

SYAHRUL IMRAN ABU BAKAR

Address: Atta-ur-Rahman Institute for Natural Products Discovery,
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Address : DT6, Kampung Pulau, Durian Tunggal, 76100 Melaka

Date of Birth : 13/10/1988

EDUCATION

- 2013-2016** ○ **PhD, Organic synthesis/Medicinal chemistry**
Atta-ur-Rahman Institute for Natural Products Discovery
Universiti Teknologi MARA Puncak Alam, Malaysia
Thesis title: Synthesis, Bioactivity Evaluation and Computational Studies of Bisindolylmethane and Flavone Derivatives
- 2009-2011** ○ **B.Sc. (Hons.), Applied Chemistry**
Universiti Teknologi MARA Shah Alam, Malaysia
Thesis title: Synthesis and Antioxidant Activity Evaluation of Some *Meta*- and *Para*-Substituted-9,10-Anthraquinones
- 2006-2009** ○ **Diploma in Industrial Chemistry**
Universiti Teknologi MARA Arau, Perlis

WORK EXPERIENCE

- Aug 2018-present** **Fellow**
Atta-ur-Rahman Institute for Natural Product Discovery, UiTM Puncak Alam
- 1) Fellow of Atta-ur-Rahman Institute for Natural Product Discovery
 - 2) Scientific committee for Metabolomics seminar 2017
- Jun 2017-present** **Senior Lecturer (DM51)**
Faculty of Applied Sciences, Universiti Teknologi MARA
- 1) Assistant director - RSC accreditation for Chemistry courses for Faculty of Applied Sciences UiTM
 - 2) Committee member - Big Data Initiative UiTM Puncak Alam
 - 3) Resource person (Medicinal Chemistry)

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**Aug 2016 –
May 2017**

Postdoctoral Scholar

Atta-ur-Rahman Institute for Natural Products Discovery

- 1) Committee for AuRIns student Colloquium 2017
- 2) Scientific committee for NASIC-UiTM workshop 2016
- 3) Committee for AuRIns Research Summit Day 2016

**Sep 2011–
Mar 2013**

Analytical Method Development & Validation Chemist

Kotra Pharma Sdn. Bhd., Quality Control Department, Melaka, Malaysia

- 1) Lead analytical method validation and method development section.
- 2) Organize and manage schedule for analytical method validation and development projects.
- 3) Develop new analytical methods and prepare analytical validation protocols
- 4) Perform analytical method development, validation and cleaning validation.
- 5) Provide training and technical support for newly developed and validated analytical methods.
- 6) Provide regulatory affairs with support and advice on issues related to method development and validation.
- 7) Familiar with various pharmacopeia (USP35, BP2012, and EP).
- 8) Audit experience (BPFK and Jordan FDA).

**Dec 2008–
April 2009**

Assistant Chemist (Internship)

Jabatan Kimia Malaysia (Melaka), Environmental and Food Analysis

Department

- 1) Perform analytical tests (total suspended solids, oil and grease content and BOD₃) according to APHA methods.
- 2) Perform volumetric analysis for micropipettes and glassware.
- 3) Determine detection limit for oil and grease and total suspended solid dried
- 4) Carried out Chemical Health Risk Assessment (CHRA)
- 5) Perform analysis to determine presence of cyclamate and saccharin in food and fruit samples.

OTHER EXPERIENCES

**Mar 2015–
June 2015**

Visiting Doctoral Student (Computational Chemistry)

**Pharmaceutical Design and Simulation Laboratory, School of
Pharmaceutical Sciences, Universiti Sains Malaysia, Pulau Pinang,
Malaysia**

- 1) QSAR analysis and molecular docking studies.
- 2) Homology modelling and protein validation.
- 3) Ligand energy minimization and geometrical optimization.
- 4) Hypothesis and pharmacophore mapping analysis.
- 5) Validate QSAR through Fischer analysis (95%) and Test set correlation.

