

## CURRICULUM VITAE



No.	Information
1.	<p><b>Name:</b> Zalina Zahari</p> <p>Address: Faculty of Pharmacy, Universiti Sultan Zainal Abidin (UniSZA), Besut Campus, 22200 Besut, Terengganu, Malaysia</p> <p>E-mail: zalinazahari@unisza.edu.my,</p>
2.	<p><b>Academic Qualifications:</b></p> <p><b>A. Qualifications</b> (Name of Awarding Institution and Country, year of award):</p> <ul style="list-style-type: none"> <li>i. BSc Pharmacy (Hons) (University of Strathclyde, Glasgow, Scotland, 1999)</li> <li>ii. MSc (Pharmacology) (Universiti Sains Malaysia, Kelantan, Malaysia, 2009)</li> <li>iii. PhD (Universiti Sains Malaysia, Kelantan, Malaysia, 2017)</li> </ul> <p><b>B. Field(s) of Specialization:</b></p> <ul style="list-style-type: none"> <li>i. Pharmacogenetics</li> <li>ii. Pharmacology</li> </ul>
3.	<p><b>Current Professional Membership:</b></p> <ul style="list-style-type: none"> <li>i. Malaysian Pharmaceutical Society</li> <li>ii. Genetic Society of Malaysia</li> </ul>
4.	<p><b>Current Teaching And Administrative Responsibilities:</b></p> <p><b>A. Current Teaching:</b></p> <ul style="list-style-type: none"> <li>i. Lecturer, PHM 10602 Pharmaceutical Microbiology &amp; Sterile Preparations, Bachelor of Pharmacy (Hons) – Faculty of Pharmacy, Universiti Sultan Zainal Abidin (UniSZA) – Semester II Academic Session 2019/2020, 4 lectures, 27 students</li> <li>ii. Lecturer, PHM 10802 Physical Pharmacy, Bachelor of Pharmacy (Hons) – Faculty of Pharmacy, Universiti Sultan Zainal Abidin (UniSZA) – Semester II Academic Session 2019/2020, 4 lectures, 27 students</li> <li>iii. Course Coordinator and Lecturer, PHM 10902 Human Anatomy &amp; Physiology II, Bachelor of Pharmacy (Hons) – Faculty of Pharmacy, Universiti Sultan Zainal Abidin (UniSZA) – Semester II Academic Session 2019/2020, 7 lectures, 27 students</li> <li>iv. Course Coordinator and Lecturer, PHM 10303 General &amp; Peripheral Nervous System Pharmacology, Bachelor of Pharmacy (Hons) – Faculty of Pharmacy, Universiti Sultan Zainal Abidin (UniSZA) – Semester I Academic Session 2019/2020, 6 lectures, 27 students</li> </ul>

