






DR. MOHD HELMI BIN SANI Ph.D BIOCHEMICAL ENGINEERING, UNIVERSITY COLLEGE LONDON, UK		
PERSONAL INFORMATION D.O.B: 2 ND May 1982 Age: 34 Gender: Male Marital status: Married Nationality: Malaysian	CONTACT DETAILS Faculty of Biosciences and Medical Engineering (FBME) (Building T02 - 04 - 58) Universiti Teknologi Malaysia (UTM) 1 ST Email: helmisani@utm.my 2 ND Email: helmisani@fbb.utm.my Contact no. (Office): +6075557528 Contact no. (Mobile): +6018-2439177	
ACADEMIC QUALIFICATIONS		
 <ul style="list-style-type: none"> Ph.D Biochemical Engineering (2011 – 2015) University College London (UCL) Title of Project: Evaluation of microwell based systems and miniature bioreactors for rapid cell culture bioprocess development and scale-up 	 <ul style="list-style-type: none"> Master of Biotechnology (2008 -2010) University of Malaya (UM) Title of Project: Nutrient removal from shrimp pond effluent using <i>Gracilaria</i> (Rhodophyta) 	 <ul style="list-style-type: none"> BSc. of Biotechnology (2002 – 2006) International Islamic University of Malaysia (IIUM) Title of Project: Isolation, purification and screening of <i>Trichoderma spp.</i> for the production of lignin cellulase and cellulose enzyme by the liquid state bioconversion from STP sludge
MEMBERSHIP	SCIENTIFIC SKILLS	SOFTWARE SKILLS
	<ul style="list-style-type: none"> Bioreactors – Bench bioreactors (2L – 5L), Miniature bioreactors (300mL – 500 mL), disposable bioreactors. Aseptic techniques for animal cell culture. 	<ul style="list-style-type: none"> Statistical software: Origin, SigmaPlot, SPSS. Analytical techniques – ViCell XR, NOVA BioProfile, CASY analyser HPLC, Flowcytometer WinISO Microsoft Office
CONFERENCE/SYMPOSIUM		
<ol style="list-style-type: none"> Sani M. H., Kreukniet M., Robinson G., Baganz F. Comparison of feeding strategies for a CHO cell culture process using a single use 24-well miniature bioreactor system (micro-Matrix). Oral and Poster for 25th Annual ESACT-UK 2015, Queens Hotel, Leeds, United Kingdom, 7-8 Jan 2015. Sani M. H., Kreukniet M., Robinson G., Baganz F. Initial evaluation of a single use 24-well miniature bioreactor system (micro-Matrix) applied to fed-batch cultivation of CHO cells. Poster for 11th Annual bioProcess UK Conference, St George Hall, Liverpool, United Kingdom, 25-26 Nov 2014. Mohd Helmi Sani. CHO cell culture at the micro-bioreactor scale. Oral presentation for Technology Showcase Forum: Micro-bioreactors: the challenges and opportunities for down scale R&D by Applikon Biotechnology UK, Crowne Plaza, London, United Kingdom, 3-4 Nov 2014 Sani M. H., Micheletti M., Baganz F. <i>A comparison of two different feeding methods for CHO cell cultures in shaken microtitre plates.</i> Poster for 10th Annual bioProcess UK Conference, BMA House, London, United Kingdom, 3-4 Dec 2013. Sani M. H., Micheletti M., Baganz F. <i>Framework for Rapid Bioprocess Development and Optimisation: Application to IgG production in CHO cells.</i> Postgraduate Exam Meeting Board, Centre for Innovative Manufacturing in Emerging Macromolecular Therapies, Advanced Centre of Biochemical Engineering, UCL, United Kingdom, 13-14 September 2012. Sani M. H., Micheletti M and Baganz F., <i>Rapid Bioprocess Development Using Microwells for Mammalian Cell Culture,</i> Oral Presentation for International Conference on Humanities, Social Sciences, Science and Technology (ICHSST 2012), Cardiff, Wales, 16 July 2012. 		

