

# CURRICULUM VITAE



<b>A. (Personal Details)</b>			
Nama Penuh (Full Name)	<b>Halimi Mohd Saud</b>		Gelaran (Title): <b>Prof. Madya</b>
No. MyKad / No. Pasport (Mykad No. / Passport No.) <b>610112-06-5051</b>	Warganegara (Citizenship) <b>Malaysia</b>	Bangsa (Race) <b>Melayu</b>	Jantina (Gender) <b>Lelaki</b>
Jawatan (Designation)	<b>Deputy Dean (Development, Industry and Community Linkages)</b>	Tarikh Lahir (Date of Birth)	<b>12 Jan. 1961</b>

Alamat Semasa (Current Address)	Jabatan/Fakulti (Department/Faculty)	E-mel dan URL (E-mail Address and URL)
<b>Jabatan Teknologi Pertanian, Fakulti Pertanian, Universiti Putra Malaysia, 43400 UPM Serdang, Selangor</b>  Tel: <b>03-8947 4807</b> Fax: <b>03-8940 8319</b>	<b>Jabatan Teknologi Pertanian, Fakulti Pertanian, Universiti Putra Malaysia, 43400 UPM Serdang, Selangor</b>  Tel: <b>03-8947 4807</b> Fax: <b>03-</b>	E-mail: <b>halimi@upm.edu.my</b>  URL:  H/P: <b>014-2260334</b>

<b>B. (Academic Qualification)</b>			
Nama Sijil / Kelayakan (Certificate / Qualification obtained)	Nama Sekolah Institusi (Name of School / Institution)	Tahun (Year obtained)	Bidang pengkhususan (Area of Specialization)
<b>BSc. (Hons) Genetics</b>	<b>University of Liverpool</b>	<b>1981 - 1984</b>	<b>Genetics</b>
<b>Doctor of Philosophy (PhD)</b>	<b>University of Wales</b>	<b>1986 - 1990</b>	<b>Microbial Ecology</b>

<b>C. (Language Proficiency)</b>					
Bahasa / Language	Lemah Poor (1)	Sederhana Moderate (2)	Baik Good (3)	Amat Baik Very good (4)	Cemerlang Excellent (5)
English					√
Bahasa Melayu					√

<b>D. (Scientific experience and Specialisation)</b>				
Organization	Position	Start Date	End Date	Expertise

Department of Biological Sciences, University of Dundee, Scotland	Post-Doctoral Research Attachment	January 1996	January 1997	Microbial Ecology
Graduate School of Advanced Sciences of Matter, Hiroshima University, Japan	Visiting Researcher	November 2002	December 2002	Biological nitrogen fixation

E. PEKERJAAN (Employment)				
Majikan / Employer	Jawatan / Designation	Jabatan / Department	Tarikh lantikan / Start Date	Tarikh tamat / Date Ended
UPM	Tutor	Department of Soil Science	1985	1990
UPM	Lecturer	Department of Soil Science	1990	2003
UPM	Associate Professor/Head of Department	Department of Agriculture Technology	2003	2012
UPM	Associate Professor / Deputy Dean	Faculty of Agriculture	2012	kini

G (List of publications – author (s), title, journal, volume, page and year published 2012-2017)	
Journal	<ol style="list-style-type: none"> <li>1. Naher U. A., Othman R., Shamsuddin Z. H., <b>Halimi Mohd Saud</b>, Mohd Razi I. and K. Abdul Rahim (2011). Effect of root exuded specific sugars on biological nitrogen fixation and growth promotion in rice (<i>Oryza sativa</i>). <i>Australian Journal of Crop Science</i> 5(10):1210-1217 (ISI, IF -1.63).</li> <li>2. Abdalmajid Nasher Mohamed, Mohd Razi Ismail, Mihdzar Abdul Kadir and <b>Halimi Mohd Saud</b> (2011). In vitro performances of hypocotyls and cotyledon explants of tomato cultivars under sodium chloride stress. <i>African Journal of Biotechnology</i> 10 (44):8757-8764 (CIJ).</li> <li>3. Kausar H., Sariah M., <b>Halimi Mohd Saud</b>, Zahangir Alam Z. and Razi Ismail M. (2011). Isolation and screening of potential actinobacteria for rapid composting of rice straw. <i>Biodegradation</i> 22:367-375 (ISI, IF - 2.06).</li> <li>4. Naher U. A., Othman R., Shamsuddin Z. H., <b>Halimi Mohd Saud</b>, Mohd Razi I. and K. Abdul Rahim (2011). Effect of root exuded specific sugars on biological nitrogen fixation and growth promotion in rice (<i>Oryza sativa</i>). <i>Australian Journal of Crop Science</i> 5(10):1210-1217 (ISI, IF - 1.63).</li> <li>5. Erwan, Mohd Razi Ismail, <b>Halimi Mohd Saud</b>, S. H. Habib, Shafiquzzaman Siddiquee and H. Kausar (2012). Physical, chemical and biological changes during composting of oil palm frond. <i>African Journal of Microbiological Research</i> 6 (19): 4084-4089 (ISI, IF - 0.53).</li> <li>6. Bassam Kanaan Abdul Jabbar and <b>Halimi Mohd Saud</b> (2012). Effects of molybdenum on biological nitrogen fixation by combination of <i>Rhizobium</i> and <i>Azospirillum</i> in soybean under drip irrigation system.</li> </ol>

