

## CURRICULUM VITAE: DR. BAHARUDIN IBRAHIM



### 1. PERSONAL BIODATA

Name : Associate Professor Dr. Baharudin Ibrahim  
Nationality : Malaysian  
Current Position : Program Chair of Clinical Pharmacy (Since 2019)  
Program Chair of Social & Administrative Pharmacy (Since 2020)  
Previous Position : Coordinator Master of Pharmacy (Clinical Pharmacy) (2016-2017)  
Program Chair of Clinical, Social and Administrative Pharmacy (2017-2018)  
Field of specialization : Clinical Pharmacy  
of : Precision medicine & metabolomics  
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: ba\_ha\_din@yahoo.com

### 2. ACADEMIC QUALIFICATIONS

#### (a) **Doctor of Philosophy (PhD in Respiratory Medicine)**

Title 'Exhaled **breath analysis for diagnosis and phenotyping in obstructive lung diseases**'

2007-2011, University of Manchester, Manchester, UK.

Core skills developed:

- Physiological testing including lung function, bronchial challenge, sputum induction and cough challenge
- Techniques of collecting breath and exhaled breath condensate
- Using software such as LabView, Varian NMR, DOSY Toolbox, AMDIS and Markerlynx for data mining and processing
- Multivariate statistical analysis and regression modelling
- Collaboration with companies and other research teams, presentation skills, time management and teamwork

#### (b) **Master of Clinical Pharmacy - CGPA 3.78**

2006-2007, Universiti Sains Malaysia, Penang, Malaysia.

- Dissertation – ‘**Evaluation of asthma knowledge and management among rural adult patients in a Malaysian district hospital**’
- Acquired training in clinical settings, patient management and research.
- Awarded a Book Prize by Merck Sharp & Dohme for Best Student in Master of Clinical Pharmacy 2006/2007

**(c) Bachelor of Pharmacy (Hons) - CGPA 3.08**

2001-2005, Universiti Sains Malaysia, Penang, Malaysia.

- Modules included medicinal chemistry, physiology, mathematics and statistics, physical pharmacy, pharmacy practice and clinical pharmacy.
- Included in the Dean’s List for academic achievements

### **3. RESEARCH INTERESTS**

Clinical pharmacy, personalised/precision medicine, metabolomics, pharmacometabonomis, genomics, pharmacogenomics, multivariate data analysis and chemometrics.

### **4. RESEARCH GRANTS**

**(a) On-going Grants**

1. Determination of Modulatory Mechanism of Rosmarinic Acid on the Biosynthesis of A Novel Antibiotic Phomopsidione by Endophytic Diaporthe fraxini ED2 via Metabolomics Study. Fundamental Research Grant Scheme. 01/19 – 12/21. Co-Investigator. RM 120,000.00
2. Optimization of Clozapine Therapy Among Schizophrenia Patient Using Pharmacokinetic-Pharmacodynamic Modelling: An Integration of Pharmacogenomics, Pharmacometabonomics and Pharmacometrics Approach. Bridging (Khas). 01/20 – 12/20. Co-Investigator. RM 25,000.00
3. An evaluation of Penang community pharmacists and Penang consumers’ perception towards the implementation of zoning of community pharmacy. Malaysian Pharmaceutical Society. 09/20 – 08/22. Principal Investigator. RM 5,000.00
4. An Evaluation of Home Pharmacy Asthma Care (HOM-PAC) Programme Among Asthma Patients from Kulim Hospital, Kedah, Malaysia. Research University Grant. 10/18 - 12/21. Co-Investigator. RM 69,000.00.

**(b) Completed Grants**

1. Nuclear Magnetic Resonance Spectroscopic Fingerprinting For Evaluation Of Gentamicin Induced Nephrotoxicity. Research University Grant. 01/15 – 02/18. Principal Investigator. RM 196,000.00.
2. Research & Development in Oil Palm Phenolics "OPP" as a Preventive Agent in Type 2 Diabetes and its Modulating Effects in Uncontrolled Insulin Treated Type 2 Diabetes Mellitus": Pharmacometabonomics (OPP3). Type : Malaysia Palm Oil Berhad. 11/14 – 05/14. Principal Investigator. RM 195,000.00.
3. Lung And Colon Cancer Identification Based On Volatile Organic Compounds (Vocs) Analysis. FRGS. 12/14 – 11/16. Co-Investigator. RM 106,000.00.

4. Application Of Urine Metabolomics In Monitoring The Efficacy Of Eurycoma longifolia Jack (Tongkat Ali) On Sperm Characteristics Of Male Rats. Research University Grant 07/12 – 12/15. Principal Investigator. RM 190,280.00.
5. Development and validation of a questionnaire for evaluation of knowledge and adherence to asthma guidelines among general practitioners (GPs) and community pharmacists (CPs).USM Incentive Grant. 06/12 – 06/13. Principal Investigator. RM 5000.00.
6. Screening and Medication Review among Older Residents at Silver Jubilee Home for the Aged. USM Division of Industry & Community Network Grant. 12/11 – 12/12. Co-Investigator. RM16,493.00.
7. Is Organic Produce Really Organic? An Analytical Procedure To Verify Organic Labeling And Certification. Bridging Khas (University). Co-Investigator. RM25.000.00.

#### 4. POSTGRADUATE SUPERVISION

##### a) Graduated

###### Master

1. Hamza Mohamed Amin Mostafa. Metabolomics analysis of blood and Urine to identify alcohol-dependence biomarkers. **Main supervisor**. 2015.
2. Seow Eng Keng. Characterization and analysis of amino acids in capsule products by GCMS for authenticity assessment. **Co-supervisor**. 2015.
3. Abdulkader Bawadikji. Pharmacometabonomics of warfarin among atrial fibrillation (AF) patients. **Main supervisor**. 2016.

###### PhD

1. Ali Yousif Nori. Impact of erectile dysfunction on cardioprotective medication use among ischemic heart disease outpatients in Penang General Hospital. **Main supervisor**. 2015.
2. Yelly Oktavia Sari. Evaluation of clinical of the administration of IV drugs and total parenteral nutrition (TPN) and development of database to identify compatibility of drug-drug and drug-TPN in neonates. **Co-supervisor**. 2016.
3. Arwa Mohamed Amin Mostafa. The clopidogrel response assessment in Coronary Artery Disease (CAD) patients using pharmacometabonomics, pharmacogenomics and platelets function testing (PFT). **Main supervisor**. 2016.
4. Forough Ebrahimi. Application of NMR-Based metabolomics for the phytochemical analysis of eurycoma longifolia extracts and their effects on rat urinary and plasma metabolites. **Co-supervisor**. 2016.
5. Fatimatuzzahra' Binti Abd. Aziz. Predicting Gentamicin Induced Nephrotoxicity Using Pharmacometabonomic Approach. **Main supervisor**. 2019
6. Sha'Aban Abubakar. Identification of Low Molecular Weight Metabolites that can Predict Low Dose Aspirin Induced Gastric Toxicity and Resistance in Rats and Stable Coronary Artery Disease Patients using NMR-based Pharmacometabonomics. **Main supervisor**. 2019

## **MPharm Dissertation**

1. Ahmed Adel Mohamed Mohamed. Evaluation of knowledge, practice and adherence to asthma guidelines among general practitioners (GPs) and community pharmacists (CPs) in the State of Penang, Malaysia. Graduated 2013. **Master in Clinical Pharmacy.**
2. Alaa Ibraheem Lazim. Application of urine metabolomics in asthma diagnosis. Graduated 2013. **Master in Clinical Pharmacy.**
3. Tang Kai Lun. Medication error in general Pediatric Ward at Hospital Pulau Pinang. Graduated 2013. **Master in Clinical Pharmacy.**
4. Saravanapriya A/P Thillaivanam. An evaluation on the effectiveness of the McIsaac scoring rules in the management of children diagnosed with sore throat in Pediatric General Ward, Hospital Kulim. Graduated 2013. **Master in Clinical Pharmacy.**
5. Sui Chee Fai. Screening for potential COPD in outpatient pharmacy and retail pharmacy. Graduated 2014. **Master in Clinical Pharmacy.**
6. Ooh Poh Ling. E-prescription interventions by pharmacists in inpatient pharmacy At Hospital Sultan Abdul Halim. Graduated 2015. **Master in Clinical Pharmacy.**
7. Ng See Yee. The Prevalence And Risk Factor Of Depression Among Paediatric Thalassaemia Patients In Sultanah Bahiyah Hospital. Graduated 2015. **Master in Clinical Pharmacy.**
8. Sugendiren Segeren. A Retrospective study of Prescribing Pattern between Symbicort and MDI Budesonide with MDI Salbutamol in Moderate-Severe Adult Asthmatic in Hospital Putrajaya. Graduated 2016. **Master in Clinical Pharmacy.**
9. James Voo Yau Hon. Impact of Knowledge, Attitude and Practice among Malaysian Parents towards Childhood Immunization Status (KAP-CIM). Graduated 2017. **Master in Clinical Pharmacy.**
10. Alvin Jong Chok Leong, Association between Parental Asthma Knowledge and Perception with their children asthma symptoms and control. Graduated 2018. **Master in Clinical Pharmacy.**
11. Mujahid Hussain. A survey to explore energy drink consumption and associated factors among USM students. Graduated 2019. **Master in Clinical Pharmacy.**

## **b) Ongoing**

### **Master**

1. Kashvintha A/p Nagarajan. Metabolites profiling of Endophytic Diaporthe fraxini ED2 via NMR- based metabolomics. **Co-supervisor.** Graduating 2021.
2. Al Al-sari Zahraa Husam Hamid. Clinical Pharmacy. **Co-supervisor.** Graduating 2020.

### **PhD**

1. Mohammed Ahmed Imran Ak Kaif. Pharmacogenomics and Pharmacometabonomics of Clozapine Treatment. **Main Supervisor.** Graduating 2022.
2. Abdulkader Ahmad Bawadikji. Identification of Novel Metabolic Fingerprints to Predict Diabetic among Atorvastatin in Patients with Heart Diseases by Using Pharmacometabonomics Technique. **Main Supervisor.** Graduating 2021.
3. Albitar Orwa. Development of Pharmacokinetic and Pharmacodynamics Model of Clozapine in Psychiatric Patients. **Co-supervisor.** Graduating 2021.
4. Jairoun Ammar. Medication error identification and reporting rate and their Knowledge, Attitude and Practice among medical students and healthcare professionals in UAE 2018: a cross sectional study. Sim Xuan Yi. Time Course Study Of Protein And Lipid Profile In T2dm (Type 2 Diabetics Mellitus) Rats Models Upon High Calorie Food Intake, **Co-Supervisor.** Graduating 2020.
5. Sim Xuan Yi. Time Course Study Of Protein And Lipid Profile In T2dm (Type 2 Diabetics Mellitus) Rats Models Upon High Calorie Food Intake. **Co-Supervisor.** Graduating 2020.
6. Jaya Muneswarao Ramadoo@Devudu. The Outcome And Cost-Effectiveness Of Implementing Asthma Model Of Care (AMC) In The Chest Clinic Of Kulim Hospital: An Integrated Care Approach. **Co-Supervisor.** Graduating 2020.
7. Al Jaber Farah Mejbek Jebur. Detection the effectiveness of Antioxidants (vitamin E, Fe and Zn) for asthma patients. **Main Supervisor.** Graduating 2023.
8. Elhefnawy Marwa Elsaeed Abdelhamid. Pharmacometrics disease progression modelling in stroke among patients with type 2 diabetes mellitus. **Co-Supervisor.** Graduating 2023.
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## **5. UNDERGRADUATE SUPERVISION**

1. Cheong Boo Chian. Industrial Training/Practicum/Community Case Study-UTM. 2018.
2. Vigneswari Ramasamy. Final year project. 2017.
3. Aizat Hafifi Hafriz bin Ahmad Sabri. Final year project. 2016.
4. Noran Nagdy Abdelaty Zahran. International attachment. Qatar. 2015.
5. Amal Mohamed Khalil. International attachment. Qatar. 2015.

## **6. TEACHING/PRACTICUM**

1. Ethnic Relations (SHE 101). Course Coordinator.
2. Medical Clerkship. Course Coordinator.
3. Sterile preparations (TPN) clerkship 3<sup>rd</sup> year and 4<sup>th</sup> year – Course Coordinator.
4. Pediatric clerkship (Undergraduate and MPharm). Course Coordinator.
5. Metabolism and Endocrine System (FAR 242).
6. Gastrointestinal System and Therapy (FAR 343).
7. Hospital Pharmacy Practice (FAR 455).
8. Applied Therapeutics II (FAR 454). Course Coordinator.
9. Pharmacotherapy III (FCP 553).
10. Pharmacotherapy V (FCP 557).
11. Research & Dissertation (FEL 508).
12. Applied Therapeutics I (FAR 453).
13. Pharmacotherapy I (FCP 551).

