Brief CV

PROFESSOR DR NOR HADIANI ISMAIL
Phd Natural Products Chemistry

Years of Service in UiTM: 29 years (since 1989)

Significant Achievements and Contributions

1. Recognised as Top Research Scientist Malaysia by Akademi Sains Malaysia (ASM) 2017 (November 2017)
2. Appointed as Ahli Gantian Majlis Pembangunan Herba Negara (MPHN) by Ministry of Agriculture and Agro-Based Industry Malaysia (01 January 2018-31 December 2019)
3. Elected Fellow of Institut Kimia Malaysia (IKM) 2012.
4. Vice president of Malaysian Natural Products Society 2016-current. Secretary 2009-2015.
5. Chaired the organizing committee of International Conference of Natural Products (ICNP2013).
6. Formed and chair Malaysian Natural Products Consortium consisting of UiTM, UPM, UKM and FRIM. MOA signed in 2013.
7. Panel for Discovery Cluster NRGS grants, Herbal Development Office, Ministry of Agriculture.
8. Panel for evaluation and monitoring of Knowledge Transfer Programme, Ministry of Education.
9. Panel evaluator for FRGS grants.
10. Total cumulative research grants over RM 3.0 million.
11. More than 140 articles in reputable journal

    H-index 22; Citation 1445
12. Supervised and currently supervising 30 postgraduate students.
13. Visiting professor at University of Geneva (Sept 2014) and Tokushima Bunri Universiy, Japan (Mac 2015)
14. Awarded Institut Kimia Malaysia, Tan Sri Ong Kee Hui Postgraduate Medal for best postgraduate thesis 1999.
15. Recipient of UiTM Excellence Service Award 2002, 2006 and 2014.
16. Served various university level committees and councils.
17. Regularly appointed as external examiner for PhD and M Sc thesis in natural products chemistry by several IPTA's ie.UM, USM, UPM, UKM, UTM and UMT.
18. Regularly reviewed research articles for several reputable journals in natural products chemistry.

CURICULUM VITAE

Name:	**Nor Hadiani Ismail**
Date of birth :	2 Jan 1964
Dept/Faculty:	Faculty of Applied Sciences Universiti Teknologi MARA 40450 Shah Alam, Selangor
Telephone no:	03-5544 4584 / 03-3258 4826 / 013-2675756
Fax No:	03-5544 44562
Email Address:	norhadiani@salam.uitm.edu.my
Title of Position Held:	Director Atta-ur-Rahman Institute for Natural Product Discovery UiTM Puncak Alam Campus Universiti Teknologi MARA
Academic appointment:	Director Atta-ur-Rahman Institute for Natural Product Discovery UiTM Puncak Alam Campus Universiti Teknologi MARA August 2010 – August 2012 15 Jan 2016 -current Head of Programme Applied Chemistry April 2002 – June 2007 Professor of Chemistry Universiti Teknologi MARA Since 2009 Associate Professor University Teknologi MARA 2001 – 2009 Lecturer University Teknology MARA Since 1988

Academic qualifications: Doctor of Philosophy
Natural Products Chemistry
1999
Universiti Putra Malaysia

B. Sc (Honour Chemistry)
Organic Chemistry
1986
University of Waterloo, Canada

Field of specialization: Isolation and structural elucidation of natural products; Biological activity studies of natural products; Organic synthesis of anthraquinones.

Professional Membership: Registered Chemist
Fellow
Institut Kimia Malaysia
(A2224/4748/2005)

Vice President
Malaysian Natural Products Society (MNPS)
(B0038)

Honours and Awards: Institut Kimia Malaysia, Tan Sri Ong Kee Hui Postgraduate Medal for best postgraduate thesis 1999.

