

<b>PROFILE</b>		
<b>1</b>	<b>NAME</b>	NOR HAYATI ABU SAMAH
<b>2</b>	<b>ACADEMIC POSITION</b>	SENIOR LECTURER
<b>3</b>	<b>STATUS OF APPOINTMENT</b>	PERMANENT
<b>4</b>	<b>CITIZENSHIP</b>	MALAYSIAN
<b>5</b>	<b>EDUCATION</b>	<ul style="list-style-type: none"> <li>• PhD (Pharmaceutical Technology), Welsh School of Pharmacy, Cardiff University, United Kingdom – 2011</li> <li>• Bachelor of Pharmacy (Hons.), Universiti Teknologi MARA (UiTM), Malaysia – 2006</li> </ul>
<b>6</b>	<b>WORKING EXPERIENCE</b>	<ul style="list-style-type: none"> <li>• Senior Lecturer (DUF54), Faculty of Pharmacy, UiTM, Puncak Alam, 25 Feb 2016 – present</li> <li>• Senior Lecturer (DM51) Faculty of Pharmacy, UiTM, Puncak Alam, 11 Oct 2011 – 24 Feb 2016</li> <li>• Provisionally-registered Pharmacist (U41), Sultan Haji Ahmad Shah Hospital (HosHAS), Temerloh, 2006 – 2007</li> </ul>
<b>7</b>	<b>CURRENT ACADEMIC RESPONSIBILITIES</b>	<p><i>Teaching:</i></p> <ul style="list-style-type: none"> <li>• PHC430: Fundamental of Pharmaceutics</li> <li>• PHC500: Drug Delivery Systems II</li> <li>• PHC529: Pharmaceutical Industry Practice</li> <li>• PHC554: Pharmaceutical Material and Product Characterization</li> <li>• PHC401: Pharmacy Practice I</li> <li>• PHC426: Pharmacy Practice II</li> <li>• PHC566 &amp; PHC567: Research I &amp; Research II (supervision of undergraduate final year projects)</li> </ul> <p><i>Resource Person (RP):</i></p> <ul style="list-style-type: none"> <li>• PHC413: Physical Pharmacy (new cohort)</li> <li>• PHC554: Pharmaceutical Material and Product Characterization (current cohort)</li> </ul>
<b>8</b>	<b>RESEARCH INTERESTS/ PROJECTS</b>	Transdermal and Topical Dosage Form Design and Delivery; Oral Mucosal Dosage Form Design and Delivery; Cosmetics; Nanoparticles; and Pharmacy Education
<b>9</b>	<b>PUBLICATIONS</b>	<p><b>Journal article</b></p> <ul style="list-style-type: none"> <li>• Sheshala R, Anuar NK, <b>Abu Samah NH</b>, Wong TW. <i>In vitro</i> drug dissolution/permeation testing of nanocarriers</li> </ul>

for skin application: a comprehensive review. AAPS PharmSciTech. 2019; 20(5):164. DOI:10.1208/s12249-019-1362-7

- Hussain M, Sahudin S, **Abu Samah NH**, Anuar N. Students perception of an industry-based approach problem-based learning (PBL) and their performance in drug delivery courses. Saudi Pharm. J. 2019;27(2):274-282.DOI:10.1016/j.jsps.2018.11.009
- HM Aqilah, **Abu Samah NH**, Ariffin SA. Wound healing properties in Sprague-Dawley rats of marine endophytic fungi extracts. Malaysian Applied Biology Journal. 2018;47(5):213-218.
- Ayumi NS, Sahudin S, Hussain Z, Hussain M, **Abu Samah NH**, 2018. Polymeric nanoparticles for topical delivery of alpha and beta arbutin: preparation and characterization. Drug Delivery Transl. Res. 2018;9(2):482-496. DOI: 10.1007/s13346-018-0508-6
- **Abu Samah NH**, Heard CM. The effects of topically applied polyNIPAM-based nanogels and their monomers on skin cyclooxygenase expression, *ex vivo*. Nanotoxicology. 2014;8(1):100-106. DOI:10.3109/17435390.2012.754511
- **Abu Samah NH**, Heard CM. Enhanced *in vitro* transdermal delivery of caffeine using a temperature- and pH-sensitive nanogel, poly(NIPAM-co-AAc). Int. J. Pharm. 2013;453(2):630-640. DOI:10.1016/j.ijpharm.2013.05.042
- Azyyati MS, Zaty Nabila MS, Amilia A, Salleh NH, Julianto T, **Abu Samah NH**. Synthesis of fluorescent carbon dots from different carbon sources. Journal of Science and Technology in the Tropics. 2013; Special Issue Supplement:p.S22.
- **Abu Samah NH**, Heard CM. Topically applied KTTKS: a review. Int. J. Cosmet. Sci. 2011;33(6):483-490. DOI:10.1111/j.1468-2494.2011.00657.x
- Singka GSL, **Abu Samah NH**, Zulfakar MH, Yurdasiper A, Heard CM. Enhanced topical delivery and anti-inflammatory activity of methotrexate from an activated nanogel. Eur. J. Pharm. Biopharm. 2010;76(2):275-281. DOI:10.1016/j.ejpb.2010.06.014
- **Abu Samah NH**, Williams N, Heard CM. Nanogel particulates located within diffusion cell receptor phases following topical application demonstrates uptake into and migration across the skin. Int. J. Pharm. 2010;401(1-2):72-78. DOI:10.1016/j.ijpharm.2010.08.011

