

# CURRICULUM VITAE

Name : CHUAH TSE SENG  
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Post : ASSOCIATE PROFESSOR  
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Race : CHINESE  
Nationality : MALAYSIA  
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## ACADEMIC QUALIFICATION

(Institute),(Qualification),(Discipline),(Year)

Universiti Kebangsaan Malaysia, PhD., Environmental Science (Weed Science), 2004

Universiti Kebangsaan Malaysia, MSc., Botany (Weed Science), 2000

Universiti Kebangsaan Malaysia, BSc., Conservation Biology and Ecology (Botany), 1998

## PROFESSIONAL QUALIFICATIONS

(Qualification),(Discipline),(Awarding Institute),(Year Awarded).

## PREVIOUS APPOINTMENT

(Post),(Organisation),(From)-(Until)

Deputy dean (Academic Talent and Research), Universiti Malaysia Terengganu (UMT),  
December 2013-Present

Associate Professor, Universiti Malaysia Terengganu (UMT), June 2010-Present

Senior lecturer, Universiti Malaysia Trengganu (UMT), January 2008-June 2010

Lecturer, Universiti Malaysia Terengganu (UMT), February 2007-December 2007

Lecturer, Kolej Universiti Sains dan Teknologi Malaysia (KUSTEM), June 2003-  
January 2007

## ADMINISTRATIVE DUTIES

(Role),(From)-(Until),(Level), (Organisation)

Chairman of Tour and Logistic Committee of Soil Science Conference 2016, April  
2016, April 2016, N, Univeristi Malaysia Terengganu

Advisor of Microbiology and Molecular Biology Workshop 2016, March 2016, March  
2016, N, Univeristi Malaysia Terengganu

Penyelaras pembentukan kursus Kaedah Penyelidikan Lanjutan, May 2015, May  
2016, F, Unversiti Malaysia Terengganu

Penyelaras pembentukan program master Pengurusan Mahkluk Perosak Tropika, January 2015, July 2016, F, Universiti Malaysia Terengganu

Chairperson of Invited Talk Session, November 2015, November 2015, I, 3rd Int Conf of Asian Allelopathy Society

Ahli Jawatankuasa Penerangan Rumpai di Kawasan Tanaman Program Amalan Pertanian Baik Bersama Komuniti di Bukit Kor., November 2015, November 2015, F, Universiti Malaysia Terengganu

Pengerusi Jawatankuasa Seminar Penulisan dan Penerbitan Artikel Jurnal, August 2015, August 2015, F, Univeristi Malaysia Terengganu

Pengerusi Jawatankuasa Pemeriksa Tesis 2 pelajar siswazah, April 2015, April 2015, F, Univeristi Malaysia Terengganu

Mentor kepada Dr Nurul Faziha, October 2015, October 2017, F, Univeristi Malaysia Terengganu

Ahli Jawatankuasa Operasi Pengurusan Bakat dan Akademik, January 2014, Present, U, Universiti Malaysia Terengganu

Ahli Jawatankuasa Operasi Pengurusan Penyelidikan Universiti, January 2014, Present, U, Universiti Malaysia Terengganu

Ahli Jawatankuasa Keselamatan dan Kesihatan Pekerjaan, January 2014, Present, U, Universiti Malaysia Terengganu

Timbalan Dekan (Bakat dan Akademik), December 2014, Present, F, Universiti Malaysia Terengganu

Mentor kepada Dr Nur Aida Hashim, January 2014, January 2016, F, Univerisiti Malaysia Terengganu

Mentor kepada Puan Iffah Hazirah Binti Mohd Nawi, January 2013, January 2014, F, Universiti Malaysia Terengganu

Pengerusi Jawatankuasa Pemeriksa Tesis 3 pelajar siswazah, November 2014, December 2014, F, Universiti Malaysia Terengganu

Pengerusi Jawatankuasa Pelaksana Seminar Penyeliaan Pelajar Siswazah, October 2014, October 2014, F, Universiti Malaysia Terengganu

Pengerusi Jawatankuasa Penerbitan, January 2014, Present, F, Universiti Malaysia Terengganu

Pengerusi Jawatankuasa Inovasi dan Penyelidikan, January 2014, Present, F, Universiti Malaysia Terengganu

Pengerusi Jawatankuasa Keselamatan dan Kesihatan Pekerjaan, January 2014, Present, F, Universiti Malaysia Terengganu

Penyelaras makmal perosak dan penyakit tanaman, January 2014, December 2015, F,

Universiti Malaysia Terengganu

Ahli Jawatankuasa Urusetia Lawatan Delegasi Fakulti Pertanian Universiti Lampung, Indonesia, December 2014, December 2014, F, Universiti Malaysia Terengganu

Ahli Jawatankuasa Pengajian Siswazah, January 2014, Present, F, Universiti Malaysia Terengganu

Ahli Jawatankuasa Pengurusan, January 2014, Present, F, Universiti Malaysia Terengganu

Chairman of Promotion Committee of 22nd Malaysia Microscopy Society Conference, November 2013, November 2013, N, Universiti Malaysia Terengganu

Chairman of Secretariat and Promotion Committee of Pesticide Safety Workshop, December 2012, December 2012, N, Universiti Malaysia Terengganu

Ahli Jawatankuasa Perundingan, Pengembangan dan Khidmat Nasihat, September 2012, December 2013, F, Universiti Malaysia Terengganu

Ahli Jawatankuasa Keselamatan dan Kesihatan Pekerjaan, September 2012, December 2013, F, Universiti Malaysia Terengganu

Co-ordinator of Crop Research Laboratory, January 2007, December 2013, D, Universiti Malaysia Terengganu

Committee member of question and examination, January 2006, January 2011, D, Universiti Malaysia Terengganu

Pegawai penghubung FASM bagi Audit ISO 9001:2000. Skop Pengajaran dan Pembelajaran untuk Pra Siswazah Sepenuh Masa., August 2009, August 2009, F, Universiti Malaysia Terengganu

Ahli Jawatankuasa dalam penyemakan dokumen Polisi Harta Intelek UMT., February 2009, February 2009, U, Universiti Malaysia Terengganu

Penyediaan dokumen COPPA bagi Jabatan Agroteknologi., September 2009, December 2009, D, Universiti Malaysia Terengganu

Ahli Jawatankuasa Urusetia Lawatan Delegasi Fakulti Pertanian Universiti Lampung, Indonesia, October 2014, October 2014, F, Universiti Malaysia Terengganu

## **RESEARCH**

(Project title),(Role in project),(From)-(Until),(Source),(Level).

Combined effect of N fertilizer and herbicides on control *Eleusine indica* in aerobic rice system., December 2015 - In Progress, Ministry of Education, National

Modelling the efficacy of combined coatings of chitosan and cinnamic acid on tomatoes to *Botrytis cinerea*., August 2015 - In Progress, Ministry of Education, National

Relationship and establishment of soil nutrient and biological composition of fungus garden, April 2015 - In Progress, Ministry of Education, National

Characterization of herbicidal activities of plant allelochemical, 2,4-diterbutylphenol, isolated from *Pennisetum purpureum* for natural and ecofriendly herbicide development, January 2014 - In Progress, Ministry of Education, National

Proteomics and metabolomics methods for probing the mode of action of pesticide in rice plant towards the development of pesticide biosensor., June 2014 - In Progress, Ministry of Education, National

Pollination Effectiveness and Efficiency of the Stingless Bees, *Heterotrigona itama* (Hymenoptera: Apidae) as Alternative Pollinator of Solanaceae and Cucurbitaceae Crops for Future Use in Agriculture, July 2014 - In Progress, Ministry of Education, National

Elucidating efficiency of Malaysia isolated lactic acid bacteria as biofertilizer against fungal infection in different cultivar of chillies in pre- and postharvest activities, June 2013 - In Progress, Ministry of Education, National

Elucidating mechanism action of plant allelochemical, 2,4-diterbutylphenol for natural and eco-friendly herbicide development, December 2013 - In Progress, Ministry of Education, National

Potential of allelochemical, dibutyl phthalate as a natural soil-applied herbicide on control of *Leptochloa chinensis* in aerobic rice system., September 2013 - August 2014, Universti Malaysia Terengganu, National

Effects of selected crop debris on emergence and growth of herbal plants., January 2013 - December 2014, Mardi, National

An integrated weed management approach in coconut plantation, January 2013 - December 2014, Mardi, National

Determination of genetic variability and development of molecular makers for weedy rice., June 2010 - December 2013, Ministry of Agriculture, National

Crude extracts of golden beard grass (*Chrysopogon serrulatus* trin.) as a natural herbicide for sustainable weed management., June 2010 - November 2012, Ministry of Agriculture, National

Exploitation of phytotoxic compounds of elephant grass (*Pennisetum purpureum* Schumac.) as natural herbicide for weed management., April 2010 - June 2012, Ministry of Higher Education, National

Propanil rsistance mechanism of *Leptochloa chinensis* (L.) Nees, October 2008 - December 2010, Ministry of Agriculture, National

Rapid Diagnosis for herbicide resistance in annual weed, July 2007 - December 2009, Ministry of Agriculture, National

Allelopathic potential of weed species as a natural herbicide for sustainable weed management, February 2007 - December 2008, Ministry of Higher Education, National

Joint actions in tank mixture of several selective herbicides with added adjuvant for broadleaf weed, February 2007 - December 2008, Ministry of Higher Education,

National

Reduced rates of herbicide combinations for controlling paraquat-resistant and susceptible biotypes of broadleaved weed, *Hedyotis verticilata* and grassy weed, *Eleusine indica* in oil palm plantations of Terengganu, July 2005 - June 2006, KUSTEM, National

Optimal rates of herbicide mixture for controlling broadleaf weeds of *Hedyotis verticilata* and *Chromolaena odorata* oil palm plantation, July 2005 - June 2006, KUSTEM, National

Study of Herbicide - Resistant Weeds in Oil Palm, Rubber Plantations and Paddy Fields in Terengganu as well as Kelantan, January 2004 - December 2004, KUSTEM, National

### **PROFESSIONAL AFFILIATIONS**

(Client),(Role),(From)-(Until).

