

PROFILE			
1	NAME	YUSLINA ZAKARIA	
2	ACADEMIC POSITION	SENIOR LECTURER	
3	STATUS OF APPOINTMENT	PERMANENT	
4	CITIZENSHIP	MALAYSIAN	
5	EDUCATION	PhD (Bioinformatics), UNSW, Australia MSc Comp Sc. (Bioinformatics), UTM BSc (Hons) Computer (Software Engineering), UTM	
6	WORKING EXPERIENCE	<ul style="list-style-type: none"><li>• Senior Lecturer (DM52) Faculty of Pharmacy, Universiti Teknologi MARA, Puncak Alam, 15 July 2016 – present</li><li>• Lecturer (DM45) Faculty of Pharmacy, Universiti Teknologi MARA, Shah Alam, 1 November 2006 – 14 July 2016</li><li>• Lecturer, School of Health Sciences, KUTPM (currently MSU), July – October 2006</li><li>• Lecturer (Part Time/Full Time), Jabatan Sains Komputer dan Matematik, Universiti Teknologi MARA, Pulau Pinang, 1 November 2005 – 30 June 2006</li></ul>	
7	CURRENT ACADEMIC RESPONSIBILITIES	<ul style="list-style-type: none"><li>• Resource Person for PHC410 (Pharmaceutical Biostatistics)</li></ul> <ol style="list-style-type: none"><li>1. PHC410 – Pharmaceutical Biostatistics</li><li>2. PHC566 – Research I</li><li>3. ENT530 – Principles of Entrepreneurship</li><li>4. PHC462 – Pharmaceutical Biochemistry</li><li>5. PHC650 – Drugs in Sports</li><li>6. PHC661 – Traditional Medicine</li><li>7. PHC653 – Veterinary Pharmacy</li></ol>	
8	ADMINISTRATIVE RESPONSIBILITIES	<ol style="list-style-type: none"><li>1. Penyelaras (Unit Hazad Fizikal &amp; Psikososial) Centre for Occupational Safety, Health &amp; Wellbeing, UCS</li><li>2. UCS Big Data Taskforce</li><li>3. UiTM CIDL (ODL) Taskforce</li><li>4. Internal Auditor (Faculty of Pharmacy)</li><li>5. SOSHCo Committee, Faculty of Pharmacy</li><li>6. COVID-19 Taskforce (UCS)</li><li>7. COVID-19 Taskforce (Faculty of Pharmacy)</li><li>8. Jawatankuasa Pembangunan Pelajar (Faculty of Pharmacy)</li></ol>	

9	<b>ACADEMIC/RESEARCH SUPERVISION (POSTGRADUATE)</b>	<ol style="list-style-type: none"> <li>1. Siti Fatimah Mohd Taha Program: PH751 – MSc in Pharmacoinformatics Status: <i>Graduated (2018)</i> Title: Modelling the Classification of Twilight Zone Proteins Using Structure-based Phylogenetic Inference</li> <li>2. Ernie Zuraida Ali Program: PH951 – PhD in Pharmacoinformatics Status: <i>Graduated (2019)</i> Title: Structural Characterization and Functional Studies of Human Ornithine Transcarbamylase Enzyme (OTCase) Using Bioinformatics and Molecular Dynamics Simulation</li> <li>3. Dr S Maria Awaluddin Program: MD780 – MSc in Medicine Status: <i>Graduated (2020)</i> Title: Determinants of Treatment Success Among Children with Tuberculosis (TB) Using MyTB Version 2.1 and Their Parents' Perspectives on Successful Outcome</li> <li>4. Ahmad Tamim Ghafari Program: PH766 – MSc in Pharmacology Status: <i>Graduated (2021)</i> Title: Evaluation of the Synergistic Anti-Inflammatory Effects of Aqueous Extract of Vitex Trifolia Leaves with Same Common Non-Steroidal Anti-Inflammatory Drugs, In-Vitro and In-Silico</li> <li>5. Faiza binti Namat Program: PH970 - PhD in Clinical Pharmacy Status: On-going Title: Development and Validation Of Cancer Associated Thrombosis Predictive Model Among Newly Diagnosed Hospitalized Patient with Carcinoma</li> <li>6. Dr Siti Aishah binti Abas Program: MD931 – Doctor in Public Health (DrPH) Status: On-going Title: Gamified-Reality-Video-Observed-Therapy Mobile Apps Development and Intervention Study for Improved Tuberculosis Treatment Adherence Among Working Age Population</li> <li>7. Dr Ahmad Yusri Abd Rani Program: MD931 – Doctor in Public Health (DrPH) Status: On-going Title: Pattern, characteristics and survivorship of TB adult cases with treatment default in Malaysia: A 5-year retrospective cohort study from 2014 to 2018</li> </ol>
---	---	--

