

## CURRICULUM VITAE



### **Dr. nor Hidayah Binti Abu Bakar** **Senior Lecturer**

Fakulti Perubatan, Kampus Perubatan, Universiti Sultan Zainal Abidin,  
Terengganu Darul Iman.

#### **Personal Information**

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<b>Email :</b>	norhidayahabubakar@unisza.edu.my
<b>Gender :</b>	Female
<b>D.O.B :</b>	02 January 1973
<b>Age :</b>	47
<b>Race :</b>	Malay
<b>Religion :</b>	Islam
<b>Current Scheme:</b>	VK07
<b>Started in UniSZA:</b>	01 April 2014
<b>Qualification :</b>	Sarjana Patologi Anatomic, <i>Universiti Sains Malaysia</i> , 2005.  Ijazah Sarjana Muda Sains Perubatan, <i>Universiti Sains Malaysia</i> , 1998.
<b>H-Index :</b>	[Scopus: 3][Google Scholar: 6]

#### **Area of Research**

Pathology (Cytology, Histology), addiction science

#### **Work Experience**

Anatomic Pathologist, Medical lecturer

#### **Administrative Responsibility**

1. Penyelaras (peperiksaan Pusat Pengajian Sains Asas Perubatan), Fakulti Perubatan, 01 Jan 2019 - 31 Dec 2020.

## Training

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## Publication

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### Journal Article

1. Thymoquinone: from Nigella Sativa to a Protective Pharmacological Compound in Managing Opioid Dependence and Amphetamine Type Stimulant Issues (2020), Iranian Journal of Basic Medical Sciences, pp. 849-852, ISSN: 2008-3866 [*Indexed by: ISI/Q3 - Co-author*]
2. Review Paper: Mdma and The Brain: a Short Review on The Role of Neurotransmitters in Neurotoxicity (2020), Basic and Clinical Neuroscience, pp. 381-388, ISSN: 2008126X [*Indexed by: Scopus - Main Author*]
3. Evaluation of Antidiabetic Activities of Etlingera Elatior Flower Aqueous Extract in Vitro and in Vivo (2020), Journal of Applied Pharmaceutical Science, pp. 43-51, ISSN: 22313354 [*Indexed by: Scopus - Co-author*]
4. Thymoquinone: from Nigellasativa to Aprotective Pharmacological Compound in Managing Opioid Dependence and Amphetamine Type Stimulant Issues (2020), Iranian Journal of Basic Medical Sciences, pp. 849-852, ISSN: 20083866 [*Indexed by: Scopus - Co-author*]
5. Mdma and The Brain: a Short Review on The Role of Neurotransmitters in Neurotoxicity (2020), Basic and Clinical Neuroscience, pp. 381-387, ISSN: 2008126X. [*Indexed by: Other Index - Co-author*]
6. Association of Sox2 Expression with Histopathological Factors of Invasive Breast Carcinoma in East Coast Malaysian Women. (2020), International Medical Journal, pp. 401-409, ISSN: 13412051 [*Indexed by: Other Index - Main Author*]
7. Synergistic Effect of Flavonoids from Artocarpus Heterophyllus Heartwoods on Anticancer Activity of Cisplatin Against H460 and McF-7 Cell Lines (2019), Natural Product Sciences, pp. 311-316, ISSN: 12263907 [*Indexed by: Scopus - Co-author*]
8. Aqueous Extract of Etlingera Elatior Flowers Improved Blood Glucose Control, Kidney Function and Histology of Streptozotocin-Induced Diabetic Rat (2019), Journal of Sustainability Science and Management, pp. 80-91, ISSN: 18238556 [*Indexed by: Scopus - Main Author*]
9. Sox6, S Ox13 and S Ox9 Expression Pattern in Meningioma in East Coast Malaysia (2019), Asian Journal of Medicine and Biomedicine, pp. 1-6, ISSN: 2600-8173 [*Indexed by: Other Index - Co-author*]
10. Anxiolytic Effects of Thymoquinone in The Rats Exposed to Mdma (2019), International Medical Journal, pp. 13, ISSN: 13412051 [*Indexed by: Other Index - Co-author*]
11. Morphological Evaluation of Aortic Vessel in Spontaneously Hypertensive Rat (shr) Models (2019), Annals of Microscopy, pp. 5-10, ISSN: 0219-2209 [*Indexed by: Other Index - Main*]