- v. Course Coordinator and Lecturer, PHM 10402 Human Anatomy & Physiology I, Bachelor of Pharmacy (Hons) – Faculty of Pharmacy, Universiti Sultan Zainal Abidin (UniSZA) – Semester I Academic Session 2019/2020, 5 lectures, 27 students
- vi. Course Coordinator and Lecturer, NDD 31002 Basic Pharmacology, Bachelor of Nutrition Science (Hons) and Bachelor of Dietetics (Hons) - Faculty of Health Sciences, Universiti Sultan Zainal Abidin (UniSZA) – Semester II Academic Session 2018/2019, 4 lectures, 55 students
- vii. Course Coordinator and Lecturer, DBB 20503 Basic Pharmacology, Bachelor of Biomedical Science (Honours) - Faculty of Health Sciences, Universiti Sultan Zainal Abidin (UniSZA) – Semester II Academic Session 2018/2019, 4 lectures, 29 students
- viii. Lecturer, DBB 30803 Toxicology, Bachelor of Biomedical Science (Honours) - Faculty of Health Sciences, Universiti Sultan Zainal Abidin (UniSZA) – Semester II Academic Session 2018/2019, 5 lectures, 22 students
- ix. Lecturer, NDD 20202 Basic Pathophysiology, Bachelor of Nutrition Science (Hons) and Bachelor of Dietetics (Hons) - Faculty of Health Sciences, Universiti Sultan Zainal Abidin (UniSZA) – Semester I Academic Session 2018/2019, 6 lectures, 57 students
- x. Lecturer, DBB 30503 Laboratory Animal Science, Bachelor of Biomedical Science (Honours) - Faculty of Health Sciences, Universiti Sultan Zainal Abidin (UniSZA) – Semester I Academic Session 2018/2019, 5 lectures, 22 students
- xi. Course Coordinator and Lecturer, DBB 30403 Research Methodology, Bachelor of Biomedical Science (Honours) - Faculty of Health Sciences, Universiti Sultan Zainal Abidin (UniSZA) – Semester I Academic Session 2018/2019, 4 lectures, 22 students
- xii. Lecturer, DBB 20403 Basic Pathology, Bachelor of Biomedical Science (Honours) - Faculty of Health Sciences, Universiti Sultan Zainal Abidin (UniSZA) – Semester I Academic Session 2018/2019, 4 lectures, 29 students
- xiii. Lecturer, DBL 11103 Basic Pathology, Diploma in Medical Laboratory Technology - Faculty of Health Sciences, Universiti Sultan Zainal Abidin (UniSZA) – Semester I Academic Session 2018/2019, 4 lectures, 21 students
- xiv. Course Coordinator and Lecturer, NDD 31002 Basic Pharmacology, Bachelor of Nutrition Science (Hons) and Bachelor of Dietetics (Hons) - Faculty of Health Sciences, Universiti Sultan Zainal Abidin (UniSZA) – Semester II Academic Session 2017/2018, 4 lectures, 86 students
- xv. Course Coordinator and Lecturer, DBB 20503 Basic Pharmacology, Bachelor of Biomedical Science (Honours) - Faculty of Health Sciences, Universiti Sultan Zainal Abidin (UniSZA) – Semester II Academic Session 2017/2018, 7 lectures, 22 students

**B. Administrative Responsibilities:**

- i. Deputy Dean (Academic & Graduate), Faculty of Pharmacy, Universiti Sultan Zainal Abidin (UniSZA), 15 June 2020 – 14 June 2022.
- ii. Deputy Dean (Research & Development), Faculty of Pharmacy, Universiti Sultan Zainal Abidin (UniSZA), 15 Disember 2019 – 14 June 2020.

	iii. Penyelaras Program Ijazah Sarjana Muda Farmasi (Kepujian), Fakulti Farmasi bermula 02 Mei 2018 – 01 Mei 2020.
<b>5.</b>	<b>Previous Employment:</b> (Position held/ employer/year of service (start – end))
	i. Hospital Pharmacist, Hospital Universiti Sains Malaysia, Kelantan, Malaysia, 2001-9/2017
<b>6.</b>	<b>Research and Publications:</b>
	<b>A. Research:</b>
	<ul style="list-style-type: none"> <li>i. 'Co-Investigator', "Mechanism of metabolic syndrome: The role of adiponectin and resistin single nucleotide polymorphisms (SNPs)", Universiti Sultan Zainal Abidin (UniSZA) (Prof. Madya Dr. Mohd Shazli Bin Draman @ Yusof, Mohd Khairi Bin Zahri @ Johari, Dr. Mohd Nizam Bin Zahary, Dr. Azizul Fadzli Bin Wan Jusoh @ Ab Rahim, Dr. Rosliza Binti Yahaya, Prof. Rusli Ismail, Prof. Dr. Marian Ludgate, Dr. Lei Zhang), (Fundamental Research Grant Schemel (FRGS), FRGS/1/2019/SKK08/UNISZA/02/4), 2019 – now (RM 184,361)</li> <li>ii. Co-Investigator, "Kelulut Honey as an Alternate Source of Carbo-loading for ERAS: A Prospective Randomised Double Blind Control Trial", Universiti Sains Malaysia (Prof. Madya Dr. Andee Dzulkarnaen Zakaria, Dr. B. Karthik Krishnan a/l Balakrishnan), 2019 – now</li> <li>iii. Co-Investigator, "Overcoming the effect of drug addiction", Geran Penyelidikan Translational <i>Malaysia Research University Network</i> (MRUN) (Dr Mohd Sayuti Ab Karim, Dr Rusdi Abd Rashid, Dr Mahanom Jalil, Assoc Prof Dr Farazila Yusof, Dr Siti Nurmaya Musa, Assoc Prof Ir. Dr Bushroa Abd Razak, Dr Noor Azizi Mardi, Mohd Fadzil Jamaludin, Dr Farhana Sabri, Dr Amin Al-Haadi Shafii, Dr Dini Farhana Baharuddin, Dr Nurulhuda Mat Hassan, Dr Zainuddin Zakaria, Dr Zul Ariff Abdul Latiff), 2019 – kini (RM 460,000)</li> <li>iv. Co-Investigator, "Prevalence &amp; factors associated with poor sleep quality among pregnant women in KKIA Bandar Seri Putra", Dana Fundamental PPUKM Universiti Kebangsaan Malaysia (UKM) (Dr Majmin Sheikh Hamzah, Dr Ani Amelia Zainuddin, Dr Ezura Madiana Md Monoto, Dr Suriani Sulaiman), 2018 – kini (RM 830.30)</li> <li>v. Principle Investigator, "An investigation of genetic polymorphisms of genes associated with irritable bowel syndrome (IBS) and functional dyspepsia (FD)" Internal Grant Universiti Sultan Zainal Abidin (UniSZA) (Mohd Khairi Bin Zahri @ Johari, Dr Mulham Alfatama, Prof Ab Fatah Bin Haji Ab Rahman), 2018 – kini (RM 21,000)</li> <li>vi. Co-Investigator, "Chitosan derivatives blended alginate nanoparticles loaded into alginate beads as oral insulin carrier", Internal Grant Universiti Sultan Zainal Abidin (UniSZA) (Dr Mulham Alfatama, Prof. Dr Abd Manaf bin Ali), 2018 – kini (RM 30,000)</li> <li>vii. Co-Investigator, "Genotyping frequencies of polymorphic genes KCNH2, CYP2D6 and CYP3A4 among Kurd for individualized medicine</li> </ul>

