

CURRICULUM VITAE

A. BUTIR-BUTIR PERIBADI (<i>Personal Details</i>)					
Nama Penuh (<i>Full Name</i>)	ROZI MOHAMED			Gelaran (<i>Title</i>): DR.	
Warganegara (<i>Citizenship</i>) MALAYSIA	Bangsa (<i>Race</i>) MELAYU			Jantina (<i>Gender</i>) Female	
Jawatan (<i>Designation</i>)	PROFESOR MADYA				
Alamat Semasa (<i>Current Address</i>)	Jabatan/Fakulti (<i>Department/Faculty</i>)			E-mel dan URL (<i>E-mail Address and URL</i>)	
Jabatan Pengurusan Hutan Fakulti Perhutanan Universiti Putra Malaysia 43400 UPM Serdang, Selangor Tel: 03-89467183 Fax: 03-89432514	Jabatan Pengurusan Hutan Fakulti Perhutanan Universiti Putra Malaysia 43400 UPM Serdang, Selangor Tel: 03-89467183 Fax: 03-89432514			E-mail: rozimohd@upm.edu.my	
B. KELAYAKAN AKADEMIK (<i>Academic Qualification</i>)					
Nama Sijil / Kelayakan (<i>Certificate / Qualification obtained</i>)	Nama Sekolah Institusi (<i>Name of School / Institution</i>)	Tahun (<i>Year obtained</i>)	Bidang pengkhususan (<i>Area of Specialization</i>)		
Ph.D	Oregon State University, Department of Forest Science, Corvallis, Oregon, USA.	2006	Forest Science		
C. KEMAHIRAN BAHASA (<i>Language Proficiency</i>)					
Bahasa / <i>Language</i>	Lemah <i>Poor (1)</i>	Sederhana <i>Moderate (2)</i>	Baik <i>Good (3)</i>	Amat Baik <i>Very good (4)</i>	Cemerlang <i>Excellent (5)</i>
English					5
Bahasa Melayu					5
Chinese					
Lain-lain (<i>other</i>):					

D. PENGALAMAN SAINTIFIK DAN PENGKHUSUSAN (<i>Scientific experience and Specialisation</i>)				
<i>Organization</i>	<i>Position</i>	<i>Start Date</i>	<i>End Date</i>	<i>Expertise</i>

E. PEKERJAAN (<i>Employment</i>)				
<i>Majikan / Employer</i>	<i>Jawatan / Designation</i>	<i>Jabatan / Department</i>	<i>Tarikh lantikan / Start Date</i>	<i>Tarikh tamat / Date Ended</i>

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F. ANUGERAH DAN HADIAH (<i>Honours and Awards</i>)				
<i>Name of awards</i>	<i>Title</i>	<i>Award Authority</i>	<i>Award Type</i>	<i>Year</i>
<i>Academic Awards</i>				
<i>Non-Academic Awards</i>				
<i>Awards of Merit</i>				