**Author]**

12. Histological and Ultrastructural Alterations in Diabetic Rats Kidney: Sub-Chronic Study (2019), *Annals of Microscopy*, pp. 11-20, ISSN: 0219-2209 [*Indexed by: Other Index - Main Author*]
13. A Review on Opioid Dependence, Mechanism and Treatments Used: Option of Treatments: Modern Versus Alternative Medicine (2019), *Bangladesh Journal of Medical Science*, pp. 171-177, ISSN: 22234721 [*Indexed by: ISI - Co-author*]
14. Determination of Sox9 Gene Expression in Brain Tumours Among East Coast Malaysia Population (2019), *International Medical Journal of Malaysia*, pp. 39-46, ISSN: 18234631 [*Indexed by: ISI - Co-author*]
15. Holistic Psycho-Spiritual Approach to Enhance The Effectiveness of Methadone Maintenance Therapy (mmt) (2018), *Research Journal of Pharmacy and Technology*, pp. 1316-1318, ISSN: 1316-1318 [*Indexed by: Scopus - Co-author*]
16. Attenuation of Morphine-Induced Camp Overshoot by Thymoquinone in Opioid Receptor Expressing Cells (u87 Mg) Mediated by Chronic Morphine Treatment (2018), *Journal of Engineering and Applied Sciences*, pp. 8906-8911, ISSN: 1816949X [*Indexed by: Scopus - Co-author*]
17. Effects of Zamzam Water and Methadone on The Expression of Mu-Opioid Receptor-1 Gene in Morphine-Dependent Rats After Chronic Morphine Administration (2018), *African Journal of Traditional, Complementary and Alternative Medicine*, pp. 19-25, ISSN: 0189-6016 [*Indexed by: Other Index - Co-author*]
18. Nigella Sativa Effects on Neurotransmitter Systems: Potential Treatment for Drug Tolerance and Dependence (2018), *International Journal of Pharmaceutical Research & Allied Sciences.*, pp. 196-200, ISSN: 2277-3657 [*Indexed by: Other Index - Main Author*]
19. Protective Effects of Thymoquinone on The Mdma Induced Cerebrospinal Fluid Serotonin Depletion in Rats (2018), *Transylvanian Review*, pp. 7599-7606, ISSN: 1221-1249 [*Indexed by: Other Index - Co-author*]
20. Mesoblastic Nephroma: a Case Report (2018), *Research Journal of Pharmacy and Technology*, pp. 3871-3873, ISSN: 0974-3618 [*Indexed by: Other Index - Co-author*]
21. The Effects of Mdma on Brain: an in Vivo Study in Rats (2018), *International Journal of Pharmaceutical Research & Allied Sciences*, pp. 126-137, ISSN: 2277-3657 [*Indexed by: ISI - Main Author*]
22. Honey Potentially Mitigate Morphine Analgesic Tolerance and Physical Dependence in Rats (2018), *Bangladesh Journal of Medical Science*, pp. 138-143, ISSN: 2223-4721 [*Indexed by: ISI - Co-author*]
23. Potential Therapeutic Effects of Thymoquinone on Treatment of Amphetamine Abuse (2018), *Asian Pacific Journal of Tropical Biomedicine*, pp. 187-188, ISSN: 22211691 [*Indexed by: ISI - Main Author*]
24. The Emerging Roles of Trpv4 in Cancer (2017), *Biomedical and Pharmacology Journal*, pp. 1757-1764, ISSN: 0974-6242 [*Indexed by: Scopus - Co-author*]
25. Distribution Pattern of Brain Tumour in a Tertiary Hospital in East Coast, Malaysia (2017), *Malaysian Journal of Public Health Medicine*, pp. 41-48, ISSN: 1675-0306 [*Indexed by: Scopus - Co-author*]
26. Potential Use of Cerebrospinal Fluid Serotonin Level as a Marker of Neuronal Injury After Exposure to 3, 4-Methylenedioxymethamphetamine (2017), *Journal of Applied Pharmaceutical Science*, pp. 252-253, ISSN: 22313354 [*Indexed by: Scopus - Main Author*]
27. Effects of Zamzam Water Alone or in Combination with Methadone on Attenuation of Spontaneous Withdrawal Symptoms in Morphine-Dependent Rats: a Behavioural Study (2017), *Advanced Science Letters*, pp. 4492-4495, ISSN: 19366612 [*Indexed by: Scopus -*