UiTM Excellence Service Award 2002 , 2006 and 2014

Anugerah Penyelidik Cemerlang, UiTM 2017
(UiTM Researchers Award 2017)

Top Research Scientist Malaysia (TRSM) by Akademi Sains Malaysia (ASM) 2017

Teaching experience: Hydrocarbon Chemistry
Carbonyl Chemistry
Organic Spectroscopy

Visiting professor/Scientist: University of Geneva, Switzerland (Aug –Sept 2014)
Tokushima Bunri University, Japan (Feb – Mac 2015)

Attachments: Laboratory of Pharmacognosy and Phytochemistry
Faculty of Pharmacy
University of Geneva
Switzerland
July to September 2007
Prof. Kurt Hosttetmann

Staff Development Program
UiTM- Northern Consortium United Kingdom
Salford University and Manchester Polytechnic
September to December 1991

Postgraduate supervision: 15 MSc students (9 graduated)
16 PhD students (6 graduated)

Major Research Projects:

1. Chemical Profiling, Dereplication and Isolation of New Cytotoxic Chemical Constituents from *Goniothalamus lannceolatus* (Ban) Mat Salleh.
   FRGS (2016-2019) RM 147,800
   (Project Leader)

2. Probing the Antiplasmodial Mechanistic Pathway of Goniothalamus lanceolatus by Targeting the Hemozoin Biosynthesis
   FRGS (2016-2018) RM 103,200
   (Project Member)

3. Synthesis, Qsar Analysis and Docking Studies of Novel Hetero Atom Containing Flavones As α-Glucosidase Inhibitors
   LESTARI (2015-2017) RM 20,000
   (Project Member)

4. Discovery Of Biomarkers for Temporomandibular Disorders (Tmd) Through Salivary Metabolomic Profiling
   LESTARI (2015-2017) RM 20,000
   (Project Member)

5. Unravelling the Antimalarial Potential of *Goniothalamus lanceolatus* in *Plasmodium berghei* Infected Mice
   LESTARI (2015-2017) RM 20,000
   (Project Member)

6. Targeting Potential Role of *Goniothalamus lanceolatus* in Treatment of Mda-Mb-231 And Mcf-7 Breast Cancer Cell Lines Via Tyrosine Kinase Inhibitor Pathway
   FRGS (2015-2017) RM 153,000
   (Project Member)

7. Elucidation of Binding Mechanism of Î±-Glucosidase Inhibitors Using a Combined Molecular Dynamics, Std-Nmr, and Corcema-Std
   FRGS (2015-2017) RM 140,000
   (Project Member)

8. Phytochemistry Studies on Root of *Centella asiatica*
   RAGS (2013-2015) RM 80,000
   (Project Member)

9. Acetyl/butyrylcholinesterase Inhibition Activity, Modulation of Oxidative Stress and Pro-Inflammatory Mediators Release by Standardised/Fine Centella Asiatice (pegaga) Extract: In Vitro and In Vivo Studies
   NRGS MOA (2015-2016) RM 411,000
   (Project Member)

10. Synthesis, Antioxidant, Anticancer and Urease Inhibitory Activities of Novel Sulfonamide, Hydrazone Biscoumarin Derivatives
    ERGS (2013-2016) RM 92,000
    (Project Member)

11. Cocrystallization of Active Pharmaceutical Ingredient with Natural Herbs
    FRGS (2014-2016) RM 130,000
    (Project Member)

12. Correlation of Metabolite Profile of *Ficus deltoidea* varieties to Their In Vitro α-Glucosidase Inhibitory Activity
    NRGS MOA (2013-2015) RM270,000
    (Project Leader)

13. Production of Chemical Marker Compounds from *Morinda citrifolia* (Scopoletin and Anthraquinones) and Centella aciatica (Aciatic Acid, Madecassic Acid, Asiaticoside and Medecassoside)
    NRGS MOA (2013-2015) RM890,000
    (Project Leader)

14. Synthesis, Antioxidant, Anticancer and Urease Inhibitory Activities of Novel Sulfonamide, Hydrazone Biscoumarine Derivatives
    FRGS (2013-2015) RM92,000
    (Project Member)

15. Electronic Circular Dichroism Studies for Absolute Configuration Determination of Clerodane-Type Diterpenoids from *Croton laevifolius*
    FRGS (2013-2015) RM71,000
    (Project Leader)

16. $LCMS^n$ and NMR Spectroscopies for Fast Analysis of Anthraquinones Biotransformation Products
    FRGS (2013-2015) RM95,500
    (Project Member)