International Alleopathy Society (IAS), Member, December 2011 - Present

Weed Science Society of Japan (WSSJ), Member, January 2005 - Present

Persatuan Ahli Akademik Universiti Malaysia Terengganu (PASAK), Ahli, January 2005 - Present

Malaysia Plant Protection Society (MAPPS), Member, January 2005 - Present

Asian Alleopathy Society (AAS), Councilor (Malaysia), December 2009 - November 2015

Weed Science Society of America (WSSA), Member, June 2010 - Present

Asian Pacific Weed Science Society (APWSS), Member, October 2015 - October 2017

Asian Alleopathy Society (AAS), Member At Large, October 2015 - October 2018

### **EXPERT TECHNICAL/CONTRIBUTION**

(Activity),(Client),(Role),(From)-(Until),(Level).

Evaluate 1 proposal RAGS, Lecturer UMT, August 2015 - August 2015, International

Evaluate 2 proposals of FRGS, Lecturer UMK, June 2015 - June 2015, International

Evaluate papers submitted to International Conference of 3rd Asian Alleopathy Society, Participants of International Conference of 3rd Asian Alleopathy Society, October 2015 - November 2015, International

Evaluate progress presentation in Postgraduate Internship Programme, Intern, May 2015 - May 2015, International

Evaluate progress and proposal presentation in Postgraduate Seminar 2015, Postgraduate students of PPSTM, August 2015 - August 2015, International

Review undergraduate programme, Bachelor of Applied Science (Agrotechnology), Advisor, February 2015 - February 2015, International

Evaluate 2 proposals of RACE, Lecturer of UMT / Universiti Malaysia Terengganu, August 2014 - August 2014, International

Evaluate 1 concept paper of LRGS, Lecturer of UMK / Universiti Malaysia Kelantan, August 2014 - August 2014, International

Evaluate participants in the competition of Research in a Flash, Participant of Monash Science Symposium 2014, June 2014 - June 2014, International

Evaluate oral presentation, Oral presenter of Monash Science Symposium 2014, June 2014 - June 2014, International

Evaluate 1 concept paper of LRGS, Lecturer of UMT, April 2014 - May 2014, International

Evaluate 1 proposal of TRGS, Lecturer of UMT, April 2014 - May 2014, International

Evaluate 2 proposal of FRGS, Lecturer of UMT, March 2014 - April 2014, International

Evaluate 2 proposal of FRGS, Lecturer of UMT, March 2013 - April 2013, International

Evaluate and monitor research sponsored by Ministry of Higher Education, Lecturer of UMT, January 2013 - December 2014, International

Evaluate paper submitted to 12th Symposium of the Malaysian Society of Applied Biology 2012., Presenter of 12th Symposium of the Malaysian Society of Applied Biology 2012, June 2012 - July 2012, International

Evaluate papers submitted to 11th UMT International Annual Symposium (UMTAS), Presenter of UMTAS, July 2012 - August 2012, International

Evaluate proposal of Young Scientist Foundation UMT, Lecturer UMT, January 2012 - December 2012, International

Research Monitoring of Science fund and Fundamental Research Grant Scheme, Lecturer UMT, January 2012 - December 2012, International

Evaluate proposal of fundamental research project KUSTEM, Lecturer KUSTEM, January 2004 - December 2006, International

Evaluate 1 concept paper of LRGS, Lecturer UMK, January 2015 - December 2015, International

## **AWARD AND RECOGNITIONS**

(Awards),(Awarding Institute),(Year),(Level).

Best oral presenter (Postgraduate Conference 2016, as co-supervisor), School of Marine Science and Environment, UMT, 2015, University

Gold Medal (Malaysia International Young Inventors Olympiad, as project advisor), Ministry of Education, 2015, International

Publication of High Impact Journal Article (Q1)(UMT innovation day 2015), Universiti Malaysia Terengganu, 2015, University

2 Bronze medals (UMT innovation day, as project leader), Universiti Malaysia Terengganu, 2015, University

Silver medal (Malaysia Technology Exhibition (MTE), as co-researcher), Malaysia Association Research Scientist, 2015, National

Excellent service, Universiti Malaysia Terengganu, 2015, University

Hadiah Setia Bakti, Universiti Malaysia Terengganu, 2014, University

Gold medal (Malaysian Agricultural Innovation Challenge (MAGIC), as co-researcher), Ministry of Agriculture, 2014, National

Gold medal (MTSE, innovation category, as co-researcher), Malaysian Agricultural Research and Development Institute (MARDI), 2014, National

Best poster (3rd prize), 6th International Conference on Postgraduates Educations (ICPE), as co-supervisor, Universiti Teknikal Malaysia Melaka, 2014, National

Majlis Anugerah Malim Ilmu 2013 (jurnal terindeks, Q1), Universiti Malaysia Terengganu, 2013, University

Gold Medal (MSTE 2013, Knowledge Category, as co-researcher), Malaysian Agricultural Research and Development Institute (MARDI), 2013, National

Silver medal (NRIC 2012, Life Science Category, as project supervisor), Universiti Sains Malaysia, 2012, National

Bronze medal (Hari Inovasi UMT 2012, as project supervisor), Universiti Malaysia Terengganu, 2012, University

Excellent service, Universiti Malaysia Terengganu, 2011, University

Bronze medal (PECIPTA 2011, co-researcher), Ministry of Education, 2011, National

Majlis Anugerah Malim Ilmu 2011 (jurnal tidak terindeks), Universiti Malaysia Terengganu, 2011, University

Majlis Anugerah Malim Ilmu 2011 (jurnal terindeks), Universiti Malaysia Terengganu, 2011, University

Gold Medal (UMT Research Day, as co-researcher), Universiti Malaysia Terengganu, 2011, University

3 Silver Medals (UMT Research Day, project leader/co-researcher), Universiti Malaysia

Terengganu, 2011, University

2 Bronze Medals (UMT Research Day, as project leader), Universiti Malaysia Terengganu, 2011, University

Majlis Anugerah Malim Ilmu 2010 (jurnal terindeks), Universiti Malaysia Terengganu, 2010, University

Silver medal (12th Engineering Design and Innovative Science, Residential and Cluster Schools, as project advisor), Ministry of Education, Malaysia, 2010, National

Pertandingan Penulisan Artikel UMT 2009 (tempat kedua), University of Malaysia Terengganu, 2009, University

Majlis Anugerah Malim Ilmu 2009 (jurnal berfaktor impak), Universiti Malaysia Terengganu, 2009, University

Majlis Anugerah Malim Ilmu 2009 (jurnal tidak berfaktor impak), Universiti Malaysia Terengganu, 2009, University

Excellent service, Universiti Malaysia Terengganu, 2008, University

Silver medal (Life Science Category, as project supervisor), Universiti Sains Malaysia, 2008, National

Bronze medal (Biotechnology Category, as co-researcher), Malaysia Technology Expo (MTE), 2007, National

### **KEYNOTE ADDRESS / INVITED SPEAKER**

(Title),(Event),(Venue),(Organizer),(Date),(Level).