		<p>8. Mohammad Nasir Abdullah Program: CS953 – PhD in Statistics Status: On-going Title: Bridging the Gap Between Transcriptomics, Proteomics and Metabolomics in Identifying Differentially Regulated Genes in Alzheimer's Disease.</p> <p>9. Norhisham Haron Program: PH957 – PhD in Biochemistry Status: On-going Title: Nutrient Sensing of Stevioside in the Insulin Resistance Cell Culture Model</p>
10	<b>RESEARCH INTERESTS/ PROJECTS</b>	<ul style="list-style-type: none"> <li>• Structural Bioinformatics</li> <li>• Big Data Analytics, Data Mining &amp; Machine Learning</li> <li>• Protein Classification and Prediction</li> <li>• Protein Evolution and Phylogeny-based Study</li> <li>• GWAS, Tuberculosis &amp; Autoimmune diseases</li> </ul>
11	<b>CONSULTATION / EXPERTISE PROJECT</b>	<ul style="list-style-type: none"> <li>• National TB Research – Tuberculosis Infection: From Exposure To Disease (2013-2018) Year: 2019 - present Role: Big Data Consultant Collaborators: Institut Kesihatan Umum (IKU) &amp; Kementerian Kesihatan Malaysia (KKM)</li> </ul>
12	<b>PUBLICATIONS</b>	<p>Sharani, Z. Z., Ismail, N., Yasin, S. M., Zakaria, Y., Razali, A., Demong, R., ... &amp; Ismail, Z. (2021). Characteristics and Determinants of Treatment Default Among Smokers With Tuberculosis in an Industrial State of Malaysia: A Registry-based Study of the Years 2013-2017. <a href="https://doi.org/10.21203/rs.3.rs-823584/v1">https://doi.org/10.21203/rs.3.rs-823584/v1</a></p> <p>Sedigi, N., Jahidin, A. H., Hasan, M. H., &amp; Zakaria, Y. (2021). Two-Pore Channels in Cancer Hallmarks: An Update Review. <i>Biomedical and Pharmacology Journal</i>, 14(3), 1481+.</p> <p>Ghafari, A. T., Jahidin, A. H., Zakaria, Y., &amp; Hasan, M. H. (2021). Phytochemical Screening and High-performance Thin-layer Chromatography Quantification of Vitex trifolia Leaves Hydro-alcoholic Extract: Potential Anti-inflammatory Properties. <i>Journal of Pharmaceutical Research International</i>, 33(28A), 111-121. <a href="https://doi.org/10.9734/jpri/2021/v33i28A31515">https://doi.org/10.9734/jpri/2021/v33i28A31515</a></p> <p>Awaluddin, S. M., Ismail, N., Yasin, S. M., Zakaria, Y., Mohamed Zainudin, N., Kusnin, F., Mohd Yusoff, M., &amp; Razali, A. (2020). Parents' Experiences and Perspectives Toward</p>