14. Clinical Pharmacy Practice (FCP 554). Course Coordinator.
15. Pharmacy Practice (FAR 351).
16. Communication Skills in Pharmacy Practice (FAR 153).
17. Community Pharmacy Practice (FAR 456).
18. Clinical Pharmacy Practice (FCP 558).
19. Biostatistics and Research Design (FCP 559). Course Coordinator.
20. Clinical Pharmacokinetics (FCP 560).
21. Pharmacogenomics (FAR 459)
22. Hospital Pharmacy (FAR 461)
23. Clinical Pharmacokinetics (FCP560)

## **7. RESEARCH PUBLICATIONS**

1. Shafie AA, Hassali MA, **Ibrahim B**, Hassali JB. Evaluation of asthma knowledge and management among rural adult patients in a Malaysian district hospital. *International Journal of Pharmacy Practice*. 2008;16 (Supp 2). B10.
2. Marsden PA, **Ibrahim B**, Woodcock AA, Fowler SJ, Smith JA. Cough Frequency and Measures of Quality of Life in Asthma. *Am J Resp Crit Care Med* 2009; 179:A5758. (**ISI IF: 11.99**)
3. Marsden PA, **Ibrahim B**, Woodcock AA, Fowler SJ, Smith JA. Cough and Disease Control in Asthma. *Am J Resp Crit Care Med* 2009; 179:A5757. (**ISI IF: 11.99**)
4. Marsden PA, **Ibrahim B**, Yates L, Woodcock A, Fowler SJ, Smith JA. Cough, Airway Inflammation and Asthma Control. *Thorax* 2009; 64: A15-A16. (**ISI IF: 8.56**)
5. **Ibrahim B**, Marsden P, Morris J, Smith J, Custovic A, Nilsson M, Fowler SJ. NMR Spectroscopy of Exhaled Breath Condensate in the Diagnosis of Asthma: Validation and Reproducibility. *European Respiratory Journal* 2010;A1271:227S. (**ISI IF: 7.13**)
6. **Ibrahim B**, Basanta M, Cadden P, Morris M, Singh D, Woodcock A, Fowler SJ. Breath analysis for discriminating and phenotyping COPD and asthma. *European Respiratory Journal* 2010;A3841:684S (**ISI IF: 7.13**)
7. **Ibrahim B**, Basanta M, Cadden P, et al. Metabolomics Of Breath Volatile Organic Compounds For The Diagnosis And Inflammatory Phenotyping Of Adult Asthma. *Am J Respir Crit Care Med* 2010;181:A4266. (ISI IF: 11.99)
8. **Ibrahim B**, Marsden P, Morris J, et al. Metabolomic Analysis Of Exhaled Breath Condensate By NMR Spectroscopy Discriminates Inflammatory Phenotypes In Asthma. *Am J Respir Crit Care Med* 2010;181:A3725. (ISI IF: 11.99)
9. **Ibrahim B**, Basanta M, Dockry R, et al. Exhaled Volatile Organic Compounds As Potential Biomarkers In Chronic Obstructive Pulmonary Disease. *Am J Respir Crit Care Med* 2010;181:A1012. (**ISI IF: 11.99**)
10. **Ibrahim B**, Basanta M, Cadden P, Singh D, Douce D, Woodcock A, Fowler SJ. Non-invasive phenotyping using exhaled volatile organic compounds in asthma. *Thorax* 2011;66:804-809. (**ISI IF: 10.31**)
11. M Basanta, **B Ibrahim**, D Douce, M Morris, A woodcock and S J Fowler. Methodology validation, intra-subject reproducibility and stability of exhaled volatile organic compounds. *J. Breath Res.* 2012;6(2). (**ISI IF: 3.59**)
12. M Basanta, **B Ibrahim**, R Dockry, D Douce, M Morris, D Singh, A Woodcock and SJ Fowler. Exhaled volatile organic compounds for phenotyping chronic obstructive pulmonary disease; a cross-sectional study. *Respiratory Research* 2012;13(1);72. (**ISI IF: 3.83**)

13. YO Sari, MB Bahari, **B. Ibrahim**. Clinical Review of Total Parenteral Nutrition use among Pediatrics: Critics and Outcomes. *International Journal of Pharmacy and Life Sciences* 2013;4(4):2521-2529.
14. **B. Ibrahim**, P. Marsden, JA. Smith, A. Custovic, M. Nilsson, SJ. Fowler. Breath Metabolomic Profiling by Nuclear Magnetic Resonance Spectroscopy in Asthma. *Allergy* 2013 Aug;68(8). (ISI IF: 6.77)
15. YO Sari, MB Bahari, **B. Ibrahim**. Clinical characteristics and socio-demographic differences of Total Parenteral Nutrition (TPN ) practices in a Neonatal Intensive Care Unit (NICU). *International Journal of Food, Nutrition and Public Health* 2013;6(2).
16. Zakaria AD, Khan AH, Hadi MA, **Ibrahim B**. Metastasis of Sigmoid Colon Cancer to the Breast and Uterus: A Case-Study. *Trop Med Surg* 2013;1:118.
17. Arwa M. Amin, **Baharudin Ibrahim**, Azmi Sarriff. Acyclovir Induced Acute Kidney Injury In Acute Meningitis Patient: A Case Report Highlights the Concurrence Of AKI Risk Factors And The Neutropenic Effect Of Ticlopidine. *IOSR Journal Of Pharmacy* 2014;4(10):58-62
18. Ali Y. Nori, Muhamad S.A.K. Ali, **Baharudin Ibrahim**, Rahmat Awang, M. Azmi Hassali. Modifying the Morisky Medication Adherence Scale by Adapting Two Items from the Brief Medication Questionnaire to Fit Assessing the Overall Adherence to Polypharmacy Regimen of Cardiac Patients. *Global Heart*, 2014;9(1S):e313.
19. Hamza Mohamed Amin Mostafa, Arwa Mohamed Amin Mostafa, Nor Hayati Arif, Chin-Hoe Teh, Vikneswaran Murugaiyah, **Baharudin Ibrahim**. Metabolomic Analysis of Blood and Urine to identify Alcohol-Dependence Biomarkers. *The Medical Journal of Penang Hospital* 2014 (Supp).
20. Abdulkader Ahmad Bawadikji, Forough Ebrahimi, Muhamad Ali Sheikh Abdul Kader, Omar Ismail, Syed Azhar Syed Sulaiman, **Baharudin Ibrahim**. Differentiation Of Plasma Metabolite Profiles Of The Patients On Warfarin With Stable And Unstable International Normalized Ratio. *The Medical Journal of Penang Hospital* 2014 (Supp).
21. Abdulkader Ahmad Bawadikji, Forough Ebrahimi, Muhamad Ali Sheikh Abdul Kader, Omar Ismail, Syed Azhar Syed Sulaiman, **Baharudin Ibrahim**. Identification Of Plasma Metabolites To Predict Warfarin Response Based On International Normalized Ratio. *Asean Heart Journal* 2014 Special Edition
22. **B. Ibrahim**, SAS Sulaiman, AA Bawadikji. Metabolomics and pharmacometabonomics approaches for diagnosis of diseases and predicting drug response. *Malaysian Journal of Pharmacy* 2014;1 (11).
23. A. Nori, **B. Ibrahim**, M.A. Sheikh Abdul Kader, M.A. Ahmad Hassali, R. Awang. Prevalence and evaluation of erectile dysfunction in the practice of the specialized cardiology clinic in Northern Malaysia. *European Heart Journal* 2014;35:881S (ISI IF: 14.72)
24. Abdulkader Ahmad Bawadikji, Syed Azhar Syed Sulaiman, Ahmad Zainuddin Yunus, Muhamad Ali Bin Sheikh Abdul Kader, **Baharudin Ibrahim**. Identifying the Particular Human Plasma Metabolites Which Produces the Best Response from Warfarin Based on International Normalized Ratio. *Journal of the American College of Cardiology* 2015;65(17):S11. (ISI IF: 15.34)
25. A. Nori<sup>1</sup>, **B. Ibrahim**<sup>1</sup>, M A. Seikh Abdul Kader<sup>2</sup>, M A. Hassali<sup>3</sup>, R. Awang. Determinants Of Self-Discontinuation Of Secondary Prevention Medications By Coronary Heart Disease Outpatients: Focus On the Role of Erectile Dysfunction. *Journal of the American College of Cardiology* 2015;65(17) (ISI IF: 15.34)
26. Chee Fai Sui, Chiau Ming Long, Chin Fen Neoh, **Baharudin Ibrahim**. VitalQPlus: Potential Screening Tool For Early Diagnosis Of Copd. *International Journal of Chronic Obstructive Pulmonary Disease*. 2015;10. (ISI IF: 3.27)

27. Karim SA, **Ibrahim B**, Tangiisuran B, Davies JG. What Do Healthcare Providers Know About Nutrition Support? A Survey of the Knowledge, Attitudes, and Practice of Pharmacists and Doctors Toward Nutrition Support in Malaysia. J Parenter Enteral Nutr 2015;39(4). (ISI IF: 4.11)
28. Hamza Mohamed Amin Mostafa, Arwa Mohamed Amin Mostafa, Nor Hayati Arif, Chin-Hoe Teh, Vikneswaran Murugaiyah, **Baharudin Ibrahim**. Identification of Alcohol-Dependence Biomarkers in urine by using Metabolomics Analysis. *Malaysian Journal of Pharmacy* 2015;2(1).
29. Arwa Mohamed Amin Mostafa, Lim Sheau Chin, Muhamad Ali SK Abdul Kader, Omar Ismail, Dzul Azri Mohamed Noor, Yuen Kah Hay, **Baharudin Ibrahim**. The frequency of Clopidogrel high on treatment platelets reactivity (HTPR) among Coronary Artery Disease patients (CAD) undergoing Interventional Angiographic Procedure. *Malaysian Journal of Pharmacy* 2015;2(1).
30. Arwa Mohamed Amin Mostafa, Lim Sheau Chin, Hamza Mohamed Amin Mostafa, Muhamad Ali Sk Abdul Kader, Chin-Hoe Teh, Dzul Azri Mohamed Noor, Yuen Kah Hay And **Baharudin Ibrahim**. Pharmacometabonomics Analysis of Urine to Predict Clopidogrel High on Treatment Platelets Reactivity (Htpr) in Coronary Artery Disease Patients (CAD) Undergoing Interventional Angiographic Procedure. *Malaysian Journal of Pharmaceutical Sciences* 2015;13(1):74.
31. Arwa Mohamed Amin Mostafa, Lim Sheau Chin, Hamza Mohamed Amin Mostafa, Muhamad Ali Sk Abdul Kader, Chin-Hoe Teh, Dzul Azri Mohamed Noor, Yuen Kah Hay And **Baharudin Ibrahim**. Pharmacometabonomics Analysis of Plasma to Identify Novel Biomarkers of Clopidogrel High on Treatment Platelets Reactivity. *Malaysian Journal of Pharmaceutical Sciences* 2015;13(1):86.
32. Hamza Mohamed Amin Mostafa, Arwa Mohamed Amin Mostafa, Norhayati Arif, Chin-Hoe Teh, Vikneswaran Murugaiyah and **Baharudin Ibrahim**. Propionic Acid and Acetic Acid as Plasma Biomarkers for Alcohol-Dependence. *Malaysian Journal of Pharmaceutical Sciences* 2015;13(1):65.
33. Hamza Mohamed Amin Mostafa, Arwa Mohamed Amin Mostafa, Norhayati Arif, Chin-Hoe Teh, Vikneswaran Murugaiyah and **Baharudin Ibrahim**. Novel Biomarkers of Alcohol-Dependence in Urine using Metabolomics. *Malaysian Journal of Pharmaceutical Sciences* 2015;13(1):66.
34. Ali Yousif Nori, **Baharudin Ibrahim**, Mohamed Azmi Ahmad Hassali, Rahmat Awang And Mohamad Ali Sheikh Abdul Kader. Association of Erectile Dysfunction and its Treatment with Poor Medication Adherence to Cardioprotective Medications of Ischaemic Heart Disease. *Malaysian Journal of Pharmaceutical Sciences* 2015;13(1):61.
35. Abdulkader Ahmad Bawadikji, Chin-Hoe Teh, Muhamad Ali Sheikh Abdul Kader, Premalosi Ramanathan, Azizah Yusuf, Paramesveri Govindasamy, Syed Azhar Syed Sulaiman and **Baharudin Ibrahim**. Identification of Urine Metabolites to Predict Warfarin Response Based on The International Normalised Ratio. *Malaysian Journal of Pharmaceutical Sciences* 2015;13(1):62.
36. Abdulkader Ahmad Bawadikji, Chin-Hoe Teh, Muhamad Ali Sheikh Abdul Kader, Premalosi Ramanathan, Azizah Yusuf, Paramesveri Govindasamy, Syed Azhar Syed Sulaiman and **Baharudin Ibrahim**. Plasma Metabolites Identification for Patients on Warfarin with Stable and Unstable International Normalised Ratio. *Malaysian Journal of Pharmaceutical Sciences* 2015;13(1):80.
37. Forough Ebrahimi, **Baharudin Ibrahim**, Chin-Hoe Teh, Vikneswaran Murugaiyah and Kit-Lam Chan. Nmr-Based Metabolomic Approach for The Discrimination of Plasma Samples from Rats Administered With A Quassinoid-Rich Fraction Of *Eurycoma Longifolia* (Tongkat Ali). *Malaysian Journal of Pharmaceutical Sciences* 2015;13(1):93.



