

PROFILE		
1	NAME	SITI AZMA JUSOH
2	ACADEMIC POSITION	SENIOR LECTURER
3	STATUS OF APPOINTMENT	PERMANENT
4	CITIZENSHIP	MALAYSIAN
5	EDUCATION	PhD (Bioinformatics/Computational Biology), Saarland University, Germany – 2010; Master of Science (Genetics), UKM, Bangi – 2003; Bachelor of Science (Hons) (Biotechnology with Management), UKM, Bangi – 2000.
6	WORKING EXPERIENCE	<ul style="list-style-type: none"> ● Senior Lecturer (DM51) Faculty of Pharmacy, Universiti Teknologi MARA, Puncak Alam, January 2010 – present ● Postdoc, Department of Chemistry & Biochemistry, University of California San Diego (UCSD), 2014-2016 ● Tutor - UKM Molecular Medical Biology Institute (UMBI), Cheras (2003-2005)
7	CURRENT ACADEMIC RESPONSIBILITIES	<ul style="list-style-type: none"> ● PHC664 – Structure-based Drug Design (Resource Person, Lecturer) ● PHC429 – Pharmaceutical Biochemistry (Resource Person, Tutor, Practical) ● PHC504 – Pharmaceutical Biotechnology & Engineering (Lecturer, Tutor) ● PHC454 – Pharmaceutical Microbiology & Parasitology (Tutorial & Practical) ● PHC605 – Drugs in Sports (Tutor) ● PHC566 – Research I ● PHC567 - Research II
8	RESEARCH INTERESTS/ PROJECTS	<ul style="list-style-type: none"> ● Structural Bioinformatics ● Computer-Aided Drug Design: Virtual Screening ● Dengue Virus Inhibitors ● Estrogen Hormone Receptors ● Membrane Protein Structural Dynamics
9	PUBLICATIONS	<i>Current publications (2011-2015)</i>

Journal article

Surname Initial(s). Title of article. Journal title/or title abbreviation. Year;volume(issue):page(s). DOI - if available

1. Hio K.T., **Jusoh S.A.** and Shirley W.I. Siu, Chaos-embedded particle swarm optimization approach for protein-ligand docking and virtual screening. **Journal of Cheminformatics. 2018; 10 (1) 62**
2. Ali EZ., et al. 2018 Mutation Study of Malaysian Patients with Ornithine Transcarbamylase Deficiency: Clinical, Molecular, and Bioinformatics Analyses of Two Novel Missense Mutations of the OTC Gene. **BioMed Research International. 2018.**
3. Han C., Marcus C. K. N., **Jusoh S. A.**, Hio K. T., Shirley WI Siu., 2017. TMDIM: an improved algorithm for the structure prediction of transmembrane domains of bitopic dimers. **Journal of Computer-Aided Molecular Design. 2018; 31 (9) pp 855-865. (Q1; IF 3.028)**
4. Akbar, R., **Jusoh, S.A.**, Amaro, R.E. and Helms, V.. ENRI: A tool for selecting structure-based virtual screening target conformations. *Chemical Biology & Drug Design.* 2016; 89 (5) 762-771. **(Q2; IF 2.396)**
5. Swift, R.V., **Jusoh, S.A.**, Offutt, T.L., Li, E.S. and Amaro, R.E.. Knowledge-Based Methods to Train and Optimize Virtual Screening Ensembles. *Journal of Chemical Information and Modeling.* 2016; 56(5), 830-842.
6. Ismail NA, **Jusoh SA.** Molecular Docking and Molecular Dynamics Simulation Studies to Predict Flavonoid Binding on the Surface of DENV2 E Protein. *Interdisciplinary Sciences: Computational Life Sciences.* 2016; 9 (4) 499-511. **(Q3; IF 0.753)**
7. Beck A, Speicher T, Stoerger C, Sell T, Dettmer V, **Jusoh SA**, Abdulmughni A, Cavalié A, Philipp SE, Zhu MX, Helms V. Conserved gating elements in TRPC4 and TRPC5 channels. *Journal of Biological Chemistry.* 2013; 288 (27):19471-83. **(Q1; IF 4.125)**
8. Akbar R, **Jusoh SA.** Stability, orientation and position preference of the stem region (residues 689-703) in Hepatitis C Virus (HCV) envelope glycoprotein E2: a molecular dynamics study. *F1000Research.* **2013. (Q1)**
9. **Jusoh SA**, Helms V. Helical integrity and microsolvation of transmembrane domains from Flaviviridae envelope glycoproteins. *Biochimica et*