#### **Conference papers**

*Unpublished papers:*

	<ul style="list-style-type: none"> <li>• Mustaffa N, Mohd Sangit EA, Abdul Razak SF, Ariffin SA, <b>Abu Samah NH</b>. Physical and microbiological stability of extemporaneously prepared folic acid oral suspensions. The 4<sup>th</sup> International Pharmaceutical Research Conference (iPRC); 24 – 26 Aug 2018, Cyberjaya.</li> <li>• Abdul Razak SF, Ariffin SA, <b>Abu Samah NH</b>. Synthesis, characterisation and <i>in vitro</i> topical delivery of caffeine-loaded multiresponsive poly(<i>N</i>-isopropylacrylamide)-based particles. The 2<sup>nd</sup> International Conference on Pharmacy Education and Research Network of ASEAN 2017 (ASEAN PharmNET 2017); 21 &amp; 22 Nov 2017, Kuala Lumpur.</li> <li>• Abdul Razak SF, <b>Abu Samah NH</b>. Drug permeation study through rat skin: effect of storage conditions of the skin. The 4<sup>th</sup> International Conference on Pharmaceuticals, Nutraceuticals and Cosmetics Science (IPNACS); 12 &amp; 13 Nov 2015; Melaka.</li> <li>• Abdul Razak SF, <b>Abu Samah NH</b>. Caffeine permeation study through rat skin: effect of storage conditions of skin. Controlled Release &amp; Drug Delivery Symposium (CRDDS) 2015; 15 &amp; 16 Aug 2015; Kuala Lumpur.</li> <li>• Abdul Jalil NF, Ariffin SA, <b>Abu Samah NH</b>. Cytotoxicity evaluation of a temperature-sensitive poly(<i>N</i>-isopropylacrylamide) nanogel on cell viability, <i>in vitro</i>. International Conference on Nutraceuticals &amp; Cosmetic Sciences 2013 (ICNaCS 2013); 23 &amp; 24 Oct 2013; Jakarta, Indonesia.</li> <li>• Embok Cheni NH, Bustami Effendi TJ, <b>Abu Samah NH</b>. Effects of the oil component on modulating physical characteristics of oil-in-water emulsions. CRDDS 2014; 23 &amp; 24 Aug 2014; Kuala Lumpur.</li> <li>• Embok Cheni NH, Bustami Effendi TJ, <b>Abu Samah NH</b>. Skin penetration-enhancing effects of natural oils: <i>in vitro</i> study. The 1<sup>st</sup> International Conference on Industrial Pharmacy (ICIP); 16 &amp; 17 Aug 2014; Kuantan.</li> <li>• Jamil NM, <b>Abu Samah NH</b>, Bustami Effendi TJ. Study of rheological and textural properties of nanoemulsion hydrogel by instrumental characterisation. The 11<sup>th</sup> Asian Societies of Cosmetic Scientists Conference; 23 – 25 Apr 2013; Bali, Indonesia.</li> <li>• Mohd Suhaimi A, Mohamad Sulaiman ZN, Amir A, Salleh NH, Bustami Effendi TJ, <b>Abu Samah NH</b>. Organic-based carbon nanoparticle as a promising fluorescent biomolecular sensor. ICNaCS 2013; 23 &amp; 24 Oct 2013; Jakarta, Indonesia.</li> <li>• Ahmad MZ, Abd Hamid K, Mohd Jaafar MH, Anuar N, Ali AA, <b>Abu Samah NH</b>, Abd Wahab MS, Mohd Zohdi R, Bustami Effendi TJ. The effect of Nenas Honey on</li> </ul>
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		<p>tensile strength evaluation by incision wound model. The 1<sup>st</sup> International Conference on Nutraceutical and Cosmetic Sciences 2012 (ICNaCS 2012); 22 – 23 Oct 2012; Kuala Lumpur.</p> <ul style="list-style-type: none"> <li>• Ali AA, Mohd Jaafar MH, Ahmad MZ, Anuar N, Abd Hamid K, <b>Abu Samah NH</b>, Abd Wahab MS, Mohd Zohdi R, Bustami Effendi TJ. Tensile strength evaluation using selected Malaysian and Manuka Honey as a wound dressing on rats. ICNaCS 2012; 22 – 23 Oct 2012; Kuala Lumpur.</li> <li>• Jamil NM, <b>Abu Samah NH</b>, Bustami Effendi TJ. Characterisation of palm oil nanoemulsion hydrogel. ICNaCS 2012; 22 – 23 Oct 2012; Kuala Lumpur.</li> <li>• Mohd Jaafar MH, Abd Hamid K, Ahmad MZ, Anuar N, Ali AA, <b>Abu Samah NH</b>, Abd Wahab MS, Mohd Zohdi R, Bustami Effendi TJ. Tensile strength evaluation using Acacia Honey and Manuka Honey as a wound dressing on rats. ICNaCS 2012; 22 – 23 Oct 2012; Kuala Lumpur.</li> <li>• Rosli MS, Wan Taman WMT, Ali AA, Abd Wahab MS, Ramli S, <b>Abu Samah NH</b>, Najmi S, Jalaludin N. Effect of <i>Phyllanthus Acidus</i> fruit water extract on oral microorganisms and its comparison with commercial mouthwash products. 1<sup>st</sup> Pharmaceutical Research Conference for Pharmacy Students and Young Graduates; 18 Feb 2012; Kuala Lumpur.</li> </ul> <p><i>Published paper:</i>  Jamil NM, Aljash Salleh SH, <b>Abu Samah NH</b>, Bustami Effendi TJ. Palm oil nanoemulsion-based hydrogel formulations: characterisation and stability studies. IEEE Symposium on Business, Engineering and Industrial Applications, Bandung; 2012, 829-833. DOI: 10.1109/ISBEIA.2012.6423008</p> <p><b>Dissertation and master thesis</b>  <b>Abu Samah NH</b>. Nanogel-based carriers for topical delivery [doctoral thesis]. Cardiff: Cardiff University ProQuest dissertation publishing no. U584538; 2011.</p>
10	<b>RESEARCH GRANTS</b>	<ul style="list-style-type: none"> <li>• Optimisation of formulation, preclinical stability and toxicity studies of palm oil-based aqueous cream for the treatment of eczema and dry skin condition. Synergised Industry-Experimenter Research Grant Initiative (SInERGI). 2017 – 2019. RM 50,000. Member.</li> <li>• Implementation and assessment of the effectiveness of assisted problem-based learning (PBL) compared to the didactic approach in Pharmaceutics courses in</li> </ul>