38. Forough Ebrahimi, **Baharudin Ibrahim**, Chin-Hoe Teh, Vikneswaran Murugaiyah and Kit-Lam Chan. Evaluating The Effect of Plasma Deproteinization and The Type of Internal Standard Used on Nmr Profile of Rat Plasma. *Malaysian Journal of Pharmaceutical Sciences* 2015;13(1):63.
39. Yelly Oktavia Sari, Mohd. Baidi Bahari and **Baharudin Ibrahim**. Validation of My. Drug Compatibility Checker (My.Dcc) as a Tool to Check The Compatibility of Drug-Drug and Drug-Parenteral Nutrition In Neonatal Intensive Care Unit. *Malaysian Journal of Pharmaceutical Sciences* 2015;13(1):88.
40. Nurul Shahfiza, Maulidiani, Hasnah Osman, Tang T. Hock, Khozirah Shaari, Baharudin Ibrahim, Abdel-Hamid Z. Abdel- Hamid. Discrimination of dengue disease from healthy based on the chemometry of <sup>1</sup>H nuclear magnetic resonance spectroscopy. *Jurnal Teknologi (Sciences and Engineering)*. 2015;77(33):27-32.
41. Eng-Keng Seow, **Baharudin Ibrahim**, Syahidah Akmal Muhammad, Lam Hong Lee, Japareng Lalung, Cheng Lai Hoong. Differentiation between house and cave edible bird's nests (EBN) by chemometric analysis of major minerals composition data. *Pertanika Journal of Tropical Agricultural Science*. 2016;39(2):181–195 (**ISI IF: 0.17**).
42. Eng-Keng Seow, **Baharudin Ibrahim**, Syahidah Akmal Muhammad, Lam Hong Lee, Cheng Lai Hoong. Differentiation between house and cave edible bird's nests by chemometric analysis of amino acid composition data. *LWT-Food Science and Technology*. 2016;65:428-435 (**ISI IF: 3.71**)
43. Forough Ebrahimi, **Baharudin Ibrahim**, Chin-Hoe Teh, Vikneswaran Murugaiyah, Kit-Lam Chan. Urinary NMR-based metabolomic analysis of rats possessing variable sperm count following orally administered *Eurycoma longifolia* extracts of different quassinoid levels. *Journal of Ethnopharmacology* 2016;182:80–89 (**ISI IF: 3.41**)
44. Arwa Mohamed Amin Mostafa, Lim Sheau Chin, Hamza Mohamed Amin Mostafa, Muhamad Ali S.K. Abdul Kader, Dzul Azri Mohamed Noor, Yuen Kah Hay, **Baharudin Ibrahim**. The Identification of Novel Biomarkers of Clopidogrel High on Treatment Platelets Reactivity Using Pharmacometabonomics Analysis of Plasma in Coronary Artery Disease Patients. *Journal of the American College Of Cardiology*, 2016;67, S16. (**ISI IF: 16.50**)
45. Paul A Marsden, Imran Satia, **Baharudin Ibrahim**, Ashley Woodcock, Lucy Yates, Iona Donnelly, Lisa Jolly, Neil C Thomson, Stephen J Fowler, Jaclyn A Smith. Objective Cough Frequency, Airway Inflammation and Disease Control in Asthma. *Chest*, 2016;149(6):1460-1466. (**ISI IF: 9.66**)
46. Saravanapriya Thillaivanam, Arwa M. Amin, Sheila Gopalakrishnan, **Baharudin Ibrahim**. The Effectiveness Of Mcisaac Clinical Decision Rule In The Management Of Sore Throat: An Evaluation From Pediatrics Ward. *Pediatric Research*, 2016;80(4):516-520. (**ISI IF: 2.86**)
47. Hamza Mostafa, Arwa M. Amin, Chin-Hoe Teh, Vikneswaran Murugaiyah, Nor Hayati Arif, **Baharudin Ibrahim**. Metabolic phenotyping of urine for discriminating alcohol-dependent from social drinkers and alcohol-naive subjects. *Drug and Alcohol Dependence*, 2016;169:80-84. (**ISI IF: 3.47**)
48. A. M. Amin Mostafa L. Sheau Chin M. A. SK Abdul Kader O. Ismai D. A. Mohamed Noor Y. Kah Hay **B. Ibrahim**. The Effect of Haematological Variables on the Verifynow P2y12 Assay in Coronary Artery Disease Patients (CAD) Undergoing Interventional Angiographic Procedure. *Global Heart*, 2016;11(2S):e43.

49. A. A. Bawadikji M. A. B. S. Abdul Kader C.-H. Teh S. A. S. Sulaiman, **B. Ibrahim**. Identification of Plasma Metabolites for Patients on Warfarin With Unstable and Stable International Normalized Ratio. *Global Heart*, 2016;11(2S):e98.
50. Forough Ebrahimi, **Baharudin Ibrahim**, Chin Hoe Teh, Vikneswaran Murugaiyah, Chan Kit Lam. <sup>1</sup>HNMR Based Discriminatory Analysis of *Eurycoma longifolia* from Different Locations and Establishing a Profile for Primary Metabolites Identification and Quassinoids Quantification. *Planta Medica*, 2017;83(1-02):172-182. (ISI IF: 2.75)
51. Forough Ebrahimi, **Baharudin Ibrahim**, Chin Hoe Teh, Vikneswaran Murugaiyah, Chan Kit Lam. NMR-based plasma metabolomic discrimination for male fertility assessment of rats treated with *Eurycoma longifolia* extracts. *Systems Biology in Reproductive Medicine*, 2017;63(3):179-191 (ISI IF: 1.20)
52. Hamza Mostafa, Arwa M. Amin, Chin-Hoe Teh, Vikneswaran Murugaiyah, Nor Hayati Arif, **Baharudin Ibrahim**. Plasma metabolic biomarkers for discriminating individuals with alcohol use disorders from social drinkers and alcohol-naive subjects. *Journal of Substance Abuse Treatment*, 2017;77:1-5. (ISI IF: 2.54)
53. Arwa M. Amin, Lim Sheau Chin, Dzul Azri Mohamed Noor, Muhamad Ali SK Abdul Kader, Yuen Kah Hay, **Baharudin Ibrahim**. The Personalization of Clopidogrel Antiplatelet therapy: The role of Integrative Pharmacogenetics and Pharmacometabolomics. *Cardiology Research and Practice*, 2017;2017 (ISI IF: 2.14).
54. Mostafa, Hamza; M.Amin, Arwa; Arif, Nor Hayati; Chin, Hoe Teh; Murugaiyah, Vikneswaran; **Ibrahim, Baharudin**. Nuclear magnetic resonance spectroscopy based metabolomics to identify novel biomarkers of alcohol dependence. *Songklanakarinn Journal of Science and Technology*. 2017;39(2):153-162.
55. Arwa M Amin, Chin L Sheau, Noor DA Mohamed, Hamza Mostafa, Kader MASK Abdul, Hay Y Kah, **Baharudin Ibrahim**. The effect of CYP2C19 genetic polymorphism and non-genetic factors on clopidogrel platelets inhibition in East Asian coronary artery disease patients. *Thrombosis Research* 158 (2017) 22–24 (ISI IF: 3.23)
56. Arwa M Amin, Lim Sheau Chin, Chin-Hoe Teh, Hamza Mostafa, Dzul Azri Mohamed Noor, Muhamad Ali SK Abdul Kader, Yuen Kah Hay, **Baharudin Ibrahim**. <sup>1</sup>H NMR based Pharmacometabolomics Analysis of Urine Identifies Metabolic Phenotype of Clopidogrel High on Treatment Platelets Reactivity in Coronary Artery Disease Patients. *Journal of Pharmaceutical and Biomedical Analysis* 146 (2017) 135–146. (ISI IF: 3.26)
57. AA Bawadikji, CH Teh, SAKMA Bin, SSA Syed, B Ibrahim. Pharmacometabolomics Technique to Identify Warfarin Response Using Nuclear Magnetic resonance Spectroscopy. *Current pharmaceutical biotechnology* 2017;18(9):740-747 (ISI IF: 2.46)
58. Arwa M Amin, Chin L Sheau, Noor DA Mohamed, Hamza Mostafa, Kader MASK Abdul, Hay Y Kah, **Baharudin Ibrahim**. Pharmacometabolomics analysis of plasma to phenotype clopidogrel high on treatment platelets reactivity in coronary artery disease patients. *European Journal of Pharmaceutical Sciences* 2018;117:351-361 (ISI IF: 3.76)
59. Syahidah Akmal Muhammad, Eng-Keng Seow, AK Mohd Omar, Ainolsyakira Mohd Rodhi, Hasnuri Mat Hassan, Japareng Lalung, Sze-Chi Lee, **Baharudin Ibrahim**. Variation of  $\delta^2\text{H}$ ,  $\delta^{18}\text{O}$  &  $\delta^{13}\text{C}$  in crude palm oil from different regions in Malaysia: Potential of stable isotope signatures as a key traceability parameter. *Science and Justice* 2018;58(1):59-66 (ISI IF: 1.99)

60. Kai Lun Tang, Barbara Wimmer, Muhammad Eid Akkawi, Long Chiau Ming, **Baharudin Ibrahim**. Incidence and pattern of medication errors in a general paediatric ward in a developing nation. *Research in Social and Administrative Pharmacy*, 2018;14(3):317 (**ISI IF: 2.72**)
61. Gam Lay Harn, Y.H. Teh, X. Y. Sim, Lee Yan Fan, Waqas Ahmad, Vikneswaran A/I Murugaiyah, **Baharudin Bin Ibrahim**, Peter Greimel, Mohd Nazri Bin Ismail. Urinary Protein Profile Changes in Diabetic Rats and Pre-diabetic Rats Fed with High Fat Diets. *Biomedical Research and Therapy*, 2019.
62. Ammar Ali Saleh Jaber and **Baharudin Ibrahim**. Health-related quality of life of patients with multidrug-resistant tuberculosis in Yemen: prospective study. *Health and quality of life outcomes* 2019; 17 (1):142 (**ISI IF: 2.32**).
63. Jaya Muneshwarao, Mohamed Azmi Hassali, **Baharudin Ibrahim**, Bandana Saini, Irfhan Ali Hyder Ali and Ashutosh Kumar Verma. It is time to change the way we manage mild asthma: an update in GINA 2019, *Respiratory Research* 2019; 20:, 183.
1. Ammar Ali Saleh Jaber and **Baharudin Ibrahim**. Evaluation of risk factors associated with drug-resistant tuberculosis in Yemen: data from centres with high drug resistance, *BMC infectious diseases* 2019; 19 (1):, 464 (**ISI IF: 2.57**).
64. Ammar Ali Saleh Jaber and **Baharudin Ibrahim**. Outcome of interim multidrug-resistant tuberculosis treatment in Yemen. *Tropical Journal of Pharmaceutical Research* 2019; 18 (8):, 1755-1762 (**ISI IF: 0.44**).
65. **Baharudin Ibrahim** and Keshamalini Gopalsamy. Metabolomics to Differentiate Alcohol Use Disorders From Social Drinkers and Alcohol-Naive Subjects, in (Neuroscience of Alcohol - Mechanisms and Treatment). Academic Press London 2019; Chapter 59; 577-584.
66. Orwa Albitar, Sabariah Noor Harun, Hadzliana Zainal, **Baharudin Ibrahim** and Siti Maisharah Sheikh Ghadzi. Population Pharmacokinetics of Clozapine: A Systematic Review. *BioMed Research International* 2020;2020 (**ISI IF: 2.20**).
67. Abdulkader Ahmad Bawadikji, Chin-Hoe Teh, Muhamad Ali Bin Sheikh Abdul Kader, Mohamed Jahangir Bin Abdul Wahab, Syed Azhar Syed Sulaiman, **Baharudin Ibrahim**. Plasma Metabolites as Predictors of Warfarin Outcome in Atrial Fibrillation, *American Journal of Cardiovascular Drugs* 2020;20(2):169-177 (**ISI IF: 2.58**).
68. Jaya Muneshwarao, Mohamed Azmi Hassali, **Baharudin Ibrahim**, Bandana Saini, Irfhan Ali Hyder Ali, Anees ur Rehman, Ashutosh Kumar Verma, Atta Abbas Naqvi, Rabia Hussain. Effectiveness of home visits in adult patients with asthma: a systematic review of randomized controlled trials. *The Journal of Allergy and Clinical Immunology: In Practice* 2020;Epub. (**ISI IF: 7.55**).
69. Jaya Muneshwarao, Mohamed Azmi Hassali, Baharudin Ibrahim, Bandana Saini, Atta Abbas Naqvi, Irfhan Ali Hyder Ali, Jaya Mania Rao, Anees ur Rehman, Ashutosh Kumar Verma. Translation and validation of the Test of Adherence to Inhalers (TAI) questionnaire among adult patients with asthma in Malaysia. *Journal of Asthma* 2020;1-12 (**ISI IF: 2.08**).
70. M Biswas, S Rahaman, TK Biswas, **B Ibrahim**. Effects of the ABCB1 C3435T single nucleotide polymorphism on major adverse cardiovascular events in acute coronary syndrome or coronary artery disease patients undergoing percutaneous coronary