**Co-author]**

28. Effect of Tualang (apis Dorsata) Honey on Development of Morphine Tolerance in Rats (2017), *Electronic Journal of Biology*, pp. 80-85, ISSN: 1860-3122 [*Indexed by: Other Index - Co-author]*
29. Role of Zamzam Water as a Vital Mineral Supplement in The Treatment of Opioid Dependence and Tolerance: a Review (2016), *Research Journal of Pharmacy and Technology*, pp. 957-963., ISSN: 0974-360X [*Indexed by: Other Index - Co-author]*
30. The Effect of Thymoquinone on Concentration of Human Mu-Opioid Receptors Mediated by Chronic Morphine Treatment in Opioid Receptor Expressing Cell (u87 Mg) (2016), *Acta Bioethica*, pp. 1086-1095, ISSN: 0717-5906 [*Indexed by: Other Index - Co-author]*
31. Zamzam Water: Influence of Containers on Ionic Concentration and In-Vitro Cytotoxic Effects on U87 Cell Line (2016), *Malaysian Journal of Applied Sciences*, pp. 68-72, ISSN: 0127-9246 [*Indexed by: Other Index - Co-author]*
32. Non-Toxic Antiproliferative Effect of Ficus Carica Fruit Extracts on Estrogen Receptor Positive Breast Cancer Cell (mcf-7) (2015), *Journal of Chemical and Pharmaceutical Research*, 2015,, pp. 815-821, ISSN: 0975-7384 [*Indexed by: Scopus - Co-author]*
33. Role of Oxidative Stress in Opiate Withdrawal and Dependence: Exploring The Potential Use of Honey (2015), *Journal of Applied Pharmaceutical Science*, pp. 159-161, ISSN: 22313354 [*Indexed by: Scopus - Main Author]*
34. Reviews on Calcium Mediated Secondary Messengers in Chronic Opioids Exposure/addiction (2015), *Journal of Applied Pharmaceutical Science*, pp. 114-119, ISSN: 22313354 [*Indexed by: Scopus - Co-author]*
35. Phoenix Dactylifera Linn as a Potential Novel Anti-Oxidant in Treating Major Opioid Toxicity (2015), *Journal of Applied Pharmaceutical Science*, pp. 167-172, ISSN: 22313354 [*Indexed by: Scopus - Main Author]*
36. Analgesic Effect of Honey Bioactive Compounds and Its Role in Reducing Morphine Tolerance (2015), *Journal of Applied Pharmaceutical Science*, pp. 146-150, ISSN: 22313354 [*Indexed by: Scopus - Co-author]*
37. A Review on Medicinal Properties of Nigella Sativa Linn and Its Role in Opioid Addiction (2015), *Journal of Medicine and Medical Sciences*, pp. 1-5, ISSN: 2354-323X [*Indexed by: Other Index - Co-author]*
38. Opiate Dependence and Withdrawal: Role of Oxidative Stress in Opiate Regulations (2015), *Bangladesh Journal of Medical Science*, pp. 215-216, ISSN: 22234721 [*Indexed by: ISI - Co-author]*
39. Opioid Dependence and Substitution Therapy: Thymoquinone as Potential Novel Supplement Therapy for Better Outcome for Methadone Maintenance Therapy Substitution Therapy (2014), *Iranian Journal of Basic Medical Sciences*, pp. 926-928, ISSN: 20083866 [*Indexed by: ISIQ4 - Co-author]*
40. Post Millennium Preference of Substance Abuse Among Teenagers: Fast and Furious (2014), *Journal of Applied Pharmaceutical Science*, pp. 131-132, ISSN: 22313354 [*Indexed by: Scopus - Co-author]*

