

# BASMA EZZAT MUSTAFA



- KULLIYAH OF DENTISTRY
- IIUM Kuantan Campus
- Email address:  
[drbasma@iium.edu.my](mailto:drbasma@iium.edu.my)

## KELAYAKAN AKADEMIK

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

## TANGGUNGJAWAB MENGAJAR

|                           |  |
|---------------------------|--|
| BIOCHEMISTRY              | 2019/2020 2020/2021  |
| Biochemistry              | 2012/2013 2013/2014 2014/2015 2015/2016<br>2017/2018 2018/2019 |
| MICROBIOLOGY & IMMUNOLOGY | 2017/2018 2018/2019 2019/2020 2020/2021                        |
| Microbiology & Immunology | 2012/2013 2013/2014 2015/2016                                  |
| PHARMACOLOGY              | 2017/2018 2018/2019 2019/2020 2020/2021                        |
| PHYSIOLOGY                | 2019/2020 2020/2021  |
| Pharmacology              | 2012/2013 2013/2014 2015/2016                                  |
| RESEARCH YEAR 4           | 2018/2019 2019/2020 2020/2021                                  |
| Research Project          | 2013/2014 2015/2016 2017/2018 2018/2019                        |

## PROJEK PENYELIDIKAN

### In Progress

- |                       |  |
|-----------------------|--|
| <b>2019 - Present</b> | Specific orthodontic tooth movement (OTM) biomarkers-related gene expression and hormonal changes induced by mechanical transduction on various mechanisms of orthodontic traction |
| <b>2019 - Present</b> | Development, Characterization and Invitro Study of Flax Seed Oil Ointment for Wound Healing  |
| <b>2018 - Present</b> | Evaluation of antihypertensive mechanisms and pathways modulated by Syzygium 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** Developmental dental defect among patients attending iium dental clinic Kuantan, Pahang

**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

**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)

**Unknown - Present** Immunomodulatory effect of Tualang Honey on oral wound healing in diabetic Wistar rats

### **Completed**

**2016 - 2019** Developmental dental defect among patients attending iium dental clinic Kuantan, Pahang

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**2016 - -1** Developmental dental defect among patients attending iium dental clinic Kuantan, Pahang

**2016 - 2019** Immunological, Histopathological and Gene Expression Changes Induced by Flax Seed Extract during Wound Healing Process

**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

**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 - 2013** Serum Leptin and Blood Pressure Variability After Exposure to Noise Stress at Workplace

**2011 - 2012** The Study of the Effect of Flax Seed on Candidal Growth in Vetro (Comparative Study)

- 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

## PENERBITAN

### Article

- 2020** [Flaxseed \(Linum usitatissimum\) extract activity on human oral fibroblasts \(HOrF\) cell line.](#) Annals of Dentistry University of Malaya , 27 (8) pp.50-54
- 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** [Histopathological changes of the flaxseed extract on skin wound healing in diabetic rabbits.](#) Open Access Macedonian Journal of Medical Sciences , 8 (A) pp.881-892
- 2020** [Amalgam management among clinical dental students a knowledge, attitude and practice \(KAP\) survey.](#) Journal of International Dental and Medical Research , 13 (3) pp.1003-1008
- 2020** [The relationship between the secretory IgA, pH and salivary flow rate with the occurrence of early childhood caries.](#) Journal of International Dental and Medical Research , 13 (4) pp.1455-1460
- 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** [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
- 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** [The effect of flaxseed extract on skin elasticity of the healing wound in rabbits.](#) The International Medical Journal Malaysia , 18 (1) pp.5-12