Biophysica Acta (BBA)-Biomembranes. 2011; 1808 (4) 1040-9.

10. **Jusoh SA**, Welsch C, Siu SW, Böckmann RA, Helms V. Contribution of charged and polar residues for the formation of the E1–E2 heterodimer from Hepatitis C Virus. *Journal of molecular modeling*. 2010; 16 (10) 1625-37.

Conference paper

Published paper:

Surname author Initial(s). Paper title. In: Surname editor Initial(s), editor(s). Conference title. Place of publication: Publisher; Year. page(s).

1. Shaharom RR, Nayan MN, Radzi MM, Akbar R, **Jusoh SA**. Molecular docking study of a tocotrienol and P-glycoprotein. In *Computers & Informatics (ISCI), 2013 IEEE Symposium on 2013 Apr 7* (pp. 147-151).

2. Sarbini S, Nayan MN, Chik WW, Radzi MM, Akbar R, **Jusoh SA**. Molecular docking studies of a quassinoid and P-glycoprotein. In *Computers & Informatics (ISCI), 2013 IEEE Symposium on 2013 Apr 7* (pp. 138-142).

3. Chik WD, Mohamed R, Majeed AB, **Jusoh SA**. Sequence analysis and homology modeling of TRPV5 and TRPV6 channels. In *Business, Engineering and Industrial Applications (ISBEIA), 2012 IEEE Symposium on 2012 Sep 23* (pp. 342-346).

Dissertation and master thesis

Surname Initial(s). Title [type of publication]. Place: Publisher; Year.

Wan Dalila Wan Chik. Structural Studies of Transient Receptor Potential (TRP) Channels (TRPs) Using Molecular Modeling and Molecular Dynamics Simulations. [PhD Thesis]. Bandar Puncak Alam: Universiti Teknologi MARA, Malaysia. 2019.

Nurul Azira Ismail. Potential of Flavonoids As Entry Inhibitors for Dengue Virus Type-2: A Study Using Molecular Dynamics Simulations and Molecular Docking. [PhD Thesis]. Bandar Puncak Alam: Universiti Teknologi MARA, Malaysia. 2019.

10	RESEARCH GRANTS	<p><i>List of research grants received between 2011-2015.</i></p> <p>Title or purpose of the research project, Name of grant, Name of granting agency, Duration of grant, Amount of grant, Principal investigator/member.</p> <p>Maker Lab & 3D Printing Service. Tabung Amanah UCS, 2018-2020, RM50,000. Principal investigator. (On-going)</p> <p>Title: Single Nucleotide Polymorphism (SNP) Effects On The OTCase Structure & Functions. BESTARI MYRA, UiTM, 2017-2019, RM 40,000. Principal investigator. (On-going)</p> <p>Title: Membrane Protein Folding: Folding of Envelope Glycoproteins Form Flaviviridae Viruses. Cluster Computing Grant, UiTM, 2012-2014, RM 30, 000. Principal investigator. (Completed)</p> <p>Title: Molecular Modeling And Docking Studies of P-glycoprotein. ERGS, KPM, 2012-2015, RM142,000. Principal investigator. (Completed)</p> <p>Title: Modeling And Dynamics of The Transient Receptor Potential (TRP) Channels. FRGS, KPM, 2011-2013, RM117,000. Principal investigator. (Completed)</p> <p>Project: Modelling of Inflammatory Biomarkers DNA Methylation Profile in the Progression of Premature Atherosclerosis in Rats. 2019-2021 FRGS RM128,000 - Member. (On-going).</p> <p>Project: Deciphering the Inhibitory Mechanism of Bile Pigments on Tobacco Carcinogenesis. 2018-2019 FRGS RM98,000. Member. (On-going).</p> <p>Project: Synthesis Of Supramolecule By Self-assembly Of Multi Dimeric Zn²⁺-cyclen Complexes, Organic Anions And Metal Ions In Aqueous. 2014-2017 ERGS RM128,000. Member. (Completed).</p>