**Book**

1. Introduction to Physiology of Thermoregulation (2020), BookRix GmbH & Co. KG, ISBN: 978-3-7487-6476-2 - **Co-author**

**Chapter in Book**



1. Bingkisan Kisah Dari Pengalaman Sebenar, Terapi Penggantian Metadon (2014), Penerbit Universiti Sultan Zainal Abidin , pp. 97-110, ISBN: 978-983-9842-86-9 - **Co-author**
2. Opioid dan Implikasi Terhadap Pembangunan Insaniah, Terapi Penggantian Metadon (2014), Penerbit Universiti Sultan Zainal Abidin , pp. 41-48, ISBN: 978-983-9842-86-9 - **Co-author**
3. Ketagihan dan Sejarah Kewujudan Dalam Sejarah Tamadun Manusia, Terapi Penggantian Metadon (2014), Penerbit Universiti Sultan Zainal Abidin , pp. 21-30, ISBN: 978-983-9842-86-9 - **Co-author**

## **Conference Proceedings**

1. Effects of Thymoquinone on Neurotoxic Rats Induced by 3,4-Methylenedioxymethamphetamine (2019), Persidangan Nusantara Ke-3, Isu-Isu Perubatan Menurut Perspektif Islam, The Zenith Hotel, Kuantan, Pahang - **Co-author**
2. Thymoquinone Effects on Dopamine Level and Lactate Dehydrogenase Activity in Differentiated Sh-Sy5y Cells Exposed to Amphetamine (2019), Persidangan Nusantara Ke-3, Isu-Isu Perubatan Menurut Perspektif Islam, The Zenith Hotel, Kuantan, Pahang - **Main Author**
3. Prophetic Medicine in Substance Abuse Therapy: an Updated Review on The Roles of Thymoquinone in Opioid Dependence and Amphetamine Type Stimulant Issues (2019), 3rd Nusantara Conferences 2019 on Medical Issues from Islamic Perspective, Sultan Ahmad Shah International Convention Centre, Hotel Zenith, Kuantan, Pahang - **Co-author**
4. Assessment of Trpv4 Ion Channel and Its Role in Colorectal Cancer Cells (2018), 3rd International Conference on Molecular Diagnostics & Biomarker Discovery 2018, Eureka Complex, Universiti Sains Malaysia Penang, Malaysia - **Co-author**
5. Principles of Psychospiritual Intervention in Addiction Therapy: an Islamic Perspective. (2016), International Drug Prevention and Rehabilitation Conference 2016 (prevent 2016), Royal Malaysian Police College, Kuala Lumpur, Malaysia - **Co-author**
6. Congenital Mesoblastic Nephroma: a Case Report (2016), Special Asian Oceanic Society of Paediatric Radiology (aospr) Congress 2016, Borneo Convention Centre, Kuching, Sarawak - **Co-author**
7. Non-Toxic Antiproliferative Effect of Ficus Carica Extracts on Oestrogens Receptor Breast Cancer Cell Line (2015), 6th Regional Conference on Molecular Medicine in Conjunction with The 2nd National Conference for Cancer Research, Sunway Putra Hotel, Kuala Lumpur - **Co-author**