2,4-diterbutylphenol: a potential natural soil applied herbicide., 3rd Asian Alleopathy Society, Westlake Hotel, Fuzhou, China, Asian Alleopathy Society and Fujian Agriculture & Forestry University, 01/11/2015, International

Analisis Statistk, Bengkel Kaedah Pencirian dan Analisis Data Pasca Siswazah, Pusat Pengajian Kejuruteraan Kelautan, Pusat Pengajian Sains Asas, 06/10/2015, National

Herbicide Resistance in Plantation Crop, Public Lecture, Polytechnic Jeli, Kelantan, Polytechnic Jeli, Kelantan, 15/09/2015, National

Weed Control in Crop Area, Good Agricultural Practice Programme with Bukit Kor Community, UMT campus, Bukit Kor, Marang, School of Food Science and Technology, UMT, 30/11/2015, National

Herbicide Resistant Weed Management in Vegetable Farms in Cameron Highlands., Seminar on Herbicide Resistant Weed Management in Vegetable Farms, Ttitwangsa Hotel, Cameron Highlands, Pahang, Association of Vegetable Farmer, Cameron Highlands, Pahang, 02/07/2015, National

Weed management of Eleusine indica in vegetable farms, Seminar on weed management in vegetable farms, Univeristy of Tunku Abdul Rahman (UTAR), Association of Farmer (Malim Nawar) Kampar, Perak, 12/12/2014, National



Herbicide Use in Crops, Crop Science Day, Laboratory of Crop Science, School of Food Science and Technology, School of Food Science and Technology, UMT, 22/09/2014, National

Isolation, identification and characterization of phytotoxic compounds isolated from Pennisetum purpureum, Monash Science Symposium 2014, Monash University Malaysia, Selangor, Monash University (Malaysia branch), 19/06/2014, National

Herbicide Resistance Management in Oil Palm Plantations, Herbicide Resistance Management Training, Swissbel Hotel, Bandung, Indonesia, Universitas Sumatra Utara, 28/01/2014, International

Weed Resistance Status and its Management in Vegetable Farms and Orchards of Malaysia, Seminar on Weed Resistance in Vegetable Farms and Orchards, Kuala Bikam Hall, Bidor, Perak, Association of Farmer (Kuala Bikam) Bidor, Perak, 04/05/2014, National

Chemical Control and Herbicide Resistance, 5th MPOB-IOPRI International Seminar, Kuala Lumpur Convention Centre (KLCC), Kuala Lumpur, Malaysia, Malaysian Palm Oil Board (MPOB) and Indonesian Oil Palm Research Institute (IOPRI), 22/11/2013, International

Weed Resistance and its Management in Oil Palm Plantations of Malaysia, Workshop on Herbicide Resistance in Oil Palm Plantation, Tiara Hotel, Medan, Indonesia, Weed Science Society of Indonesia and University of Sumatra Utara, Indonesia, 19/03/2013, International

Experimental Design, UMT Higher Degree Training Programme, Medan Syarahan Timur, Graduate School, UMT, 30/03/2010, National

Status on Weed Resistance in Plantation Crops in Malaysia, Seminar on Weed Resistance Management in Oil Palm Plantations, PPL Conference Hall, UPM, Malaysia Crop Protection Association & Malaysia Plant Protection Society, 26/11/2009, National

Experimental Design, Higher Degree Training Programme, Medan Syarahan Timur, UMT, Faculty of Science dan Technology, 17/08/2009, National

Weed Resistance: Status and Management in Malaysia, Weed Resistance Seminar, Sunway Resort Hotel, Sunway, Petaling Jaya, UKM & Monsanto (M) Sdn Bhd, 15/01/2009, National

Biostatistics for final year student, Seminar on Final Year Project, Auditorium of Sultanah Nur Zahirah Library, UMT, Department of aquaculture and fishery science, 01/09/2007, National

## **INTELLECTUAL PROPERTY RIGHTS**

(Product),(Type),(Year),(Year Awarded).

A Composition and a Process for Inhibiting Weed Growth and Emergence, PAT, 2014, 2014

## UNPATENT INTELLECTUAL PROPERTY RIGHTS

(Product),(Type),(Reg. No),(Owner),(Cost)

## PUBLICATIONS

(Publication),(Level).

### Articles in Journals

Khatijah H.H, Chuah T.S., Halijah, I., Wu, Q.G., Liao, J.P. and Liu, N., (2000), *Comparative leaf anatomy of Alpinia Roxb. species (Zingiberaceae) from China.*, Botanical Journal of Linnean Society, Vol 133 : 161-180

Ismail, B.S., T.S. Chuah and H.H. Khatijah, (2001), *Metabolism, uptake and translocation of 14C-paquet in resistant and susceptible biotypes Crassocephalum crepidioides (Benth.) S. Moore.*, Weed Biology and Management, Vol 1 : 176-181

Ismail, B.S., T.S. Chuah, S, Salmijah and Khatijah, H.H., (2001), *Role of superoxide dismutase and peroxidase activities in packet-resistant redflower ragleaf (Crassocephalum crepidioides (Benth.) S. Moore).*, Australian Journal of Agriculture Research, Vol 52 : 583-586

Ismail, B.S., T.S. Chuah and K.H. Hussin., (2001), *Paraquat resistance in the broadleaf weed Crassocephalum crepidioides from the Cameron Highland, Malaysia.*, Plant Protection Quarterly, Vol 16(1) : 44-46

Ismail, B.S., T.S. Chuah, S. Salmijah, Y.T. Teng and R.W. Schumacher., (2002), *Germination and seedling emergence of the glyphosate-resistant and- susceptible biotype of goosegrass (Eleusine indica [L.] Gaertn.).*, Weed Biology and Management, Vol 2 : 177-185

Ismail, B.S., T.S. Chuah, S. Salmijah and Y.T. Teng., (2003), *Effects of shade and watering frequency on growth and development of glyphosate-resistant and susceptible biotypes of goosegrass [Eleusine indica (L.) Gaertn.],* Plant Protection Quarterly, Vol 18 : 30-34

Chuah, T. S., Salmijah S. and Ismail B. S., (2004), *Effects of adjuvants on the efficacy of glyphosate and sethoxydim on the growth of glyphosate-resistant and susceptible biotypes of Eleusine indica (L.) Gaertn.*, Malaysian Applied Biology, Vol 33 : 71-74

Ismail, B.S. and Chuah T.S., (2004), *Mechanism of packet resistance in Crassocephalum crepidioides (Benth) S. Moore during immature stage.*, Journal of Tropical Agriculture, Vol 27(1) : 1-10

Chuah, T.S., S. Salmijah Y.T. Teng and B.S. Ismail, (2004), *Changes in seed bank*

*size and dormancy characteristics of the glyphosate-resistant biotype of goosegrass (Eleusine indica [L.] Gaertn.), Weed Biology and Management, Vol 4 : 114-121*

Chuah, T.S., S. Salmijah and B.S. Ismail, (2004), *Efficacy of tank-mix combinations of glyphosate and gramicides on the control of glyphosate-resistant and susceptible biotypes of goosegrass (Eleusine indica (L.) Gaertn.)*, Plant Protection Quarterly, Vol 19(4) : 130-134

Chuah, T.S., Noor-zalila, M.R, Cha, T.S. and B.S. Ismail, (2005), *Paraquat and glyphosate resistance of Woody Borreria (Hedyotis verticillata) growing at oil palm plantations in Terengganu.*, Malaysian Applied Biology, Vol 34(2) : 43-49

Chuah, T.S., S. Salmijah, Y.T. Teng and B.S. Ismail, (2005), *Response of glyphosate-resistant and susceptible biotypes of goosegrass (Eleusine indica (L.) to fertilizer use.*, Plant Protection Quarterly, Vol 20(1) : 33-24

Chuah, T.S., Hartini, M., Adzemi, M.A. and B.S. Ismail., (2006), *Propanil resistance of Leptochloa chinensis growing at paddy fields in Kelantan.*, Malaysian Applied Biology, Vol 35(1) : 1-5

Liew, H.J., M.A. Ambak, A.B. Abol-Munafi and T.S. Chuah, (2006), *Embryonic development of clownfish fish Amphiprion ocellaris under laboratory-reared conditions.*, Journal of Sustainability Science and Management, Vol 1 : 64-73

Chuah, T.S., S. Salmijah, and B.S. Ismail., (2006), *Effects of environmental factors on sethoxydim efficacy when applied to glyphosate-resistant and-susceptible biotypes of Eleusine indica (L.) Gaertn.*, Plant Protection Quarterly, Vol 21(1) : 10-13

Chuah, T.S., B.M., Maziah and B.M.Y., Nuraziah and T.S., Cha, (2006), *Reduced rates of tank mixtures for red sprangletop (Leptochloa chinensis (L.) Nees) and greater club-rush (Scripus grossus L. f) control in rice.*, Weed Biology and Management, Vol 6 : 246-250

Chuah, T.S. J.Y., Low and Y.S. Hii, (2007), *Acute and chronic effects of the insecticide-endosulfan on freshwater cladoceran, Moina macrocopa Straus.*, Bulletin of Environmental Contamination and Toxicology, Vol 79 : 557-561

Hii, Y.S., M.Y., Lee and T.S. Chuah., (2007), *Acute toxicity of organochlorine insecticide endosulfan and its effect on behaviour and some hematological parameters of asian swamp eel (Monopterus albus, Zuiew).*, Pesticide Biochemistry and Physiology, Vol 89 : 46-53

Lee S.W, Najjah M, Wendy Wee, Nadirah, M, Chuah, TS, (2007), *Antimicrobial property of 12 spices and methanol extract of ornamental sea anemone*

*(Radianthus ritteri) against Edwardsiellosis agent and other bacteria.*, Advance in Biological Research, Vol 1 : 164-166

Chuah, T.S., C.H. Yap and B.S. Ismail, (2007), *Effects of different light intensities and growth media on growth performance of freshwater lawn pennywort (Hydrocotyle sibthorpioides Lam.)*, Malaysian Applied Biology, Vol 36(1) : 78-83

Lee S.W., M. Najiah, Wendy Wee, T.S. Chuah, Noor Azhar and S. Faizah., (2008), *Review on RAPD-PCR as a Discriminative Tool for Fish Bacteria.*, Sciencepaper Online

Lee S.W., M. Najiah, Wendy Wee, T.S. Chuah, M.S. Noor Azhar and S. Faizah., (2008), *Review on Plant Extracts as Natural Antibacterial Agent*, Sciencepaper Online

