human exfoliated deciduous teeth \(SHED\).](#) **In: International Conference on Pharmaceutical Research and Pharmacy Practice cum 14th IIUM-MPS Pharmacy Scientific Conference (ICPRP 2019)**

- 2019 [The potential effect of different types of flaxseed \(linum usitatissimum\) extract on the cell viability of oral fibroblasts human cell line.](#) In: **Kuantan Research Day 2019 (KRD 2019)**
- 2019 [The effect of linum usitatissimum \(flax seed\) and nigella sativa oil on selected oral pathogen \(Comparative study\).](#) In: **2nd International Conference on Oral Microbiology and Oral Immunology**
- 2018 [The effect of flaxseed extraction on skin elasticity of the healing wound in rabbit.](#) In: **3rd ASEAN Congress on Medical Biotechnology and Molecular Biosciences**
- 2018 [Clinical assessment and morphological changes of minor salivary glands in patients with secondary Sjogren's Syndrome.](#) In: **International Congress of Dental and Oral Infections**
- 2018 [Linum usitatissimum antibacterial activity on Pseudomona Aerigenosa in-vitro study.](#) In: **The International Conference on Oral Immunology & Oral Microbiology (ICOIOM) 2018**
- 2018 [Accuracy of different dental age assessment methods to determine chronological age among Malay children.](#) In: **2nd International Conference on Statistics, Mathematics, Teaching, and Research 2017, ICSMTR 2017**
- 2017 [Study on flaxseed crude extract on stem cells from human exfoliated deciduous teeth \(SHED\).](#) In: **1st IIUM International Dental Conference 2017 in Commemoration of the Kulliyah of Dentistry 10th Anniversary (1st IIDC)**
- 2017 [The immunological response of wistar rats with oral candidiasis.](#) In: **BIT's 10th Annual World Congress of Vaccine (WCV-2017 Singapore)**
- 2017 [Identification and detection of bioactive compounds in Linum usitatissimum \(Flaxseed\) and its antibacterial properties against selected oral pathogens.](#) In: **6th International Conference on Advancement in Science and Technology (iCAST 2017)**
- 2016 [Assessment of cholesterol level in patients with recurrent oral ulcer.](#) In: **The 27th Annual Scientific Meeting South East Asia Association for Dental Education**
- 2016 [Saliva leptin levels in tooth movement during initial stage of orthodontic alignment : a pilot study.](#) In: **International Orthodontic Conference SLOS 2016**
- 2016 [Assessment of cholesterol level in dental clinic patients with recurrent oral ulcers.](#) In: **5th Dental Students Scientific Conference 2016**
- 2016 [Effects of flaxseed extract on the viability of stem cells from human exfoliated deciduous teeth.](#) In: **6th MTERMS (Malaysian Tissue Engineering and Regenerative Medicine Scientific Meeting) 2016 in conjunction with 2nd Malaysian Stem Cell Meeting**
- 2015 [Menopause and chronic periodontitis in females attending Polyclinic, Kulliyah of Dentistry, IIUM.](#) In: **7th National Dental Students' Scientific Conference (7th NDSSC) 2015**

- 2015 [Cytotoxic study of *Linum usitatissimum* and *Salvia officinallis* extracts on MCF-7 cell line \(comparative study\)](#) . In: **International Conference on Advancement in Science and Technology (iCAST 2015) - 'Frontiers in Biotechnology'**
- 2015 [The relation between hemoglobin and recurrent oral ulcer](#) . In: **International Anatomical and Biomedical Scientific Conference 2015**
- 2015 [Immunoexpression of TGF-b in giant cell tumour, central and peripheral giant cell lesions](#) . In: **FDI 2015 - Annual World Dental Congress**
- 2015 [Changes in leptin and testosterone hormones associated with *Eurycoma Longifolia* jack \(Tongkat ali\) root extract consumption in male rats](#) . In: **International Conference on Natural Products 2015**
- 2015 [Evaluation of the antifungal effect of *saliva officinalis* extract in vitro](#) . In: **International Anatomical and Biomedical Scientific Conference 2015 IABS 2015**
- 2014 [Dose related proliferative changes in the prostate of rats induced by *eurycoma longifolia* Jack \(Tongkat Ali\) extract](#) . In: **International Research Invention and Innovation Exhibition (IRIIE) 2014**
- 2014 [The effect of *eurycoma longifolia* jack root extract on serum lipids of rats](#) . In: **International Conference on Natural Products 2014**
- 2014 [The effect of *candida albicans* inoculation under acrylic and chrome- cobalt palatal plates \(comparative study\)](#) . In: **9th International Congress on Autoimmunity, Nice**
- 2013 [The effect of *Eurycoma Longifolia* Jack extract \(Tongkat Ali\) on serum leptin levels in male rats](#) . In: **ICBBS 2013 : International Conference on Biotechnology and Biological Sciences**
- 2013 [Histopathological study of the effect Of *Eurycoma longifolia* Jack \(Tongkat Ali\) extract on the prostate of rats](#) . In: **International Conference on Natural Products 2013 (ICNP 2013)**
- 2013 [Gender differences in fasting serum leptin level among Malaysian population](#) . In: **MRMC 3rd Malaysian Reproductive Medicine Congress**
- 2012 [The study of the anti fungal effect of flax seed in vitro \(Comparative study\)](#) . In: **IIUM Research, Invention and Innovation Exhibition, IRIIE 2012**
- 2011 [Histopathological evaluation of skin wound in rabbits treated by systemic dexamethasone](#) . In: **20th Scientific Conference of Microscopy Society of Malaysia & 21st Annual General Meeting**
- 2011 [Secondary Sjogrens syndrome, immunological and histopathological study in female](#) . In: **IIUM Research, Invention and Innovation Exhibition (IRIIE) 2011**
- 2011 [Oral health status and salivary IgA concentration and in type 1 diabetic patients](#) . In: **Diabetes Asia 2011**

Book

- 2018 [Leptin hormone changes in patients with poly cystic ovarian syndrome treated by aromatase inhibitors](#) . IIUM Press, International Islamic University Malaysia . ISBN 9789674189778

2018 [Clinical, laboratory histopathological and ultrastructural study of secondary sjogrens syndrome.](#) IIUM Press, International Islamic University Malaysia . ISBN 9789674189259

2017 [Clinical, laboratory histopathological and ultrastructural study of secondary sjogrens syndrome.](#) IIUM Press, International Islamic University Malaysia . ISBN 978-967-418-925-9

2017 [The relation between oral candidiasis and the type of denture base material in animal model.](#) IIUM Press, International Islamic University Malaysia . ISBN 978-967-418-740-8

Book Section

2011 [Thyroid function test.](#) In: **Essential Laboratory Investigations for Dental Students** IIUM Press . ISBN 9789674180409 , pp.37-43

2011 [Blood glucose test.](#) In: **Essential laboratory investigations for dental students** IIUM Press . ISBN 9789674180409 , pp.3-8