ASNUZILAWATI ASARI

Lecturer
Faculty of Science and Marine Environment
Universiti Malaysia Terengganu

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QUALIFICATIONS

- Doctor of Philosophy (Organic Synthesis), University of Nottingham, UK
- Master of Science (Chemistry), Universiti Kebangsaan Malaysia, Bangi
- Bachelor of Science (Chemistry), Universiti Kebangsaan Malaysia, Bangi

FIELD OF RESEARCH

- Organic Synthesis
- Natural Product Chemistry

RESEARCH INTEREST

My research focuses on the synthetic pathway, structural modification of selected molecules and isolation of the bioactive molecules from marine organism or plants for biological purposes. Currently, my research involves in the structural exploration of phenolic molecules, eugenol and cinnamic acid. I also working towards the isolation of bioactive metabolites from selected plants and marine organism for biological screening.

PROFFESIONAL MEMBERSHIP

- Institut Kimia Malaysia (IKM)

GRANTS

Project	:	Synthesis, Characterisation And Molecular Docking Studies Of Cinnamic Acid Derivatives In Understanding Their Potential As Antiviral Agent Against Dengue Virus
Position	:	**Project Leader**
Grant Name	:	FRGS (Ref: FRGS/1/2019/STG01/UMT/02/4)
Status	:	Active (Sept 2019 - May 2023)
Amount	:	RM165,800

Project	:	Isolation, Elucidation And Characterization Of The Flavonoid(S) From *Eurphorbia milii* Methanolic Leaves Extract Mediated Silver Nanoparticles (AgNPs) As Potential Antiviral and Antidengue Agents.
Position	:	**Co-Researcher**
Grant Name	:	FRGS (Ref: FRGS/1/2020/STG04/UMT/03/1)
Status	:	Active (Nov 2020 – Okt 2022)
Amount	:	RM100,200

Project	:	Chemical Synthesis of Hystatin Analogues
Position	:	**Project Leader**
Grant Name	:	FRGS (59250)
Status	:	Completed (May 2012-May 2015)
Amount	:	RM102,200

PUBLICATIONS

Journal Article

1. Nur Zafirah Mohd Izham, Hanis Mohd Yusoff, Irshad Ul Haq Bhat, Tomoaki Endo, Hiroshi Fukumura, Eunsang Kwon, Shin-Ichiro Yoshida, Asnuzilawati Asari, Uwaisulqarni M. Osman and Mohd Sukeri Mohd Yusof. (2020). Data on synthesis and

characterization of new p-nitro stilbene Schiff bases derivatives as an electrochemical DNA potential spacer. *Data in Brief*. 30:105568.

2. Muhammad Ishaq, Parham Taslimi, Zahid Shafiq, Samra Khan, Ramin Ekhteiari Salmas, Mohammad Mahdi Zangeneh, Aamer Saeed, Akram Zangeneh, Nastaran Sadeghian, Asnuzilawati Asari and Habsah Mohamad. (2020). Synthesis, bioactivity and binding energy calculations of novel 3-ethoxysalicylaldehyde based thiosemicarbazone derivatives. *Bioorganic chemistry*. 100: 103924.

3. Hafiza Amna Younus, Abdul Hameed, Abid Mahmood, Muhammad Siraj Khan, Muhammad Saeed, Farwa Batool, Asnuzilawati Asari, Habsah Mohamad, Julie Pelletier, Jean Sévigny, Jamshed Iqbal and Mariya al-Rashida. (2020). Sulfonylhydrazones: Design, synthesis and investigation of ectonucleotidase (ALP & e5′NT) inhibition activities. *Bioorganic Chemistry*. 100: 103827.

4. Habsah Mohamad, Muhamad Fadzli Abd Razak, Nurjannatul Naim Kamaruddin, Lukman Hakim Mohd Din, Asnuzilawati Asari, Yosie Andriani, Siti Fatimah Zaharah Mustafa, Jasnizat Saidin, Muhammad Fadhlizil Fasihi Mohd Aluwi, Jalifah Latip, Tengku Sifzizul Tengku Muhammad. (2020). PCSK9 inhibitory activity of marine-derived compounds, aaptaminoids, and benzamide originated from *Aaptos aaptos* and *Acanthaster planci* as a potential treatment for atherosclerosis. *Journal of Applied Pharmaceutical Science*. 10(08):111-123.

5. Farah Amirah Azmi, Asnuzilawati Asari, Maisara Abdul Kadir, Yosie Andriani, Fauziah Abdullah and Habsah Mohamad. (2020). Synthesis, Characterization, and Antibacterial Study of Cinnamic Acid Derivatives. *Malaysian Journal of Chemistry*. 22(3): 58-63.

6. Khairunisa Mohd Zamli, Asnuzilawati Asari, Fatimah Hashim , Hanis Mohd Yusoff, Habsah Mohamad and Fauziah Abdullah. (2020). Anti-Amoebic Activity of Eugenol Derivatives Against *Acanthamoeba castellanii. Malaysian Journal of Chemistry*. 22(3): 100-110.

7. Nor Syazwanie Mohd Saidi, Hanis Mohd Yusoff, Irshad Ul Haq Bhat, Suganthi Appalasamy, Alia Diyana Mohamed Hassim , Farhanini Yusoff , Asnuzilawati Asari, Nurul Huda Abdul Wahab. (2020). Stability And Antibacterial Properties Of Green Synthesis Silver Nanoparticles Using *Nephelium lappaceum* Peel Extract. *Malaysian Journal of Analytical Sciences*. 24(6): 940 – 953.

SUPERVISION

Doctor of Philosophy Degree

Thesis Title	:	Synthesis, Antiviral Activity and Molecular Docking Studies of Cinnamic Acid Derivatives.
Student Name	:	Nadia binti Mohamed Yusoff (P4450)
Role	:	Main Supervisor

Status : Ongoing

Master Degree

Thesis Title : Synthesis, characterization and antibacterial activity of cinnamic acid derivatives.
Student Name : Farah Amirah binti Azmi (P3581)
Role : Main Supervisor
Status : Ongoing

Thesis Title : Synthesis, Characterization and Biological Activity of Eugenol Derivatives
Student Name : Khairunisa binti Mohd Zamli (P3582).
Role : Main supervisor
Status : Ongoing

Thesis Title : Determination of Bioactive Compounds from Malaysian Plant Euphorbia milii (Euphorbiaceae) and Its Pharmacological Activities.
Student Name : Nur Syafika Abd Mutalib (P3918)
Role : Main Supervisor
Status : Ongoing

Thesis Title : Synthesis, Characterization and Antiviral activity of Cinnamic Acid Derivatives
Student Name : Anis Najwa Mohd Wahid (P4266)
Role : Main Supervisor
Status : Ongoing

COURSE TAUGHT

- *Chemistry of Carbonyl Compounds (KIM3203), (Undergraduate), UMT*
- *Mechanisms in Organic Chemistry (KIM3201), (Undergraduate), UMT*
- *Practical Organic Chemistry (KIM3202), (Undergraduate), UMT*

LINKS

- SCOPUS
  https://www.scopus.com/authid/detail.uri?authorId=56380269300
- WoS Research ID: K-1844-2018
  https://publons.com/researcher/1501466/asnuzilawati-asari/
- Researchgate
  https://www.researchgate.net/profile/Asnuzilawati_Asari
- ORCID
  https://orcid.org/0000-0002-3145-5425
- Google Scholar
  https://scholar.google.com/citations?user=YozetfEAAAAJ&hl=en