Lee S.W., M. Najiah, Wendy Wee, M. Nadirah, T.S. Chuah, M.S. Noor Azhar and S. Faizah., (2008), *Reviews on Phenotypes of Edwardsiella tarda in Fish.*, Sciencepaper Online

Lee S.W., M. Najiah, Wendy Wee, M. Nadirah, T.S. Chuah, and S. Faizah., (2008), *Biological activities of Citrus microcarpa (Bunge.) (Rutaceae) and Allium sativum L. (Alliaceae) Extracts against Edwardsiella spp., an Edible Frog (Rana sp.) Pathogen.*, Sciencepaper Online

Lee S.W., M. Najiah, Chuah T.S., Wendy Wee and M.S. Noor Azhar., (2008), *Antimicrobial properties of tropical plants against 12 pathogenic bacteria isolated from aquatic organisms.*, African Journal of Biotechnology, Vol 7(13) : 2275-2278

Chuah, T.S., H.H. Teh, T.S. Cha and B.S. Ismail, (2008), *Antagonism of glufosinate ammonium activity caused by glyphosate in tank mixtures used for control of goosegrass (Eleusine indica Gaertn.)*, Plant Protection Quarterly, Vol 23(3) : 116-119

Chuah, T.S., B.J. Nor Asmah, T.S. Cha, Sayed M.Z. and B.S. Ismail., (2008), *The use of reduced rates of combinations in tank mixes for goosegrass (Eleusine indica (L.) Gaertn. control.*, World Applied Sciences Journal, Vol 5(3) : 358-362

Hii, Y.S. Kwee Luan Shia, K.L., Chuah, T.S and Hing, L.S., (2009), *Physiological responses of Chaetoceros sp. and Nannochloropsis sp. to short-term 2, 4-D, dimethylamine and endosulfan exposure*, Aquatic Ecosystem Health & Management, Vol 12 : 375-389

Chuah T.S., Anne M.K. and Cha T.S., (2009), *Proper adjuvant selection to enhance the activity of triclopyr combined with metsulfuron on the control of Hedytotis*

*verticillata*, Weed Biology and Management, Vol 9(3) : 179-184

Chuah, T.S, Tan, Y.Y. and Ismail, B.S., (2010), *In vitro evaluation of the antifungal activity of some essential oils on post-harvest fungal pathogens of tropical fruits*, Plant Protection Quarterly, Vol 25(4) : 162-164

Chuah T.S, Low V.L, Cha, T.S and Ismail B.S., (2010), *Initial report of glufosinate and paraquat Multiple resistance evolved in a biotype of goosegrass (Eleusine indica (L) Gaertn.) in Malaysia*, Weed Biology and management, Vol 10(4) : 229-233

Chuah, T.S and Ismail B.S., (2010), *The Status of Weed Resistance in Plantation Crops in Malaysia*, The Planter, Vol 86 : 615-620

Chuah, T.S., Juliana, K. and Ismail, B.S., (2010), *Improved control of woody boreria (Hedyotis verticillata Lam.) by foliar application of metsulfuron tank mixtures at the vegetative stage*, Plant Protection Quarterly, Vol 25(3) : 133-136

Ismail, B. S., Juliana, K., and Chuah, T.S., (2011), *Resistance mechanism of Leptochloa chinensis Nees to propanil*, Weed Biology and Management, Vol 11(2) : 57-63

Chuah, T. S., Tiun, S. M. and Ismail, B.S., (2011), *Allelopathic potential of crops on germination and growth of goosegrass (Eleusine indica L. Gaertn) weed*, Allelopathy Journal, Vol 27(1) : 33-42

Lee, S. W., Najiah, M, Chuah, T. S., Noor Azhar M. S, Wendy Wee, Nadirah, M. and Mohd Effendy A. W., (2011), *Antibiogram and Plasmid Profiling from Edwardsiella tarda Isolated from Freshwater Fish in East Coast Malaysia*, Journal of Sustainability Science & Management, Vol 6(1) : 19-27

Hii, Y. S., Soo, C.L., Chuah, T. S., Mohd-Azmi, A. and Abol Munafi, A. B., (2011), *Interactive Effect of Ammonia and Nitrate on the Nitrogen Uptake by Nanochloropsis sp.*, Journal of Sustainability Science and Management, Vol 6(1) : 60-68

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### **Thesis Dissertations**

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Chang, K.F, Chuah, T.S., Sunny Goh. E.G and Abdullah, M.Z., (2010), *Strong synergism of thiobencarb activity when combined with bentazon*, 9th UMT International Annual Symposium (UMTAS), Permai Inn, Kuala Terengganu

Cha,T.S, Chuah, T.S and Najihah,M, (2011), *Rapid Detection of Fluazifop Resistance In Goosegrass*, UMT Research Day 2011, Dewan Sultan Mizan, Universiti Malaysia Terengganu

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Lim W.K and Chuah, T.S., (2015), *OPM, - a novel organic mulch with slow released herbicide*, UMT Inovation Day, Dewan Sultan Mizan, Universiti Malaysia Terenggan

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## **EXPERT LINKAGES**

(Client),(Linkage),(Year Involve),(Duration),(Level Award).

SIM KHAY CHUAN, TECHNICAL MANAGER OF ANCOM CROP CARE SDN BHD, 2014, N

## **ACADEMIC PROJECT SUPERVISION**

(Student's Name),(Degree),(Thesis Title),(Year Awarded).

Tan Pui Wan, Master, Allelopathic potential of Pennisetum purpureum, 2015

Lim Win Kent, Master, Phytotoxic effects of oil palm frond mulch in combination with S-metolachlor for herbicide-resistant goosegrass control, 2015

Mazira Che Mat, Master, Intergrated weed management in coconut plantations, 2015

Norhafizah Md Zain, Doctor of Philosophy, Isolation, identification of phytotoxic compound of Pennisetum purpureum and its mode of action, 2014

Sudau, A/P Teet, Master, Antifungal activities of Pennisetum purpureum against

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Franci Anak Julop, Master, Molecular studies of glyphosate resistance mechanisms in Eleusine indica., 2013

Ahmad Ramadhan B. Mohd Nasir, Master, Weed control of metsulfuron-resistant biotype of Clidemia hirta in oil palm plantation, 2013

Najihah Bt. Mohamed, Master, Molecular studies of fluazifop resistance in goosegrass, 2012

Nor Asiah binti Awang, Master, Variability of Mas Cotek (Ficus deltoidea Jack) in Malaysia, 2012

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Anne Marie Kaben, Master, The development of PCR-based DNA markers for detection of glyphosate-susceptible and resistant biotypes of Eleusine indica (L.) Gaertn., 2010

Lee Seong Wei, Doctor of Philosophy, Remedies of edwardsielosis infection in African catfish (Clarias gariepinus), 2009

Soo Chen Lin, Master, Immobilization of Nannochloropsis sp in calcium alginate bead for removing nutrient in aquaculture water, 2009

Juliana Binti Karso, Master, Propanil resistance mechanism of Leptochloa chinensis, 2009

Satminder a/p Kaur, Master, 2008

Liew Hong Jung, Master, Spawning, development and larval rearing clownfish Amphiprion ocellaris under captive conditions, 2006

Neoh Seong Lee, Doctor of Philosophy, Effects of tea compost and mulch on quality of Brassica rapa., N/A

Tan Sian Hui, Doctor of Philosophy, Synthesis and phytotoxicity of fluoro-carboxylic acid derivatives on selected weeds, N/A

Nisrin Bt Abd Kadir, Master, Proteomic method for probing the mode of action pesticides in the rice plants towards the development of pesticide biosensor, N/A

Siti Nur Aqlili Riana Mohd Asseri, Master, Synthesis and herbicidal activity of nemadipine- B, N/A

Wan Nur Suzani Sazleen Wan Shafiint, Master, Characterization of herbicidal activities of plant allelochemical, 2, 4-di-tert-butylphenol, N/A

Wan Nurul Khursyaih Wan Mohamad, Master, Synthesis and phytotoxicity of 1,4 Dihydropyridine derivative via multicomponent reactions on selected weeds, N/A

Muhammad Aiman Fikri, Master, Potential of bacteriocin from lactic acid bacteria against

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Naimah Bt. Abdul Halim, Master, Elucidation of mechanism action of 2,4-diterbutyl phenol for sustainable weed management, N/A

Mohd Zahrol Ariff Shariat, Master, Utilization of herbs on vibriosis in freshwater giant prawn larvae, N/A

Wang Wai Ping, Master, Allelopathic potential of *Acacia* spp., N/A

Muhamad Azizi Bin Shapiee, Bachelor, Effects of beewax coating on postharvest quality of wax apples, N/A

Mohamad Lutfi Bin Mohd Tamizi, Bachelor, Effects of different packaging types on postharvest quality of wax apples, N/A

Muhammad Amirul Bin Nordin, Bachelor, Effects of different packaging system on postharvest quality of wax apples, N/A

Muhamad Wafi Bin Jaini, Bachelor, Effect of diiferent time exposure of fumigation on postharvest quality of wax apple, N/A