17. Standarzation of *Rennellia elliptica* Root Extracts Based on Antiplasmodial Activities

FRGS (2013-2015) RM70,000
(Project Member)

18. Bioassay Guided Isolation and Characterization of Antidiabetic Constituents from *Knema glauca*
    FRGS (2013-2015) RM69,000
    (Project Member)

19. Chemical constituents of Rare Malaysian *Croton species*
    ERGS (July 2011- June 2013) RM 98,000
    (Project leader)

20. Acetyl Cholistenerase Inhibitors from *Mesua* Species
    EScience Grant (2010-2011) RM188200
    (Project Leader)

21. Phytomedicinal Studies of Malaysian *Uncaria*
    EScience Grant (Dis-06 June 2009) RM129,300
    (Project leader)

22. Synthesis Of New Furanoanthraquinone Skeleton and Its Amine Derivatives
    FRGS (April 2010 - April 2012)
    (Project Member)

23. Chemical Constituents of *Rennellia elliptica*
    FRGS 2009-2011
    (Project Leader)

24. Phytochemical Studies of *Meiogyne virgata* and *Meiogyne monosperma*
    FRGS 2009-2011
    (Project Member)

25. Antiplasmodial Activity of Anthraquinones Analoques.
    Dana Kecemerlangan 2009-2011
    (Project Leader)

26. Essential Oils and Chemical Constituents of Meiogyne species
    Dana Kecemerlangan 2009-2011
    (Project Leader)

27. Chemical Diversity and Biological Activity of Endemic Plants of Kuala Keniam, Taman Negara.
    FRGS 2007-2009
    (Project Leader)

28. Chemical Diversity and Biological Activity of Endemic Plants of Kuala Keniam, Taman Negara.
    FRGS
    2007-2009
    (Project Leader)

29. Antiplasmodial compounds from *Kopsia* species.
    Science Fund
    2006-2009
    (Project leader)

30. Biological Activities of Five Malaysian *Uncaria* Species.
    Science Fund
    2006-2009
    (Project Member)

31. Indole Alkaloids from *Hunteria zeylanica*, *Leuconotis euginifolia* and *Leuconotis griffithii*
    2002-2004
    IRPA
    (Project leader)

32. Weight Loss Aid for Nutraceutical Applications from Tamarindus indica and Garcinia nigrolineata
    2006-2009
    (Project Member)

33. Studies in Biosynthesis in the Oligostilbenoid Field – Biomimetically Patterned Syntheses leading to Novel Oligostilbenoid Dimers
    SAGA fund (CDC code C1/004)
    (Project Member)

34. Phytochemical studies of *Vitex trifolia*
    2004-2005
    UiTM internal funding
    (Project Leader)

35. Biological Activity Studies of Some Selected *Hedyotis* Species
    2001-2002
    UiTM internal funding
    (Project Leader)

Publications:

A. Journals

1. Rasol, N.E. , Ahmad, F.B. , Lim, X.-Y. , Chung, F.F.-L. , Leong, C.-O. , Mai, C.-W. , Bihud, N.V. , Zaki, H.M. , **Ismail, N.H**. (2018) Cytotoxic lactam and naphthoquinone alkaloids from roots of *Goniothalamus lanceolatus* Miq. *Phytochemistry Letters*. **24**, 51-55.

2. Abu, N., Zamberi, N.R., Yeap, S.K., Nordin, N., Mohamad, N.E., Romli, M.F., Rasol, N.E., Subramani, T., **Ismail, N.H**., Alitheen, N.B., Subchronic toxicity, immunoregulation and anti-breast tumor effect of Nordamnacantal, an anthraquinone extracted from the stems of *Morinda citrifolia* L. (2018) *BMC Complementary and Alternative Medicine.* **18** (1), Article number 31.

3. Ibrahim, M., Syed Abdul Azziz, S.S., Wong, C.F., Wan Mohamad Din, W.N.I., Wan Mahamod, W.R., Bakri, Y.M., Ahmad, M.S., Yahaya, R., **Ismail, N.H**., Salleh, W.M.N.H.W. (2018) Evaluation of anti-lipase activity of leaf and bark extracts from *Aquilaria subintegra* and *A. Malaccensis*. *Marmara Pharmaceutical Journal*, **22** (1), 91-95.
4. Ghani, N.A., **Ismail, N.H.**, Noma, Y., Asakawa, Y. (2017) Microbial transformation of some natural and synthetic aromatic compounds by fungi: *Aspergillus* and *Neurospora* strains. *Natural Product Communications*. **12** (8) 1237-1240.