	intervention”, Hawler Medical University, Iraq (Dr Muslih Abdul Karim Ibrahim, Dr Khoo Boon Yin, Nurfadhlina Musa), 2017 – now
viii.	PhD. (Molecular Medicine), ‘A pharmacogenetics study on acute pain perception among patients on Methadone Maintenance Therapy (MMT)’, 2017
ix.	Co-Investigator, “The effect of perceived stress score and quality of sleep on the biochemical parameters in type 2 diabetes mellitus Malaysian patients”, International Islamic University Malaysia (IIUM) - Kuantan Campus (May Khin Soe, Mohamad. Sharul Fahmi B. Baharudin), 2016 – now
x.	Co-Investigator, “Allele and Genotype Frequencies of Polymorphic KCNH2 Gene among Kurd Individuals”, Hawler Medical University, Iraq (Dr Muslih Abdul Karim Ibrahim, Dr Khoo Boon Yin, Nurfadhlina Musa), 2015 – 2016 (RM 20,000)
xi.	Co-Investigator, ‘A study of pain perception in opiate-dependent subjects receiving Methadone Maintenance Therapy (MMT)’, 2013-2016
xii.	Co-Investigator, ‘Pharmacogenetics and pharmacokinetics of methadone in chronic cancer pain’, Short Term Research Grant-USM, 2013
xiii.	Co-Investigator, ‘A study of cancer pain and its treatment in Hospital Universiti Sains Malaysia’, Incentive Grant-USM, 2012
xiv.	Principle Investigator, ‘Duplication of Oxycodone Prescriptions at Pharmacy Department, Hospital Universiti Sains Malaysia’, Incentive Grant-USM, 2010
xv.	Unblinded Pharmacist, ‘A Prospective, Randomised Trial Comparing the Safety, Tolerability, and Efficacy of Voriconazole and Anidulafungin in combination to That of Voriconazole Alone When Used for Primary Therapy of Invasive Aspergillosis in Pediatric Subjects Aged 2 to 17 Years’, Clinical Study Protocol A1501095 (Cerexa), Hospital USM, 2010- 2012
xvi.	Team member, ‘Study of Clopidogrel Usage’, Department of Pharmacy, HUSM, 2009
xvii.	Unblinded Pharmacist, ‘A Randomised Controlled Trial on the Effectiveness of Combination Tramadol/Paracetamol and Combination Codeine Phosphate/Paracetamol as Early Analgesia at Triage Counter for Moderate Pain’, Emergency Department, HUSM, Dr. Rashidi Ahmad, Dr. Kamarul Aryffin Baharuddin, Dr. Ida Zarina Zaini, Short term Grant, 2008- 2015
xviii.	Unblinded Pharmacist, ‘The Efficacy of IV Parecoxib Sodium As An Analgesic Alternative to Morphine in Acute Traumatic Pain: A Randomised Clinical Trial’, Emergency Department, HUSM, Dr. Kamarul Aryffin Baharuddin, Short term Grant, 2008- 2011
xix.	Unblinded Pharmacist, ‘A Phase 3, Multicenter, Randomized, Double-blind, Comparative Study to Evaluate the Safety and Efficacy of Ceftaroline versus Ceftriaxone, with Adjunctive Clarithromycin, in the Treatment of Adult Subjects with Community-Acquired Pneumonia (CAP)’, Clinical Study Protocol P903-08 (Cerexa), Hospital USM, 2008