G. SENARAI PENERBITAN (Sila masukan nama pengarang, tajuk, nama jurnal, jilid, muka surat dan tahun diterbitkan) (<i>List of publications – author (s), title, journal, volume, page and year published</i>)	
<i>Journal</i>	<p>(* indicates corresponding author)</p> <p>Lee S.Y., Ng W.L., Mahat, M.N., Nazre M., and R. Mohamed*. 2016. DNA barcoding of the endangered <i>Aquilaria</i> (Thymelaeaceae) and its application in species authentication of agarwood products traded in the market. <i>PLOS ONE</i> 11(4): e0154631. doi:10.1371/journal.pone.0154631 (JCR IF 2015 = 3.057, Q1 Multidisp. Sci.).</p> <p>Siah C.H., Namasivayam P., and R. Mohamed*. 2016. Transcriptome reveals senescing callus tissue of <i>Aquilaria malaccensis</i>, an endangered tropical tree, triggers similar response as wounding with respect to terpenoid biosynthesis. <i>Tree Genetics & Genomes</i> 12 (2):33. DOI: 10.1007/s11295-016-0993-z (JCR IF 2015 = 2.132, Q1 Forestry).</p> <p>Lee S.Y., Ng, W.L., and R. Mohamed*. 2016. Rapid species identification of highly degraded agarwood products from <i>Aquilaria</i> using real-time PCR. <i>Conservation Genetics Resources</i> 8(4): 581-585. doi:10.1007/s12686-016-0599-7 (JCR Impact factor 2015 = 0.446, Q4 Plt. Sci.).</p> <p>Azzarina A.B., Mohamed R.*, Lee S.Y., and M. Nazre. 2016. Temporal and spatial expression of terpene synthase genes associated with agarwood formation in <i>Aquilaria malaccensis</i> Lam. <i>New Zealand Journal of Forestry Science</i> 46 (1): 1-13. DOI 10.1186/s40490-016-0068-9 (JCR IF 2015 = 0.783, Q3 Forestry).</p> <p>Lee S.Y., and R. Mohamed*. 2016 Rediscovery of <i>Aquilaria rostrata</i> (Thymelaeaceae), a species thought to be extinct, and notes on <i>Aquilaria</i> conservation in Peninsular Malaysia. <i>Blumea</i> 61: 13-19. DOI 10.3767/000651916X691196 (JCR IF 2015 = 0.416, Q4 Plt. Sci.).</p> <p>Rasool S., and R. Mohamed*. 2016. Plant cytochrome P450s: nomenclature and involvement in natural product biosynthesis. <i>Protoplasma</i> 253:1197-1209 DOI 10.1007/s00709-015-0884-4 (JCR IF 2015 =2.343, Q2 Plt. Sci.).</p> <p>Samsuddin A.S., Sajap A.S., and R. Mohamed. 2015. <i>Metarhizium anisopliae</i> of Peninsular Malaysia origin poses high pathogenicity toward <i>Coptotermes curvignathus</i>, a major wood and tree pest. <i>The Malaysian Forester</i> 78 (1 & 2): 41-48.</p> <p>Javar S., Mohamed R. *, Sajap A.S., and Lau W.H. 2015. Expression profiles of lysozyme- and prophenoloxidase-encoding genes in <i>Spodoptera</i> species challenged with entomopathogenic fungus, <i>Metarhizium anisopliae</i> using qRT-PCR. <i>Invertebrate Reproduction and Development</i>. 59 (4): 230-236. DOI 10.1080/07924259.2015.1108934 (JCR IF 2014 = 0.609, Q4).</p>