5. Zohdi, R.M., Mukhtar, S.M., Bihud, N.V, Rasol, N.E., Ahmad, R.B., Awang, K., **Ismail, N.H.** (2017) In vivo antiplasmodial and toxicological effects of *Goniothalamus lanceolatus* crude extract. *Natural Product Communications*. **12** (8) 1251-1254.

6. Rasol, N.E., Naz, H., Awang, K., Ridhwan, M.J.M., Choy, Y.K., **Ismail, N.H.** (2017) Isomeric polycyclic polyprenylated acylphloroglucinols from the bark of *Mesua ferrea* (Clusiaceae). *Natural Product Communications*. **12** (8) 1283-1286.

7. Taha, M., **Ismail, N.H**., Imran, S., Ainaa, I., Selvaraj, M., Baharudin, M.S., Ali, M., Khan, M.K., Uddin, N. (2017) Synthesis of 2-phenyl-1H-imidazo[4,5-b]pyridine as type 2 diabetes inhibitors and molecular docking studies. *Medicinal Chemistry Research.* **26** (5). p 916-928.

8. Noreen, T., Taha, M., Imran, S., Chigurupati, S., Rahim, F., Selvaraj, M., **Ismail, N.H.**, Mohammad, J.I., Ullah, H., Javid, M.T., Nawaz, F., Irshad, M., Ali, M. (2017) Synthesis of alpha amylase inhibitors based on privileged indole scaffold. *Bioorganic Chemistry*. 72. p 248-255.

9. Baharudin, M.S., Taha, M., Imran, S., **Ismail, N.H.,** Rahim, F., Javid, M.T., Khan, K.M., Ali, M. (2017) Synthesis of indole analogs as potent β-glucuronidase inhibitors. *Bioorganic Chemistry*. 72. p 323-332.

10. Arshad, T., Khan, K.M. Rasool, N., Salar, U., Hussain, S., Asghar, M., Ashraf, M., Wadood, A., Riaz, M., Perveen, S., Taha, M., **Ismail, N.H**. (2017) 5-Bromo-2-ary benzimidazole derivatives as non-cytotoxic potential dual inhibitors of α-glucosidase and urease enzymes. *Bioorganic Chemistry*. 72 p 21-31.

11. Ghani, N.A., **Ismail, N.H.**, Asakawa, Y. (2017) Constituents of fermented male flowers of *Alnus sieboldiana* (Betulaceae). *Natural Product Communications* **12** (1) p 57-58.

12. Salar, U., Khan, K.M., Syed, S., Taha, M., Ali, F., **Ismail, N.H.**, Perveen, S., Wadood, A., Ghufran, M. (2017) Synthesis, *in vitro* β-glucoronidase inhibitory activity and in silico studies of novel (E)-4-aryl-2-(2-(pyren-1-ylmethylene)hydrazinyl)thiazoles. *Bioorganic Chemistry*, 70. p 199-209.

13. Salar, U., Khan, K.M., Taha, M., **Ismail, N.H.**, Ali, B., Qurat-ul-Ain, Perveen, S., Ghufran, M., Wadood, A. (2017) Biology-oriented drug synthesis (BIODS): *In vitro* β-glucoronidase inhibitory and in silico studies on 2-(2-methyl-5-nitro-1H-imidazol-1-yl)ethyl aryl carboxylate derivatives. *European Journal of Medicinal Chemistry*. **125**, p 1289-1299.

14. Taha, M., Baharudin, M.S., **Ismail, N.H**., Selvaraj, M., Salar, U., Alkadi, K.A.A., Khan, K.M. (2017) Synthesis and in silico studies of novel sulfonamides having oxidiazole ring: as β-glucuronidase inhibitors. *Bioorganic Chemistry*. **71**. p 86-96.