		<p>Faculty of Pharmacy, UiTM. Academic and Research Assimilation Scheme (ARAS). 2016 – 2018. RM 20,000. Principal Researcher.</p> <ul style="list-style-type: none"> <li>• Molecular target and pathway analysis of S2, a potent marine-derived chemical entity. Fundamental Research Grant Scheme (FRGS). 2014 – 2016. RM 109,800. Member.</li> <li>• Understanding the mechanistic pathways of levodopa-loaded chitosan nanoparticles for intranasal drug delivery (part 2). Supplementary Initiative Scheme (PSI). 2013 – 2015. RM 60,000. Member.</li> <li>• Probing molecular mechanism of poly(<i>N</i>-isopropylacrylamide)-based nanogels in modulating skin formulation cellular level. Research Acculturation Grant Scheme (RAGS). 2013 – 2015. RM 60,000. Principal Researcher.</li> <li>• Mechanism pathway of <i>Hibiscus rosa-sinensis</i> leaves extract fractions on antidiabetic properties in alloxan-induced diabetic rats. RAGS. 2013 – 2015. RM 66,000. Member.</li> <li>• Development of carbon dots-based probes for detection of nucleic acid sequences. Research Incentive Fund (RIF). 2012 – 2014. RM 20,000. Member.</li> <li>• Evaluation of wound healing activity of <i>Hibiscus rosa-sinensis</i> using incision wound model. RIF. 2012 – 2014. RM 20,000. Member.</li> </ul>
11	AWARDS	<p><i>Academic</i></p> <ul style="list-style-type: none"> <li>• UiTM Excellent Service Award (academic staff category), UiTM, 2012.</li> </ul> <p><i>Research</i></p> <ul style="list-style-type: none"> <li>• Gold Medal for Aqua Palme &amp; Crema Palme (Palm-based aqueous creams) in the Invention, Innovation &amp; Design Exposition (iideX) UiTM, Malaysia, 2016.</li> <li>• Bronze Medal for iKinet (Pharmacokinetics software application to enhance the teaching and learning of pharmacy students and pharmacists) in the Invention, Innovation &amp; Design Exposition (iideX) UiTM, Malaysia, 2016.</li> <li>• Silver Medal for Kelulut (<i>Trigona spp.</i>) honey-based cream as skin and hair conditioner in the Invention, Innovation &amp; Design Exposition (iideX) UiTM, Malaysia, 2013.</li> <li>• Silver Medal for Ulcer-off oral gel product in the Invention, Innovation &amp; Design Exposition (iideX) UiTM,</li> </ul>