- Daud N. H., and **R. Mohamed***. 2015. Flavonoid production by calli and cell suspension cultures of *Aquilaria malaccensis* : A threatened tropical tree. *Medicinal Plants* 7 (3): 208-218. DOI: 10.5958/0975-6892.2015.00029.5 (Scopus).
- Javar S., **Mohamed R. ***, Sajap A.S. and Lau W.H. 2015. Expression of pathogenesis-related genes in *Metarhizium anisopliae* when infecting *Spodoptera exigua*. *Biological Control* 85: 30-36. DOI: 10.1016/j.biocontrol.2015.03.006 (JCR IF 2014 = 1.635, Q1 Ento.)
- Jayaraman S., and **R. Mohamed***. 2015. Crude extract of *Trichoderma* elicits agarwood substances in cell suspension culture of the tropical tree, *Aquilaria malaccensis* Lam. *Turkish Journal of Agriculture and Forestry*. 39 (2): 163-173. DOI: 10.3906/tar-1404-63. (JCR IF 2014 = 0.929, Q2 Agro.).
- Jayaraman S., Daud N.H., Halis R. and **R. Mohamed***. 2014. Effects of plant growth regulators, carbon sources and pH values on callus induction in *Aquilaria malaccensis* leaf explants and characteristics of the resultant calli. *Journal of Forestry Research* 25(3): 535-540. DOI 10.1007/s11676-014-0492-8 (Scopus)
- Mohamed R.***, Jong P.L., and Nurul Irdayu I. 2014. Succession patterns of fungi associated to wound-induced agarwood in wild *Aquilaria malaccensis* revealed from quantitative PCR assay. *World Journal of Microbiology and Biotechnology*. 30 (9): 2427-2436 DOI 10.1007/s11274-014-1668-2 (JCR IF 2013 = 1.687, Q3 Biotech & Appl. Microb.).
- Jong P.L., Tsan P., and **R. Mohamed ***. 2014. GCMS analysis of agarwood extracts from healthy and infected woods of mature and juvenile *Aquilaria malaccensis*. *International Journal of Agriculture and Biology* 16(3): 644-648. (JCR IF 2013 = 0.902, Q2 Agric. Multidisc.).
- Mohamed R.***, Jong P.L., and Kamziah A.K. 2014. Fungal inoculation induces agarwood formation in young *Aquilaria malaccensis* trees in the nursery. *Journal of Forestry Research* 21(1): 201-204. (Scopus)
- Muneer S., Hakeem K.R., **Mohamed R.**, and J.H. Lee. 2014 Cadmium toxicity induced alterations in the root proteome of green gram in contrasting response towards iron supplement. *International Journal of Molecular Sciences* 15: 6343-6355 doi:10.3390/ijms15046343 (JCR IF 2013 = 2.339, Q2 Chem. Multidisc.).
- Javar S, Sajap A.S., Mohamed R., and L.W. Hong. 2013. Suitability of *Centella asiatica* (pegaga) as a food source for rearing *Spodoptera litura* (F.) (Lepidoptera: Noctuidae) under laboratory conditions. *Journal of Plant Protection Research* 53 (2): 184-189. (Scopus)
- Mohamed R.***, M.T. Lim, and R. Halis. 2013. Biodegrading ability and enzymatic activities of some white rot fungi on kenaf (*Hibiscus cannabinus*). *Sains Malaysiana* 42(10):1365-1370 (JCR IF 2012 = 0.408, Q3 Multidisc. Sci.).
- Liong Y.Y., R. Halis , and **R. Mohamed***. 2013. Chemical Characterization of *Imperata cylindrica* ('Lalang') and *Pennisetum purpureum* (Napier grass) for bioethanol production in Malaysia. *Pertanika Journal of Technology and Science* 36(S): 109-116
- Lee S.Y., I. Faridah-Hanum, and **R. Mohamed***. 2013. Vegetative description of three *Aquilaria* (Thymelaeaceae) saplings in Malaysia. *Pertanika Journal of Technology and Science* 36 (S): 287-294
- Wong M.T., C.H. Siah, Q.Z. Faridah, and **R. Mohamed***. 2013. Characterization of wound-responsive genes in *Aquilaria malaccensis*. *Journal of Plant Biochemistry and Biotechnology* 22 (2):168-175 DOI: 10.1007/s13562-012-0144-z (JCR IF 2013 = 0.810, Q3 Plt. Sci.)
- Mohamed R.***, M.T. Wong, and R. Halis. 2013. Microscopic observation of 'gaharu' wood from *Aquilaria malaccensis*. *Pertanika Journal of Technology and Science* 36 (1):43-50 (Scopus)
- Liong Y.Y., R. Halis, O.M. Lai, and **R. Mohamed***. 2012. Conversion of lignocellulosic

biomass from grass to bioethanol using materials pretreated with alkali and the white rot fungus, *Phanerochaete chrysosporium*. *Bioresources* 7 (4):5500 - 5513 (JCR IF 2011 = 1.328, Q1 Mat. Sci., Paper & Wood)

Siah C.H., P. Namasivayam and **R. Mohamed**. * 2012. Comparisons of different RNA extraction methods on woody tissues of the tropical tree, *Aquilaria malaccensis*. *Asia Pacific Journal of Molecular Biology and Biotechnology* 20 (3): 107-113 (Scopus)

Daud N.H., S. Jayaraman and **R. Mohamed**.* 2012. An improved surface sterilization technique for introducing leaf, nodal and seed explants of *Aquilaria malaccensis* from field sources into tissue culture. *Asia Pacific Journal of Molecular Biology and Biotechnology* 20 (2): 55-58 (Scopus)

Mohamed R.*, H.Y. Tan, and C.H. Siah. 2012. A real-time PCR method for the detection of trnL-trnF sequence in agarwood and products from *Aquilaria* (Thymelaeaceae). *Conservation Genetics Resources* 4 (3): 803-806. DOI: 10.1007/s12686-012-9648-z (JCR IF 2012 = 0.703, Q3 Biod. Cons.)