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**Sep 2013-
Dec 2013** **Visiting Doctoral Student (Organic Synthesis)**
**H.E.J. Research Institute of Chemistry, ICCBS, University of Karachi,
Pakistan**

- 1) Synthesis of bisindolylmethane and flavone derivatives (thiourea, sulfonamide, and Schiff base).
- 2) Perform compounds characterization (NMR, MS, and IR) and submit compounds for biological activity evaluation.

AWARD

Sept 2018	Bronze Award (IIDEX 2018)
Oct 2017	Bronze Award (PECIPTA 2017)
Oct 2017	Silver and Bronze Award (IIDEX 2017)
Oct 2016	Anugerah Kedoktoran Cemerlang Tuanku Canselor
Sept 2016	Bronze Award (IIDEX 2016)
Feb 2016	Bangkok Bank Young Chemist Award (PACCON 2016)
Apr 2015	Bronze Award (IIDEX 2015)
Mar 2013	MyBrain 15 Scholarship
Dec 2011	Best Undergraduate Thesis Award (Anugerah Saintis Muda)
Oct 2011	Vice Chancellor's Award

ACTIVITIES

University	Big Data Initiative UiTM Puncak Alam	2018
University	RSC accreditation for Chemistry courses of Faculty of Applied Sciences UiTM	2018
University	Metabolomics seminar	2017
University	Scientific committee for NASIC-UiTM Workshop on Drug Development from Indigenous Plants in Developing Countries	2016
University	Facilitator for Mestrenova Workshop	2016
University	Trainer for Molecular Modelling using AutoDOCK Workshop	2016
University	International Conference on Natural Product (ICNP2013) - Committee member	2013

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LIST OF STUDENTS

Nadirah Kaman	Isolation, synthesis, and computational modelling of natural products as DENV inhibitor	In progress (2018)	Ph.D.
Hadzrul Hisham	Inhibition of Galectin-3 by benzimidazole to prevent Type-2 Diabetes	In progress (2017)	Ph.D.
Obaidurahman Abid	Synthesis of Bisindolylmethane derivatives and evaluation of their antidiabetic activity	In progress (2016)	M.Sc.
Mohd Syukri Baharudin	Synthesis of indole compounds having hydrazine, thiourea and sulfonamide derivatives as α -glucosidase inhibitor	In progress (2015)	M.Sc.
Syahirah Sohaimi	Synthesis of Soritin-hydrazone as potential inhibitor for T2D	In progress (2018)	B. Sc. (Hons) Chemistry
Nur Farhana Izzati binti Mohd Faris	Synthesis of Thioureas from Piperazine	Completed (2017)	B. Sc. (Hons) Chemistry
Nurul Jannah	Synthesis of Sulfonamides from Piperazine	Completed (2017)	B. Sc. (Hons) Chemistry
Zaireehan Zailani	Synthesis of quinoxaline benzohydrazone derivatives and their thymidine phosphorylase inhibition activity.	Completed (2015)	B. Sc. (Hons) Chemistry
Mohammad Qamarruddin Rokei	Synthesis of benzohydrazide schiff base derivatives having oxadiazolic ring.	Completed (2014)	B. Sc. (Hons) Applied Chemistry
Abdul Rahim Abdul Hamid	Synthesis of novel derivatives of oxadiazole.	Completed (2014)	B. Sc. (Hons) Applied Chemistry
Izzatul Ainaa Saadun	Synthesis and characterization of benzimidazole compounds.	Completed (2013)	B. Sc. (Hons) Applied Chemistry
Muhammd Helmi Mohamad	Synthesis and evaluation of biological potential of 4-methylbenzimidazole derivatives.	Completed (2013)	B. Sc. (Hons) Applied Chemistry
Noor Arfiqah Ahmad	Synthesis of benzothiazole derivatives and evaluation of their biological potential.	Completed (2013)	B. Pharmacy (Hons)
Fatin Ummi Farhanah	Synthesis and evaluation of biological potential of 4,6-dichlorobenzimidazole derivatives.	Completed (2013)	B. Pharmacy (Hons)
Noor Shahida Ahmad Kamal	Synthesis and evaluation of biological potential of 5-chloropyridene benzimidazole derivatives.	Completed (2013)	B. Pharmacy (Hons)