- intervention and treated with clopidogrel: A systematic review and meta-analysis. *Expert Opinion on Drug Safety* 2020. Epub (ISI IF: 3.38).
71. Yan-Fen Lee, Xuan-Yi Sim, Ying-Hui Teh, Mohd Nazri Ismail, Peter Greimel, Vikneswaran Murugaiyah, **Baharudin Ibrahim**, Lay-Harn Gam. The effects of high-fat diet and metformin on urinary metabolites in diabetes and pre-diabetes rat models. *Biotechnology and Applied Biochemistry* 2020 Epub. (ISI IF: 1.64).
  72. A Sha'aban, **B Ibrahim**, O Albitar, SG Mohiuddin, CG Omar, SN Harun. Transition to online teaching and learning for clerkship activities during COVID-19 in Malaysia: Innovation in experiential learning or assessment. *Pharmacy Education* 2020.
  73. Xuan-Yi Sim, Waqas Ahmad, Yan-Fen Lee, Ying-Hui Teh, Vikneswaran Murugaiyah, **Baharudin Ibrahim**, Peter Greimel, Lay-Harn Gam. Weight Gain and Adipose Tissue Accumulation in Diabetic and Prediabetic Rats Fed with Palm Olein enriched High Fat Diet. *Journal of Biochemistry, Microbiology and Biotechnology* 2020;8(1);1-6.
  74. Biswas, Mohitosh and Rahaman, Shawonur and Biswas, Tapash Kumar and Haque, Zahirul and **Ibrahim, Baharudin**, Effects of Sex, Age and Comorbidities on the Risk of Infection and Death Associated with COVID-19: A Meta-Analysis of 47807 Confirmed Cases (3/28/2020). Available at SSRN: <https://ssrn.com/abstract=3566146> or <http://dx.doi.org/10.2139/ssrn.3566146>

## **8. CONFERENCE PRESENTATIONS/PROCEEDINGS/ABSTRACTS**

1. **Baharudin I**, Noorizan A.A, Yahaya H, Jahiza H. Tifacogin: “Beneficial or Superficial” in sepsis patient?: A Case Report – USM-UNAIR First Collaborative Conference, 13-14 June 2007, Penang Malaysia.
2. **Baharudin I**, Mohamed Azmi A.H, Mohd Baidi B, Zahri A, Jameela Banu A.H, Norliza H. Knowledge of asthma and its management among rural adult patients attending a district hospital - USM-UNAIR First Collaborative Conference, 13-14 June 2007, Penang Malaysia.
3. Basanta M, **Ibrahim B**, Singh D, Douce D, Morris M, Woodcock A, Fowler SJ. Metabolic profiling of chronic lung inflammation using high accuracy mass spectrometry – Advances in Metabolic profiling, Nov 9-10, 2010, Florence, Italy.
4. Basanta M, **Ibrahim B**, Goshawk J, Douce D, Morris M, Woodcock A, Fowler SJ. Metabolic profiling of breath in obstructive lung disease with gas chromatography mass spectrometry – Mass Spectrometry application to the clinical lab, Feb 6-10, 2010, San Diego.
5. Basanta M, **Ibrahim B**, Dark P, Singh D, Woodcock A, Douce D, Morris M, Fowler SJ. Detection of impaired lung function/ infection in critical care and respiratory medicine using Gas Chromatography Time-Of-Flight Mass Spectrometry (GC-TOF). Proceedings of the 58th American Society of Mass Spectrometry Conference on Mass Spectrometry and Allied Topics. May 23-27, 2010, Utah.
6. F Ebrahimi, KL Chan, F Fang, P Sprenger, V Murugaiyah, CH Teh, **B Ibrahim**. Reproducibility and Stability of NMR Spectroscopy and the Method Development for Urine Metabolomic Analysis. 4th Australasian Metabolomics Symposium 2012, Shah Alam, Malaysia.
7. **B Ibrahim**, M Nilsson, SJ Fowler. Partial least square-discriminant analysis and Youden Index for metabolomic analysis of NMR spectra of exhaled breath condensate of

- asthmatics and healthy controls. 4th Australasian Metabolomics Symposium 2012, Shah Alam, Malaysia.
8. **B Ibrahim**. Metabolomics of Exhaled Breath to Identify Potential Biomarkers for Diagnosing and Phenotyping Inflammatory Lung Diseases. BIT's 3rd Annual World Congress of Biomarkers 2012, Guangzhou, China.
  9. **B Ibrahim**. Personalised Medicine: Introduction of genomics, proteomics and metabolomics in novel drug development and therapy. Proceedings of 2nd International Conference and Exhibition on Pharmaceutical Regulatory Affairs 2012;1(4).
  10. F. Ebrahimi, **B. Ibrahim**, C.H. Teh, and K.L. Chan. Metabolomic analysis of *Eurycoma longifolia* Jack roots by 1H-NMR spectroscopy. Proceedings International Conference on Natural Products 2013:4, Shah Alam, Malaysia.
  11. Forough Ebrahimi, **Baharudin Ibrahim**, Chin Hoe Teh, Vikneswaran Murugaiyah, Chan Kit Lam. Association of urine metabolites with sperm count of rats treated with *Eurycoma longifolia* extracts. The 5th International Conference on Natural Products for Health and Beauty, 6-8 May 2014, Phuket, Thailand.
  12. F. Ebrahimi, **B. Ibrahim**, C.H. Teh, V. Murugaiyah and K.L. Chan. Qualitative and Quantitative Analysis of Quassinoids in *Eurycoma Longifolia* Extracts Using NMR-Based Metabolomics. International Conference on Natural Products 2014, Putrajaya, Malaysia.
  13. Ali Y. Nori, Muhamad S. A. K. Ali, **Baharudin Ibrahim**, Rahmat Awang, M. Azmi Hassali. Modifying the Morisky Medication Adherence Scale (MMAS) to Assess the Overall Adherence to Polypharmacy Regimen of Cardiac Patients. World Congress of Cardiology 2014, Melbourne, Australia.
  14. A. Nori, **B. Ibrahim**, M.A. Ahmad Hassali, R. Awang, M.A. Sheikh Abdul Kader. Is Erectile Dysfunction Associated With Medication Non-Adherence In Ischemic Heart Disease Secondary Prevention? 14th Asian Conference on Clinical Pharmacy, 31st October to 3rd November 2014, Terengganu, Malaysia.
  15. S P Thillaivanam, **B Ibrahim**, S Gopalakrishnan. An Evaluation on the Effectiveness of the Mcisaac Scoring Rules in the Management of Children Diagnosed With Sore Throat in Paediatric General Ward, Hospital Kulim. 14th Asian Conference on Clinical Pharmacy, 31st October to 3rd November 2014, Terengganu, Malaysia.
  16. Hamza Mohamed Amin Mostafa, Arwa Mohamed Amin Mostafa, Nor Hayati Arif, Chin-Hoe Teh, Vikneswaran Murugaiyah, **Baharudin Ibrahim**. Identification of Alcohol-Dependence Biomarkers in plasma by using Metabolomics Analysis. 14th Asian Conference on Clinical Pharmacy, 31st October to 3rd November 2014, Terengganu, Malaysia.
  17. S P Thillaivanam, **B Ibrahim**, S Gopalakrishnan. An Evaluation on the Effectiveness of the Mcisaac Scoring Rules in the Management of Children Diagnosed With Sore Throat in Paediatric General Ward, Hospital Kulim. 8th National Pharmacy R&D Conference 2014, Shah Alam, Malaysia.
  18. Eng-Keng Seow, **Baharudin Ibrahim**, Syahidah Akmal Muhammad Muhammad, Lam Hong Lee and Lai-Hoong Cheng. Major Minerals Profile Of House-Farmed And Cave-Harvested Edible Bird Nests. The 2nd International Conference on Agriculture and Agro-Industry 2014 (ICAAI2014), 20-21 November 2014, Chiang Rai, Thailand.
  19. **B Ibrahim**. Personalizing drug treatment using pharmacometabonomic approach. Proceedings of 3rd International Conference and Exhibition on Metabolomics & Systems Biology 2014;4(2).
  20. Eng-Keng Seow, Syahidah Akmal Muhammad, Baharudin Ibrahim, Lam Hong Lee, Ainolsyakira Mohd Rodhi And Lai-Hoong Cheng. Determination Of Origin Of Edible Bird's Nest By Stable Isotopes And Minerals Analysis. Proceedings Of The 4th

International Conference On Environmental Research And Technology 2015 (ICERT 2015), 27- 29 May 2015 at PARKROYAL Resort, Penang, Malaysia.

21. Baharudin Ibrahim and Arwa Mohamed Amin Mostafa. Asthma and Metabolic Syndrome -Where is The Link? Proceeding International Seminar Metabolic Syndrome: Now and Future Trend, 13 August 2016, Jakarta, Indonesia.
22. Fatimatuzzahra' Abd. Aziz, **Baharudin Ibrahim**, Vikneswaran Murugaiyah. Histopathologic Changes in Proximal Tubules from Male Sprague Dawley Rats Treated with Gentamicin: A Preliminary Data. International Conference on Pharmacy Education and Practice 2016 (ICPEP 2016). 29th January to 31st January 2016, Penang, Malaysia.
23. Hadzliana Binti Zainal, Abu Bakar Sha'Aban, **Baharudin Bin Ibrahim**. Predicting Aspirin Efficacy And Toxicity Based on Pharmacometabonomics Approach, Annual International Conference on Pharmacology and Pharmaceutical Sciences 2017, Singapore.
24. Forough Ebrahimi, **Baharudin Ibrahim**, Chin-Hoe Teh, Vikneswaran Murugaiyah, Kit-Lam Chan. NMR-BASED METABOLOMIC APPROACH FOR THE DISCRIMINATION OF PLASMA SAMPLES FROM RATS ADMINISTERED WITH A QUASSINOID-RICH FRACTION OF EURYCOMA LONGIFOLIA (TONGKAT ALI). 29/01/2016 - 31/01/2016. International Conference on Pharmacy Education and Practice 2016 (ICPEP 2016), Penang, Malaysia (International).
25. Sha'aban A, Zainal H, Khalil NA and **Ibrahim B**. PERSONALISATION OF ASPIRIN THERAPY: A FOCUS ON GASTRIC TOXICITY, 03/11/2017 - 05/11/2017, MPS-PSC 2017, Penang, Malaysia (International).
26. Sim XY, **Ibrahim B**, Murugaiyah V, Greimel P, Gam LH. THE EFFECT OF HIGH FAT DIET INTAKE ON BLOOD GLUCOSE LEVEL OF PREDIABETIC AND TYPE 2 DIABETIC RATS, 03/11/2017 - 05/11/2017, MPS-PSC 2017, Penang, Malaysia (International).
27. Brian Tan Peng Han, Gina Koay Wan Lee, Wong Lee Fung, **Baharudin Ibrahim**. Pharmacist Reaching to Indigenous: A Healthcare Outreach Programme, 11/11/2017 - 13/11/2017, Asian Young Pharmacist Group Leadership Summit 2017, Kuala Lumpur, Malaysia (International).
28. **Baharudin Ibrahim**. METABOLOMICS ANALYSIS OF BLOOD AND URINE TO IDENTIFY ALCOHOL-DEPENDENCE BIOMARKERS, 26/02/2018 - 28/02/2018, International Conference on Metabolomics-ICOM 2018, Bangkok, Thailand (International).
29. **Baharudin Ibrahim**. The future of personalizing medicine, 04/10/2018 - 06/10/2018. The 2nd International Conference on Pharmaceutical Research & Practice, Indonesia (International).
30. **Baharudin Ibrahim**. Personalised medicine and pharmacometabonomics, 05/02/2018 - 09/02/2018. Regional Conference to Promote Safe and Secure Science in the Middle East, South and Southeast Asia, Selangor, Malaysia (International).
31. Jyh Voo, **Ibrahim B**, Fm Moy, Yahaya Z. Patients' Vaccine Knowledge, Awareness, and Hesitancy in Relation to Childhood Immunization Status in Sandakan, Sabah, 01/08/2018 - 04/08/2018. 21st Family Medicine Scientific Conference 2018, Ipoh, Perak (National)
32. J. Muneswarao, M.A. Ahmad Hassali, **B. Ibrahim**, B. Saini, I.A Hyder Ali And A. Ur Rehman. Home Visits for Adult Patients with Asthma? A Systematic Review of Randomized Controlled Trials, 21/10/2019 - 23/10/2019. Chest Congress 2019, New Orleans, Louisiana, Usa (International).
33. Y.H. Voo, **B. Ibrahim**, M.A. Hassali, F.M. Moy. Vaccine Knowledge, Awareness and Hesitancy among Malaysian Parents Attending Health Clinics in Sandakan, Sabah, 15/09/2019 - 18/09/2019, 13th vaccine congress, bangkok, thailand (international).