Halis R., H.R. Tan, A. Zaidon, and **R. Mohamed**. 2012. Biomodification of kenaf using white rot fungi. *Bioresources* 7 (1) :984-987. (JCR IF 2011 = 1.328, Q1 Mat. Sci., Paper & Wood)

Lee S.Y., J. Weber, and **R. Mohamed**.* 2011. Genetic variation and molecular authentication of selected *Aquilaria* species from natural populations in Malaysia using RAPD and SCAR markers. *Asian Journal of Plant Sciences*. 10 (3): 202-211. DOI: 10.3923/apsj2011. (Scopus)

Mohamed R.*, P.L. Jong, and M.S. Zali. 2010. Fungal diversity in wounded stem of *Aquilaria malaccensis*. *Fungal Diversity* 43 (1): 67-74. DOI: 10.1007/s13225-010-0039-z (JCR IF 2010 = 5.074, Q1 Myco.)

Mohamed R.*, C. Wang, C. Ma, O. Shevchenko, J. Puzey, S. Dye, E. Etherington, X. Sheng, R. Meilan, S. Strauss, and A. Brunner. 2010. *Populus CEN/TFL1* regulates first onset of flowering, axillary meristem identity and dormancy release in trees. *The Plant Journal* 62 (4):674-688. DOI: 10.1111/j.1365-313X.2010.04185.x (JCR IF 2010 = 6.948, Q1 Plt. Sci.)

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Faridah-Hanum I., M.Z. Mustapa P. Lepun, T.I. Tuan Marina, M. Nazre, R. Alan, and **R. Mohamed**. 2009. Notes on the distribution and ecology of *Aquilaria* Lam. (Thymelaeaceae) in Malaysia. *The Malaysian Forester* 72 (2): 247-259. (Scopus)

Wong M.T. and **R. Mohamed**.* 2009. Cloning of PHENYLALANIN AMMONIA-LYASE (PAL) gene fragment from *Aquilaria malaccensis*. *The Malaysian Forester* 72(1):45-51 (Scopus)

Raja Nur Ateeka, R.O., M. Suziyani, A. Mohamad Azani, and **R. Mohamed**.* 2008. Heavy metal contents in soils, plants and trees naturally colonizing two ex-mining sites in Peninsular Malaysia. *The Malaysian Forester* 71(2):211-220.

Brunner, A., J. Li, S.P. DiFazio, O. Shevchenko, B.E. Montgomery, **R. Mohamed**, H. Wei, C. Ma, A.A. Elias, K. Van Wormer, and S.H. Strauss. 2007. Genetic containment of forest plantations. *Tree Genetics and Genomes* 3:75-100 (JCR IF 2007 = 1.171, Q1)

Mohamed, R.*, R. Meilan, and S.H. Strauss. 2001. Bacterio-opsin gene over-expression fails to elevate fungal disease resistance in transgenic poplar (*Populus*). *Canadian Journal of Forest Research* 31 (2):268-275 (JCR IF 2001 = 1.171)

Mohamed, R.*, R. Meilan, and S.H. Strauss. 2001. Complex behavior of a copper-

	<p>inducible gene expression system in transgenic poplar. <i>Forest Genetics</i> 8:69-72 (Scopus)</p> <p>Brunner, A.M., R. Mohamed, R. Meilan, L.A. Sheppard, W.H. Rottmann, and S.H. Strauss. 1998. Genetic engineering of sexual sterility in shade trees. <i>Journal of Arboriculture</i> 24:263-273 (Scopus)</p>
<i>Books/Monographs</i>	<p>Mohamed R. (ed). <i>Agarwood: Science Behind the Fragrance</i>. Springer, Singapore. ISBN 978-981-10-0832-0</p>
<i>Chapter in book</i>	<p>Lee S.Y. and R. Mohamed*. 2016. The origin and domestication of <i>Aquilaria</i>, an important agarwood producing genus. In: Mohamed R. (ed) <i>Agarwood: Science Behind the Fragrance</i>. Springer, Singapore. p. 1-20</p> <p>Rasool S. and R. Mohamed*. 2016. Understanding agarwood formation and its challenges. In: Mohamed R. (ed) <i>Agarwood: Science Behind the Fragrance</i>. Springer, Singapore. p. 39-56</p> <p>Mohamed R.* and Lee S.Y. 2016. Keeping up agarwood appearances – grades and quality. In: Mohamed R. (ed) <i>Agarwood: Science Behind the Fragrance</i>. Springer, Singapore. p. 149-167</p> <p>Mohamed R.*, Faridah Hanum I., and M.T. Wong. 2014. The million dollars scent. In: Faridah Q.Z., Nasir B. and Shureen Faris A.S. (eds) <i>Nature's Yield and Wonders of Art (NYAWA 14): Microbe</i>, UPM Press, Serdang. p. 28-31</p>