15. Taha, M., **Ismail, N.H**., Ali, M., Rashid, U., Imran, S.m Uddin, N., Khan, K.M. (2017) Molecular hybridization conceded exceptionally potent quinolinyl-oxadiazole hybrids through phenyl linked thiosemicarbazide antileishmanial scaffolds: *In silico* validation and SAR studies. *Bioorganic Chemistry*. **71**, p 192-200.

16. Taha, M., **Ismail, N.H.**, Imran, S., Anuoar, E.H., Selvaraj, M., Jamil, W., Ali, M., Kashif, S.M., Rahim, F., Khan, K.M., 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**, p 1021-1033.

17. Taha, M., Shah, S.A.A., Afifi, M., Zulkeflee, M., Sultan, S., Wadood, A., Rahim, F., **Ismail, N.H.** (2017) Morpholine hydrazine scaffold: Synthesis, anticancer activity and docking studies. *Chinese Chemical Letters*. **28**, p 607-611.

18. Zawawi, N.K.N.A., Taha, M., Ahmat, N., **Ismail, N.H**., Wadood, A., Rahim, F. (2017) Synthesis, molecular docking studies of hybrid benzimidazole as α-glucosidase inhibitor. *Bioorganic Chemistry*. **70**. p 184-191.

19. Ali, F., Khan, K.M., Salar, U., Iqbal, S., Taha, M., **Ismail, N.H.**, Perveen S, Wadood, A, Ghufran, M., Ali, B. (2016) Dihydropyrimidones: as novel class of β-glucuronidase inhibitors. *Bioorganic and Medicinal Chemistry*. **24** (16) p 3624-3635.

20. Arshad, T., Khan, K.M., Rasool, N., Salar, U., Hussain, S., Tahir, T., Ashraf, M., wadood, A., Riaz, M., Perveen S, Taha, M., **Ismail, N.H.** (2016) Syntheses, in vitro evaluation and molecular docking studies of 5-bromo-2-aryl benzimidazoles as α-glucosidase inhibitors. *Medicinal Chemistry Research.* **25**(9) p 2058-2069.

21. Aziz, M.Y.A., Abu, N., Yeap, S.K., Ho, W.Y., Omar, A.R., **Ismail, N.H.**, Ahmad, S., Pirozyan, M.R., Akhtar, N.M., Alitheen, N.B. (2016) Combinatorial cytotoxic effects of damnacanthal and doxorubicin against human breast cancer MCF-7 cells in vitro. *Molecules*. **21** (9) p 1228.

22. Ghani, N.A., **Ismail, N.H**., Asakawa, Y. (2016) Comparative study of the volatile components of fresh and fermented flower of *Alnus sieboldiana* (Betulaceae). *Natural Product Communication* **11**(2), p 265-266.

23. Ghani, N.A., Ludwiczuk, A., **Ismail, N.H**., Asakawa, Y. (2016) Volatile components of the stressed liverwort *Conocephalum conicum*, *Natural Product Communication* **11**(1), p 103-104.

24. Imran, S., Taha, M., **Ismai, N.H.**, Fayyaz, S., Khan, K.M., Choudhary, M.I. (2016) Synthesis of novel bisindolylmethanesL new carbonic anhydrase II inhibitors, docking and 3D phamacopphore studies. *Bioorganic Chemistry*. **68**, p 90-104.

25. Imran, S., Taha, M., **Ismail, N.H**., Kashif, S.M., Rahim, F., Jamil, W., Wahab, H., Khan, K.M. (2016) Synthesis, in vitro and docking studies of new flavone ethers as α-glucosidase inhibitors, *Chemical Biology and Drug Design*, **87**(3), p 361-373.

26. Khan, K.M., Qurban, S., Salar, U., Taha, M., Hussain, S., Perveen, S., Hameed, A., **Ismail, N.H.**, Riaz, M., Wadood, A. (2016) Synthesis, *in vitro* α-glucosidase inhibitory and molecular docking studies of new thiozole derivatives. *Bioorganic Chemistry*. **68**, p 245-258.

