

CURRICULUM VITAE



A. Personal Details		
Full Name	Rukman Awang Hamat	Title: Associate Professor
Staff ID A02220	Citizenship Malaysian	
Designation	Clinical Microbiologist	

Department/Faculty	E-mail Address and URL
Medical Microbiology and Parasitology, Faculty of Medicine and Health Sciences, Universiti Putra Malaysia, 43400 UPM Serdang, Selangor Tel: 03-89472365/2366/2369 Fax: 03-89413802	E-mail: rukman@upm.edu.my URL: -

B. Academic Qualification			
Certificate / Qualification	Name of Institution	Year	Area of Specialization
MBBS	University of Malaya	1996	Medical Degree
MPATH	UKM	2006	Medical Microbiology

C. Scientific experience and Specialization			
Organization	Position	Start Date	Expertise
FPSK, UPM Serdang	Clinical Microbiologist	since 2006	Medical lecturer/Medical Scientist
HKL	Pathologist	since 2006	Microbiology Consultant
Serdang Hospital	Pathologist	since 2010	Visiting Microbiology Consultant

D. Administrative post		
No.	Position	Year
1.	Head Department of Medical Microbiology and Parasitology	Since 1 st March 2012 till now
2.	Parasitology Signatory for MS ISO 15189: 2007	May 2012
3.	Acting Head Department of Medical Microbiology and Parasitology	Feb, March & August 2008 Sept 2008-Feb 2009
4.	Acting Head Unit Medical Parasitology and Entomology	May 2008-Jan 2009
5.	Phase 1 Coordinator Master of Pathology	2009 & 2010
6.	Posting Coordinator (Medical Parasitology) Master of Pathology	2009 & 2010
7.	Year 2 Coordinator Medical Degree Programme	2010
8.	Year I Problem-Based Learning Coordinator Medical Degree Programme	2006-June 2010
9.	Module coordinator Medical Parasitology/Opportunistic Protozoa and Newly Emerging Parasites (SMK 5506)	Since 2008

E. List of publications	
1.	Sara Soheili, Sobhan Ghafourian, Zamberi Sekawi, Vasanthakumari Neela, Nourkhoda Sadeghifar, Morovat Taherikalani, Rukman Awang Hamat . The mazEF toxin-antitoxin

system as an attractive target in clinical isolates of *Enterococcus faecium* and *Enterococcus faecalis*. Drug Design, Development and Therapy. 2015. 9 (May), 2553-2561. **Impact factor: 3.026 (Q2)**.

