

CURRICULUM VITAE

Name : SAYED MOHAMED ZAIN BIN S. HASAN
Department :
Post : PROFFESOR
Gender : MALE
Race : MALAY
Nationality : MALAYSIA
Address : Lot 19132
Kg. Gong Pak Jin
21030 Mengabang Telipot, Kuala Terengganu.
Tel. No. : 09-6693414
Handphone No. : 0199139313
Email : sayed@umt.edu.my

ACADEMIC QUALIFICATION

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

The University of Birmingham, UK., PhD, Plant Science (Genetic Resources), 1989

Brunel University London, UK., MSc, Weed Science, 1980

Universiti Kebangsaan Malaysia, BSc (Hons), Biology, 1978

PROFESSIONAL QUALIFICATIONS

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

PREVIOUS APPOINTMENT

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

Lecturer, Universiti Putra Malaysia (UPM)/ Kolej Universiti Sains dan Teknologi Malaysia (KUSTEM)/ Universiti Malaysia Terengganu (UMT), April 1980-July 1998

Associate Profesor, UPM/ KUSTEM/UMT, August 1998-July 2010

Profesor, Universiti Malaysia Terengganu, August 2010-Present

Dekan, Fakulti Agroteknologi & Sains Makanan, UMT, November 2002-November 2013

Dekan, Pusat Pengajian Sains dan Teknologi Makanan, UMT., November 2013-July 2015

Ahli, Jawatankuasa Keutuhan Pengurusan dan Pelan Integriti Nasional UMT (Wakil Senat)., November 2015-Present

Ahli, Senat, UMT, April 2001-Present

Ahli, Jawatankuasa Salah Laku Akademik, UMT., October 2013-July 2015

Ahli, Jawatankuasa Pemandu Program Pembangunan Agro UMT., September 2013-Present

Ahli, Jawatankuasa Penerbit, UMT., February 2013-July 2015

Ahli, Jawatankuasa Pengajian Siswazah UMT., January 2013-July 2015

Penilai, Pembentangan Pelajar Siswazah Seminar Day PPSTM 2015, UMT, August 2015-August 2015

Pengerusi, Jawatankuasa Makanan, MJM 2013, UMT, May 2013-July 2013

Ahli, Jawatankuasa Kluster Pertanian dan Makanan, Majlis Profesor Negara bagi sesi 2013-2014., April 2013-Present

Member, Editorial Board(EBM), International Journal of Agricultural System (IJAS), Hasanudin University (UNHAS), Makassar, South Sulawesi, Indonesia., April 2013-Present

Ahli, Jawatankuasa Kajian Hala Tuju Peranan KPM dan IPT dalam Membangun Sektor Pertanian Negara, Kementerian Pendidikan Malaysia, January 2013-January 2014

Pengerusi, Jawatankuasa Induk, 22nd Scientific Conference of Microscopic Society of Malaysia (MSM 2013, Microscopic Society of Malaysia, January 2013-November 2013

Ahli, Jawatankuasa Saintifik dan Teknikal Forum IPIMA 2013, Ikatan Profesor Indonesia Malaysia (IPIMA), March 2013-December 2013

Ahli, Jawatankuasa National Symposium on Urban Agriculture, Universiti Putra Malaysia, April 2013-October 2013

Pengerusi, Jawatankuasa Perancangan Pembangunan Kampus UMT Bukit Kor, Marang, Terengganu., December 2012-December 2013

Ketua, Department of Biological Science, KUSTEM, May 2001-November 2002

Coordinator, UPM Academic Program at KUSTEM, Terengganu., January 2000-March 2000

Kem Komandan, Program Survival Laut dan Penghayatan Warisan 2010, UMT, July 2010-August 2010

Ahli, Jawatankuasa Bertindak Kajian Halatuju Bidang Pertanian, Kementerian Pengajian Tinggi Malaysia., October 2009-October 2011

Ahli, Panel Pensijilan Halal Negeri Terengganu, Majlis Agama Islam Negeri Terengganu., June 2005-January 2010

Member, Board of Advisor for the proposed Kulliyah of Agricultural Science and Natural Resources International Islamic University Malaysia (UIAM)., July 2009-January 2010

Mentor, Penyelidikan Staf Akademik Menerima 'Seed Money', UMT, October 2009-October 2010

Ahli, Jawatankuasa Intergriti (Wakil Senat), UMT, January 2006-December 2009

Ahli, Panel Penilaian Calon PTK Kumpulan Sokongan, UMT, May 2009-July 2015

Ahli, Jawatankuasa Perolehan B, UMT, January 2009-January 2012

Pengerusi, Jawatankuasa Pengurusan Pulau Bidong, UMT, January 2004-January 2009

Pengerusi, Jawatankuasa Sukarelawan bagi Sukan Antara Universiti-Universiti Malaysia, Kementerian Pengajian Tinggi Malaysia, January 2008-June 2009