		<p>Malaysia, 2013.</p> <ul style="list-style-type: none"> <li>• Gold Medal for Hibiscus leaves extract as hair enhancing serum product in the Innovation, Invention &amp; Design Competition (IID d'PUNCAK 2011), 2011.</li> </ul>
12	<b>INVOLVEMENT IN PROFESSIONAL ORGANISATIONS</b>	<ul style="list-style-type: none"> <li>• Member, Commonwealth Pharmaceutical Association (CPA), 2017 – present.</li> <li>• Member, Malaysian Pharmaceutical Society (MPS), 2013 – present.</li> <li>• Registered Pharmacist, Pharmacy Board Malaysia (Reg. no 10217), 2012 – present.</li> </ul>
13	<b>PARTICIPATION IN CONTINUING EDUCATION</b>	<p>Conferences:</p> <ul style="list-style-type: none"> <li>• Participant, The 1<sup>st</sup> International Conference on Pharmacy Practice (iCoPP), 2018, Selangor.</li> <li>• Participant, The 2<sup>nd</sup> International Conference on Pharmacy Education and Research Network of ASEAN 2017 (ASEAN PharmNET 2017), 2017, Kuala Lumpur.</li> <li>• Participant, The 4<sup>th</sup> National Symposium on Ethics in Clinical and Social Research, 2017, Selangor.</li> <li>• Participant, The 5<sup>th</sup> International Postgraduate Conference on Pharmaceutical Sciences (iPoPS), 2017, Selangor.</li> <li>• Participant, The 4<sup>th</sup> International Conference on Pharmaceuticals, Nutraceuticals and Cosmetic Science (IPNaCS), 2015, Melaka.</li> <li>• Participant, Symposium on Teaching Excellence, Learner Driven Learning &amp; Academic Research (STELAR), 2015, Sabah.</li> <li>• Participant, The 1<sup>st</sup> National Conference on Pharmacy Practice: Bridging Research and Pharmacy Practice, 2014, Selangor.</li> <li>• Participant, International Conference on Nutraceutics &amp; Cosmetic Sciences 2013 (ICNaCS 2013); 2013, Jakarta, Indonesia.</li> <li>• Participant, The 2<sup>nd</sup> iPoPS, 2013, Selangor.</li> <li>• Participant, International Conference on Nanoscience &amp; Nanotechnology (Nano-SciTech), 2013, Selangor.</li> <li>• Presenter, The 1<sup>st</sup> iPoPS, 2012, Selangor.</li> <li>• Participant, Diabetes and the Heart Seminar, 2012, Kuala Lumpur.</li> </ul> <p>Courses:</p> <ul style="list-style-type: none"> <li>• UiTM DoPP Learning Series 1 (HIV treatment as prevention: the key to an AIDS-free generation) (7 Feb 2018), UiTM Sungai Buloh Campus.</li> <li>• Good Clinical Practice Certificate (Clinical Research), GCP (9-11 Nov 2016), UiTM Sungai Buloh Campus.</li> </ul>

		<ul style="list-style-type: none"> <li>• Klentz Institute AAA Programme, First module (6-8 Jan 2011), Kuala Lumpur.</li> <li>• Animal Handling Workshop (7-9 Dec 2011), LAFAM, Faculty of Pharmacy, UiTM Puncak Alam.</li> </ul>
14	<b>COMMUNITY SERVICES</b>	<ul style="list-style-type: none"> <li>• Member, A Friend of UNICEF Malaysia, 2014 – 2016.</li> <li>• Committee, Entrepreneurship Day (donation for Syrian Fund), Alumni Faculty of Pharmacy, 2014, UiTM Puncak Alam.</li> <li>• Committee, IFTAR program (donation for Rumah Safiyah – a shelter home for orphans and Asnaf kids), Faculty of Pharmacy, 2014, Alam Budiman, Shah Alam.</li> <li>• Committee, Charity Visit to Rumah Jagaan dan Rawatan Orang Tua Al-Ikhlas, Alumni Faculty of Pharmacy, 2014, Puchong.</li> <li>• Committee, High Tea with Alumni (alumni activities), Alumni Faculty of Pharmacy and SOPHYS, 2014, UiTM Puncak Alam.</li> </ul>