7. Ahmed A.S., Siti Nor Akmar A., **Halimi Mohd Saud**, Omidvar V. and Napis S. (2012). Differential gene expression identified by suppression subtractive hybridization during late ripening of fruit in oil palm. *Plant Molecular Biology Reporter* 30:768-779 (ISI, IF - 2.45).
8. Mansoureh Sadat Shariifi Noori and **Halimi Mohd Saud** (2012). Potential of plant growth-promoting activity of *Pseudomonas* sp. Isolated from paddy soil in Malaysia as biocontrol agent. *Journal of Plant Pathology and Microbiology* 3:2. <http://dx.doi.org/10.4172/2157-7471.1000120> (ISI, IF - 0.42).
9. Md. Zahurul Islam, M. A. Sattar, M. Ashrafuzzaman, **Halimi Mohd Saud** and M. K. Uddin (2012). Improvement of yield potential of rice through combined application of biofertilizer and chemical nitrogen. *African Journal of Microbiology Research* 6 (4):745-750 (ISI, IF - 0.53).
10. Zakry Fitri Abdul Aziz, **Halimi Mohd Saud**, Khairuddin Abdul Rahim and Osumanu Haruna Ahmed (2012). Variable responses on early development of shallot (*Allium ascalonicum*) and mustard (*Brassica juncea*) plants to *Bacillus cereus* inoculation. *Malaysian Journal of Microbiology* 8 (1): 47-50 (CIJ).
11. Kausar H., Sariah M., Razi Ismail M., **Halimi Mohd Saud**, S. H. Habib and Zulkarami Berahim (2012). Development of a potential lignocellulolytic resource for rapid bioconversion of rice straw. *African Journal of Biotechnology* 11 (38):9235-9242 (CIJ).
12. Mukhlis, **H. Mohd Saud**, M. Sariah, M. Razi Ismail, S. H. Habib and H. Kausar (2013). Potential lignocellulolytic Trichoderma for bioconversion of oil palm empty fruit bunches. *Australian Journal of Crop Science* 7(3):425-431 (ISI, IF - 1.63).
13. Samira Samarfard, Mihdzar A. Kadir, Saleh B. Kadzimin, Seyedali Ravanfar, **Halimi M. Saud** (2013). Genetic stability of *in vitro* multiplied *Phalaenopsis gigantea* prptocorm-like bodies as affected by chitosan. *Notulae Botanicae Horti Agrobotanici Cluj-Napoca* 41 (1):177-183. (ISI, IF – 0.476)
14. Faqiz Adzmi, **Halimi Mohd Saud**, Mohd Razi Ismail, Radziah Othman, Sheikh Hasna Habib and Hossain Kausar (2014). Effect of co-inoculation of nitrogen fixing and phosphate solubilizing microorganisms in combination with chemical fertilizers on growth and development of rice. *Research on Crops* 15 (1). (ISI, IF – 0.103)
15. Zulkarami Berahim, Qurban Ali Panhwar, Mohd Razi Ismail, **Halimi Mohd Saud**, Md Monjurul Alam Mondal, Umme Aminun Naher and Md Robiul Islam (2014). Rice yield improvement by foliar application of phytohormone. *Journal of Food, Agriculture and Environment* 12 (2):399-404. (ISI, IF- 0.435)
16. Bassam Kanaan Abdul Jabbar, **Halimi Mohd Saud**, Radziah Othman, Sheikh