## **Research Grant**

### **Principal Investigator**

1. Deciphering The Role of Sox2 Gene in Breast Cancer in Malaysian Population., Skim Geran Penyelidikan Fundamental - Frgs, Government (2015), **Grant Value: RM189,200**

### **Co-Researcher**

1. Elucidating The Clinical Role of Circulating Tumour Dna (ctdna) Quantification for Early Prediction of Breast Cancer Recurrence, Skim Geran Penyelidikan Fundamental - Frgs, Government (2020), Grant Value: **RM173,550**
2. Elucidating The Mechanistic Pathways of Gfat1 and Chk1 in Colorectal Carcinoma, Skim Geran Penyelidikan Fundamental - Frgs, Government (2019), Grant Value: **RM166,000**
3. Neuroprotective Effects of Thymoquinone on 3, 4 Methylendioxyamphetamine (mdma or Ecstasy)-Induced Rat Model, Skim Geran Penyelidikan Fundamental - Frgs, Government (2018), Grant Value: **RM181,200**
4. The Elucidation of Fibrillar Protein Structure for Analysis of Amyloid Diseases for a Rapid Diagnosis Approaches by Thz Spectroscopy, Skim Geran Penyelidikan Fundamental - Frgs, External - Government (2018), Grant Value: **RM83,200**
5. Effect of Artocarpin on Suppression of Cancer Stem-Like Phenotypes Through Pkc-Mediated  $\beta$ -Catenin Degradation and Anti-Migration Capability of Lung Cancer Cells, Skim Geran Penyelidikan Fundamental - Frgs, Government (2017), Grant Value: **RM100,000**
6. An Intelligent Dispensing Machine (i-Dispenser), Geran Dalaman Universiti, University (2017), Grant Value: **RM30,000**
7. Immunohistochemistry Analysis of Sex Steroid Receptors and Their Transcription Factors in Colorectal Cancer, Geran Dalaman Universiti, University (2017), Grant Value: **RM20,000**
8. Unravelling The Role of Transient Receptor Potential Vanilloid 4 (trpv4) and Its Therapeutic Potential in Human Colorectal Cancer Cells, Skim Geran Penyelidikan Fundamental - Frgs, Government (2016), Grant Value: **RM117,200**
9. Therapeutic Effect of Oral Kantan (etlingera Elatior) Flower Aqueous Extract on Streptozotocin-Induced Diabetic Rat, Geran Dalaman Universiti, University (2016), Grant Value: **RM20,000**
10. Identification of Thymoquinone as a Supplement for Opioid Substitution Therapy in Morphine Dependent Rats, Skim Geran Penyelidikan Fundamental - Frgs, Government (2014), Grant Value: **RM114,500**
11. The Effect of Bioactive Compound in Honey Towards Morphine Tolerance in Morphine Dependent Rat Model, Frgs, Government (2014), Grant Value: **RM100,000**
12. Pembangunan Modul Itgm Bagi Pengekalan Pemulihan Penagihan Opiat, Skim Geran Penyelidikan Nic - Nrgs, Government (2013), Grant Value: **RM2,500,000**
13. Identification of Unknown Hplc Peaks for The Manifestation of Free Alpha-Haemoglobin: Towards Clinical Biomarker of Beta-Thalassaemias in Malaysia., Frgs, Government (2013), Grant Value: **RM146,000**

## Postgraduate Student

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### *Main Supervision*

1. [MASTER] Nik Armiza Bt Mat Rashid, Malaysia, - **Ongoing**
2. [MASTER] Zubair Rufai Umar, Nigeria, - **Completed**
3. [MASTER] Fatin Haniza Binti Zakaria, Malaysia, - **Completed**
4. [MASTER] Nurul Farah Aina Binti Md Fauzi, Malaysia, - **Completed**

### *Co Supervision*

1. [MASTER] Marwan Bin Mohamad, Malaysia, - **Completed**
2. [PhD] Nor Asiah Bt Muhamad Nor, UNIVERSITI SAINS MALAYSIA, (External Supervision) - **Completed**
3. [PhD] Nurul Syahida Binti Ramli, UNIVERSITI SAINS MALAYSIA, (External Supervision) - **Completed**