Ahli, Jawatankuasa Induk Sukan Universiti-Universiti Asean, Kementerian Pengajian Tinggi Malaysia, January 2008-December 2008

Pengerusi, Jawatankuasa Sukarelawan Sukan Badan Berkanun Malaysia 2011, Universiti Malaysia Terengganu, August 2010-January 2011

Pegawai Mengelaskan Dokumen 'Rahsia Besar', 'Rahsia', 'Sulit' atau 'Terhad', Kementerian Pengajian Tinggi Malaysia, August 2010-July 2015

Ahli, Panel Penilai Pengiktirafan Kelayakan Sarjana Muda Sains Gunaan (Teknologi Bioindustri) dgn Kepujian dari UMK, Jabatan Perkhidmatan Awam Malaysia,, July 2011-August 2011

Ahli, Majlis Dekan-Dekan Sains dan Teknologi Makanan IPTA, Jabatan Pengajian Tinggi Malaysia, July 2011-July 2015

Penasihat, Student in Free Enterprise (SIFE), HEPA, UMT, February 2011-July 2015

Pengerusi, Jawatankuasa Jamuan Majlis Pemasyhuran Kompleks Sukan Tengku Muhammad Ismail, Pendaftar UMT, April 2011-April 2011

Kem Komandan, Program Survival Laut dan Penghayatan Warisan UMT tahun 2011, HEPA UMT, September 2011-September 2011

Penasihat, 1st International Fisheries Symposium (IFS 2011), UNAIR-UMT-KU-CT-NL, March 2011-October 2011

Ahli, Jawatankuasa Jamuan Majlis Pemasyhuran Kompleks Sukan Tengku Mahmud Ismail.Pendaftar UMT., April 2011-April 2011

Ahli, JK Pembangunan Sumber Manusia UMT., Pendaftar UMT., January 2009-July 2015

Pengerusi, Jawatankuasa Induk UMT 11th International Annual Symposium (UMTAS) 2012, UMT, January 2011-September 2012

Pengerusi, JK Pelaksana Bengkel Antarabangsa Lebah Madu, Yayasan Sultan Mizan+Kerajaan N. Terengganu+Asian Apiculture Association, September 2013-October 2013

Pengerusi., Jawatankuasa Pengendalian Pameran UMT di MAHA, Serdang, September 2012-December 2012

Pengerusi, JK Bengkel Pengendalian dan Pengurusan Racun Makhluk Perosak,

FASM/UMT, October 2012-December 2012

Ahli, Jawatankuasa Pelaksana 'Bidong Underwater and Land Challenge'UMT/Coral Malaysia, April 2012-April 2012

Komandan Kem, Program Survival laut Dan Penghayatan warisan UMT 2012.UMT, September 2012-September 2012

ADMINISTRATIVE DUTIES

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

Member, UMT Senate., April 2001, Present, U, UMT

Ahli Jawatankuasa Tenaga Kerja Perladangan dan Kelestarian Industri Perladangan, Kluster Pertanian dan Makanan, Majlis Profesor Negara., October 2014, Present, N, Majlis Profesor Negara

Pengerusi JK Projek Kawalan Bersepadu Makhluk Perosak Dalam Tanaman Kontan (Cash Crop) Bagi Komuniti di Bukit Kor., October 2015, Present, U, PPSTM

Ahli Jawatankuasa Pengurusan Pembangunan Universiti Malaysia Terengganu., July 2014, Present, U, UMT

Penyelaras Pertanian Komuniti Tani Kampus UMT Bukit Kor, Marang, July 2015, Present, U, UMT

Mentor for Research Grant for Academic Staff with PhD., October 2009, Present, U, UMT

AJK Program Amalan Baik (GAP) bersama Komuniti Petani di Bukit Kor, Marang, Terengganu., November 2015, November 2015, F, PPSTM

Dekan, Pusat Pengajian Sains dan Teknologi Makanan., November 2013, July 2015, U, UMT

Panel Juri Pertandingan Penyelidikan Inovasi@UMT 2014., June 2014, June 2014, U, UMT

Dean of the Faculty of Agrotechnology & Food Sc; Administration and management of human resources, purchasing, asset, infrastructure and development of the faculty., November 2002, November 2013, U, UMT

Member, UMT Curriculum Committee., April 2001, July 2015, U, UMT

Chairman the Faculty Academic Committee Meeting, November 2002, July 2015, F, UMT

Chairman, Jawatankuasa Pengurusan FASM., November 2002, July 2015, F, UMT

Member, Jawatankuasa Pengajian Siswazah UMT, November 2002, July 2015, U, UMT

Member, Jawatankuasa Pengurusan Keuangan UMT, November 2002, July 2015,

U, UMT

Member, Jawatankuasa Pengurusan Aset dan Harta UMT., November 2002, July 2015, U, UMT