	<p>Tuberculosis Treatment Success Among Children in Malaysia: A Qualitative Study. <i>Frontiers in Public Health</i>, 8, 577407. <a href="https://doi.org/10.3389/fpubh.2020.577407">https://doi.org/10.3389/fpubh.2020.577407</a></p> <p>Awaluddin, S.M., Ismail, N., Zakaria, Y. et al. Characteristics of paediatric patients with tuberculosis and associated determinants of treatment success in Malaysia using the MyTB version 2.1 database over five years. <i>BMC Public Health</i> 20, 1903 (2020). <a href="https://doi.org/10.1186/s12889-020-10005-y">https://doi.org/10.1186/s12889-020-10005-y</a></p> <p>S. M. Awaluddin, N. Ismail, S. M. Yasin, Y. Zakaria et al., "Exploring Challenges Faced by Parents of Children with Tuberculosis in Klang and Petaling Districts of Selangor State, Malaysia: A Qualitative Study," <i>J. Clin. Heal. Sci.</i>, vol. 5, no. 2, pp. 46–56, 2020. <a href="https://doi.org/10.24191/jchs.v5i2.10114">https://doi.org/10.24191/jchs.v5i2.10114</a></p> <p>Mohammad Nasir Abdullah, Yap Bee Wah, Yuslina Zakaria, Abu Bakar Abdul Majeed, Ong Seng Huat (2019). Discovering potential blood-based cytokine biomarkers for Alzheimer's disease using Firth Logistic Regression. <i>Italian Journal of Public Health</i>, Vol 16 (4). <a href="https://doi.org/10.2427/13173">https://doi.org/10.2427/13173</a>.</p> <p>Ernie Zuraida Ali, Yuslina Zakaria, Mohd Amran Mohd Radzi, Lock Hock Ngu, and Siti Azma Jusoh. Mutation Study of Malaysian Patients with Ornithine Transcarbamylase Deficiency: Clinical, Molecular, and Bioinformatics Analyses of Two Novel Missense Mutations of the OTC Gene. <i>BioMed Research International</i>, vol. 2018, Article ID 4320831, 15 pages, 2018. <a href="https://doi.org/10.1155/2018/4320831">https://doi.org/10.1155/2018/4320831</a>.</p> <p>Siti Fatimah Mohd Taha &amp; Yuslina Zakaria. Classification of twilight zone proteins using a structure-based phylogenetic approach. Paper presented at the ISCAIE 2018 - 2018 IEEE Symposium on Computer Applications and Industrial Electronics, 13-18. doi:10.1109/ISCAIE.2018.8405437</p> <p>Siti Nooraishah Binti Hussin, Yuslina Binti Zakaria, Noor Jannah Binti Yob, Mohamed Razeef Bin Abdul Razak, Lili Eliana Binti Mohd Radzuan, Azahar Bin Harun. Pharmacy education: Pictograms apps as a public tool for understanding medicine leaflet information. 1st International Conference on Pharmacy Practice 2018. 26 – 27 June 2018. Concorde Hotel, Shah Alam, Malaysia.</p> <p>Nurul Asyikin Muhammed, Ernie Zuraida Ali, Mizaton Hazizul Hasan, Yuslina Zakaria. In Silico Molecular Docking Studies of Beta-sitosterol against Cyclooxygenase Enzymes. 5th International Conference on Pharmaceuticals, Nutraceuticals and Cosmetic Science (IPNaCS2017). 3 – 4 Ogos 2017. The Tawana Hotel, Bangkok, Thailand</p>
--	--