Nor Haslinda Binti Fauzi, Bachelor, Effects of stearin-based coating on quality of wax apples, 2015

Wong Jia Woen, Bachelor, Effects of cassava starched based coating on shelf life of wax apples at chilled temperature, 2015

Nurfatanahzirah Binti Saad, Bachelor, Effects of heat treatment with combination with cinnamic acid on quality of papaya, 2015

Asmiza Binti Abdullah, Bachelor, Effects of alginate-based coating added with different anti-browning agents on quality of carambola, 2015

Norhidayah Binti Samsori, Bachelor, Pollination efficiency of stingless bee on cucumber, 2015

Sarah Najiah Binti Ramli, Bachelor, Pollination efficiency of stingless bee on rockmelon, 2015

Nurul Izzati Bt. Mohd. Jawadi, Bachelor, Effects of cassava starch combined with cinnamic acid coating on post harvest life of papaya, 2014

Tan Lye Foong, Bachelor, Utilization of banana peels and chemical fertilizer on growth and post harvest quality of chinese cabbage, 2014

Heng Hui Shan, Bachelor, Potential of used tea leaves as organic mulching on growth and postharvest quality of *Brassica rapa*. L, 2014

Naimah Bt. Abdul Halim, Bachelor, Effect of chemical dipping on shelf life of fresh-cut rockmelon, 2014

Bur Suhaili Bt. Solihin, Bachelor, Polination efficiency of the stingless bee, *Trigona itama* on chillies *Capscium annum*, 2014

Nur Atikah Bt. Muhammad Ali, Bachelor, Effect of removed testa from corn kernel silage on the quality of 0-2 week old broiler chicken, 2014

Nurfatin Liyana Bt. Ablah, Bachelor, New edible coating to extend shelf life of fresh cut muskmelon, 2014

Farah Suhaila Binti Muhamad, Bachelor, Effect of oil palm leaflet in combination with citral on postharvest quality of Brassica sp grown with goosegrass, 2014

Nor Maisarah Bt. Mohd Shaari, Bachelor, Edible coating on rose apple by using chitosan and cinnamic acid, 2014

Siti Nur Laila Binti Mohd Noh, Bachelor, Allelopathic potential of weed on goosgrass, 2013

Nang Mirahinu Binti Long Shula, Bachelor, Effects of different pheromone-based traps on capture of red palm weevil, 2013

Nur Ain Farhah Binti Ros Saidon Khudri, Bachelor, Abundance of red palm weevil in oil palm plantation of Terengganu, 2013

Siti Sarmila Binti Ibrahim, Bachelor, Potential of pineapple leaf extract on growth and postharvest quality of Brassica rapa, 2013

Lim Win Kent, Bachelor, Effects of oil palm residues on growth and postharvest quality of Brassica rapa, 2013

Normi Binti Hashim, Bachelor, Effect of starch based coating on shelf life of mango fruit, 2013

Noor Nadia Idayu Binti Mohamed Zaid, Bachelor, Effects of calcium lactate and ascorbic acid on shelf life of minimal processed jackfruit, 2013

Ruziah Binti Md Yusoff, Bachelor, Effects of alginate-based coating added with ascorbic acid, calcium lactate or their combinations on quality of fresh cut star fruit, 2013

Rabiatul'Adawiyah Binti Abdul Manab, Bachelor, Effects of modified atmosphere packaging and storage temperature on sapodilla fruit, 2012

Siti Nurul Izzati Binti Azmi, Bachelor, Potential of oil palm residues on growth and postharvest quality of chinese spinach, 2013

Shahrizah Binti Abdul Hamid, Bachelor, Effects of ascorbic acid combined with alginate coating on reducing browning incidence of minimally processed pineapple, 2012

Norhedayah Binti Risan, Bachelor, Effects of calcium lactate and iso ascorbic acid on maintaining shelf life of pineapple fresh cut., 2012

Saiyidah Binti Kamarudin, Bachelor, Effects of alginate in combination with vanillin and ascorbic acid on postharvest quality of rose apple, 2012

Noor Damia Bt. Ab Aziz, Bachelor, Isolation and identification of phytotoxic compounds of Pennisetum purpureum, 2012

Noranis Bt. Ismail, Bachelor, Effects of SDS for enhancing herbicidal activity of 2,4 DTBP, 2012

Mazira Bt. Che Mat, Bachelor, Potential of 2,4 DTBP as soil applied herbicide, 2012

Nur Hamizah Binti Mohamed Khamis, Bachelor, Effects of rosell residues on postharvest quality of *Brasica rapa*, 2012

Zurainah Bt. Mohd Nasir, Bachelor, Potential of rosell residue in reducing pretilachlor rate for control of *Eleusine indica*, 2012

Nurul Afiqah Bt. Mohd Amin, Bachelor, Impact of different herbicide regimes on weed composition in rice fields, 2012

Ahmad Firdaus B. Zuklifli, Bachelor, Effects of different herbicide mixture regimes for weed control in rice fields, 2012

Siti Mastura Binti Abd Mutalep, Bachelor, Effects of different crop oil coating on extending shelf life of mango, 2012

Norsharmila Binti Ali, Bachelor, Effects of alginate and vanilin on quality of fresh cut guava, 2012

Lee Wei Shin, Bachelor, Effects of selected fertilizers on growth and post-harvest quality of *Brassica chinensis.*, 2010

Doreen Yong Sheng Yuen, Bachelor, Effects of edible coating alginate combined with vanillin on post-harvest quality of guava, 2010

Maisarah Bt Mior Sulaiman, Bachelor, Effects of oxalic acid and calcium lactate on shell life of fresh cut of papaya fruit, 2010

Norhafizah Binti Mohamad Nasir, Bachelor, Effects of citral vapor treatment and time exposure on post-harvest quality of citrus, 2010

Tey Huan Yoon, Bachelor, Effects of edible coating of alginate combined with cinnamic acid on post-harvest quality of mango, 2010

Cheah Pei Ling, Bachelor, Joint actions of paraquat, glyphosate and glufosinate on growth of goosegrass, 2010

Tan Phei Kee, Bachelor, Proper adjuvant selections for enhancing phytotoxic activity of coumarin combined with vanillin on emergence of goosegrass., 2010

Tan Pui Wan, Bachelor, Assessment of fungistatic activity of selected weed species to fungal pathogen of *Colletotrichum gloeosporioides*, 2010

Lim Shu Wen, Bachelor, Joint actions of several post-emergent herbicides used in paddy fields., 2010

Low Van Lun, Bachelor, Paraquat, glyphosate and glufosinate resistance in cultivated areas of Perak, 2010



Leong Sum Yee, Bachelor, Paraquat, glyphosate and glufosinate resistance in vegetable fields of Cameron Highlands, Pahang, 2010

Lee Pui Thing, Bachelor, Effects of citral vapor treatment on quality of banana, 2010

Tan Pei Ying, Bachelor, Effects of ametryn on control of algae growth in aquarium, 2009

Mariah Bt Moidin, Bachelor, Effects of chitson combined with calcium chloride on shell life of sapodilla, 2009

Idayu Bt. Idris, Bachelor, Effects of citral dipping treatment on post-harvest quality of several tropical fruits., 2009

Nor Azian Bt. Duriat, Bachelor, Effects of kojic acid, oxalic acid and their combinations on shell life of sprout, 2009

Nurul Izzah Bt. Mustafa, Bachelor, Effects of chitosan, papain and their combinations on post-harvest quality of mango, 2009

Norhafizah Md Zain, Bachelor, Effects of chitosan, cinnamic acid and their combinations on shelf life of tomato, 2009

Nor Hazlin Bt. Hassan, Bachelor, Effects of neems extracts on post-harvest quality of banana, 2009

Zuraifah Bt. Hamzah, Bachelor, Effects of alginate, chitosan and their combinations on shell life of mango, 2009

Sum Soo Pin, Bachelor, Effects of selected adjuvant on germination and growth of Fusarium and Cuvularia, 2009

Kalai a/p subramaniam, Bachelor, Assessment of caffeic acid combined with vanillin on growth of selected weed species, 2009

## **SUBJECT TAUGHT**

(Subject),(Session),(Credit Hour),(Student Level),(Organisation).