2. YK Liew, **RA Hamat**, A van Belkum, PP Chong, V Neela. Comparative Exoproteomics and Host Inflammatory Response in *Staphylococcus aureus* Skin and Soft Tissue Infections, Bacteremia and Sub-Clinical Colonization. Clinical and Vaccine Immunology. 2015;22 (5), 593-603. **Impact factor: 2.37 (Q3)**
3. H. Ghasemzadeh-Moghaddam, V. Neela, W. van Wamel, **R.A. Hamat**, M. nor Shamsudin, N. Suhaila Che Hussin, M.N. Aziz, M.S. Mohammad Haspani, A. Johar, S. Thevarajah, M. Vos, A. van Belkum Nasal Carriers Are More Likely to Acquire Exogenous *Staphylococcus aureus* Strains than Non-Carriers. Clinical Microbiology and Infection. 2015. **Impact factor: 5.197 (Q1)**.
4. Salman S. Atshan, Mariana N. Shamsudin, Zamberi Sekawi, Leslie T. Thian Lung, Fatemeh Barantalab, Yun K. Liew, Mateg Ali Alreshidi, Salwa A. Abduljaleel and **Rukman A. Hamat**. Comparative proteomic analysis of extracellular proteins expressed by various clonal types of *Staphylococcus aureus* and during planktonic growth and biofilm development. Frontiers in Microbiology. 2015 Jun 3; 6:524. **Impact factor: 3.941 (Q1)**.
5. YK Liew, V Neela, RA Hamat, SA Nordin, PP Chong. The exoproteomes of clonally related *Staphylococcus aureus* strains are diverse. Annals of Microbiology. 2015. 1-5. **Impact factor: 1.039 (Q4)**
6. R Thomas, **RA Hamat**, V Neela. Extracellular enzyme profiling of *Stenotrophomonas maltophilia* clinical isolates. Virulence. 2014, 5 (2), 326-330. **Impact factor: 2.787 (Q2)**
7. Ghasemzadeh Moghaddam Hamed, van Belkum Alex, **Hamat Rukman Awang**, van Wamel Willem, and Neela Vasanthakumari. Methicillin-Susceptible and -Resistant *Staphylococcus aureus* with High-Level Antiseptic and Low-Level Mupirocin Resistance in Malaysia. Microbial Drug Resistance. 2014; 20(5): 472-477. **Impact factor: 2.364 (Q3)**
8. SS Atshan, MN Shamsudin, LTT Lung, Z Sekawi, A Karunanidhi, PP Chong, A Karunanidhi, JJ Nathan, MA Alreshidi, SA Abduljaleel, Rad EG and **RA Hamat**. Genotypically different clones of *Staphylococcus aureus* are diverse in the antimicrobial susceptibility patterns and biofilm formations. BioMed Research International. Volume 2013 (2013), Article ID 515712, 10 pages. **Impact factor: 2.880**
9. PLWeng, R Ramli, MN Shamsudin, YK Cheah and **RA Hamat**. High Genetic Diversity of *Enterococcus faecium* and *Enterococcus faecalis* Clinical Isolates by Pulsed-Field Gel Electrophoresis and Multilocus Sequence Typing from a Hospital in Malaysia. BioMed Research International 2013, 1-6. <http://dx.doi.org/10.1155/2013/938937>. **Impact factor: 2.880**
10. R Thomas, V Neela, **RA Hamat**. *Stenotrophomonas maltophilia*: Pathogenesis Model Using *Caenorhabditis elegans*. Journal of Medical Microbiology, 2013. **Impact factor: 2.502**
11. CS Shueh, V Neela, S Hussin, **RA Hamat**. Simple, time saving pulsed-field gel electrophoresis protocol for the typing of *Stenotrophomonas maltophilia*. Journal of Microbiological Methods, 2013, 94 (2), 141–143. **Impact factor: 2.161**
12. SS Atshan, MN Shamsudin, A Karunanidhi, A Belkum, LTT Lung, Z Sekawi, JJ Nathan, KH Ling, JSC Seng, AM Ali, SA Abduljaleel, **RA Hamat**. Quantitative PCR analysis of genes expressed during biofilm development of methicillin resistant *Staphylococcus aureus* (MRSA). Infection, Genetics and Evolution 2013, 18, 106-112. **Impact factor: 3.128**
13. H Alfizah, **RA Hamat**, A Norazah, R Hamizah, M Ramelah. Ethnicity association of Helicobacter pylori virulence genotype and metronidazole susceptibility. World Journal of Gastroenterology. 2013; 19 (8), 1283-1291. **Impact Factor: 2.471**
14. Alreshidi MA, Alsalamah AA, **Hamat RA**, Neela V, Alshrari AS, Atshan SS, Alajlan HH, Nor Shamsudin M. Genetic variation among methicillin-resistant *Staphylococcus aureus* isolates from cancer patients in Saudi Arabia. Eur J Clin Microbiol Infect Dis. 2013 Jan 15. (**Impact Factor: 2.859**)
15. YK Liew, V Neela, **RA Hamat**, SA Nordin, PP Chong. Modified silver staining in 2DE