		<p>Ahmad, M. K. Nordin, M. F. Saaid, J. Johari, R. A. Kassim and Y. Zakaria, "Remote control temperature chamber for virtual laboratory," <i>2017 IEEE 9th International Conference on Engineering Education (ICEED)</i>, Kanazawa, 2017, pp.206-211. doi: 10.1109/ICEED.2017.8251194</p> <p>Mohammad Nasir Bin Abdullah, Yap Bee Wah, Yuslina Binti Zakaria, Abu Bakar Bin Abdul Majeed (2016). Metabolites selection and classification of metabolomics data on Alzheimer's disease using random forest. <i>Soft Computing in Data Science (SCDS 2016)</i>. 21 – 22 September 2016, Hotel Pullman, Bangsar, Kuala Lumpur.</p> <p>Ernie Zuraida Ali, Yuslina Zakaria, Mohd Amran Mohd Radzi and Siti Azma Jusoh (2015). Predicting Effect of Missense Mutations at Active Site in Ornithine Transcarbamylase (OTC) Gene: In-Silico Webserver and Molecular Docking Analysis, <i>Asian Congress on Biotechnology 2015 (ACB2015)</i>. 15 – 19 November 2015. Kuala Lumpur, Malaysia.</p> <p>Mohammad Nasir Abdullah, Yap Bee Wah, Abu Bakar Abdul Majeed, Yuslina Zakaria (2015). Gene Selection and Classification of Metabolomics Data on Alzheimer's Disease Using Random Forest, <i>i-Sihat Post Conference Symposium</i>. 13 August 2015. Kuala Lumpur, Malaysia.</p> <p>Yuslina Zakaria, Merridee Wouters, W. Bret Church, Bruno A. Gaeta (2011). Inference of Phylogenetic Trees from Protein Structural Information, <i>InCoB/ICSB-Asia Joint Conference</i>. 30 Nov-2 Dec 2011. Kuala Lumpur, Malaysia.</p> <p>Yuslina Zakaria, Merridee Wouters, W. Bret Church, Bruno A. Gaeta (2011). Inference of Phylogenetic Trees from Protein Structural Information, <i>LES HDR Conference</i>. Nov 11. Lorne, Melbourne, Australia,</p>
13	RESEARCH GRANTS	<p><u>Principal Investigator</u></p> <p>Modelling of Adverse Drug Reactions Related to Polypharmacy in Tuberculosis Using Predictive Deep Learning Algorithm. 7 September 2021 – 6 September 2024. RM 100,000. Ongoing.</p> <p>Modelling The Evolutionary Mechanism Of Alzheimer's Disease Proteins Through Integrating Sequence And Structure-Based Phylogenetic Methods. FRGS. 1 Nov 2015 – 31 October 2017. RM 90,000. Completed.</p>

		<p><u>Co-Investigator</u></p> <p>Implementation And Economic Evaluation Of Gamified Mobile Apps Tool For Improved Treatment Adherence Among Working-Aged Tuberculosis Patients In Malaysia. International Grant (WHO). 1 June 2019 – 31 December 2020. Ongoing.</p> <p>Machine Learning Algorithms For High Dimensional Biomarker Data Classification. Bestari. 1 July 2018 – 30 June 2020. RM 30,000. Ongoing.</p> <p>High Cell Density Cultivation Of Lactobacillus Plantarum In A Fed-Batch System. Lestari. 1 July 2016 – 30 June 2018. RM 20, 000. Completed.</p> <p>Elucidation of Anticancer Mechanisms of Clinacanthus nutans in Breast Cancer. RAGS. 1 Dec 2014 – 30 November 2016. RM 80, 000. Completed.</p> <p>Genome-wide genetic marker discovery and genotyping of Malaysian Mahseer (Tor spp). Malaysian Flagship-Empurau Grant (KPT) using Next Generation Sequencing. 2012-2015. Completed.</p>
14	AWARDS	<p>Certified Data Science Specialist from iTrain Asia. 20 – 24 November 2017.</p> <p>Anugerah Perkhidmatan Cemerlang (2019), Faculty of Pharmacy.</p> <p>Anugerah Perkhidmatan Cemerlang (2015).</p> <p>Gold Medal for IIDEX 2021. ViNSAID: A Step Closer Towards Safer Anti-inflammatories. Invention: Inventor Category.</p> <p>Gold Medal for IIDEX 2020. Vitex Pain Away Chewable Tablet. Invention: Inventor Category.</p> <p>Gold Medal for IIDEX 2019. VNest: Be Slim, Be Gorgeous. Invention: Inventor Category.</p> <p>Bronze medal for IIDEX 2018. Bridgelt: Future Collaborations Made Easy (IIDEX2018). Invention: Inventor Category.</p> <p>Gold Medal for IIDEX 2017. StigmaC©: Chewable table for pain. Invention: Inventor Category.</p> <p>Bronze Medal for IIDEX 2016. iPIL – An Integrated</p>