SAINS RUMPAI, I 2016/2017, 3, 40, 3, Univeristi Malaysia Terengganu

PERLINDUNGAN TANAMAN, I 2015/2016, 3, 16, 3, Univeristi Malaysia Terengganu

KAEDAH PENYELIDIKAN PERTANIAN, II 2014/2015, 4, 73, 3, Universiti Malaysia Terengganu

PERLINDUNGAN TANAMAN, I 2014/2015, 3, 11, 3, Universiti Malaysia Terengganu

OLERIKULTUR, I 2014/2015, 3, 70, 3, Universti Malaysia Terengganu

OLERIKULTUR, II 2013/2014, 3, 60, 3, Universiti Malaysia Terengganu

PERLINDUNGAN TANAMAN, II 2013/2014, 3, 3, 3, Universiti Malaysia Terengganu

ISU-ISU SEMASA TEKNOLOGI LEPASTUAI, II 2013/2014, 1, 72, 3, Universiti Malaysia

Terengganu

POMOLOGI, I 2013/2014, 3, 72, 3, Universiti Malaysia Terengganu

PROJEK ILMIAH TAHUN AKHIR I, I 2013/2014, 1, 72, 3, Universiti Malaysia Terengganu

PERLINDUNGAN TANAMAN, I 2013/2014, 3, 72, 3, Universiti Malaysia Terengganu

PROJEK ILMIAH TAHUN AKHIR I, I 2012/2013, 1, 49, 3, Universiti Malaysia Terengganu

POMOLOGI, I 2012/2013, 3, 60, 3, Universiti Malaysia Terengganu

PERLINDUNGAN TANAMAN, I 2012/2013, 3, 56, 3, Universiti Malaysia Terengganu

PROJEK ILMIAH TAHUN AKHIR II, II 2011/2012, 5, 49, 3, Universiti Malaysia Terengganu

OLERIKULTUR, II 2011/2012, 3, 60, 3, Universiti Malaysia Terengganu

ISU-ISU SEMASA TEKNOLOGI LEPASTUAI, II 2011/2012, 1, 51, 3, Universiti Malaysia Terengganu

PROJEK ILMIAH TAHUN AKHIR I, I 2011/2012, 1, 51, 3, Universiti Malaysia Terengganu

POMOLOGI, I 2011/2012, 3, 57, 3, Universiti Malaysia Terengganu

PERLINDUNGAN TANAMAN, I 2011/2012, 3, 51, 3, Unversiti Malaysia Terengganu

AGROEKOSISTEM, Dec 09/10, 3, 74, 3, Universiti Malaysia Terengganu

PROJEK PENYELIDIKAN II, Dec 09/10, 5, 44, 3, Universiti Malaysia Terengganu

BOTANI DAN FISILOGI TANAMAN, Dec 09/10, 4, 51, 3, Universiti Malaysia Terengganu

AGROECOSYSTEM, Dec 07/08, 3, 130, 3, Universiti Malaysia Terengganu

MANAGEMENT OF WATER QUALITY FOR AQUACULTURE, Dec 07/08, 3, 50, 3, Universiti Malaysia Terengganu

CULTIVATION OF ORNAMENTAL FISH, Dec 07/08, 3, 20, 3, Universiti Malaysia Terengganu

FINAL YEAR RESEARCH PROJECT, Dec 07/08, 6, 47, 3, Universiti Malaysia Terengganu

BOTANI DAN FISILOGI TANAMAN, Dec 07/08, 4, 45, 3, Universiti Malaysia Terengganu

INDUSTRIAL TRAINING, July 06, 4, 47, 3, Universiti Malaysia Terengganu

CROP PROTECTION, July 06, 3, 25, 3, Universiti Malaysia Terengganu

POMOLOGY, July 06, 3, 33, 3, Universiti Malaysia Terengganu  
BIOSTATISTICS, Dec 05/06, 3, 200, 3, Universiti Malaysia Terengganu  
PERLINDUNGAN TANAMAN, July 09, 3, 34, 3, Universiti Malaysia Terengganu  
AGROEKOSISTEM, Dec 08/09, 3, 133, 3, Universiti Malaysia Terengganu  
PROJEK ILMIAH TAHUN AKHIR I, July 09, 1, 43, 3, Universiti Malaysia Terengganu  
PROJEK ILMIAH TAHUN AKHIR II, Dec 08/09, 5, 41, 3, Universiti Malaysia Terengganu  
BOTANI DAN FISILOGI TANAMAN, Dec 08/09, 4, 58, 3, Universiti Malaysia Terengganu

### **EXPERT CONSULTATION**

(Consultation),(Role),(Client),(Level), (From - Until), (Cost).

Herbicide resistant management in goosegrass, Advisor, Monsanto (Asia Pacific Region), November 2015 - November 2015

Potential of rice hull and rice straw in combination with herbicide at reduced rate for weed control, Advisor, Sekolah Berasrama Penuh Integrasi Batu Rakit, March 2015 - April 2015

Potential of vinegar as natural herbicide, Advisor, Sekolah Berasrama Penuh Intergrasi Batu Rakit, April 2010 - April 2010

### **COMMERCIALIZATION**

(Comm. Type),(Industry Type),(Product),(Company Name),(Comm. Value).

### **EXPO/EXHIBITION**

(Expo),(Venue),(Organizer),(Level),(Date),(Cost).

### **EXTERNAL/INTERNAL/INDEPENDENT EXAMINER**

(Candidate/Body),(Degree Level),(Role),(From)-(Until).

Yahaya Haruna Rawayau, PhD, Universti Malaysia Terengganu, Internal, 01/02/2016

Nokaspi, PhD, Universti Malaysia Terengganu, Internal, 01/04/2016

Abdulrahman Bashira Olajumoke, Master, Universiti Putra Malaysia, External, 01/06/2016

Nur Amirah Bt Yussoff, Master, University Malaysia Terengganu, Internal, 01/12/2015

Norhanizan Sahidin, PhD, University Malaysia Terengganu, Internal, 01/08/2015

Chia Shin Zhi, Master, Universiti Putra Malaysia, External, 01/07/2009

## **EXTERNAL REVIEWER/EDITORIAL**

(Activity),(Role),(From)-(Until)

Journal of Integrative Agriculture, Reviewer, 01/07/2016 - 01/08/2016

Journal of Integrative Agriculture, Reviewer, 01/07/2016 - 01/07/2016

Journal of Integrative Agriculture, Reviewer, 01/05/2016 - 01/05/2016

Sains Malaysiana, Reviewer, 01/04/2016 - 01/05/2016

Journal of Tropical Agricultural Science, Reviewer, 01/04/2016 - 01/04/2016

Journal of Environmental Science, Reviewer, 01/01/2016 - 01/02/2016

Pharmacognosy Magazine, Reviewer, 01/01/2016 - 01/02/2016

Frontiers in Plant Science, Reviewer, 01/12/2015 - 01/01/2016

Sains Malaysiana, Reviewer, 01/12/2015 - 01/01/2016

Journal of Integrative Agriculture, Reviewer, 01/12/2015 - 01/01/2016

Journal of Integrative Agriculture, Reviewer, 01/12/2015 - 01/12/2015

PLOS ONE, Reviewer, 01/11/2015 - 01/11/2015

Journal of Integrative Agriculture, Reviewer, 01/09/2015 - 01/10/2015

Journal of Tropical Agricultural Science, Reviewer, 01/09/2015 - 01/10/2015

Journal of Integrative Agriculture, Reviewer, 01/09/2015 - 01/09/2015

Sains Malaysiana, Reviewer, 01/08/2015 - 01/08/2015

Sains Malaysiana, Reviewer, 01/08/2015 - 01/08/2015

African Journal of Agricultural Research, Reviewer, 01/07/2015 - 01/08/2015

Journal of Essential Oil Bearing Plants, Reviewer, 01/07/2015 - 01/08/2015

PLOS ONE, Reviewer, 01/07/2015 - 01/08/2015

African Journal of Agricultural Research, Reviewer, 01/07/2015 - 01/07/2015

African Journal of Agricultural Research, Reviewer, 01/07/2015 - 01/07/2015

Water, Air and Soil Pollution, Reviewer, 01/06/2015 - 01/08/2015

African Journal of Biotechnology, Reviewer, 01/05/2015 - 01/05/2015

Journal of Oil Palm Research, Reviewer, 01/05/2015 - 01/05/2015

Pest Management Science, Reviewer, 01/04/2015 - 01/04/2015

European Journal of Medicinal Plants, Reviewer, 01/04/2015 - 01/04/2015

Journal of Tropical Agricultural Science, Reviewer, 01/03/2015 - 01/03/2015

Malaysian Applied Biology, Reviewer, 01/01/2015 - 01/01/2015

Journal of Integrative Agriculture, Reviewer, 01/01/2015 - 01/01/2015

Journal of Tropical Agricultural Science, Reviewer, 01/11/2014 - 01/11/2014

Tropical Life Sciences Research, Reviewer, 01/10/2014 - 01/11/2014

African Journal of Agricultural Research, Reviewer, 01/08/2014 - 01/09/2014

Journal of Environment & Agricultural Studies, Editor, 01/01/2014 - 01/12/2014

Journal of Tropical Agricultural Science, Reviewer, 01/04/2014 - 01/05/2014

CLEAN - Soil, Air, Water, Reviewer, 01/01/2014 - 01/02/2014

Australian Journal of Botany, Reviewer, 01/09/2013 - 01/10/2013

Weed Biology and Management, Reviewer, 01/07/2013 - 01/08/2013

Tropical Life Sciences Research, Reviewer, 01/07/2013 - 01/07/2013

Journal of Tropical Agricultural Science, Reviewer, 01/05/2013 - 01/06/2013

Journal of Tropical Agricultural Science, Reviewer, 01/08/2013 - 01/09/2013

Biotechnology Research Bulletin, Editor, 01/12/2012 - 01/11/2013

Plant, Editor, 01/12/2012 - 01/11/2014

Agricultural Research in the Tropics, Reviewer, 01/12/2012 - 01/01/2013

Scholarly Journal of Agricultural Science, Editor, 01/06/2012 - 01/06/2013

Journal of Agricultural Sciences and Technology, Editor, 01/01/2012 - 01/01/2013

The International Journal of Agriculture and Forestry, Reviewer, 01/09/2012 - 01/10/2012

Weed Biology and Management, Reviewer, 01/10/2011 - 01/11/2011

Fresenius Environmental Bulletin, Reviewer, 01/06/2011 - 01/07/2011

African Journal of Biotechnology, Reviewer, 01/03/2011 - 01/04/2011

Malaysian Applied Biology, Reviewer, 01/07/2010 - 01/08/2010

Weed Biology and Management, Reviewer, 01/03/2010 - 01/04/2010

Weed Biology and Management, Reviewer, 01/11/2009 - 01/12/2009

Weed Biology and Management, Reviewer, 01/01/2009 - 01/02/2009

Weed Biology and Management, Reviewer, 01/09/2008 - 01/10/2008

Ecotoxicology, Reviewer, 01/08/2008 - 01/09/2008

Weed Biology and Management, Reviewer, 01/03/2007 - 01/04/2007

### **ATTENDED COURSE/SEMINARS**

(Name of Seminar/Course),(Role),(From)-(Until),(Place),(Title of Paper Presented - if applicable).