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PROJECT REVIEWER

Nabilah Binti Abd Rahman	Analysis of marker compound from various brands of cinnamon	Final year project thesis	Undergraduate
Noor Amalina binti Mohd Zin	Quantification of vitexin and isovitexin from 7 varieties of <i>ficus deltoidea</i> in peninsular malaysia	Final year project thesis	Undergraduate
Nurhuda binti Dzulkernian	Synthesis of acylated 1,3-cyclohexanediones via acyl migration of its enol esters	Final year project thesis	Undergraduate

EDITORIAL DUTIES

Bioorganic Chemistry	2018	Reviewer
European Journal of Medicinal Chemistry	2017	Reviewer
Journal of King Saud University	2016	Reviewer
Arabian Journal of Chemistry	2017	Reviewer
Chemical Data Collections	2017	Reviewer
Science & Technology Books Publishing Elsevier	2017	Book proposal reviewer

GRANTS

BESTARI PERDANA 2017	RM 35,000
Development And Validation Of Molecular Docking Protocol, Quantitative Structure-Activity Relationship Model, And Pharmacophore Analysis For Computational-Aided Drug Design And Simulation As A Sustainable Strategy Towards Discovery Of Potential Coumarin And Soritin-Based Dengue Inhibitors	Leader
FRGS 2016	RM 75,000
Synthesis, QSAR analysis and docking studies of novel flavones as diabetic II inhibitors	Co-researcher

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WEBSITES

Google Scholar scholar.google.com/citations?user=kQxP9iQAAAAJ&hl=en

Researchgate www.researchgate.net/profile/Syahrul_Imran

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Scopus www.scopus.com/authid/detail.uri?authorId=56192738400

ResearchID www.researcherid.com/rid/D-7725-2014

ORCID orcid.org/0000-0001-7802-7359

PUBLICATIONS AND CONFERENCES

Number of Publication 52

Impact Factor 139.93

Number of Citations 791

H-index 16

Conferences and Expo attended

1. Invention, Innovation & Design Exposition (IIDEX) 2018, Malaysia
2. PECIPTA 2017, Malaysia
3. Invention, Innovation & Design Exposition (IIDEX) 2017, Malaysia
4. Invention, Innovation & Design Exposition (IIDEX) 2016, Malaysia
5. The 2016 Pure and Applied Chemistry International Conference (PACCON 2016), Thailand.
6. 8th Asian Network of Research on Antidiabetic Plants International Seminar (ANRAP) 2015, Malaysia.
7. Invention, Innovation & Design Exposition (IIDEX) 2015, Malaysia.