	<p>Hasna Habib, Hossain Kausar and Saikat Hossain Bhuiyan (2014). Effect of <i>Azospirillum</i> in association with molybdenum on enhanced biological nitrogen fixation, growth, yield and yield contributing characters of soybean. <i>Journal of Food, Agriculture and Environment</i> 12 (2):302-306. (ISI, IF- 0.435)</p> <p>17. Tan K. Z., O. Radziah, <b>M. S. Halimi</b>, A. R. Khairuddin, S. H. Habib and Shamsuddin Z. H. (2014). Isolation and characterization of rhizobia and plant growth-promoting rhizobacteria and their effects on growth of rice seedlings. <i>American Journal of Agricultural and Biological Sciences</i> 9 (3):342-360. (ISI, IF – 1.36)</p> <p>18. Habib S. H., <b>H. M. Saud</b> and H. Kausar (2014). Efficient oil palm total RNA extraction with a total RNA extraction kit. <i>Genetics and Molecular Research</i> 13 (2):2359-2367 (ISI, IF - 0.85)</p> <p>19. Kausar H., Mohd Razi Ismail., <b>Halimi Mohd Saud</b>, Sariah Meon, Radziah Othman., Habib Sheikh Hasna. (2014). Bio-efficacy of microbial infused rice straw compost on plant growth promotion and induction of disease resistance in chili. <i>Compost Science and Utilization</i> 22 (1):1-10. (ISI, IF – 0.662)</p> <p>20. Kausar H., Mohd Razi Ismail, <b>Halimi Mohd Saud</b>, Sheikh Hasna Habib, Radziah Othman and M. S. H. Buiyan (2014). Changes of physical and chemical characteristics during microbial composting of rice straw at various pH levels. <i>Compost Science and Utilization</i> 22 (3):153-163. (ISI, IF – 0.662)</p> <p>21. Zulkarami B., I. Mohd Razi, <b>M. S. Halimi</b>, M. A. Mondal, Q. A. Panhwar and M. Robiul Islam (2014). Effectiveness of different phytohormones on grain filling and yield of rice (<i>Oryza sativa</i> L.) under drought stress. <i>Journal of Food, Agriculture and Environment</i> 12 (2):697-700. (ISI, IF- 0.435)</p> <p>22. Samira Samarfard, Mihdzar A. Kadir, Saleh B. Kadzimin, <b>Halimi M. Saud</b>, Seyed Ali Ravanfar and Mahmoud Danae (2014). In vitro propagation and detection of somaclonal variation in <i>Phalaenopsis gigantea</i> as affected by chitosan and thidiazuron combinations. <i>HortScience</i> 49 (1):1-7 (ISI, IF – 0.855)</p> <p>23. Mohamad Husni Omar, Zulkarami Berahim, Norazrin Ariffin, Mohd Razi Ismail, <b>Halimi Mohd Saud</b>, Nurul Amalina, S. H. Habib and H. Kausar (2014). Improved water use efficiency in rice under limited water environment through microbial inoculation. <i>Journal of Food, Agriculture and Environment</i> 12 (3 &amp; 4):149-154. (ISI, IF - 0.435)</p> <p>24. Shamima Akter, Jugah Kadir, Abdul Shukor Juraimi, <b>Halimi Mohd Saud</b> and Salha Elmahdi (2014). Isolation and identification of antagonistic bacteria from phylloplane of rice as biocontrol agents for sheath blight. <i>Journal of Environmental Biology</i> 35:1095-1100. (ISI, IF - 0.553)</p> <p>25. Belel M. D., R. A. Halim, M. Y. Rafii and <b>H. M. Saud</b> (2014). Intercropping of corn with some selected legumes for improved forage production: A review. <i>Journal of Agricultural Science</i> 6 (3):48-62. (IF – 2.891)</p> <p>26. Mohammad Bagher Javadi Nobandegani, <b>Halimi Mohd Saud</b>, and Wong Mui Yun (2014). Specific genomic fingerprints of phosphate solubilizing <i>Pseudomonas</i> strains generated by box elements. <i>BioMed Research</i></p>
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	<p><i>International</i> 2014, Article ID 496562. (ISI, IF – 2.706)</p> <p>27. Mohammad Bagher Javadi Nobandegani, <b>Halimi Mohd Saud</b>, and Wong Mui Yun (2015). Phylogenetic relationship of phosphate solubilizing bacteria according to 16S rRNA genes. <i>BioMed Research International</i>, Article ID 201379. (ISI, IF – 2.706)</p> <p>28. N. Ayuni, O. Radziah, U. A. A. Naher, Q.A. Panhwar and <b>M. S. Halimi</b> (2015). Effect of nitrogen on nitrogenase activity of diazotrophs and total bacterial population in rice soil. <i>The Journal of Animal &amp; Plant Sciences</i>, 25(5): 1358-1364</p> <p>29. Habib S. H., Kausar H, <b>H. M. Saud</b>, M. R. Ismail. and R. Othman. (2016). Molecular characterization of stress tolerant plant growth-promoting rhizobacteria (PGPR) for growth enhancement of rice. <i>International Journal of Agriculture &amp; Biology</i> 18:184-191.</p> <p>30. Tavga Sulaiman Rashid, Kamaruzaman Sijam, Jugah Kadir, <b>Halimi Mohd Saud</b>, Hayman Kakakhan Awla, Dzarifah Zulperi &amp; Erneeza Mohd Hata (2016). Screening for active compounds in <i>Rhus coraria</i> L. crude extract that inhibit the growth of <i>Pseudomonas syringae</i> and <i>Ralstonia solanacearum</i>. <i>Indian Journal of Agricultural Research</i> 50:15-21.</p> <p>31. Phua Choo Kwai Hoe, Khairuddin Abdul Rahim and <b>Halimi Mohd Saud</b>. (2016). A review on microbial mutagenesis through gamma irradiation for agricultural applications. <i>Jurnal Sains Nuklear Malaysia</i>, 2016, 28(2): 20-29</p>
Chapter in book	<p>1. Mohd Fauzihan Karim, Radziah Othman, Umme Aminun Naher, A'fifah Abdul Razak and <b>Halimi Mohd Saud</b>. (2013). Biofortification of chilli using beneficial microbes and EFB compost at two moisture levels. In: <i>Advances in Tropical Soil Science Vol. 2</i>. Hamdan Jol and Shamshuddin Jusop (Eds). Universiti Putra Malaysia Press , p 245-262.</p> <p>2. Zulkifli Haji Shamsuddin, Radziah O. and <b>Halimi Mohd Saud</b> (2009). Beneficial Microbes in Sustainable Tropical Crop Production. In: <i>Phosphate Solubilizing Microbes for Crop Improvement</i>. Mohammad Saghir Khan and Almas Zaidi (Eds). Nova Science Publishers, New York. P 161-198.</p> <p>3.</p>