27. Mai, C.W., Yap, K.S.I., Kho, M.T., **Ismail, N.H**., Yusoff, K., Shaari, K., Chin, S.Y., Lim, E.S.H. (2016) Mechanisms underlying the anti-inflammatory effects of *Clinacanthus nutans lindau* extracts: Inhibition of cytokine production and toll-like receptor-4 activation, *Frontiers in Pharmacology*, **7**, Act 7.

28. Mohd Aluwi, M.F.F., Ruullah K., Yamin, B.M., Leong S.W., Abdul Bahari, M.N. Lim, S.J., Mohd Faudzi, S.M., Jalil, J., Abas, F., Mohd Fauzi, N., **Ismail, N.H.**, Jantan, I., Lam, K.W. (2016) Synthesis of unsymmetrical monocarbonyl curcumin analogues with potent inhibition on prostaglandin E_2 production in LPS-induced murine and human macrophages cell lines. *Bioorganic and Medicinal Chemistry Letters*. **26**(10) p 2531-2538.

29. Mohd Jaafar, F., Mohamad Ridwan, M.J., Mustapha, M.J., Alias, A., **Ismail, N.H.** (2016) Antidiabetic effects of Knema glauca leaf extract towards inhibitions of α-amylase and α-glucosidase assays. *Jurnal Teknologi.* 78 (5-3) p 103-108.

30. Noor, H.S.M., **Ismail, N.H.,** Kasim, N., Zohdi, R.M, Ali, A.M. (2016) Hypoglycemic and glucose tolerance activity of standardixed extracts Ficus deltoidea varieties in normal rats. *Journal of Medicinal Plants Studies*. **4**(5) p 275-279.

31. Osman, C. P., **Ismail, N.H.**, Wibowo, A., Ahmad, R. (2016) Two new pyranoanthraquinones from the root of *Rennellia elliptica* Korth. (Rubiaceae). *Phytochemistry Letters*, **16,** p 225–229.

32. Osman, C.P., **Ismail, N.H.**, Ahmad, R., Alitheen, N.B., Mohamad Ridwan, M.J, Maakhmor, T. (2016) Antioxidant, antidiabetic and cytotoxic activities of *Rennellia elliptica* Korth. *Jurnal Teknologi*, **78**(11) p 201-206.

33. Salar, u., Taha, M., **Ismail, N.H.**, Khan, K.M., Imran, S., Perveen, S., Wadood, A., Riaz, M. (2016) Thiadiazole derivatives as new class of β-glucuronidase inhibitors. *Bioorganic and Medicinal Chemistry*. **24** (8) p 1909-1918.

34. Salar, U., Taha, M., Khan, K.M., **Ismail, N.H.**, Imran, S., Perveen, S., Gul, S., Wadood, A. (2016) Syntheses of new 3-thiozolyl coumarin derivatives, in vitro α-glucosidase inhibitory activity, and molecular modeling studies. *European Journal of Medicinal Chemistry*. **122**, p 196-204.

35. Shaharuddin, N.H., **Ismail, N.H**., Manshoor, N., Salim, F., Ahmad, R. (2016) Chemical profiling and identification of alkaloids and flavonoids in *Uncaria lanosa* var. Ferrea via UHPLC-Orbitrap MS [Profil Kimia dan Pengenalpastian Alkaloid dan Flavonoid dalam uncaria lanosa var. Ferrea melalui UHPLC – Orbitrap MS], *Malaysian Journal of Analytical Sciences* **20**(2), p 318-323.

36. Taha, M., Ali Shah S.A., Afifi, M., Zulkeflee M., Sultan S., Wadood, A., Rahim, F., **Ismail, N.H.** (2016) Morpholine hydrazone scaffold: synthesis, anticancer activity and docking studies. *Chinese Chemical Letters*. In press

37. Taha, M., **Ismail, N.H**., Imran, S., Anouar, E.H., Ali, M., Jamil, W., Uddin, N., Kashif, S.M. (2016) Identification of bisindolylmethane-hydrazone hybrids as novel inhibitors of β-glucuronidase, DFT, and in silico SAR intimations, *RSC Advances* **6**(4), p 3276-3289.