- improves protein detection even at extremely low sample concentration. Electrophoresis, Volume 34, Issue 3, pages 397–400, February 2013. (**Impact Factor: 3.03**)
16. N Eskandarian, V Neela, Z Ismail, SM Puzi, **RA Hamat**, MNM Desa, SA Nordin. Group B streptococcal bacteremia in a major teaching hospital in Malaysia: a case series of eighteen patients. International Journal of Infectious Diseases. (ISI/Scopus Cited Publication/ **Impact Factor: 1.938**)
 17. Seyedeh Zahra Rouhani Rankouhi, Alex van Belkum, Vasanthakumari Neela, Richard V Goering, **Rukman Awang Hamat**. *Stenotrophomonas maltophilia* in Malaysia: Molecular epidemiology and trimethoprim/sulfamethoxazole resistance. International Journal of Infectious Diseases. Volume 16, Issue 8, August 2012, Pages e603–e607 (ISI/Scopus Cited Publication/ **Impact Factor: 2.529**)
 18. Noor Azira Abdul Mutalib, Syafinaz Amin Nordin, Malina Osman, **Rukman Awang Hamat**. Knowledge, attitude and practices regarding food hygiene and sanitation of food handlers in Kuala Pilah, Malaysia. Food Control, Volume 27, Issue 2, October 2012, Pages 289–293 (ISI/Scopus Cited Publication/ **Impact Factor: 2.812**)
 19. V Neela, R Thomas, SZR Rankouhi, A Karunanidhi, **RA Hamat**, A Van Belkum. Modified DNase tube test to detect DNase activity in *Stenotrophomonas maltophilia*. Journal of Medical Microbiology. 2012; 61(Pt 12):1792-4. (**Impact factor: 2.502**)
 20. Noor Azira Abdul Mutalib, Syafinaz Amin Nordin, Malina Osman, **Rukman Awang Hamat**. Knowledge, attitude and practices regarding food hygiene and sanitation of food handlers in Kuala Pilah, Malaysia. Food Control. 2012;27(2): 289–293. (**Impact factor: 2.812**)
 21. Salman Sahab Atshan, Mariana Nor Shamsudin, Zamberi Sekawi, Leslie Than Thian Lung, **Rukman Awang Hamat**, Arunkumar Karunanidhi, Alreshidi Mateq Ali, Ehsanollah Ghaznavi-Rad, Hamed Ghasemzadeh-Moghaddam, Johnson Shueh Chong Seng, Jayakayatri Jeevajothi Nathan, and Chong Pei Pei. Prevalence of adhesion and regulation of biofilm-related genes in different clones of *Staphylococcus aureus*. Journal of Biomedicine and Biotechnology. Vol 2012, Article ID 976972, 10 pages. (**Impact factor: 2.436**)
 22. Poh Leng Weng, **Rukman Awang Hamat**, Yoke Kqueen Cheah, Norita Zainol, Muhammad Nazri Aziz, Mariana Nor Shamsudin. Vancomycin-resistant *Enterococcus faecium* of multi locus sequence type 18 in Malaysia. The Medical Journal of Malaysia. 2012; 67 (6), 639-640 (PUBMED cited).
 23. Mariana Nor Shamsudin, Alreshidi Mateq Ali, **Rukman Awang Hamat**, Alsharari Ahmad Subeh, Salman Sahab and Vasanthakumari Neela. High prevalence of *qacA* and *qacB* antiseptic resistance genes among clinical isolates of Methicillin Resistant *Staphylococcus aureus* (MRSA) in Malaysia. Journal of Hospital Infection, Volume 81, Issue 3, July 2012, Pages 206. **Impact Factor: 3.078**
 24. Nurul Zarith Mohd Zin, Mohd Nasir Mohd Desa, Nor Asmara Tasrip, **Rukman Awang Hamat**, Mariana Nur Shamsudin. Characterization and Antimicrobial Activities of Two *Streptomyces* Isolates from Soil in the Periphery of Universiti Putra Malaysia. Tropical Biomedicine. 2011; 28(3): 651-660 (ISI Cited Publication/ **Impact Factor: 0.649**)
 25. Rad EG, Shamsudin MN, Sekawi Z, Liew YK, Aziz MN, **Hamat RA**, Othman N, van Belkum A, Moghaddam HG, Neela V. Methicillin-Sensitive *Staphylococcus aureus* from Clinical and Community Sources are genetically diverse. International Journal of Medical Microbiology. 2011; 301(4): 347-353. (ISI Cited Publication/ **Impact Factor: 2.802**)
 26. **Hamat RA**, Rahman AA, Osman M, Unyah NZ, Abdullah WO, Isa NH. Cutaneous larva migrans: a neglected disease and possible association with the use of long socks. Transactions of the Royal Society of Tropical Medicine and Hygiene. Volume 104, Issue 2, February 2010, Pages 170-172. PubMed PMID: 19732927 **Impact Factor: 2.553**)
 27. Rad EG, Shamsudin MN, Sekawi Z, Liew YK, Aziz MN, **Hamat RA**, Othman N, Pei CP, van Belkum A, Moghaddam HG, Neela V. Predominance and Emergence of Clones of Hospital Acquired Methicillin Resistant *Staphylococcus aureus* in Malaysia. J Clin Microbiol. March 2010, p. 867-872, Vol. 48, No. 3. PubMed PMID: 20089756. (ISI Cited Publication/ **Impact Factor: 3.945**)
 28. Rad EG, Shamsudin MN, Sekawi Z, Aziz MN, **Hamat RA**, van Belkum A, Moghaddam HG,