## Awards

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1. Gold Achievement Ria 2019 (2019), I-Dispenser, Research & Innovation Award 2019 - **Member**
2. Bronze Medal Anugerah Harta Intelek Negara 2018 (2018), Automated Liquid Drug Dispenser, Anugerah Harta Intelek Negara 2018 Kategori Paten - **Member**
3. Bronze Medal Anugerah Harta Intelek Negara 2018 (2018), Automated Liquid Drug Dispenser, Anugerah Harta Intelek Negara 2018 (kategori Paten) - **Member**
4. Silver Medal Mte 2018 (2018), Nuzadone : a Combination of Functional Food for Methadone Maintenance Therapy Program Client, Malaysia Technology Expo 2018 - **Member**
5. Gold Medal Mte 2018 (2018), I-Dispenser: an Intelligent Dispensing Machine, Malaysia Technology Expo 2018 - **Member**
6. Pingat Emas Konvensyen Team Excellence Wilayah Pantai Timur (2017), I-Dispenser, Konvensyen Team Excellence Wilayah Pantai Timur - **Member**
7. Johan Keseluruhan Konvensyen Inovasi Kreatif (kik) Peringkat Universiti Awam Ke-13 (2017), I-Dispenser, Konvensyen Inovasi Kreatif (kik) Peringkat Universiti Awam Ke-13 - **Member**
8. Gold Medal Siif 2017 (2017), I-Dispenser : an Intelligent Dispensing Machine, Seoul International Invention Fair (siif) 2017 - **Member**
9. Special Award Siif 2017 (2017), I-Dispenser : an Intelligent Dispensing Machine, Seoul International Invention Fair (siif) 2017 - **Member**
10. Gold Medal Pecipta 2017 (2017), Methadone Dispensing Technology (meditech) (i-Dispenser), Pecipta 2017 - **Member**
11. Gold Medal Mpi 2016 (2016), I-Dispenser, Mpi 2016 - **Member**
12. Gold Medal Mpi (2016), I-Tgm Module for Opiate Dependenceamong Methadonemaintenance Therapy (mmt) Clients, Mpi 2016 - **Member**
13. Silver Medal Mpi 2016 (2016), Nuzadone, Mpi 2016 - **Member**
14. Gold Itex 2016 (2016), I-Dispenser, Itex 2016 - **Member**

## Intellectual Property

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1. I-Nutrisi (2018), Trade Mark - **Co-owner**
2. I-Tgm (2018), Trade Mark - **Co-owner**
3. Nuzadone (2018), Copyright - **Co-owner**
4. Nuzadone (2018), Trade Mark - **Co-owner**
5. Automated Liquid Drug Dispenser (2017), Patent - Filed - **Co-owner**

## Professional Membership

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1. Member, Life Member of International Academy of Pathology, 2017-2030
2. Member, Member of Microscopy Society Malaysia, 2018-2020

## Academic Ecosystem

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1. Member, Life Member - Persatuan Alumni Doktor Usm (padu), 2020-2030
2. Expert/pakar Rujuk, Perkhidmatan Pakar Patologi, Hospital Sultanah Nur Zahirah, 2017-2021
3. Expert/pakar Rujuk, Panel Tanyadoktor.com, 2020-2020
4. Participant, Participant - Evenchise E-Book Store, 2020-2020
5. Examiner, Examiner for Master Thesis, Universiti Islam Antarabangsa Malaysia, 2020-2020
6. Reviewer, Reviewer - Malaysian Journal of Medicine and Health Science, 2020-2020
7. Reviewer, Manuscript Reviewer - Advancement in Medicinal Plant Research (id: Ampr-201-021), 2019-2019
8. Judge/jury/evaluator, Panel Penilai Pembentangan Lisan Icas 2018, 2018-2018

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