## 9. TEACHING PUBLICATIONS

### (a) Books

1. Ali Yousif Nori, Rahmat Awang, Maizura Omar, Muhamad Ali Bin Sheikh Abdul Kader, Omar bin Ismail, **Baharudin Ibrahim**, Mohamed Azmi Ahmad Hassali. 2013. Identification chart for cardiovascular and diabetes medications in Malaysian hospitals. School of Pharmaceutical Sciences, USM. ISBN 978-967-11964-3-4.
2. Mohamed Azmi Ahmad Hassali, Asrul Akmal Shafie, **Baharudin Ibrahim**, Fahad Saleem, Ho Rhu Yann, Muhammad Sharrieffuddin Mohd. Jaki. 2014. Pengurusan ubat-ubatan untuk hipertensi. School of Pharmaceutical Sciences, USM. ISBN 978-967-13162-0-7.
3. Mohamed Azmi Ahmad Hassali, Asrul Akmal Shafie, **Baharudin Ibrahim**, Fahad Saleem, Lim Ching Jou, Ho Rhu Yann, Muhammad Sharrieffuddin Mohd. Jaki. 2015. Penjagaan diri bagi pesakit hipertensi. School of Pharmaceutical Sciences, USM. 20 pages. ISBN 978-967-11964-9-6.
4. **Baharudin Ibrahim** and Keshamalini Gopalsamy. 2019. Metabolomics to Differentiate Alcohol Use Disorders From Social Drinkers and Alcohol-Naive Subjects, in (Neuroscience of Alcohol - Mechanisms and Treatment). Academic Press London. Chapter 59; 577-584.
5. **Baharudin Ibrahim** and Keshamalini Gopalsamy. 2019. Applications of NMR Spectroscopy in Medical Diagnosis. Bentham Science Publishers. Chapter 4; 61-80.

### (b) Teaching Modules

1. Manual for pediatric clerkship (Undergraduate) – Discipline of clinical pharmacy, USM.
2. Manual for pediatric clerkship (Postgraduate) – Discipline of clinical pharmacy, USM.
3. Parental nutrition and aseptic dispensing clerkship (4th year) - Discipline of Clinical Pharmacy, USM.
4. Case Book FAR 454.3 - Applied Therapeutic II - Discipline of Clinical Pharmacy, USM.
5. Parental nutrition and aseptic dispensing clerkship (3rd year) - Discipline of Clinical Pharmacy, USM.
6. Instructor's manual – Hospital Pharmacy Practice FAR 455 - Discipline of Clinical Pharmacy, USM.
7. Instructor's manual – Hospital Pharmacy Practice FAR 454 - Discipline of Clinical Pharmacy, USM.
8. Instructor's manual – Clinical Pharmacy Practice FCP 558 - Discipline of Clinical Pharmacy, USM.
9. Instructor's manual – Biostatistics and Research Methodology FCP 559 - Discipline of Clinical Pharmacy, USM.
10. SMOFlipid 20%. Parenteral Nutrition Products Module - Discipline of Clinical Pharmacy, USM.
11. NephroAmine 5.4%. Parenteral Nutrition Products Module - Discipline of Clinical Pharmacy, USM.
12. CLINOLEIC 20%. Parenteral Nutrition Products Module - Discipline of Clinical Pharmacy, USM.

13. INTRALIPID 10%. Parenteral Nutrition Products Module - Discipline of Clinical Pharmacy, USM.
14. AMINOPLASMA 10%. Parenteral Nutrition Products Module - Discipline of Clinical Pharmacy, USM.
15. LIPIDEM. Parenteral Nutrition Products Module - Discipline of Clinical Pharmacy, USM.
16. LIPOSYN 11. Parenteral Nutrition Products Module - Discipline of Clinical Pharmacy, USM.
17. HepatAmine 8%. Parenteral Nutrition Products Module - Discipline of Clinical Pharmacy, USM.
18. PROCALAMINE. Parenteral Nutrition Products Module - Discipline of Clinical Pharmacy, USM.
19. NUTRIFLEX OMEGA. Parenteral Nutrition Products Module - Discipline of Clinical Pharmacy, USM.
20. Diabetes. **Baharudin Ibrahim**. School of Pharmaceutical Sciences, USM.
21. Scabies. **Baharudin Ibrahim**. School of Pharmaceutical Sciences, USM.
22. Parkinson's disease. **Baharudin Ibrahim**. School of Pharmaceutical Sciences, USM.
23. Tuberculosis. **Baharudin Ibrahim**. School of Pharmaceutical Sciences, USM.
24. Human Immunodeficiency virus (HIV). **Baharudin Ibrahim**. School of Pharmaceutical Sciences, USM.
25. Alzheimer's disease. **Baharudin Ibrahim**. School of Pharmaceutical Sciences, USM.
26. Angina. **Baharudin Ibrahim**. School of Pharmaceutical Sciences, USM.
27. Chronic Kidney Disease. **Baharudin Ibrahim**. School of Pharmaceutical Sciences, USM.
28. Pharmacogenomics Clerkship Manual, 2016/2017. Discipline of Clinical Pharmacy, USM.
29. Modules for PharmCare Internship (PCI) & Dissertation 2016/2017. Discipline of Clinical Pharmacy, USM.
30. MCLinPharm student guide (2016-17). Discipline of Clinical Pharmacy, USM.
31. MCLinPharm clerkship logbook 2016/2017. Discipline of Clinical Pharmacy, USM.

## **10. ACHIEVEMENTS/AWARDS/RECOGNITIONS**

### **(a) Fellowship**

1. Research Fellow. Medicines Evaluation Unit Ltd. The Langley Building, Wythenshawe Hospital, Manchester M23 9QZ. 2008-2011.
2. Felo Academic Staff Training Scheme (ASTS) USM. Master. Universiti Sains Malaysia. 2006-2008.
3. Felo Academic Staff Training Scheme (ASTS) USM. PhD. University of Manchester. 2007-2010.

### **(b) Academic awards**



1. Book Prize. Best Final Year Student in Clinical Pharmacy Field. 2006/2007. Merck Sharp & Dohme. Malaysia.
2. International Trainee Travel Award, Allergy, Immunology and Inflammation Assembly. 2010. American Thoracic Society. San Antonio, USA.
3. International Trainee Travel Award, Clinical Problems Assembly. 2010. American Thoracic Society. San Antonio, USA.
4. Best Oral Presenter Award (1<sup>st</sup> place). 2012. 4th Australasian Metabolomics Symposium 2012. Malaysia.
5. Best poster award (3rd place). Forough Ebrahimi. 2012. 4th Australasian Metabolomics Symposium 2012. Malaysia.
6. Best poster award (1st place). Forough Ebrahimi. International Conference on Natural Products (ICNP 2013), Malaysia.
7. Anugerah Sanggar Sanjung. Journal Publication Category. 2013. Universiti Sains Malaysia. Malaysia.
8. Best oral presentation award (3rd place). Saravanapriya Thillaivanam. 8<sup>th</sup> National Pharmacy Research and Development Conference. 2014. Shah Alam, Malaysia. National.
9. Ubon Ratchathani Exchange Program 2014. Ubon Ratchathani University (UBU). Thailand. International.
10. Excellent Service Award. 2014. Universiti Sains Malaysia. Malaysia.
11. Best Poster Presenter Award (1st runner up). Hamza Mostafa. International Conference on Pharmacy Education and Practice 2016 (ICPEP 2016). Penang, Malaysia. International.
12. Anugerah Sanggar Sanjung. Journal Publication Category. 2017. Universiti Sains Malaysia. Malaysia.
13. YSN-ASM member. 2017. Academy Science of Malaysia. Malaysia.
14. Associate professor. 2017. Universiti Sains Malaysia. Malaysia.
15. Best poster presentation (1st runner up). 2017. Pharmacist Reaching to Indigenous: A Healthcare Outreach Programme, Asian Young Pharmacist Group Leadership Summit 2017. International.
16. Judge for oral presentation, MPS PSC conference. 2017. Universiti Sains Malaysia. International.
17. Judge for poster presentation, MPS PSC conference 2017. Universiti Sains Malaysia. International.
18. Judge for MyPSA National Pharmacy Quiz. 2017. Penang, Malaysia.
19. Bentham Ambassador, Bentham Science Publisher, Amerika Syarikat, 2019 (International).
20. Anugerah Sanggar Sanjung. Journal Publication Category. 2019. Universiti Sains Malaysia. Malaysia.
21. Anugerah Hadiah Sanjungan. Journal Publication Category. 2019. Universiti Sains Malaysia. Malaysia.
22. Tokoh Alumni USM, 2019.

**(c) Academic Assessor**

1. Clinical Pharmacy Master Program - Taif University. Program Assessor. 2013.
2. Penemuduga Luar Latihan Temuduga Pelajar-Pelajar Tingkatan 5. Technical Assessor. 2012.
3. Penilai kertas cadangan penyelidikan pelajar siswazah. 2014.

4. Judge for best poster presentation. 1st national conference on quality use of medicine 2013.
5. Judge. Best research. Seminar Research & Development Farmasi Negeri Kedah 2013.
6. External Examiner for evaluating MSc. Medical Biochemistry postgraduates in Faculty of Medicine, AIMST University. 2015.
7. Judge for best poster presentation. Asian Conference on Clinical Pharmacy 2015. Bangkok, Thailand
8. External Examiner Bachelor of Pharmacy (Hons) Programme. SEGI University. Sept 2015 – Aug 2019.
9. Penilai Kertas Cadangan Penyelidikan pelajar siswazah. 2016.
10. Judge for MYPNSA National Pharmacy Quiz 2017, Penang.
11. Panel Penilai Geran Bridging, 2018, USM (University).
12. Panel penilai geran RUI, 2018, USM (University).
13. Judge for oral and poster presentation, IDDTM 2018 (International).
14. Chair of oral session. IDDTM conference 2018, (International).
15. Assessor, JePem Assessor, An assesment of healthcare provider communication toward the perception and the usage of oral opioids among cancer patients at advanced medical and dental institute, 2018, USM (University).
16. External Examiner, Bachelor of Pharmacy. 02/05/2018-01/05/2021, AIMST.
17. External Examiner for Bachelor of Pharmacy. 01/10/2018-27/06/2020, IMU.
18. Penilai Kertas Cadangan Penyelidikan, 02/08/2018-02/08/2018, USM.
19. Penilai Etika Penyelidikan, 03/12/2019-03/12/2019, USM.
20. AJK Pengajian, 01/10/2019-30/09/2020, UM.
21. Panel Penilai Audit, 30/09/2019-01/10/2019, UKM.
22. Penemuduga Calon Fast Track PhD, 04/09/2019-04/09/2019, USM.
23. Panel penilai bagi penukaran sarjana sains kepada PhD, 30/09/2019-30/09/2019, USM.
24. Panel Penilai FRGS, 14/03/2019-11/04/2019, USM.
25. Panel temu duga program ijazah sarjana muda sains farmasi, 13/05/2019-17/05/2019, USM.
26. AJK tetap penilaian awal kenaikan pangkat staf akademik, 01/01/2019-31/12/2019, USM.
27. External Examiner Bachelor of Pharmacy, 02/05/2018-01/05/2021, AIMST.
28. External examiner, Bachelor of Pharmacy Program, 01/09/2015-31/08/2019, Segi.
29. External Examiner for Bachelor of Pharmacy, 01/10/2018-27/06/2020, IMU.
30. Panel penilai geran penyelidikan, 01/01/2019-31/10/2019, USM.
31. Juri oral persidangan R&D farmasi Pahang, 2019, Bahagian perkhidmatan farmasi, Pahang (National).
32. JePem Assessor, Member JEPPEM, 2019, USM (University).
33. JePem Assessor, The study of clinical outcomes and factors affecting drug therapy and osteoporitic condition in chronic renal failure patient in pakistan, 2019, USM (University).
34. JePem Assessor, An assesment of healthcare provider communication toward the perception and the usage of oral opioids among cancer patients at advanced medical and dental institute, 2019, USM (University).

35. JePem Assessor , Penyalahgunaan ubat batuk dalam kalangan pesakit rawatan gantian terapi metadon di negeri pulau pinang, 2019, USM (University).