Tavakol M, Neela V. Environmental Contamination in the Hospital as a Possible Source for Nosocomial Infection with Methicillin Resistant <i>Staphylococcus Aureus</i> . Infection Control and Hospital Epidemiology, 2010; 31(12), 1302-1303 (ISI Cited Publication/ Impact Factor: 2.99)
Books/Chapters in book 3/9

F. Current/Past Research Project					
Project No.	Project Title	Role	Year	Source of fund	Status
5526409	Sociobehavioral And Risk Perception On Leptospirosis	Project leader	2015	LRGS, MOSTI	On-going
	Distribution And Regulation Of Toxin-Antitoxin Systems Between Invasive And Non-Invasive Strains Of Streptococcus Pyogenes	Project leader	2015	Postgraduate Supervision Grants, FPSK, UPM	On-going
04-02-12-1766RU	Investigating the emergence of ampC gene in <i>Stenotrophomonas maltophilia</i> clinical isolates and its genotypic characteristics of cephalosporins resistance in two major Malaysian hospitals	Project leader	2012	RUGS	completed
6381600-14001 (<i>Libyan Ambassador Grant</i>)	Prevalence of cryptosporidiosis and its association factors in children with malignancies in Malaysia and Libya	Project leader	2010	<u>International Grant:</u> The People Bureau of The Great Socialist People Libyan Arab Jamahiriya	Completed
06-02-04-0907 PR0073/05-02	Characterization of genes in pathogenicity island in <i>Helicobacter pylori</i> isolates	Project leader	2009	IRPA/MOSTI	Completed
04-11-08-628FR	Microbiological and molecular characteristics of multiple drug resistant <i>Stenotrophomonas maltophilia</i> in local clinical settings	Project leader	2008	MOHE,RMC	Completed
04-02-07-0340RU	Intestinal microsporidia in children with malignancy in Malaysia	Project leader	2008	RMC,UPM	Completed
04-01-11-1174RU	The knowledge, socio-acceptability and practice on malaria : A comparative study on the Mazabuka, Zambia and Lipis Malaysia communities	Co-researcher	2011	RMC,UPM	On going
05-04-11-1510RU	The effect of probiotic towards anaerobic microbes of healthy human faeces after the antibiotic administration	Co-researcher	2011	RMC,UPM	On going
04-01-11-1173RU	Impact of toxoplasmosis and its pathological development in animal model with specific relationship with affective disorder in human	Co-researcher	2011	RMC,UPM	On going

<i>FRGS/I/II/SG/UPM/03 /1</i>	Correlating the frequency of nosocomial colonization and infection of MRSA with the host <i>S. aureus</i> nasal carriage and humoral immune statuses prior to hospital admission.	Co-researcher	2011	MOHE	On going
<i>04-04-10-1002RU</i>	Serotypes distribution and antimicrobial susceptibility of Streptococcus group B isolated from clinical samples.	Co-researcher	2010	RMC, UPM	On going
<i>04-01-09-0795RU</i>	Discovery of potential biomarkers for <i>S. aureus</i> infection based on exoprotein produced by pathogenic strain	Co-researcher	2009	RMC, UPM	Completed
<i>04-01-09--0715RU</i>	Development of high antibiotic production-induction media for local <i>Actinomycete</i> spp.	Co-researcher	2009	RMC, UPM	Completed
<i>04-01-04-SF0853E-Science Fund</i>	Distribution of Arginine Catabolic Mobile Element (ACME), Cytolytic and Superantigen Toxins Among Local <i>Staphylococcus aureus</i> Isolate	Co-researcher	2007	MOSTI	Completed

G. Student Supervision					
	<i>Graduated</i>		<i>On-going</i>		
	<i>As Chairman</i>	<i>As Member</i>	<i>As Chairman</i>	<i>As Member</i>	
Master	7	8	8	6	
PhD	1	5	-	9	