- 2018** [A pilot study on the use of biolase in the treatment of recurrent aphthous ulcer.](#) Brazilian Journal of Oral Sciences , 17
- 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
- 2018** [Linum usitatissimum as an antimicrobial agent and a potential natural healer: a review.](#) Archives of Orofacial Sciences , 13 (2) pp.55-62
- 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** [Evaluation of the salivary flow rate and pH in patients with recurrent oral ulcers.](#) International Medical Journal Malaysia , 17 (2) pp.49-56
- 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** [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** [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 relationship between tooth loss, body mass index, and hypertension in postmenopausal female.](#) European Journal of Dentistry , 12 (1) pp.120-122
- 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** [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 effect of high cholesterol level on recurrence rate of oral ulcer.](#) Journal of Dental and Oral Health , 4 (2) pp.0109-1-6
- 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** [Effect of flaxseed extract on the liver histological structure in streptozotocin induced diabetic rats.](#) International Medical Journal Malaysia , 16 (1) pp.91-98
- 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
- 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
- 2016** [The effect of menopause on chronic periodontitis .](#) Journal of International Dental and Medical Research , 9 (1) pp.45-49

- 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
- 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 Sjogren 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** [Histopathological effects of Eurycoma Longifolia jack extract \(tongkat ali\) on the prostate of rats .](#) *Journal of Asian Scientific Research* , 3 (8) pp.843-851
- 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** [The correlation between serum leptin and blood pressure after exposure to noise at work.](#) *Noise & Health* , 15 (67) pp.375-378
- 2012** [The use of intraoral camera in the assessment of students requirement \(work\).](#) *European Journal of Scientific Research* , 69 (4) pp.489-493
- 2012** [Histopathological evaluation of skin wound healing in rabbits treated by systemic dexamethasone.](#) *Annals of Microscopy* , 12 pp.27-33
- 2012** [The relation between maternal serum leptin level and glucose in gestational diabetes and in normal pregnancy.](#) *Innova Ciencia* , 4 (8) pp.2-16
- 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**

- 2020** [The relation between leptin hormone and orthodontic alignment.](#) **In: 8th Annual Congress on Dental Medicine and Orthodontics**
- 2019** [Histopathological and microbiological study of experimentally induced oral candidiasis in wistar rat.](#) **In: Annual World of Dental and Oral Health Congress**
- 2019** [Experimental oral candidiasis in wistar rat model.](#) **In: International Conference and Exhibition on Dental Science 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 [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 [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 \*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 [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**
- 2018 [Linum usitatissimum antibacterial activity on \*Pseudomona Aerigenosa\* in-vitro study.](#) In: **The International Conference on Oral Immunology & Oral Microbiology (ICOIOM) 2018**
- 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 [The effect of flaxseed extraction on skin elasticity of the healing wound in rabbit.](#) In: **3rd ASEAN Congress on Medical Biotechnology and Molecular Biosciences**
- 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)**
- 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)**

- 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**
- 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 [Assessment of cholesterol level in patients with recurrent oral ulcer.](#) In: **The 27th Annual Scientific Meeting South East Asia Association for Dental Education**
- 2015 [Immunoexpression of TGF- \$\beta\$  in giant cell tumour, central and peripheral giant cell lesions.](#) In: **FDI 2015 - Annual World Dental Congress**
- 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 [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**
- 2015 [Menopause and chronic periodontitis in females attending Polyclinic, Kulliyah of Dentistry, IIUM .](#) In: **7th National Dental Students' Scientific Conference (7th NDSSC) 2015**
- 2014 [The effect of candida albicans inoculation under acrylic and chrome- cobalt palatal plates \(comparative study\).](#) In: **9th International Congress on Autoimmunity, Nice**
- 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**
- 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 [Gender differences in fasting serum leptin level among Malaysian population.](#) In: **MRMC 3rd Malaysian Reproductive Medicine Congress**

- 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)**
- 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, laboratoy histopathological and ultrastructural study of secondary sjogrens syndrome.](#) IIUM Press, International Islamic University Malaysia . ISBN 9789674189259
- 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
- 2017 [Clinical, laboratory histopathological and ultrastructural study of secondary sjogrens syndrome.](#) IIUM Press, International Islamic University Malaysia . ISBN 978-967-418-925-9
- 2011 [Essential laboratory investigations for dental students.](#) IIUM Press . ISBN 9789674180409

#### **Book Section**

- 2011 [Blood glucose test.](#) In: **Essential laboratory investigations for dental students** IIUM Press . ISBN 9789674180409 , pp.3-8
- 2011 [Thyroid function test.](#) In: **Essential Laboratory Investigations for Dental Students** IIUM Press . ISBN 9789674180409 , pp.37-43