PUBLICATIONS

1. **M.H., Sani** and F., Baganz, (2016), Mixing time as a criterion for scale translation of cell culture processes, *BioPharm International*, 29 (1), pp. 47-49. IF: 0.5
2. **Mohd Helmi Sani** and Frank Baganz, (2012). Miniature Bioreactors for Rapid Bioprocess Development of Mammalian Cell Culture. *Jurnal Teknologi*, 59(1), pp. 3-4.
3. **Sani M.H.**, Micheletti M., Baganz F. (2016). A comparison of two different feeding methods for CHO cell cultures in shaken microtitre plates. *Journal of Biotechnology Letters*, manuscript sent, IF: 1.591
4. **Sani M.H.**, Micheletti M., Baganz F. (2016). Scale translation from miniaturized bioreactors to conventional stirred tank reactors based on matched mixing time. *Journal of Biotechnology and Bioengineering*, manuscript in progress, IF: 4.126

WORK EXPERIENCES

Demonstrator (Sep 2012-July 2015)	Advanced Centre of Biochemical Engineering, University College London, Gordon Street, WC1H 0AH London, UK.	Conduct practical for the subject of sterilisation temperature mapping for MSc. Biochemical Engineering student
Research Assistant (Feb 2007-Ogos 2007)	Department Bioprocess Technology, Faculty of Biotechnology and Biomolecular Sciences, Universiti Putra Malaysia (UPM) Serdang, Selangor.	Project involved: <ol style="list-style-type: none"> 1. Development of microbial inoculums for high rate composting by cow manure 2. Production and optimisation of lignocellulosic bioethanol by microbial bioconversion process using OPEFB
Research Assistant (Okt 2006-Jan 2007)	Department of Biopharmaceuticals and Pharmacokinetics, Faculty of Pharmacy Universiti Teknologi Mara (UiTM) Shah Alam, Selangor.	Project involved: <ol style="list-style-type: none"> 1. Novel toco-trienol self nano-emulsifying system 2. Novel virgin coconut oil – palm toco trienol prenano-emulsion gel for cosmeticceuticals
Internship trainee (Apr 2005 – July 2005)	Pesticide Control Division, Department of Agriculture, Ministry of Agriculture Malaysia,	Analyse pesticides content found in water bodies surrounding the agriculture crops.

COMMUNITY SERVICES

1. Teaching associate for Smallpiece and Headstart programme in Science, Technology, Engineering and Maths (STEM) for primary and secondary schools in United Kingdom, 2013 - 2015.
2. Committee, UTMost Imagination 2011.
3. Pengurus Pasukan, Fakulti Biosains dan Biokejuruteraan bagi Sukan Antara Jabatan, 2010.
4. Bendahari, Badan Kebajikan Fakulti Biosains dan Biokejuruteraan, 2007 – 2008.
5. Committee, “Program Saintis Masuk Kampung”, organized by Science Student Societies (SCIENCESS), 2005.
6. Program Director, “When Young Scientist Get Together” exhibition for Ummatic Week organized by International Student Society, 2004.
7. Head of Education Bureau, Science Student Society (SCIENCESS) session 2003/2004.
8. Treasurer, Science Student Society, (SCIENCESS) session 2002/2003.

AWARD

1. Bursary for 25th Annual Meeting ESACT-UK 2015, ESACT-UK.
2. Bursary for 11th Annual bioProcess UK Conference 2014, bioProcess UK.
3. Bursary for 10th Annual bioProcess UK Conference 2013, bioProcess UK.
4. UTM-SLAI (Skim Latihan Akademik IPTA) Scholarship Kementerian Pengajian Tinggi Malaysia for PhD Biochemical Engineering (2011-2015)
5. UTM-SLAB (Skim Latihan Akademik Bumiputra) Scholarship Kementerian Pengajian Tinggi Malaysia for MBiotechnology (2008-2010)
6. Dean’ List recipient for Semester 1, 2005/2006