- xx. Unblinded Pharmacist, 'A Multicenter, Double-blind, Randomized, Parallel-group Evaluation of LAMICTAL Extended-release Adjunctive Therapy in Subjects with Primary Generalized Tonic-Clonic Seizures', Clinical Study Protocol LAM100036 (GlaxoSmithKline) di Hospital USM, 2006-2009
- xxi. MSc. (Pharmacology), 'Influence of *CYP2D6* and *DRD2* Polymorphisms on Clinical Outcomes of Patients with Schizophrenia', 2009

**B. Publications:**

- i. Ibrahim MA, Zahari Z, Musa N, Khoo BY. Genetic Polymorphisms of CYP2D6: Prevalence in Healthy Kurds. *Curr Pharmacogenomics Person Med* 2020;17:40-7.
- ii. Dellemin NA, Zahari Z, Ahmad Hassali MA, Abdul Rashid S. A cross sectional study on assessing the knowledge, attitude and perception towards allergic reactions of paracetamol in Malaysia. *Pak. J. Pharm. Sci* 2020;33:1057-61.
- iii. Ibrahim NS, Che Abdullah D, Zahari Z, Abdul Aziz N, Omar M, Hassan Y. Intermittent Infusion Versus Continuous Infusion of Vancomycin in Intensive Care Unit. *International Medical Journal* 2020 Feb;27(1):36-40.
- iv. Tan PG, Ab. Hadi IS, Zahari Z, Yahya MM, Wan Zain WZ, Wong MP, Ramely R, Md Hashim MN, Syed Abd. Aziz SH, Zakaria Z, Zakaria AD. Predictors of early postoperative hypocalcemia after total parathyroidectomy in renal hyperparathyroidism. *Ann Surg Treat Res.* 2020 Jan;98(1):1-6.
- v. Zahari Z, Ibrahim MA, Lee CS, Musa N, Tan SC, Mohamad N, Ismail R. Comparison of QTc Interval between Opioid Dependent Patients on Methadone Maintenance Therapy (MMT) and Opioid Naive Individuals. *Int Med J.* 2019;26(2):96-100.
- vi. Zahari Z, Lee CS, Ibrahim MA, Musa N, Mohd Yasin MA, Lee YY, Tan SC, Mohamad N, Ismail R. Polymorphisms in the Dopamine Receptor D2 (*DRD2*) Gene and Cold Pressor Pain Sensitivity. *Int Med J.* 2019;26(2):86-95.
- vii. Wong MP-K, Zahari Z, Abdullah MS, Ramely R, Md Hashim MN, Zakaria Z, Zakaria AD. Postoperative major surgery patients developing silent deep vein thrombosis: A prospective observational study. *Journal of Vascular Nursing.* 2018;36(4):173-80.
- viii. Zahari Z, Lee CS, Lee YY, Tan SC, Mohamad N, Ismail R. Cold-pressor pain responses in healthy opioid-naive males of Malay ethnicity. *Int Med J.* 2018;25(5):296-98.
- ix. Ibrahim MA, Zahari Z, Derani Z, Musa N, Boon Yin K. Comparison of the prevalence of four coding polymorphisms of *KCNH2* in healthy Kurds and Malays. *Merit Res. J. Med. Med. Sci.* (2018) 6: 219-27.
- x. Zahari Z, Ibrahim MA, Musa N, Tan SC, Mohamad N, Ismail R. Sleep quality and *OPRM1* polymorphisms: a cross-sectional study among opioid-naive individuals. *Brazilian Journal of Pharmaceutical Sciences.* 2018;54.
- xi. Zahari Z, Lee CS, Ibrahim MA, Musa N, Mohd Yasin MA, Lee YY, Tan SC, Mohamad N, Ismail R. *CYP2D6* Gene Polymorphisms and Cold Pressor Pain Sensitivity among Malay Males. *Int Med J.* 2018;25(3):157-62.
- xii. Zahari, Z., Lee, C., Ibrahim, M.A, Musa, N., Mohd Yasin, M.A., Lee, Y., Tan, S., Mohamad, N., Ismail, R. (2018). Relationship between serum