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Publications

1. **Syahrul Imran**, Taha, M., Ismail, N.H., Fayyaz, S., Khan, K.M. and Choudhary, M.I. (2016). Synthesis of novel bisindolylmethanes: New carbonic anhydrase II inhibitors, docking, and 3D pharmacophore studies. *Bioorganic chemistry*, 68, pp. 90-104.
2. **Syahrul Imran**, Taha, M., Ismail, N.H., Fayyaz, S., Khan, K.M. and Choudhary, M.I. (2015). Synthesis, biological evaluation, and docking studies of novel thiourea derivatives of bisindolylmethane as carbonic anhydrase II inhibitor. *Bioorganic chemistry*, 62, pp.83-93.
3. **Syahrul Imran**, Taha, M., Ismail, N.H., Kashif, S.M., Rahim, F., Jamil, W., Hariono, M., Yusuf, M. and Wahab, H., (2015). Synthesis of novel flavone hydrazones: *in-vitro* evaluation of α -glucosidase inhibition, QSAR analysis and docking studies. *European journal of medicinal chemistry*, 105, pp.156-170.
4. **Syahrul Imran**, Taha, M. and Hadiani Ismail, N., (2015). A Review of Bisindolylmethane as an Important Scaffold for Drug Discovery. *Current medicinal chemistry*, 22, pp.4412-4433.
5. **Syahrul Imran**, Taha, M., Ismail, N.H., Kashif, S.M., Rahim, F., Jamil, W., Wahab, H. and Khan, K.M., (2015). Synthesis, *In vitro* and Docking Studies of New Flavone Ethers as α -Glucosidase Inhibitors. *Chemical biology & drug design*, 87, pp. 361–373
6. **Syahrul Imran**, Taha, M., Ismail, N.H., Khan, K.M., Naz, F., Hussain, M. and Tauseef, S., (2014). Synthesis of novel bisindolylmethane Schiff bases and their antibacterial activity. *Molecules*, 19, pp.11722-11740.
7. Taha, M., Ismail, N. H., Ali, M., Rashid, U., **Syahrul Imran**, Uddin, N., & Khan, K. M. (2017). Molecular hybridization conceded exceptionally potent quinolinyloxadiazole hybrids through phenyl linked thiosemicarbazide antileishmanial scaffolds: In silico validation and SAR studies. *Bioorganic Chemistry*.
8. Taha, M., Ismail, N.H., **Syahrul Imran**, Selvaraj, M., Jamil, W., Ali, M., Kashif, S.M., Rahim, F., Khan, K.M. and Adenan, M.I (2017). Synthesis and molecular modelling studies of phenyl linked oxadiazole-phenylhydrazone hybrids as potent antileishmanial agents. *European Journal of Medicinal Chemistry*, 126, 1021-1033.
9. Taha, M., Ismail, N.H., **Syahrul Imran**, Ainaa, I., Selvaraj, M., Ali, M., Khan, K.M. and Uddin, N., Synthesis of 2-phenyl-1H-imidazo [4, 5-b] pyridine as type 2 diabetes inhibitors and molecular docking studies. *Medicinal Chemistry Research*, pp.1-13.
10. Taha, M., Ismail, N.H., **Syahrul Imran**, Rahim, F., Wadood, A., Al Muqarrabun, L.M.R., Khan, K.M., Ghufuran, M. and Ali, M. (2015). In Silico Binding Analysis and SAR Elucidations of Newly Designed Benzopyrazine Analogues as Potent Inhibitors of Thymidine Phosphorylase. *Bioorganic chemistry*, 68, pp. 80-89.