		<p>Mobile Patient Information Leaflet. Invention: Inventor Category.</p> <p>Bronze Medal for IIDEX 2015. My TDM Apps – An Accurate and Fastest Therapeutic Drug Monitoring Application. Invention: Inventor Category.</p>
15	<b>INVOLVEMENT IN PROFESSIONAL ORGANISATIONS</b>	<p>Malaysian Pharmaceutical Society (MPS)</p> <p>International Society for Computational Biology (ICSB)</p> <p>The Institute of Electrical &amp; Electronics Engineers (IEEE)</p> <p>Malaysian Society of Bioinformatics &amp; Computational Biology (MASBIC)</p>
16	<b>PARTICIPATION IN CONTINUING EDUCATION</b>	<p><b><u>Invited Speaker</u></b></p> <p>Invited Speaker. Program Pembangunan Bakat Analitik Data Raya. 8 – 9 Ogos 2019.</p> <p>Facilitator. Program Pembangunan Bakat Analitik Data Raya. 15 – 16 Julai 2019.</p> <p>Invited Speaker. Data Analysis for National TB Contact. Institut Kesihatan Umum (IKU), Kompleks NIH, Setia Alam. 15 Mei 2019.</p> <p>Invited Speaker. Program Pembangunan Bakat Analitik Data Raya (Data Analysis Using R for UiTM Staff). 24 Mei – 19 Julai 2018</p> <p>Invited Speaker. Program Pembangunan Bakat Analitik Data Raya (Data Analysis Using R for UiTM Students). 30 Julai – 14 Ogos 2018</p> <p>Invited Speaker. Hands On LaTeX 2. 13 March 2015, Bilik Seminar Al-Haytham, Aras 8, FKE UiTM.</p> <p>Invited Speaker. Molecular Informatics Tools in Ageing Research. I-Sihat Post Conference Symposium (Ageing in Malaysia: From Molecules to Community). 13 August 2015. Institut Latihan Dewan Bandaraya, Kuala Lumpur.</p> <p>Trainer. Bengkel Skrin JSU Blueprint. 7 October 2015. Faculty of Pharmacy, UiTM Puncak Alam.</p>

	<p><b><u>Thesis Examiner:</u></b></p> <p>PhD (Pharmacoinformatics) – Understanding The Progression of Metastatic Breast Cancer (MBC) Through The Data Mining of Clinical, Phenotype and Genotype Data Field: Bioinformatics, Data Mining &amp; Machine Learning</p> <p>MSc (Pharmacogenomics) – Whole Genome Sequencing of Che Wong and Semai and Phylogeny of Orang Asli in Peninsular Malaysia Field: Bioinformatics &amp; Genomics</p> <p><b><u>Article Reviewer/Technical Program Committee:</u></b></p> <p>2021 1st International Conference on Electronic and Electrical Engineering and Intelligent System (ICE3IS 2021) 2021 6th IEEE International Conference on Recent Advances and Innovations in Engineering (ICRAIE 2021). IEEE Symposium on Industrial Electronics &amp; Applications (ISCAIE 2021) IEEE Symposium on Computer Applications &amp; Industrial Electronics (ISCAIE 2020) IEEE International Conference on Control System, Computing and Engineering (ICCSCE 2020) IEEE Symposium on Computer Applications &amp; Industrial Electronics (ISCAIE 2019) IEEE Symposium on Computer Applications &amp; Industrial Electronics (ISCAIE 2018) International Conference on Control System, Computing and Engineering (ICCSCE 2018) 7<sup>th</sup> International Conference On Computational-System Biology and Bioinformatics 2016 (CSBIO 2016)</p> <p><b><u>Development of New Programme (Committee):</u></b></p> <p>PH773 – MSc in Molecular Informatics</p> <p><b><u>Others:</u></b></p> <p>Ketua Pembangun dan dan Pembangun Bahan Kursus Massive Open Online Courses (MOOC) – 2017 – present.</p> <p>Reviewer – Curriculum Review for Bachelor's in Biomolecule Science (AS244). Faculty of Applied Science, UiTM Shah Alam. 2016.</p> <p>Judge – Young Innovate Selangor 2016 (State Level) at UiTM Puncak Alam.</p>
--	---



17	<b>COMMUNITY SERVICES</b>	<p>MISI7 Sukarelawan Program Pek Ramadhan Selangor. 25 May 2019.</p> <p>Facilitator Program Akhlak dan Keperibadian Minggu Destini Siswa. (September 2018 – 2019)</p> <p>Student Development Programme of Faculty of Pharmacy (30 students)</p> <p>Facilitator for Motivational programme – Program Bina Keyakinan Diri dengan Play Therapy (March 2016).</p> <p>Joined community programme “Public Health Pharmacy Carnival” on 14th May 2016.</p>
----	---------------------------	---