	methadone concentration and cold pressor pain sensitivity in patients undergoing methadone maintenance therapy. <i>Iranian Journal of Pharmaceutical Research</i> , 17(Special Issue), 8-16.
xiii.	Nagaya D, Zahari Z, Saleem M, Yahaya BH, Tan SC and Yusoff NM. An analysis of genetic association in opioid dependence susceptibility. <i>Journal of Clinical Pharmacy and Therapeutics</i> , 2018 Feb;43(1):80-86.
xiv.	Zahari, Z., Lee, C. S., Ibrahim, M. A., Musa, N., Mohd Yasin, M. A., Lee, Y. Y., Tan, S. C., Mohamad, N. & Ismail, R. (2017). Relationship between ABCB1 polymorphisms and cold pain sensitivity among healthy opioid-naive Malay males. <i>Pain Practice</i> , 17, 930-940.
xv.	Nagaya D, Zahari Z, Saleem M, Yahaya BH, Tan SC and Yusoff NM. An analysis of genetic association in opioid dependence susceptibility (2017). <i>Journal of Clinical Pharmacy and Therapeutics</i> , Version of Record online: 27 JUNE 2017, DOI: 10.1111/jcpt.12585.
xvi.	Zahari, Z., Lee, C. S., Ibrahim, M. A., Musa, N., Mohd Yasin, M. A., Lee, Y. Y., Tan, S. C., Mohamad, N. & Ismail, R. (2017). ABCB1 Polymorphisms and Cold Pressor Pain Responses: Opioid-Dependent Patients on Methadone Maintenance Therapy. <i>Nurs Res</i> , 66(2), 134-144.
xvii.	Zahari, Z., Ibrahim, M. A., Tan, S. C., Mohamad, N. & Ismail, R. (2016). Sleep quality in opioid-naive and opioid-dependent patients on methadone maintenance therapy in Malaysia. <i>Turk J Med Sci</i> , 46(6), 1743-1748.
xviii.	Zahari, Z., Lee, C. S., Mohamad, N., Musa, N., Mohd Yasin, M. A., Tan, S. C., Haque, M. & Ismail, R. (2016). Association between perceived sleep disorders and sleep-related factors among patients on methadone maintenance therapy (MMT) in Malaysia. <i>Int Med J</i> , <b>23(2)</b> , 134-37.
xix.	Zahari, Z., Lee, C. S., Ibrahim, M. A., Musa, N., Mohd Yasin, M. A., Lee, Y. Y., Tan, S. C., Mohamad, N. & Ismail, R. (2016). Relationship between CYP2B6*6 and cold pressor pain sensitivity in opioid dependent patients on methadone maintenance therapy (MMT). <i>Drug Alcohol Depend</i> , <b>165</b> , 143-50.
xx.	Zahari, Z., Lee, C. S., Lee, Y. Y., Ibrahim, M. A., Musa, N., Mohd Yasin, M. A., Tan, S. C., Mohamad, N. & Ismail, R. (2016). 118A>G and IVS2+691G>C polymorphisms of OPRM1 gene have no influence on cold-pain sensitivity among healthy opioid-naive Malay males. <i>Int J Pharm Pharm Sci</i> , <b>8(7)</b> , 73-80.
xxi.	Zahari, Z., Lee, C. S., Ibrahim, M. A., Musa, N., Mohd Yasin, M. A., Lee, Y. Y., Tan, S. C., Mohamad, N. & Ismail, R. (2016). Relationship between ABCB1 polymorphisms and serum methadone concentration in patients undergoing methadone maintenance therapy (MMT). <i>Am J Drug Alcohol Abuse</i> , 1-10.
xxii.	Zahari Z, Siong LC, Musa N, Mohd Yasin MA, Choon TS, Mohamad N, Ismail R. Report: Demographic profiles and sleep quality among patients on methadone maintenance therapy (MMT) in Malaysia. <i>Pak J Pharm Sci</i> 2016;29:239-246.
xxiii.	Zahari Z, Lee CS, Ibrahim MA, Musa N, Yasin MA, Lee YY, Tan SC, Mohamad N, Ismail R. Comparison of Pain Tolerance between Opioid