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11. Taha, M., Ismail, N.H., Imran, S., Wadood, A., Rahim, F., Al Muqarrabin, L.M.R., Zaki, H.M., Ahmat, N., Nasir, A. and Khan, F., (2016). Synthesis of novel disulfide and sulfone hybrid scaffolds as potent β -glucuronidase inhibitor. *Bioorganic Chemistry*, 68, pp.15-22.
12. Salar, U., Taha, M., Khan, K.M., Ismail, N.H., **Syahrul Imran**, Perveen, S., Gul, S. and Wadood, A., 2016. Syntheses of new 3-thiazolyl coumarin derivatives, in vitro α -glucosidase inhibitory activity, and molecular modeling studies. *European Journal of Medicinal Chemistry*, 122, pp.196-204.
13. Taha, M., Sultan, S., Nuzar, H.A., Rahim, F., **Syahrul Imran**, Ismail, N.H., Naz, H. and Ullah, H., (2016). Synthesis and Biological Evaluation of Novel *N*-arylidenequinoline-3-carbohydrazides as potent β -Glucuronidase Inhibitors. *Bioorganic & Medicinal Chemistry*, 24, pp. 3696-3704.
14. Taha, M., Ismail, N.H., **Syahrul Imran**, Wadood, A., Rahim, F., Saad, S.M., Khan, K.M. and Nasir, A., (2016). Synthesis, Molecular Docking and α -Glucosidase Inhibition of 5-Aryl-2-(6'-nitrobenzofuran-2'-yl)-1, 3, 4-oxadiazoles. *Bioorganic Chemistry*, 66, pp. 117-123.
15. Taha, M., Ismail, N.H., **Syahrul Imran**, Rahim, F., Wadood, A., Khan, H., Ullah, H., Salar, U. and Khan, K.M., (2016). Synthesis, β -Glucuronidase Inhibition and Molecular Docking Studies of Hybrid Bisindole-Thiosemicarbazides Analogs. *Bioorganic Chemistry*, 68, 56-63.
16. Taha, M., Ismail, N.H., **Syahrul Imran**, Wadood, A., Rahim, F., Khan, K.M. and Riaz, M., (2016). Hybrid Benzothiazole analogs as Antiurease Agent: Synthesis and Molecular Docking Studies. *Bioorganic Chemistry*, 66, pp. 80-87.
17. Taha, M., Ismail, N., **Syahrul Imran**, Wadood, A., Ali, M., Rahim, F., Khan, A.A. and Riaz, M., (2016). Novel Thiosemicarbazide-Oxadiazole Hybrids as the unprecedented inhibitors of yeast α -glucosidase and *in silico* binding analysis. *RSC Advances*, 6, pp. 33733-33742.
18. Taha, M., Ismail, N.H., **Syahrul Imran**, Mohamad, M.H., Wadood, A., Rahim, F., Saad, S.M., ur Rehman, A. and Khan, K.M., (2016). Synthesis, α -glucosidase inhibitory, cytotoxicity and docking studies of 2-aryl-7-methylbenzimidazoles. *Bioorganic chemistry*, 65, pp.100-109.
19. Taha, M., Ismail, N.H., **Syahrul Imran**, Rashwan, H., Jamil, W., Ali, S., Kashif, S.M., Rahim, F., Salar, U. and Khan, K.M., (2016). Synthesis of 6-chloro-2-Aryl-1H-imidazo [4, 5-*b*] pyridine derivatives: Antidiabetic, antioxidant, β -glucuronidase inhibitor and their molecular docking studies. *Bioorganic chemistry*, 65, pp.48-56.
20. Salar, U., Taha, M., Ismail, N.H., Khan, K.M., **Syahrul Imran**, Perveen, S., Wadood, A. and Riaz, M., (2016). Thiadiazole derivatives as New Class of β -Glucuronidase Inhibitors. *Bioorganic & Medicinal Chemistry*, 24, pp. 1909-1918.
21. Taha, M., Ismail, N.H., Jamil, W., **Syahrul Imran**, Rahim, F., Kashif, S.M. and Zulkefeli, M., (2016). Synthesis of 2-(2-methoxyphenyl)-5-phenyl-1, 3, 4-oxadiazole derivatives and evaluation of their antiglycation potential. *Medicinal Chemistry Research*, 25, pp.225-234.