		Project: Unravelling Insulin Receptor And Its Regulators In Activating The Insulin Signaling Pathway In Induced-insulin Resistance Model Treated With Stevioside. 2014-2017 RAGS UiTM RM80,000 - Member. (Completed).
11	AWARDS	<p><i>List of current awards received between 2011-2015</i></p> <p>Name of award, Organizer, Year received</p> <p>National Science Fund (NSF) Scholarship, Kementerian Sains & Teknologi-Malaysia for MSc Genetics (UKM), 2000-2002.</p> <p>Tenaga Pengajar Muda (TPM) Scholarship (UiTM) for PhD in Bioinformatics (Saarland University), 2005-2010.</p>
12	INVOLVEMENT IN PROFESSIONAL ORGANISATIONS	<p><i>List of active involvement in professional organisations</i></p> <p>Position, Name of organization, year active</p> <ul style="list-style-type: none"> ● Reviewer, CBDD, 2014-present. ● Member, Malaysian Society of Biochemistry & Molecular Biology (MSMBB), 2011-present. ● Member, American Chemistry Society (ACS) - 2014-2017. ● Committee Member, Malaysia Bioinformatics Network (MyBioinfoNet)
13	PARTICIPATION IN CONTINUING EDUCATION	<p><i>List of current participation in continuing education (2011-2015)</i></p> <p>Involvement (participant/committee), Name of program, organizer, year, venue</p> <p><u>Conferences:</u></p> <p>Presenter/Instructor, Workshop on Molecular Docking - 11th Seminar & Workshop of Computer-Aided Drug Design. 2018. Bali, Indonesia.</p>

		<p>Presenter/Instructor, Workshop on Molecular Docking - 10th Seminar & Workshop of Computer-Aided Drug Design. 2017. Langkawi, Malaysia.</p> <p>Plenary Speech & Session Chair, 7th International Conference on Computational System-Biology & Bioinformatics (CSBio2016), University of Macau, 19-22 Dec 2016, Macau.</p> <p><u>Courses:</u></p> <ul style="list-style-type: none"> ● Participant, Seminar Neuro Linguistic Programme (NLP), 24 February, 2018. Kementerian Pendidikan Tinggi, Putrajaya. ● ● Participant, Illumina Asia Pacific & Japan User Group Meeting, Illumina, 2009, Sabah, Malaysia ● PhD Research Methodology (13-17/06/2011) Auditorium 1 & Auditorium 2, Aras 4, Ilqam
14	COMMUNITY SERVICES	<p><i>List of current community services (2011-2015)</i></p> <p>Involvement (participant/committee), Name of program, organizer, year, venue</p> <ul style="list-style-type: none"> ● Jury, Young Socialpreneur Programme 2.0. Politeknik Sultan Ahmad Shah. April-September, 2018. Kuantan, Malaysia. ● Judge, myTREEEvolution National Video Competition, CEO@Faculty Programme-Jabatan Pendidikan Tinggi. February 2018. KPM, Putrajaya. ● Committee Member, Majlis Hari Kesedaran & Pencegahan AIDS Sedunia 2018, UiTM Cawangan Selangor, 21 Nov 2018, UiTM Kampus Puncak Perdana.