	Dependent Patients on Methadone Maintenance Therapy (MMT) and Opioid Naive Individuals. <i>J Pharm Pharm Sci</i> 2016;19:127-136.
xxiv.	Zahari Z, Lee CS, Ibrahim MA, Musa N, Mohd Yasin MA, Lee YY, Tan SC, Mohamad N, Ismail R. The AC/AG Diplotype for the 118A>G and IVS2 + 691G>C Polymorphisms of OPRM1 Gene is Associated with Sleep Quality Among Opioid-Dependent Patients on Methadone Maintenance Therapy. <i>Pain Ther</i> 2016;5:43-54.
xxv.	Zahari Z, Lee CS, Tan SC, Mohamad N, Lee YY, Ismail R. Relationship between cold pressor pain-sensitivity and sleep quality in opioid-dependent males on methadone treatment. <i>PeerJ</i> 2015;3:e839.
xxvi.	Zahari Z, Lee CS, Ibrahim MA, Musa N, Yasin MA, Lee YY, Tan SC, Mohamad N, Ismail R. The Opposing Roles of IVS2+691 CC Genotype and AC/AG Diplotype of 118A>G and IVS2+691G>C of OPRM1 Polymorphisms in Cold Pain Tolerance Among Opioid-Dependent Malay Males on Methadone Therapy. <i>Pain Ther</i> 2015;4:179-196.
xxvii.	Zahari Z, Ismail R. Influence of Cytochrome P450, Family 2, Subfamily D, Polypeptide 6 (CYP2D6) polymorphisms on pain sensitivity and clinical response to weak opioid analgesics. <i>Drug Metab Pharmacokinet</i> 2014;29:29-43.
xxviii.	Zahari Z, Ismail R. Impact of Opioid Receptor, Mu 1 (OPRM1) Polymorphisms on Pain Sensitivity and Clinical Response to Opioid Analgesic Therapy. <i>Current Pharmacogenomics and Personalized Medicine</i> 2013;11:59-75.
xxix.	Zahari Z. Assessing Prescribing Error at Pharmacy Department of Hospital Universiti Sains Malaysia: A Focus on Oxycodone Prescribing. <i>International Medical Journal</i> 2012;19:292-294.
xxx.	Zahari Z, Teh LK, Ismail R, Razali SM. Influence of DRD2 polymorphisms on the clinical outcomes of patients with schizophrenia. <i>Psychiatr Genet</i> 2011;21:183-189.
xxxi.	Zahari Z, Salleh MR, Zahri Johari MK, Musa N, Ismail R. A Nested Allele-Specific Multiplex Polymerase Chain Reaction Method for the Detection of DRD2 Polymorphisms. <i>Malays J Med Sci</i> 2011;18:44-57.
xxxii.	Zahari Z. Duplication of oxycodone prescriptions at Pharmacy Department, Hospital Universiti Sains Malaysia (HUSM). <i>International Journal of Pharmacy and Pharmaceutical Sciences</i> 2011;3:67-69.
xxxiii.	Zahari Z. Non-standard drugs requests reviews: Role of pharmacist at research and drug information unit (RDIU), hospital universiti sains Malaysia (HUSM). <i>Asian Journal of Pharmaceutical and Clinical Research</i> 2011;4, Suppl 2,:37-39.
xxxiv.	Zahari Z, Salleh MR, Teh LK, Ismail R. Influence of CYP2D6 polymorphisms on symptomatology and side-effects of patients with schizophrenia in Malaysia. <i>Malays J Med Sci</i> 2009;16:12-20.
xxxv.	Salleh MR, Zahari Z, Teh LK, Ismail R. Genomics revolution in contemporary psychiatric practices. <i>International Medical Journal</i> 2005;12:117-123.