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22. Taha, M., Ismail, N.H., **Syahrul Imran**, Selvaraj, M. and Rahim, F., (2016). Synthesis of novel inhibitors of β -glucuronidase based on the benzothiazole skeleton and their molecular docking studies. RSC Advances, 6, pp.3003-3012.
23. Taha, M., Ismail, N.H., **Syahrul Imran**, Ali, M., Jamil, W., Uddin, N. and Kashif, S.M., (2016). Identification of bisindolymethane–hydrazone hybrids as novel inhibitors of β -glucuronidase, DFT, and *in silico* SAR intimations. RSC Advances, 6, pp.3276-3289.
24. Taha, M., Ismail, N.H., Javaid, K., **Syahrul Imran**, Wadood, A., Ali, M., Khan, K.M., Saad, S.M., Rahim, F. and Choudhary, M.I., (2015). Evaluation of 2-indolcarbohydrazones as potent α -glucosidase inhibitors, *in silico* studies and DFT based stereochemical predictions. Bioorganic chemistry, 63, pp.24-35.
25. Taha, M., Ismail, N.H., **Syahrul Imran**, Selvaraj, M., Rahim, A., Ali, M., Siddiqui, S., Rahim, F. and Khan, K.M., (2015). Synthesis of novel benzohydrazone–oxadiazole hybrids as β -glucuronidase inhibitors and molecular modeling studies. Bioorganic & medicinal chemistry, 23, pp.7394-7404.
26. Taha, M., Ismail, N.H., **Syahrul Imran**, Wadood, A., Rahim, F. and Riaz, M., (2015). Synthesis of potent urease inhibitors based on disulfide scaffold and their molecular docking studies. Bioorganic & medicinal chemistry, 23, pp.7211-7218.
27. Taha, M., Ismail, N.H., **Syahrul Imran**, Selvaraj, M., Rashwan, H., Farhanah, F.U., Rahim, F., Kesavanarayanan, K.S. and Ali, M., (2015). Synthesis of benzimidazole derivatives as potent β -glucuronidase inhibitors. Bioorganic chemistry, 61, pp.36-44.
28. Taha, M., Ismail, N.H., Khan, A., Shah, S.A.A., Anwar, A., Halim, S.A., Fatmi, M.Q., **Syahrul Imran**, Rahim, F. and Khan, K.M., (2015). Synthesis of novel derivatives of oxindole, their urease inhibition and molecular docking studies. Bioorganic & medicinal chemistry letters, 25, pp.3285-3289.
29. Taha, M., Alkadi, K.A., Ismail, N.H., **Syahrul Imran**, Adam, A., Kashif, S.M., Shah, S.A.A., Jamil, W., Siddiqui, S. and Khan, K.M., (2015). Antiglycation and antioxidant potential of novel imidazo [4, 5-*b*] pyridine benzohydrazones. Arabian Journal of Chemistry (doi:10.1016/j.arabjc.2015.08.004).
30. Taha, M., Ismail, N.H., **Syahrul Imran**, Rokei, M.Q.B., Saad, S.M. and Khan, K.M., (2015). Synthesis of new oxadiazole derivatives as α -glucosidase inhibitors. Bioorganic & medicinal chemistry, 23, pp.4155-4162.
31. Taha, M., Shah, S.A.A., Khan, A., Arshad, F., Ismail, N.H., Afifi, M., **Syahrul Imran** and Choudhary, M.I., (2015). Synthesis of 3, 4, 5-trihydroxybenzohydrazone and evaluation of their urease inhibition potential. Arabian Journal of Chemistry (doi:10.1016/j.arabjc.2015.06.036)
32. Taha, M., Ismail, N.H., Lalani, S., Fatmi, M.Q., Siddiqui, S., Khan, K.M., **Syahrul Imran** and Choudhary, M.I., (2015). Synthesis of novel inhibitors of α -glucosidase based on the benzothiazole skeleton containing benzohydrazide moiety and their molecular docking studies. European journal of medicinal chemistry, 92, pp.387-400.

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33. Taha, M., Ismail, N.H., **Syahrul Imran**, Wadood, A., Rahim, F., Ali, M. and Rehman, A.U., (2015). Novel quinoline derivatives as potent *in vitro* α -glucosidase inhibitors: *in silico* studies and SAR predictions. *MedChemComm*, 6, pp.1826-1836.
34. Taha, M., Ismail, N.H., **Syahrul Imran** and Khan, K.M., (2014). 4-[5-(2-Methoxyphenyl)-1, 3, 4-oxadiazol-2-yl] benzohydrazide. *Molbank*, 2014, pp.M826.