**(d) Thesis Examiner**

1. Anas Adeeb Mofleh Hoorani. A General Pure Quantitative Conceptual Model For The Assessment Of Patient Clinical Outcome 2012. **PhD**.
2. Abdul Haniff Bin Mohamad Yahaya. A Pharmacoepidemiological Study On The Non-Prescription Medicine Utilization In Malaysia. 2015. **PhD**.
3. Yelly Oktavia Sari. Clinical Outcome Of The Administration Of Drug And Tpn In Neonates At Penang Hospital. 2012. **PhD**.
4. Maryam Farooqui. Use Of Complementary And Alternative Medicines Among Cancer Patients In Penang, Malaysia; A Mix Methodological Assessment Of Health Beliefs, Treatment Disclosure And Health Related Quality Of Life. 2013. **PhD**.
5. Madeeha Malik. A Comparative Study Evaluating Rational Drug Use Among Public And Private Healthcare Facilities In Pakistan's Malaria Control Program. 2013. **PhD**.
6. Noman Ul Haq. Assessment Of A Pharmacist Initiated Health Education Programme For Improving Hepatitis-B Patients' Disease State Knowledge And Health Related Quality Of Life In Quetta City, Pakistan. 2013. **PhD**.
7. Hadeer Akram Abdulrazzaq. Prediction Of Uncontrolled Dyslipidemia Of Cardiac Outpatients And The Effect Of Pharmaceutical Excipients. 2013. **PhD**.
8. Fahad Saleem. Assessment Of A Pharmacist Initiated Health Education Programme In Improving Hypertension Patients' Health Related Quality Of Life, Disease State Knowledge And Medication Adherence In Quetta City. 2013. **PhD**.
9. Azizah Nasution. Clinical And Economic Impacts Of Clinical Pharmacy Education On Improvement Of Antibiotics Usage Among Patients With Chronic Kidney Disease (Ckd) In A Hospital. 2013. **PhD**.
10. Mochamad Djunaedi. The Clinical Outcome Evaluation Of Atrial Fibrillation Patients Receiving Warfarin For Secondary Stroke Prevention Conducted By Pharmacists In The Medication Therapy Adherence Clinic In Serdang And Selayang. 2014. **PhD**.
11. Shaymaa Abd Alwahed Abdul Ameer. Prevalence Of Osteopenia And Osteoporosis: The Assessment Of Osteoporosis Knowledge, Health Belief And Self-Efficacy Among Patients With Type 2 Diabetes Mellitus In Penang. 2014. **PhD**.
12. Ali Qais Jaafar Blebil. Impact Of Extra Front Counselling Sessions Through Phone Calls On Smoking Cessation Outcomes Among Smokers In Penang State, Malaysia. 2014. **PhD**.
13. Sarmed Nabhan Yaseen. The Clinical Impact Of Pharmacogenetic Prediction Of Adverse Drug Reactions Of Nevirapine-Based Highly Active Antiretroviral Therapy Regimen In Human Immunodeficiency Virus Type 1 Infected Patients. 2014. **PhD**.
15. Ooi Guat See. Assessment Of Malaysian Community Pharmacists' Involvement In Extended Pharmacy Services. 2015. **PhD**.

16. Rohit Kumar. A Mix Methodology Approach In Assessing Private Medical Specialist Perspectives And Knowledge Towards Generic Medicines In Malaysia. 2015. **PhD**.
17. Syed Imran Ahmed. Hiv/Aids Treatment And Health-Related Quality Of Life: Patients' Perspective And Impact Of Adverse Drug Reactions Among Hiv/Aids Patients In Malaysia. 2015. **PhD**.
18. Mansour Adam Mahmoud Mohamed. Medication Safety Challenges And Assessment Of Prescribing Errors Incidence In Saudi Arabia. 2014. **PhD**.
19. Shazyl Zhafry Bin Ahmad Khairy. The Impact Of Clinical Pharmacist Managed Antimicrobial Dosing Services For Sepsis Patients. 2014. **PhD**.
20. Mohammad Bashaar. Assessment Of Medicine Prices, Availability And Affordability In Six Afghanistan's Cities. 2015. **PhD**.
21. Lim Chin Choon. Cost-Effectiveness Modelling Of Childhood Obesity Prevention Programs: Comparison Between Sahabat Sihat And Be Best 2012. 2015. **PhD**.
22. Norazila Abdul Ghani. Economic Evaluation Of Methadone Treatment For Drug Abuse Patients In The State Of Penang And Kedah, Malaysia. 2012. **Master**.
23. Ranjeev Hari. Development Of A Learning Management System And Evaluation Of A Learning Module For Pharmaceutical Biotechnology. 2012. **Master**.
24. Fadzilah Binti Shafie. A Study Assessing The Impact Of Medication Adherence On Health-Related Quality Of Life (Hrql) And Disease Management Cost Among Type Ii Diabetes Patients In Sermban, Malaysia. 2013. **Master**.
25. Ng Yen Ping. Comparison Of Methods For Estimating Glomerular Filtration Rate In Critically Ill Patients With Unstable Renal Function – A Single Center Retrospective Study From Malaysia. 2014. **Master**.
26. Muhammad Zahid Iqbal. Evaluation Of Doctor's Knowledge, Attitude And Prescription Pattern (Based On Screening, Diagnosis And Medication) With Reference To Clinical Practice Guideline (2009) Ministry Of Health Malaysia On. 2014. **Master**.
27. Nor Izwani Binti Mohamed. Interpatient variability in tamoxifen response among breast cancer patients: The use of pharmacogenetics and metabolomics in closing the gaps in clinical practice. 2016. UiTM. **PhD**.
28. Syamimi Samah. Gut hormones and anti-inflammatory pathways in probiotic mediated glycaemic control and improved quality of life. 2015. **Master**.
29. External Examiner. Segi University. UiTM. 2015-2019.
30. External Examiner for Master Thesis. AIMST University. Since 2015.
31. Rabiatul Salmi Binti Md Rezal. Evaluation Of An Educational Programs Towards Improving Antibiotic Prescribing In Upper Respiratory Tract Infections (Urtis) At Public Healthcare Clinics In Kota Setar District, Kedah, Malaysia. 2015. **Master**.
32. Che Nor Adlia. Serum metabolic profiling for early detection of Alzheimer's Disease. 2017. MsC. UiTM.
33. Alamin Hassan Mohamed Alamin Alabid. A comparative Assessment of Medicine Dispensing Services and Evaluation of Perspectives among Malaysian Healthcare Professionals and Consumers Towards Community Pharmacists Professional Roles. 2014. **PhD**.

34. Che Nor Adlia. Serum metabolic profiling for early detection of Alzheimer's Disease. 2017. **MsC**. UiTM.
35. Alotaiby Meshal Naif G. The impact of a Structured Counselling Technique on Knowledge, Satisfaction, Quality of Life, Adherence and Clinical Outcomes Among Asthma Patients at King Saud Hospital, Saudi Arabia. 2017. **PhD**.
36. Sami Mohammed Hamood Albawani. Self medication practice in Yemen and the role of community pharmacy dispensers, pharmacy education and health authorities: A mixed Method approach. 2017. **PhD** UiTM.
37. Tan Ju Nee. Nutritional optimisation and parenteral nutrition complications in surgical cancer patients: does age matter? 2017. **Master**.
38. Wan Ismahanisa Ismail. Investigating the use of complimentary and alternative medicines among thalassemia patients in Malaysia: a mixed methodological approach. 2017. **PhD**.
39. Kho Boon Phiaw. Professional services offered by community pharmacists and challenges in managing community pharmacies: views from community pharmacy practitioners in the state of Sarawak. 2017. **Master**.
40. Shamala Balan, Analisa Farmakoepidemiologi dan farmakoeconomik bagi penggunaan ubat off-label di kalangan pesakit pediatrik di Hospital Sungai Buloh. 2017. **PhD**.
41. Tan Bee Ying. Effectiveness and outcomes of calendar blister pack intervention among hypertensive patients at Kulim hospital, Malaysia: a randomized controlled trial. 2017. **PhD**.
42. Soon Hooi Cheng. Patient Safety During Transitions of Care at Selected Public Hospitals and Primary Care in Malaysia. 2018, **Master** Thesis, USM.
43. Tan Ching Siang. Managing Hypertension in the Community: Is There a Role for Pharmacist? Findings from a Community-Based Study in the state of Penang, Malaysia. 2018, **Ph.D** Thesis, USM.
44. Tan Chiew Ping. 2018, **Master** Thesis - Course Work, USM, Dissertation Examiner.
45. Nazri Nordin. A qualitative and quantitative assessment of starz-drp as a prospective instrument to make an ideal triage action plan, determine drug-related problems and counsel self-care customers in Malaysia community pharmacies. 2018, **Ph.D** Thesis, USM.
46. Saleh Karamah Saleh Al-Tamimi. Ubat-ubatan generik: Persepsi ahli perubatan, ahli farmasi komuniti, pengguna, pelajar tahun akhir jurusan komuniti, pengguna, pelajar tahun akhir jurusan farmasi dan perubatan di tenggara yaman. 2018, **Ph.D** Thesis , USM.
47. Lyna Irawati. Impact of an educational intervention on community residents' knowledge, attitudes and perceptions towards antibiotics and antibiotics resistance in the state of penang, malaysia. 2018, **Ph.D** Thesis, USM.
48. Shamala Balan. Pharmacoepidemiology and pharmacoconomics evaluation of off-label prescribing among paediatric patients at hospital sungai buloh. 2018, **Ph.D** Thesis, USM.
49. Goh Su Lun. Clinical and economic evaluation of an innovative comprehensive workplace smoking cessation program in a local manufacturing company. 2018, **Ph.D** Thesis, USM.
50. Emad Eldin Osman Ali Munsour. Penilaian Impak maklumat perubatan pengguna terhadap pematuhan rawatan kawalan glisemik serta kualiti hidup berkaitan kesihatan dalam kalangan pesakit diabetes melitus jenis 2 di Qatar. 2018, **Ph.D** Thesis, USM.

51. Yasir Faraz Abbasi. Knowledge, attitude and practice of diabetic patients about disease. A cross sectional study. (University). 2018, **Master Thesis** - Course Work, AIMST.
52. Mohitosh Biswas. Assessment of Potential Drug and Gene Interactions from High-Throughput Genotyping Data in a Community Cohort of Older Australians (International). 2018, **Ph.D** Thesis, Newcastle University, Australia.
53. Nuratikah bt M Nordin. Evaluation of ibuprofen treatment and its success predictors among patent ductus arteriosus patient. 2019, **Master Thesis**-Course Work, USM.
54. Sania Siddique. Assessment of diet quality and its association with the glycemic control, illness perception and cvd risk factors in pre-diabetic Malaysian population. 2019, **Master Thesis**, USM.
55. Wong Yuet Yen. Assessment of a pharmacist-led type 2 diabetes self-management education programme among lower income community in the state of Penang, Malaysia. 2019, **Ph.D** Thesis, USM.
56. Siti Rahmah. Keberkesanan dan kecekapan pengurusan rawatan talasemia di Malaysia. 2019, **Master Thesis**, USM.
57. Ainon Zahariah bt Samsudin. Microarray based blood gene expression marker for early detection of alzheimer's disease in Malaysian population (National). 2019, **Ph.D** Thesis, UiTM.
58. Suriana Hanim bt Ariffin. A study on the adulterated traditional herbal medicinal products in Malaysia (National). 2019, **Master Thesis**, UiTM.
59. Noor Saadah binti Sahak. whole genome sequencing of Che Wong and Semai and phylogeny of orang asli in peninsular malaysia (National). 2019, **Master Thesis**, UiTM.
60. Thilani Dias. Genomic Factors Influencing Individual Responses To Treatments Used In Rheumatoid Arthritis (International). 2019, **Ph.D** Thesis, Newcastle University, Australia.

**(e) Final Year Project Assessor**

1. Basyirah Afifah Abdul Razak. Assessment of patients' satisfaction towards public healthcare services in Kulim district, Kedah , Malaysia. 2013. **Final Year Project**.
2. Nur Ainina Badzrul Shah. General public's practices on medication storage and disposal in the state of Penang, Malaysia. 2013. **Final Year Project**.
3. Ho Yie Shen. 2018, USM, Farmasi Klinikal. **Final Year Project**.

**(f) Reviewer**

1. Self-medication and patients awareness of the role of pharmacists in Riyadh, Saudi Arabia. Archives of Pharmacy Practice. 2013.
2. Assessment of Type II Diabetes Mellitus Drug Therapy in the Diabetic Clinic of a Tertiary Care Teaching Hospital in Addis Ababa. Archives of Pharmacy Practice. 2014.

3. Evolution and Challenges of Pharmacy Education and Pharmacy Practice in Thailand. Archives of Pharmacy Practice. 2014.
4. 25<sup>th</sup> FAPA congress 2014. Malaysian Journal of Pharmacy. 2014.
5. 14<sup>th</sup> Asian Conference on Clinical Pharmacy 2014. Abstract reviewer.
6. Pattern Of Prescribing Error In Sibu Hospital, Outpatient Setting. Malaysian Journal of Pharmaceutical Sciences. 2014.
7. Clinical Pharmacist Assisted Thromboprophylactic Optimization in General Surgical Patients. Archives of Pharmacy Practice. 2015.
8. How to improve evaluation of doctors' adherence to hypertension guidelines? Archives of Pharmacy Practice. 2015.
9. Kombucha (Bio-tea) ameliorates Isoproterenol induced myocardial damage: A mitochondrial, lysosomal and ultrastructural study. Food Research International. 2015.
10. Malaysian Community Pharmacists As Health Educators: Consumer's Perspectives. Journal of Pharmacy Practice and Research. 2015.
11. Pharmacist-led face-to-face training: an effective strategy for improving inhaler technique in asthma and COPD patients. Malaysian Journal of Pharmaceutical Sciences. 2015.
12. The Impact Of Risk Factors On Life Quality In Patients After Myocardial Infarction. Archives Of Pharmacy Practice. 2016.
13. Clinical Pharmacist Assisted Thromboprophylactic Optimization in General Surgical Patients. Archives Of Pharmacy Practice. 2016.
14. Metabolomic-Guided Discovery Of Alzheimer's Disease Biomarkers From Body Fluid. Journal Of Neuroscience Research. 2016.
15. Atria Score Bleeding Analysis Of Anticoagulants Given To Atrial Fibrillation In patients At Rsup Dr. M. Djamil Padang. Jurnal Sains Farmasi & Klinis. 2016.
16. The Relationship Of Switch Therapy Toward Wound Healing, Length Of Stay And Antibiotic Expenditure Of Patients Appendicitis. Jurnal Sains Farmasi & Klinis. 2016.
17. CPG - Management of Asthma in Adults, 2018, Clinical practice guideline on Management of Asthma in Adults.
18. Metabolomic Analysis of Platelets of Patients with Aspirin Non-response, 2018, Frontiers in Pharmacology.
19. Nutrition knowledge of practising pharmacists, 2018, Public Health Nutrition.
20. Pharmacy Education and Practices in Pakistan; Comparing US and UK Models, 2019, Malaysian Journal of Pharmaceutical Sciences.
21. Prevalence of intensive care unit-acquired infections in different hospitals in Khartoum State-Sudan, 2019, Malaysian Journal of Pharmaceutical Sciences.
22. Current perspectives on the dynamics of Antimicrobial Resistance, 2019, Malaysian Journal of Pharmaceutical Sciences.