H. PROJEK PENYELIDIKAN TERDAHULU (<i>Past Research Project</i>)					
<i>Project No.</i>	<i>Project Title</i>	<i>Role</i>	<i>Year</i>	<i>Source of fund</i>	<i>Status</i>
01-01-07-069FR	Gaharu formation in <i>Aquilaria</i> : genes in synthesis pathway and wood changes	Project leader	2006	FRGS RM99,407	Completed
03-01-09-0829RU	Differential display identification of genes associated to 'gaharu' formation in <i>Aquilaria malaccensis</i> .	Project leader	2009-2011	RUGS RM133,000	Completed
n/a	Functional and genetic diversity of cellulases from wood decaying fungi in Peninsular Malaysia	Co-researcher	2009-2011	FRGS RM49,000	Completed
n/a	A study on wood-feeding higher termites (<i>Nasutitermes</i> sp.) cellulose-degrading activities and gene diversity.	Co-researcher	2009-2011	FRGS RM26,000	Completed
03-01-09-0710RU	Relationships between the regeneration of <i>Shorea leprosula</i> and the dynamics of ectomycorrhizal and saprophytic communities in a dipterocarp forest	Co-researcher	2009-2011	RUGS RM98,000	Completed
03-03-11-1438RU	Effects of wounding and microbial inoculation on 'gaharu' induction in tissue culture materials of <i>Aquilaria malaccensis</i> and changes in candidate gene	Project leader	2011-2013	RUGS RM100,000	Completed

	expression				
ERGS/1-2012/5527099	Interaction between an entomopathogenic fungi, <i>Metarhizium anisopliae</i> and its host subterranean termite, <i>Coptotermes curviganathus</i> , during infection process.	Co-researcher	2012-2014	ERGS RM97,000	Completed
07-01-13-1183FR	DNA detection and identification in gaharu chips and its products for chain of custody	Project leader	2013-2015	FRGS RM138,000	Completed
PD0211	Mapping the proteome of thick-walled and rapidly growing bamboo for the development of thick walled bamboo plantlets	Co-researcher	2014-2015	Putra Grant RM118,000	Completed
02-01-04-SF2102	Discovery of novel enzymes via proteomics of the gaharu tree (<i>Aquilaria</i> spp.) for use in the synthesis of unique fragrance compounds	Project leader	2014-2017	Sciencefund RM254,000	Ongoing
GP-1/2014/9439600	Functional characterization of cytochrome P450 monooxygenase genes from karas (<i>Aquilaria malaccensis</i>) transcriptome using heterologous system and their association to specific gaharu compounds	Project leader	2015-2017	Putra Grant RM96,000	Ongoing
n/a	Extraction, caractérisation et valorisation de bio-molécules issues de sous-produits de la filière bois dans les pays d'Asie	Co-researcher	2015	BioAsie Program, under the French Ministry of Foreign Affairs ~€40,000	Ongoing
07-01-16-1798FR	Taxonomic identification of gaharu tree species (Thymelaeaceae) and their adulterants based on DNA Barcoding and SNPs Genotyping for conservation and forensic applications	Project leader	2016-2018	FRGS RM89,200	Ongoing
n/a	Characterization of Malaysia agarwood species (gaharu) based on volatile marker compounds fingerprint and olfactometry evaluation	Co-researcher	2016-2019	FRGS RM60,000	Ongoing