H. (Past Research Project)					
Project No.	Project Title	Role	Year	Source of fund	Status
UPM/700-1/3/LRGS	Multifunctional biofertilizer technology to boost sustainable rice production.	Sub-Project Leader	2011 - 2016	Department of Higher Education, Ministry of Higher Education, Malaysia (LRGS-Food Security)	On-going
GP-IBT/2013/940700	Plant growth promoting	Project Leader	2013-2015	UPM	Completed

	rhizobacteria enhanced salinity stress tolerance in okra through ROS-scavenging enzymes				
01/01/07/0005RU	Enhancing N and P uptake in selected vegetable crops under protected environment using diazotrophic and PSB (Phosphate Solubilizing Bacteria) Biofertilizer	Project Leader	2007 - 2008	RUGS	Completed
05-01-04-SF0067	Genetic diversity of phosphate solubilizing rhizobacteria (PSR) from oil palm rhizosphere	Project Leader	2006 - 2008	Ministry of Science, Technology and Innovation (MOSTI), Malaysia (eScienceFund)	Completed
05-01-04-SF0619	Alleviation of acclimatization stress in tissue cultured plantlets of tropical crops using plant growth promoting rhizobacteria (PGPR)	Project Leader	2006 - 2008	Ministry of Science, Technology and Innovation (MOSTI), Malaysia (eScienceFund)	Completed
03-07-03-068K	Molecular identification of biodiversity of beneficial rhizobacteria	Project Leader	2004 - 2006	Ministry of education, Malaysia (Competitive Fundamental grant)	Completed

## I. CONSULTANCY WORK

1. FAO/IAEA Coordinated Research Programme 1996-1999. The use of irradiated sewage sludge to increase soil fertility, crop yields and to preserve the environment. Research contract No. MAL 8483/RB. **Completed.**
2. UPM-IWK Consultancy on Utilization of sewage sludge as fertilizer. Indah Water Konsortium, Project No. IWK-P1. 1998-2000. **Completed.**
3. UPM-IWK Consultancy on Utilization of sewage sludge as soil amendment. Indah Water Konsortium. Project No. IWK-P2. 1998-2000. **Completed.**
4. Consultancy for Jabatan Pertanian on Determination of Microorganisms in Imported Biofertilizers (Rosafert) and Biofert – 1997. **Completed.**
5. Consultancy for Environmental Products Sdn Bhd on Pathogenic Bacteria in Aggregates – 1998. **Completed**

6. Consultancy for Kusocom on Determination of Microorganisms in Compost – 1999. **Completed.**
7. Consultant to Diversatech (M) Sdn Bhd on (i) The Use of Beneficial Micoorganisms in Biofertilizers and (ii) Effect of Zappa and Anti-bacterial Agent on Seed Treatment of Bacteria Infected Paddy Seeds (2002 – Current).