Third International Conference of Asian Allelopathy Society, Oral presenter, 30/10/2015 - 02/11/2015, Westlake Hotel, Fuzhou, China, 2,4-Diterbutylphenol: a potential natural soil applied herbicide.

25th Asian Pacific Weed Science Society Conference, Oral presenter, 13/10/2015 - 16/10/2015, Jayshankar Telangana State Agricultural University, Hyderabad, India, Effects of soil types on efficacy of S-metolachlor-treated oil palm frond mulch on inhibition of herbicide-resistant biotypes of goosegrass.

25th Asian Pacific Weed Science Society Conference., Co-author, 01/01/2015 - 03/12/2015, Jayshankar Telangana State Agricultural University, Hyderabad, India, Residue of oil palm frond mulch as slow release carriers for herbicide.

Seminar Inovasi Sempena Festival Agro Makanan dan Bioteknologi 2015., Oral presenter, 27/09/2015 - 30/09/2015, Politeknik Jeli, Kelantan., Pengaplikasian sungkupan sisa pelepah kelapa sawit yang dirawat dengan imazetapir untuk pengawalan rumpai Sambau (*Eleusine indica*)

Seminar Inovasi Sempena Festival Agro Makanan dan Bioteknologi 2015, Co-author, 27/09/2015 - 29/09/2015, Politeknik Jeli, Kelantan, Kesan 2,4-diterbutilfenol terhadap kebocoran elektrolit pada tumbuhan rumpai.

25th Malaysian Society of Plant Physiology Conference, Oral presenter, 18/08/2015 - 20/08/2015, Sunway Lost World Hotel, Ipoh, Perak., Effects of 2,4-diterbutylphenol on chlorophyll fluorescence and electrolyte leakage of weedy plants.

Monash Science Symposium 2014, Oral presenter, 18/06/2014 - 19/06/2014, Sunway Monash University, Isolation, identification and characterization of phytotoxic compounds isolated from Napier grass

8th International Conference of Crop Protection in the Tropic, Poster presenter, 08/04/2014 - 10/04/2014, Hotel Berjaya Times Square, Kuala Lumpur, Herbicidal potential of Napier grass extracts

Bengkel Penyediaan Polisi Pengoperasian Makmal Penyelidikan Di Makmal Berpusat, UMT, Peserta, 13/03/2014 - 13/03/2014, Rumah Universiti, UMT

Seminar Harta Intelek, Peserta, 23/02/2014 - 23/03/2014, Bilik Seminar Eksekutif, Jabatan Pengurusan Akademik, UMT

22nd Malaysian Microscope Society Conference, Poster presenter, 26/11/2013 - 28/11/2013, Primula Beach Resort, Kuala Terengganu, Phytotoxic activity of allelochemical, 2,4-di-tert-butylphenol on two selected weed species

Seminar Kertas Cadangan Lanjutan Hasil Penemuan Penyelidikan Terbaik Skim Geran Penyelidikan Fundamental (FRGS) Tahun 2010, Project leader, 28/11/2013 - 28/11/2013, Jabatan Pengajian Tinggi, Putrajaya, Characterization of herbicidal activities of plant allelochemical, 2, 4-di-tert-butylphenol, isolated from *Pennisetum purpureum* for natural and eco-friendly herbicide development

Seminar Hasil Penemuan Penyelidikan Terbaik Skim Geran Penyelidikan Fundamental (FRGS) Tahun 2010, Project leader, 12/11/2013 - 12/11/2013, PICC, Putrajaya, Exploitation of phytotoxic compounds of elephant grass (*Pennisetum purpureum* Schumac.) as natural herbicide for weed management.

5th MPOB-IOPRI International Seminar, Oral presenter, 22/11/2013 - 23/11/2013, KLCC, Kuala Lumpur, Herbicide resistance and chemical control

The 24th Asian-Pacific Weed Science Society Conference, Oral presenter, 22/10/2013 - 25/10/2013, Bandung, Indonesia, Effects of oil palm rachis residues in combination with pretilachlor on goosegrass.

Global Herbicide Resistance Challenges, Oral presenter, 18/02/2013 - 21/02/2013, Perth, Australia, Status of herbicide resistance of goosegrass from vegetable farms from Cameron Highlands, Pahang, Malaysia

5th International Congress of Environmental Research 2012., Co-author, 22/11/2012 - 24/11/2012, Universiti Malaysia Terengganu, Kuala Terengganu, Malaysia, Acute toxicity of ametryn on freshwater eel (*Monopterus albus*).

Annual Seminar of Rice and Industrial Crop Research Center, Co-author, 18/10/2012 - 19/10/2012, Bay View, Langkawi, Malaysia, Allelopathy activity of sunflower leaf extracts and effects of selected pre-emergence herbicides on barnyardgrass

2nd International Conference on Environment and Agriculture Engineering (IPCBE), Co-author, 29/06/2012 - 30/06/2012, Jeju Island, South Korea, Allelopathic potential of *Pennisetum purpureum* on *Cyperus iria*

11th International Annual Symposium (UMTAS), Co-author, 09/07/2012 - 11/07/2012, Ri-yaz Heritage Marina Resort & Spa, Kuala Terengganu, Terengganu, Malaysia, Potential of allelopathic effects of *Pennisetum purpureum* on *Paspalum conjugatum*.

12th Symposium of the Malaysian Society of Applied Biology, Co-author, 01/06/2012 - 03/06/2012, Ri-yaz Heritage Marina Resort & Spa, Kuala Terengganu, Terengganu, Malaysia, Herbicidal activity of Napier grass (*Pennisetum purpureum*) aqueous root extracts

MAPPAS National Seminar 2011, Co-author, 08/12/2011 - 08/12/2011, Palm Garden Hotel, IOI Resort, Putrajaya, Selangor, Phytotoxicity of sunflower leaf extracts in combination with pretilachlor on barnyardgrass

9th Annual Ecological Genomics Symposium, Co-author, 04/11/2011 - 06/11/2011,

Kansas City, Missouri, USA,, Population genetics study of weedy rice in Malaysia.

10th UMT International Annual Symposium (UMTAS), Co-author, 11/07/2011 - 13/07/2011, Hotel Permai Inn, Kuala Terengganu, Terengganu, Phytotoxic Activity of Pretilachlor in Combination with Sunflower Leaf Extracts on Barnyardgrass (*Echinochloa crus-galli*).

10th UMT International Annual Symposium (UMTAS), Co-author, 11/07/2011 - 13/07/2011, Hotel Permai Inn, Kuala Terengganu, Terengganu, Potential uses of Golden Beard Grass (*Chrysopogon serrulatus* Trin.) phytotoxic compounds as a natural herbicide for sustainable weed management.

The 6th World Congress on Allelopathy, Presenter, 15/12/2011 - 19/12/2011, Hotel Canton, Guangzhou, China, Herbicidal activity of golden beard grass

Talimat Intergriti Dalam Pengurusan Kewangan, Peserta, 28/12/2010 - 28/12/2010, Auditorium Perpustakaan Sultanah Nur Zahirah, UMT, Kuala Terengganu

Kursus PKB (Tk6) Komponen Generik Bagi Pensyarah : Kepimpinan Akademik dan Pengurusan Konflik, Peserta, 21/12/2010 - 21/12/2010, Hotel Grand Continental, Kuala Terengganu

National Rice Conference 2010, Participant, 27/06/2010 - 30/06/2010, Swiss-Garden Golf Resort & Spa Damai Laut, Lumut, Perak

Bengkel Pembinaan Soalan Peperiksaan Bagi Jabatan Agroteknologi, Peserta, 15/06/2010 - 15/06/2010, Bilik mesyuarat FASM, UMT

10th UMT International Annual Symposium (UMTAS), Co-author, 09/05/2010 - 11/05/2010, Permai Inn, Kuala Terengganu, Malaysia, Strong synergism of thiobencarb activity when combined with bentazon

Talimat R & D Funding Structure For Rmk ? 10, Peserta, 05/05/2010 - 05/05/2010, UMT

Syarah Inaugural Prof. Dr. Abdul Rahman Razak, Peserta, 29/04/2010 - 29/04/2010, Auditorium Perpustakaan Sultanah Nur Zahirah, UMT, Kuala Terengganu

Statistical Application Training Program, Participant, 25/04/2010 - 26/04/2010, Universiti Sains Malaysia

Pembentangan Saranan Dan Kemajuan Pelajar Siswazah Fakulti Agroteknologi Dan Sains Makanan, Penyelia pelajar, 04/04/2010 - 04/04/2010, UMT

Pembentangan Saranan Dan Kemajuan Pelajar Siswazah Fakulti Agroteknologi Dan Sains Makanan, Penyelia pelajar, 31/03/2010 - 31/03/2010, UMT

Taklimat Pengurusan Kewangan Geran Penyelidikan FRGS Fasa 1/2010, Peyelidik utama, 31/03/2010 - 31/03/2010, UMT

First International Conference of Asian Allelopathy Society, Presenter, 18/12/2009 - 22/12/2009, Furong Resort, Guangzhou, China, Allelopathic potential of several edible crops on germination and growth of goosegrass (*Eleusine indica*).