**(g) Member of a Panel Discussion / Forum**

1. ReAct Southeast Asia Regional Meeting on Community, Hospital and Policy Interventions to Manage and Control Antibiotic Resistance. 2014. Penang, Malaysia.

2. Collaborative Health Interdisciplinary Lifelong Learning Initiative (CHILLI). 2014. Penang, Malaysia.
3. Knowledge Sharing Program USM-UNPAD 2014. Bandung, Indonesia.
4. Makmal Pemurniaan TeRamPiL Staf Akademik (Revise skilled laboratory for Academic Staff). 2015. Penang, Malaysia.
5. Townhall meeting plan for higher education Malaysia. 2015. Penang, Malaysia.
6. Young Strategic Thinkers for USM Future. 2015. Penang, Malaysia.
7. Karnival Kesihatan, 2018 (State).
8. Panel pra-saringan utk program ijazah sarjana muda sains farmasi, 2019 (University).

#### **(h) Keynote/Invited Speaker**

1. **Baharudin Ibrahim.** 2011. Metabolic in Personalized Therapy. Malaysian Pharmaceutical Society Kedah / Perlis Branch (MPS KPB), Kedah, Malaysia. **Invited Speaker.**
2. **Baharudin Ibrahim.** 2012. Personalised medicine: Introduction of genomics, proteomics and metabolomics in novel drug development and therapy. 2nd International Conference and Exhibition on Pharmaceutical Regulatory Affairs. Hyderabad, India. **Invited Speaker.**
3. **Baharudin Ibrahim.** 2012. Metabolomics of exhaled breath to identify potential biomarkers for diagnosing and phenotyping inflammatory lung diseases. BIT's 3rd Annual World Congress of Biomarkers-2012. Guangzhou, China. **Invited Speaker.**
4. **Baharudin Ibrahim.** 2012. Diabetes and Treatment. Yayasan Bina Ilmu, Penang, Malaysia. **Invited Speaker.**
5. **Baharudin Ibrahim.** 2013. Facilitator and speaker for research methodology for non-academic staff. Penang, Malaysia. **Invited Speaker.**
6. **Baharudin Ibrahim.** 2013. Facilitator and speaker for leadership course for final year pharmacy students. Penang, Malaysia. **Invited Speaker.**
7. **Baharudin Ibrahim.** 2013. Personalized medicine: The role of clinical pharmacist and future application. The 13th Asian Conference on Clinical Pharmacy. Haiphong, Vietnam. **Plenary Speaker.**
8. **Baharudin Ibrahim.** 2013. Good lifestyle and eating habits for diabetics. Kelab Jasa Budi. Penang, Malaysia. **Invited Speaker.**
9. **Baharudin Ibrahim.** 2014. The role of pharmacogenomics and pharmacometabonomics in personalized medicine. 13th IPSF Asia Pacific Pharmaceutical Symposium 2014. Selangor, Malaysia. **Invited Speaker.**
10. **Baharudin Ibrahim.** 2014. Generic Medicine – The Big Picture. Persatuan Pediatric Malaysia dan Kotra Pharma. **Ipoh**, Malaysia. **Invited Speaker.**
11. **Baharudin Ibrahim.** 2014. Generic Medicine – The Big Picture. Pharmacy day Hospital Sultan Abdul Halim. **Kedah**, Malaysia. **Invited Speaker.**



12. **Baharudin Ibrahim.** 2014. Generic Medicine – The Big Picture. Persatuan Pediatric Malaysia dan Kotra Pharma. **Johor, Malaysia. Invited Speaker.**
13. **Baharudin Ibrahim.** 2014. Good Leaders, Good Communicators. Effective Leadership Programme for Future Pharmacists. Penang, Malaysia. **Invited Speaker.**
14. **Baharudin Ibrahim.** 2014. Personalizing drug treatment using pharmacometabonomic approach. 3rd International Conference and Exhibition on Metabolomics and System Biology. San Antonio, USA. **Invited Speaker.**
15. **Baharudin Ibrahim.** 2014. Advanced Clinical Pharmacy Services: Pharmacogenomics and Pharmacometabonomics in Personalized Medicine. 14th Asian Conference on Clinical Pharmacy conference. Terengganu, Malaysia. **Plenary Speaker.**
16. **Baharudin Ibrahim.** 2015. Medication Safety. National Seminar “Quality Assurance System for Patient Safety”. Indonesia. **Keynote Speaker.**
17. **Baharudin Ibrahim.** Chairman of oral session. The 13th Asian Conference on Clinical Pharmacy. 2013. Haiphong, Vietnam.
18. **Baharudin Ibrahim.** 2013. Chairman of oral session. 1st National Conference on quality use of medicines Malaysia.
19. **Baharudin Ibrahim.** 2014. Chairman of Oral session. 14<sup>th</sup> Asian Conference on Clinical Pharmacy. Terengganu, Malaysia.
20. **Baharudin Ibrahim.** 2014. Chairman of Plenary session. 14<sup>th</sup> Asian Conference on Clinical Pharmacy. Terengganu, Malaysia.
21. **Baharudin Ibrahim.** 2015. Medication Safety. Pharmacy Updates 2015. Malacca, Malaysia. **Invited Speaker.**
22. **Baharudin Ibrahim.** 2015. Generic Medicine – The Big Picture. Bahagian Perkhidmatan Farmasi Negeri Kedah. Kedah, Malaysia. **Invited Speaker.**
23. **Baharudin Ibrahim.** 2015. Generic Medicine – The Big Picture. 18th Family Medicine Scientific Conference. Terengganu, Malaysia. **Invited Speaker.**
24. **Baharudin Ibrahim.** 2015. Personalized Medicine to Predict Adverse Drug Reaction and Drug Response. 10th JOHOR SCIENTIFIC MEETING 2015. Johor, Malaysia. **Invited Speaker.**
25. **B. Ibrahim, A. Nori, M A. Sheikh Abdul Kader, M A. Hassali, R. Awang.** 2015. Impact of erectile dysfunction (ED) and other factors on cardio-protective medications non-adherence. Asian Conference on Clinical Pharmacy. **Symposium speaker.**
26. **Baharudin Ibrahim.** 2015. The guarantee system of drugs quality for patients’ safety. National Seminar. University of 17 Agustus 1945 Jakarta, Indonesia. **Keynote Speaker.**
27. **Baharudin Ibrahim.** 2016. Introduction to Medication Safety and Recommended Broad-Based Strategies for Improving Medication Safety in Hospital Setting. Kursus Keselamatan Pengubatan (Medication Safety). **Invited Speaker.**
28. **Baharudin Ibrahim.** 2016. Fundamentals of Pediatric & Geriatric Medication Safety. Kursus Keselamatan Pengubatan (Medication Safety). **Invited Speaker.**
29. **Baharudin Ibrahim.** 2016. Asthma and Metabolic Syndrome - Where is the link? International Seminar - Metabolic Syndrome: Now and Future Trend, Jakarta, Indonesia. **Keynote Speaker.**
30. **Baharudin Ibrahim.** 2016. To become a pharmacist in GOLD Indonesia at 2045. Seminar 'To become a pharmacist in GOLD Indonesia at 2045'. Jakarta, Indonesia. **Keynote Speaker.**

31. **Baharudin Ibrahim.** 2016. Selangkah Ke Alam Farmasi. Olympiad Sains Dan Matematik 2016 Peringkat Negeri Pulau Pinang. **Invited Speaker.**
32. **Baharudin Ibrahim.** 2016. Postgraduate Opportunities. Career Talk 2016. **Invited Speaker.**
33. **Baharudin Ibrahim.** 2016. Personalised Medicine. DCP Lunch Talk series. **Invited Speaker.**
34. **Baharudin Ibrahim.** 2017. Medication safety in special populations (Paediatric & geriatric). Emerging Trends in Pharmacovigilance System, AIMST University, **Invited Speaker.**
35. **Baharudin Ibrahim.** 2017. Health and education. Karnival pendidikan dan kesihatan, Sik, Kedah. **Invited Speaker.**
36. **Baharudin Ibrahim.** 2017. Global Science and Technology Forum, Predicting Aspirin Efficacy and Toxicity Based on Pharmacometabonomics Approach, 5th Annual International Conference Pharma Invited Speaker. International. **Invited speaker.**
37. **Baharudin Ibrahim.** 2017. Personalised Medicine and Clinical Omics – A General Overview, PharmCare Symposium, USM. **Invited speaker.**
38. **Baharudin Ibrahim.** 2017. Pharmacotherapy of acute and chronic myeloid leukemia, Management and Science University. **Invited Speaker.**
39. **Baharudin Ibrahim.** 2017. Pharmacotherapy of meningitis, Management and Science University. **Invited Speaker.**
40. **Baharudin Ibrahim.** 2017. Motivational talk, Community Outreach Programme, USM. **Invited speaker.**
41. **Baharudin Ibrahim.** 2017. Emerging Trends in Pharmacovigilance System, AIMST. **Invited speaker.**
42. **Baharudin Ibrahim.** 2017. Metabolomics Analysis of Blood and Urine to Identify Alcohol-Dependence Biomarkers, International Conference on Metabolomics by Cenetri. **Invited Speaker.**
43. **Baharudin Ibrahim.** 2017. Impact of genetic and non-genetic factors to clopidogrel response in coronary artery disease patients undergoing interventional angiographic procedure, ACCP. **Keynote Speaker.**
44. **Baharudin Ibrahim.** 2018. Community outreach programme, SK Pulau Betong, Pulau Pinang, Pulau Betong, Pulau Pinang, COMMUNITY OUTREACH PROGRAMME (State). **Invited Speaker.**
45. **Baharudin Ibrahim.** 2018. Personalised Medicine and Clinical Omics, Tehran, Iran, ACCP (International). **Invited Speaker.**
46. **Baharudin Ibrahim.** 2018. The future of personalizing medicine, Indonesia, Universitas Islam Indonesia, ICPRP conference (International). **Invited Speaker.**
47. **Baharudin Ibrahim.** 2018. METABOLOMICS ANALYSIS OF BLOOD AND URINE TO IDENTIFY ALCOHOL-DEPENDENCE BIOMARKERS, Bangkok, Thailand, Cenetri, International Conference on Molecular Genetics, Metabolomics & Integrative Biology (International). **Keynote Speaker.**
48. **Baharudin Ibrahim.** 2019. Symposium speaker, Yogyakarta, Universitas Islam Indonesia, International conference on pharmaceutical research and practice (International). **Invited Speaker.**
49. **Baharudin Ibrahim.** 2019. Bengkel hands on statistical methods for research, USM, USM, Bengkel hands on statistical methods for research (University). **Invited Speaker.**

50. **Baharudin Ibrahim.** 2019. Penceramah COP, Jelutong, Penang, USM, COMMUNITY OUTREACH PROGRAMME (State). **Invited Speaker.**
51. **Baharudin Ibrahim.** 2019. Empowering Wellbeing through Evidence-based Integrative Medicine, Penang, USM, International Conference of Integrative Medicine (International). **Invited Speaker.**
52. **Baharudin Ibrahim.** 2019. Plenary Speaker, Kuantan, Pahang, Bahagian Perkhidmatan Farmasi, Pahang, Pharmacy R&D conference Pahang (National). **Keynote Speaker.**

#### **(i) Editorial Board**

1. Editorial Board. Archives of pharmacy practice.
2. Editorial Review Board. Translational Medicine and Biotechnology (TMB) (formerly known as International Journal of Medical Sciences and Biotechnology).
3. Editorial Board. Asian Journal of Pharmaceutical Research and Development.
4. Editorial Board. SOJ Biotechnology.
5. Editorial Board. Higher Education Journal.
6. Editorial Board. Adolescent Psychiatry.
7. Editorial Board. Jurnal Sains Farmasi & Klinis.
8. Review Board. International Conference on Pharmacy Education and Practice 2016. Malaysian Journal of Pharmaceutical Sciences.
9. Editorial Board. World Journal of Psychiatry and Mental Health Research.
10. Guest Editor: Biomarker Insights.
11. Reviewer, Conference proceeding of ICPRP 2018, - (International).
12. Advances in Cardiovascular and Cerebrovascular Diseases, 2018, (International).
13. Advancements in Bioequivalence & Bioavailability, 2018, (International).
14. Editorial Board Member, Current Analysis on Biotechnology, 2018, (International).
15. Journal of Medicines Development Sciences, 2018, (International).
16. Journal of Pulmonology Study and Treatment, 2018, (International).
17. Madridge Journal of Novel Drug Research, 2018, (International).
18. Madridge Journal of Pharmaceutical Research (MJPR), 2018, (International).
19. Neurology Current Research, 2018, (International).
20. Online International Journal of Genetics & Genomics Scientific Networks, 2018, (International).
21. Pharmacy (OA Journal), 2018, (International).
22. Journal of Pulmonology Study and Treatment, 2019, (International).
23. Madridge Journal of Novel Drug Research, 2019, (International).
24. Pharmacy (OA Journal), 2019, (International).
25. Current Analysis on Biotechnology, 2019, (International).
26. Advances in Cardiovascular and Cerebrovascular Diseases, 2019. (International).
27. Advancements in Bioequivalence & Bioavailability, 2019, (International).
28. Neurology Current Research, 2019, (International).