38. Taha, M., **Ismail, N.H**., Imran, S., Mohamad, M.H., Wadood, A., Rahim, F., Saad, S.M., Rehman, A.U., Khan, K.M. (2016) Synthesis, α-glucosidase inhibitory, cytotoxicity and docking studies of 2-aryl-7-methylbenzimidazoles, *Bioorganic Chemistry* **65**, p 100-109.

39. Taha, M., **Ismail, N.H.**, Imran, S., Rahim, F., Wadood, A., Al Muqarrabun, L.M.R., Khan, K.M, Ghufran, M., Ali, M. (2016) In silico binding analysis and SAR elucidations of newly designed benzopyrazine analogs as potent inhibitors of thymidine phosphorylase. *Bioorganic Chemistry*. **68**, p 80-89.

40. Taha, M., **Ismail, N.H.**, Imran, S., Rahim, F., Wadood, A., Khan, C., Ullah, H., Salar, U., Khan, K.M. (2016) Synthesis, β-glucuronidase inhibition and molecular docking studies of hybrid bisindole-thiosemicarbazides alanolgs. *Bioorganic Chemistry*.**68**, p 56-63.

41. Taha, M., **Ismail, N.H**., Imran, S., Rashwan, H., Jamil, W., Ali, S., Kashif, S.M., Rahim, F., Salar, U., Khan, K.M. (2016) Synthesis of 6-chloro-2-Aryl-1H-imidazo[4,5-b]pyridine derivatives: Antidiabetic, antioxidant, β-glucuronidase inhibiton and their molecular docking studies, *Bioorganic Chemistry* **65**, p 48-56.

42. Taha, M., **Ismail, N.H**., Imran, S., Selvaraj, M., Rahim, F. (2016) Synthesis of novel inhibitors of β-glucuronidase based on the benzothiazole skeleton and their molecular docking studies , *RSC Advances* **6**(4), p 3003-3012.

43. Taha, M., **Ismail, N.H**., Imran, S., Wadood, A., Ali, M., Rahim, F., Khan, A.A., Riaz, M. (2016) Novel thiosemicarbazide-oxadiazole hybrids as unprecedented inhibitors of yeast α-glucosidase and in silico binding analysis, *RSC Advances* **6**(40), p 33733-33742.

44. Taha, M., **Ismail, N.H.**, Imran, S., Wadood, A., Rahim, F., Al Muqarrabin, L.M.R., Zaki, H.M., Ahmat, N., Nasir, A., Khan, F. (2016) Synthesis of novel disulfide and sulfone hybrid scaffolds as potent β-glucuronidase inhibitors. *Bioorganic Chemistry*. 86, p 15-22.

45. Taha, M., **Ismail, N.H**., Imran, S., Wadood, A., Rahim, F., Khan, K.M., Riaz, M. (2016) Hybrid benzothiazole analogs as antiurease agent: Synthesis and molecular docking studies, *Bioorganic Chemistry* **66**, p 80-87.

46. Taha, M., **Ismail, N.H.**, imran, S., Wadood, A., Rahim, F., Saad, S.M., Khan, K.M., 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** p 117-123.

47. Taha, M., **Ismail, N.H**., Jamil, W., Imran, S., Rahim, F., Kashif, S.M., 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**(2), p 225-234.

48. Taha, M., Sultan, S., Nuzar, H.A., Rahim, F., Imran, S., **Ismail, N.H.**, Naz, H., Ullah, H. (2016) Synthesis and biological evaluation of novel N-arylidenequinoline-3-carbohydrazides as potent β-glucuronidase inhibitors. *Bioorganic and Medicinal Chemistry*. 24(16) p 3696-3704.

49. Zawawi, N.K.N.A., Taha, M., Ahmat, N., **Ismail, N.H.** Synthesis and characterization of biscoumarin and benzopyrano dicoumarin derivatives. *Malaysian Journal of analytical Sciences*. 20(4) p 870-876.

50. Zawawi, N.K.N.A., Taha, M., Ahmat, N., Wadood, A., **Ismail, N.H**., Rahim, F., Azam, S.S., Abdullah, N. (2016) Benzimidazole derivatives as new α-glucosidase inhibitors and in silico studies, *Bioorganic Chemistry* **64**, p 29-36.

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