Kursus Penilaian Tahap Kecekapan (PTK 5) Pensyarah Universiti DS52, Peserta, 11/06/2009 - 19/06/2009, Awana Kijal Beach Resort, Kemaman, Terengganu, Malaysia

8th International Annual Symposium on Sustainability Science and Management., Co-author, 03/05/2009 - 04/05/2009, Primula Beach Resort, Kuala Terengganu, Terengganu, Malaysia, Allelopathic effects of golden beard grass (*Chrysopogon serrulatus* Trin.) on germination and growth of several weed species.

### **PROFFESIONAL DEVELOPMENT**

(Name of Training),(From)-(Until),(Place),(Sponsor).

### **INTERNSHIP SUPERVISION**

(Student Name),(Organisation),(From)-(Until)

Abdul Hanif B. Abdul Karim, Jabatan Pertanian Daerah Batang Padang, Perak, 04/08/2015 - 29/09/2015

Gevitiah A/P aplanaidu, Jabatan Pertanian Daerah Kinta, Perak, 04/08/2015 - 29/09/2015

Ng Seen Yang, Sri Ganda Oil Mill Sdn Bhd, Perak, 04/08/2015 - 29/09/2015

Tatiana Thomas, University of Southern Brittany, France, 01/04/2015 - 27/06/2015

Francios vauchelles, University of Southern Brittany, France, 01/04/2015 - 27/06/2015

Seah Kho Li, Zenxin Organic Park, Kluang, Johor, 04/08/2014 - 29/08/2014

Heng Hui Shan, Zenxin Organic Park, Kluang, Johor, 04/08/2014 - 29/09/2014

Tan Lye Foong, Zenxin Organic Park, Kluang, Johor, 04/08/2014 - 26/08/2014

Muhamad Hanif Abd Halim, Mardi Kluang, Johor, 04/08/2014 - 26/08/2014

Syamin Binti Idris, Mardi Kluang, Johor, 04/08/2014 - 26/08/2014

Noor Nazira, Binti Kadir, Mardi Kluang, Johor, 04/08/2014 - 26/09/2014

Siti Nurul Izzati Binti Azmi, Mardi Telong, Kelantan, 01/06/2012 - 27/08/2012

Siti Sarmila Binti Ibrahim, Mardi Telong, Kelantan, 01/06/2012 - 27/08/2012

W Noor Aida Binti W Muhamad, Mardi Telong, Kelantan, 01/06/2012 - 27/08/2012

Normi Binti Hashim, Jabatan Pertanian Bachok, Kelantan, 01/06/2012 - 27/08/2012

### **STUDENT ADVISORY**

(Matric),(Student),(From)-(Until).

UK15019, Fadhli Bin Fadzlullah, 01/07/2007 - 01/05/2010

UK15115, Nurul Syazila Bt Abd. Rani, 01/07/2007 - 01/05/2010

UK15195, Siti Noradilah Bt Omar, 01/07/2007 - 01/05/2010

UK15331, Lee Wei Shin, 01/07/2007 - 01/05/2010

UK15413, Marahaini Binti M Markam, 01/07/2007 - 01/05/2010

UK15424, Nor Syaziela Bt Mohd Najid, 01/07/2007 - 01/05/2010

UK15617, Fatin Fatma Binti Mat Daud, 01/07/2007 - 01/05/2010

UK15664, Ahmad Syafiq Bin Abu Hasan, 01/07/2007 - 01/05/2010

UK15828, Noraini Binti Mohamad Daud, 01/01/2007 - 01/05/2010

UK15831, Wan Norzaini Bt Wan Isa, 01/07/2007 - 01/05/2010

UK15958, Mohd Shafid Izuwan Bin Kamarudin, 01/07/2007 - 01/05/2010

UK16008, Ili Mahirah Binti Mohd Jamal, 01/07/2007 - 01/05/2010

UK16280, Norhafizah Binti Mohamad Nasir, 01/07/2007 - 01/05/2010

UK16585, Nazirah Binti Shahrin, 01/07/2008 - 01/05/2011

UK16940, Mohamad Hafiz Bin Abdul Razak, 01/07/2008 - 01/05/2011

UK17490, Mohd Abdillah Bin Alias, 01/07/2008 - 01/05/2011

UK17592, Ahmad Rhani Bin Sanin, 01/07/2008 - 01/05/2011

UK18036, Noor Qistina Binti Zainal Abidin, 01/07/2008 - 01/05/2011

UK18196, Dian Rumaisa, 01/07/2008 - 01/05/2011

UK18334, Noradilla Bt Mohamed, 01/07/2008 - 01/05/2011

UK20127, Nur Hamizah Binti Mohamed Khamis, 01/07/2009 - 01/05/2012

UK20281, Nurul Farhana Bt Mat Hayin, 01/07/2009 - 01/05/2012

UK20294, Alia Naim Binti Abd Rani, 01/07/2009 - 01/05/2012

UK20809, Nor Izatty Binti Masron, 01/07/2009 - 01/05/2012

UK21098, Nurul Najihah Binti Busra, 01/07/2009 - 01/05/2012

UK21284, Nur Len Binti Ramlee, 01/07/2009 - 01/05/2012

UK21746, Hazlinda Binti Mohd Rokeman, 01/07/2009 - 01/05/2012

UK22144, Nur Farhanah Durrar Binti Zainal, 01/07/2010 - 01/05/2013

UK22913, Siti Zulaikha Binti Dol Baharin, 01/07/2010 - 01/05/2013

UK23107, Siti Nurul Izzati Binti Azmi, 01/07/2010 - 01/05/2013

UK23636, Nur Sayidatun Nafisah Bt Zulkafli, 01/07/2010 - 01/05/2013

UK24238, Nur Salwani Binti Azami, 01/07/2010 - 01/05/2013

UK24868, Farah Najwa Binti Zainal Abidin, 01/09/2011 - 27/07/2014

UK25278, Nurafiqah Aqilah Bt Hasnul Kushairi, 01/09/2011 - 01/07/2014

UK25429, Noor Syahida Binti Abu Bakar, 01/09/2011 - 01/07/2014

UK25856, Muhamad Hanif Bin Abd Halim, 01/09/2011 - 01/07/2014

UK26230, Nur Saidatul Nadiah Binti Harun, 01/09/2011 - 01/07/2014

UK26712, Mohamad Termizi Bin Mohamad Ali, 01/09/2011 - 01/07/2014

UK27342, Nik Ahmad Ikhtiaruddin Bin Pauzi, 01/09/2011 - 01/07/2014

UK27636, Siti Nabilah Binti Ismail, 01/09/2012 - 01/07/2015

UK28323, Nurul Afiqah Binti Zaini, 01/09/2012 - 01/07/2015

UK28333, Nurul Fatin Nadia Binti Mohd Yusof, 01/09/2012 - 01/07/2015

UK28343, Ng Jia Xin, 01/09/2012 - 01/07/2015

UK28353, Mohd Azrif Bin Abdullah, 01/09/2013 - 01/07/2015

UK28353, Farisah Nadia Binti Aziz, 01/09/2012 - 01/07/2015

UK28373, Asmiza Binti Abdullah, 01/09/2012 - 01/07/2015

### **OTHER CONTRIBUTIONS**

(Activity),(Role),(From)-(Until),(Level).

Menasihati petani dalam proses pendaftaran racun persok, Khidmat nasihat, 01 September 2012 - 01 October 2012, National

Program penajaan kanak-kanak miskin 'World Vision', Keluarga angkat, 01 June 2009 - 01 June 2013, National

Distribution of latest news and activities of Asian Allelopathy Society, Councilor of Malaysia, 22 December 2009 - Present, National

Memberi bimbingan kepada pelajar sekolah menengah SBP integrasi Batu Rakit dalam Pertandingan Rekacipta Kejuruteraan dan Inovasi Sains, Penasihat, 01 February 2010 - 15 April 2010, National

Membantu dan mengesyorkan jenis dan kadar racun herba yang sesuai kepada para petani kebun sayur-sayuran di Cameron Highland (Pahang) dan Air kuning (Perak) untuk mengawal rumpai yang rintang., Khidmat nasihat, 01 July 2009 - 31 December

2009, National