## **10. MEMBERSHIP IN PROFESIONAL/ACADEMICS ASSOCIATION/OTHERS**

1. Member. Since 2011. The University of Manchester Alumni Association.
2. Member. 2010-2012. American Thoracic Society.
3. Member. Since 2012. OMICS Group Conferences.
4. Member. Since 2012. Malaysian Pharmaceutical Society.
5. Member. Universiti Sains Malaysia Alumni. Since 2005.
6. Member. Master of Clinical Pharmacy Alumni. Since 2007.
7. Excecutive member (AJK). Academic and Administrative Staff Association (PKAPUSM). Since 2012.
8. Secretary. Academic and Administrative Staff Association (PKAPUSM).. Since 2015.
9. Member Persatuan Bina Ilmu, Pulau Pinang. 2014-2015.
10. Technical Committee Member. 2012. 26th Scientific Meeting of Malaysian Society of Pharmacology & Physiology.
11. Scientific Committee Member. 2013. 1st national conference on quality use of medicine 2013.
12. Program leader. 2013. HTAsiaLink Conference 2013.
13. Chairman of Scientific Committee. 14<sup>th</sup> Asian Conference on Clinical Pharmacy. 2014. Terengganu, Malaysia.
14. Secretariat, PPSF teaching excellence colloquium, 2014.
15. Chairman, PCA and PLS analysis using SPSS and SIMCA workshop: A hands-on approach. 2014.
16. Organizing Committee. 25th FAPA congress 2014. Sabah, Malaysia.
17. Chairman, Community Program, RTP village, Sik, Kedah. 27 September 2014.
18. Academic training coordinator. Since 2012.
19. Member of PTJ tender. 15/7/2014 - 31/12/2015.
20. Member NMR 700MHz technical committee. 2013.
21. Member. Staff club (Badminton) USM. Since 2012.
22. Chairman of Higher Education Journal Committee, USM. 2013.
23. Member of board of School of Pharmaceutical Sciences (PPSF). Since 2011.
24. Member of lecturer-student committee (PPSF). Since 2013.
25. Adviser for PPSF student association. Since 2012.
26. Member of sustainable teaching and learning PPSF. Since 2013.
27. Secretariat of community and industry linkage PPSF. Since 2013.
28. Adviser for Pharmilyday event PPSF. 2013.
29. Badminton player for interdepartment (SUKJAP). USM. 23/5/2012 - 24/5/2012.
30. Badminton player for inter varsity (SUKUM) ke-38. Badminton. Universiti Kebangsaan Malaysia. 31/10/2013 - 11/11/2013.
31. Member of English Panel. Since 2015.
32. Member of school's Malaysian Qualification Agency. Since 2015.
33. Chairman. International Conference on Pharmacy Education and Practice 2016, Penang, Malaysia.
34. Honorary Secretary. Persatuan Kakitangan Akademik dan Pentadbiran USM. 2015
35. Exco Member. Malaysian Pharmaceutical Society Penang Area Committee. 2016. National.
36. Malaysian Board of Pharmacy, 2018-2018 (National).
37. Young Scientist Network, Academy Science of Malaysia, 2017-2020 (National).
38. Malaysian Pharmaceutical Society, 2019, (National).

39. Malaysian Academy of Pharmacy, 2019-2019 (National).
40. Young Scientist Network, Academy Science of Malaysia, 2017-2020 (National).
41. Assistant Secretary, Malaysian Pharmaceutical Society, 2019, (State).
42. Professional Status Granted, 2019, Expert for the 2019 CCM stem up challenge, Academy of Sciences Malaysia, 24/04/2019 - 24/04/2019.
43. Professional Status Granted, 2019, Registered Pharmacist, Malaysian Board of Pharmacy, 01/01/2019 - 31/12/2019.

## **11. CONSULTANCY**

1. Research & Development in Oil Palm Phenolics "OPP" as a Preventive Agent in Type 2 Diabetes and its Modulating Effects in Uncontrolled Insulin Treated Type 2 Diabetes Mellitus": Pharmacometabonomics (OPP3). Malaysian Palm Oil Board (MPOB). RM 195,000.00. **Baharudin Ibrahim**. 11/2014-5/2017.
2. Non-invasive Volatile Organic Compounds (VOC) profiling by smart nanosensor array to predict steroid response for asthmatic patients. Top-down MSPK project by MIMOS. Estimated budget 2,562,400.00. Estimated duration 06/2015 – 05/2018.
3. Retail Pharmacist. Koperasi Universiti Sains Malaysia.
4. Consultant for Workshop on Preparation of Guidelines for Treatment Management of Salicylate Poisoning Cases, National Poison Center. Since 2015.
5. Consultant for Health Counselling in Sekolah Kebangsaan Padang Chichak, Jeneri, Sik, Kedah. 2017.
6. **Baharudin Bin Ibrahim**. Research consultant, Innoscience Reasearch Sdn Bhd, 08/07/2019 - 08/07/2021 (National).
7. **Baharudin Bin Ibrahim**. PCA and PLS analysis using SPSS and SIMCA workshop: A hands-on approach, Universiti Sains Malaysia, 18/02/2014 - 19/02/2014, RM1,500.00 (University).
8. **Baharudin Bin Ibrahim**. Good Leaders, Good Communicators, PPSF, USM, 01/11/2014 - 01/11/2014, RM200.00 (University).
9. **Baharudin Bin Ibrahim**. Independent Consultant JEPPEM-USM, 25/11/2018 - 24/11/2021 (University).

## **12. SERVICES TO COMMUNITY/INDUSTRY**

### **(a) International**

1. ReAct Southeast Asia Regional Meeting on Community, Hospital and Policy Interventions to Manage and Control Antibiotic Resistance. 21-23 November 2014. Penang, Malaysia.

2. Project Member, Committee International conference on molecular genetics, metabolomics & integrative biology, Community, 26/02/2018-28/02/2018 (International), Thailand.
3. Project Member, International Conference on Drug Discovery and Translational Medicine 2018, Community, 04/12/2018-05/12/2018 (International).
4. Project Member, Committee member, Community, 22/11/2019-03/12/2020 (International).

**(b) National**

1. Community Wellness Programme. Jalan Maklomm 1 Malaysia Community Hall, Penang. 6 Jun 2012.
2. Community Health Program, RTP village, Sik, Kedah. 27 September 2014.
3. Project Member, NATIONAL SCIENCE CHALLENGE, Community, 04/07/2018-11/07/2018 (National).
4. Project Member, Pharmacy Convention, Community, 11/08/2018-12/08/2018 (National).
5. Project Member, Pharmacy Got Talent, Community, 11/08/2018-11/08/2018 (National).
6. Project Member, CCM Stem up challenge, Community, 24/04/2019-24/04/2019 (National).

**(c) State**

1. Member Persatuan Bina Ilmu, Penang, 2014-2015.
2. Run for your health. World Pharmacist Day, USM. Penang, 2016.
3. Chairman, Health and Education Carnival, Jeneri, Sik, Kedah, 2017.
4. Project Member, Penang World Pharmacists' Day, Community, 2017.
5. Project Member, Orang Asli Outreach Program, Community, 2017.
6. Project Leader/Coordinator, Community Outreach Program, 2017.
7. Project Leader/Coordinator, Baktisiswa Kedah, Community, 20/01/2018-20/01/2018 (State).
8. Project Leader/Coordinator, Program Khidmat Masyarakat, Community, 09/03/2019-09/03/2019 (State).

**(d) District / Village / Institution**

1. Bone Density Test. Kelab Jasa Budi, USM. 25 October 2011.
2. Know your medication exhibition. Pejabat Kesihatan Seberang Perai Tengah, Penang. 29 Februari 2012.
3. Community Wellness Program. Sg. Pinang Community Hall, Pulau Pinang. 8 April 2012.
4. Community Wellness Program. IJM Flat, Taman Sri Damai, Batu Lanchang, Pulau Pinang. 30 September 2012.
5. Old Folk home university-community joint program. Rumah Orang Tua Jubli Perak, Jalan Sungai Dua, Penang. 3 July 2012.
6. Health Counseling, Kelab Jasa Budi, USM. 2013.
8. Pharmacy Day 2014, Hospital Sultan Abdul Halim, Kedah. 3 December 2014.
9. Health Screening Community Project, The Macallum Flat, 17 January 2015.

10. Community Wellness Programme & Launching of Community Clinic, Taman Pekaka, Penang. 17 October 2015.
11. Project Member, Kaunselor Bahagian Klinikal Pameran Konvokesyen, Community, 2016.
12. Pengerusi Rancangan, Pusat Pengajian Sains Farmasi, 01/01/2019-31/12/2021.
13. University Committee, Ahli Persatuan Kakitangan Akademik dan Pentadbiran USM, 01/01/2018-15/01/2018 (University).
14. School Committee, Panel temuduga program ijazah sarjana muda farmasi USM, 22/05/2018-25/05/2018 (School).
15. University Representative (Sports and Non-Academic Activities), Badminton friendly with singapore, 23/03/2018-26/03/2018 (University).
16. School Committee, AJK Alumni, 01/03/2018-31/12/2019 (School).
17. University Committee, Penyediaan Pelan Strategik dan Pembangunan Pelan Tindakan USM 2018-2022, 12/01/2018-12/01/2018 (University).
18. School Committee, AJK Bengkel Theory & Hands-On Approach: Aseptic Dispensing & Oncology Pharmacy Intensive Course, 02/01/2018-31/08/2019 (School).
19. School Committee, AJK sumber manusia PTJ, 01/01/2018-31/12/2018 (School).
20. University Committee, Bendahari PKAPUSM, 01/01/2018-31/12/2018 (University).
21. University Committee, Wakil Majlis bersama jabatan untuk PKAP, 01/01/2018-31/12/2018 (University).
22. University Committee, wakil Tabung kebajikan staf untuk PKAP, 01/01/2018-31/12/2018 (University).
23. University Committee, Convener badminton USM, 01/01/2018-31/12/2019 (University).
24. School Committee, Ketua Pengawas, 23/05/2018-23/05/2018 (School).
25. School Committee, Pengawas Peperiksaan, 24/05/2018-24/05/2018 (School).
26. University Representative (Sports and Non-Academic Activities), SUKUM, 10/08/2018-18/08/2018 (University).
27. University Committee, Pembawa Cokmar, 25/10/2018-25/10/2018 (University).
28. School Committee, AJK Alumni Tea, 24/11/2018-24/11/2018 (School).
29. University Committee, Naib Presiden PKAP, 01/01/2019-31/12/2019 (University).
30. University Committee, Convener badminton USM, 01/01/2019-31/10/2019 (University).
31. University Committee, Wakil Majlis bersama jabatan untuk PKAP, 01/01/2019-31/12/2019 (University).
32. School Committee, AJK Jawatankuasa Ijazah Tinggi, 01/01/2019-31/12/2021 (School).
33. School Committee, AJK OBE & Akreditasi, 01/01/2019-31/12/2021 (School).
34. University Committee, Pembawa Cokmar, 27/09/2019-27/09/2019 (University).
35. University Committee, USM Convocation, 23/09/2019-29/09/2019 (University).
36. University Committee, Pengurus pasukan badminton, 01/07/2019-31/08/2019 (University).
37. Committee, Committee member, 01/05/2019-02/11/2019 (School).
38. University Committee, AJK jawatankuasa tabung kebajikan staf, 05/04/2019-05/04/2019 (University).
39. School Committee, Pengawas Peperiksaan, 14/01/2019-14/01/2019 (School).

40. School Committee, Ketua Pengawas, 09/01/2019-09/01/2019 (School).
41. School Committee, AJK keselamatan dan kesehatan, 01/01/2019-31/12/2021 (School).
42. School Committee, AJK Alumni PPSF, 01/01/2019-31/12/2021 (School)
43. School Committee, AJK Penyelidikan PPSF, 01/01/2019-31/12/2021 (School).
44. Volunteer, Health Counsellor Pharmex 2018, Community, 26/10/2018-26/10/2018 (University).
45. Volunteer, COP Jelutong, Community, 16/03/2019-16/03/2019 (District).