Member, Jawatankuasa Biasiswa dan Cuti Belajar UMT, November 2002, July 2015, U, UMT

Member, Jawatankuasa Pemilih UMT, November 2002, July 2015, U, UMT

Member, Jawatankuasa Penyelidikan UMT, November 2002, July 2015, U, UMT

Member, Jawatankuasa Pengurusan Akademik UMT, November 2002, July 2015, U, UMT

Chairman, Jawatankuasa Pengurusan Pulau Bidong, January 2004, January 2011, U, UMT

Chairman, Jawatankuasa Pengajian Siswazah FASM, November 2002, July 2015, F, UMT

Chairman, Jawatankuasa Kurikulum FASM, November 2002, July 2015, F, UMT

AJK Pemandu Program Pembangunan Agro UMT., September 2013, January 2015, U, UMT

Ahli JK Salah Laku Akademik, October 2013, July 2015, U, UMT

AJK Kajian Hala Tuju Peranan KPM dan IPT dalam Membangun Sektor Pertanian Negara, February 2013, January 2014, N, Kementerian Pendidikan Malaysia

Pengerusi AJK Makanan, MJM 2013, May 2013, July 2013, U, UMT

Chairman, Jawatankuasa Penerbitan dan Promosi FASM, November 2002, July 2015, F, UMT

Pengerusi Jawatankuasa Induk, 22nd Scientific Conference of Microscopic Society of Malaysia (MSM 2013)., January 2013, November 2013, N, Microscopic Society of Malaysia

AJK Kluster Pertanian dan Makanan 2013-2014., April 2013, March 2014, N, Majlis Profesor Negara

Chairman, Jawatankuasa Sukarelawan Sukan Inter-Varsity ke-34 2009., June 2008, June 2009, N, UMT/ KPT

Member, Panel Pengiktirafan Makanan Halal Terengganu, January 2004, January 2010, N, Jabatan Agama Negeri Terengganu

Pengurus Pilihan Raya MPP (FASM), October 2009, July 2015, U, UMT

Panel Penilai Persembahan Tugasan Individu PTK, June 2008, June 2008, U, UMT

Panel Penilaian Calon PTK Kumpulan Sokongan 1 - 16 UMT., May 2009, January 2010, U, UMT

Member, Jawatankuasa Perolehan B UMT., January 2009, January 2011, U, UMT

Member, The UMT integrity committee (Senate representative), January 2006, January 2012, U, UMT

Pengerusi Jawatankuasa Perancangan Pembangunan Taman Pertanian Kampus UMT Bukit Kor, December 2012, July 2015, U, UMT

AJK Saintifik dan Teknikal Forum Ikatan Profesor Indonesia Malaysia (IPIMA) 2013., March 2013, December 2013, I, Ikatan Profesor Indonesia Malaysia (IPIMA)

Member, Jawatankuasa Intergriti UMT, January 2006, January 2012, U, UMT

AJK National Symposium on Urban Agriculture., April 2013, October 2013, N, Universiti Putra Malaysia

Member, Jawatankuasa Bertindak Kajian Halatuju Bidang Pertanian (Agricultural Direction Study Action Committee). Ministry of Higher Education, Malaysia., October 2009, January 2011, N, Kementerian Pengajian Tinggi

Member, Advisory Board for the proposed Kulliyah of Agricultural Science and Natural Resources, International Islamic University of Malaysia., July 2009, December 2009, N, UIAM

Pegawai Awam untuk mengelaskan apa-apa maklumat atau bahan rasmi sebagai 'Rahsia Besar', 'Rahsia', 'Sulit' atau 'Terhad', August 2010, July 2015, N, Kementerian Pengajian Tinggi Malaysia

Ahli Majlis Mesyuarat Dekan-Dekan Fakulti Sains Makanan IPTA., January 2011, July 2015, N, KPT

Ahli Majlis Mesyuarat Dekan-Dekan Fakulti Pertanian IPTA., January 2010, July 2015, N, KPT

RESEARCH

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

Kawalan bersepadu makhluk perosak dalam tanaman kontan (cash crop) untuk Inovasi Sosial UMT 2015., October 2015 - In Progress, UMT, National

Gene functional analysis of NAC transcription factor family under salt stress condition in Malaysian rice cultivar., October 2015 - In Progress, KPT-UMT, National

The drying effectiveness and quality analysis of anchovy from Setiu using four different low-cost fish drying racks., March 2015 - In Progress, NIC NRGS-UMT, National

Penghasilan dan persediaan produk makanan berkualiti untuk Inovasi Sosial UMT 2015., April 2015 - In Progress, UMT, National

Characterization of biochemical and cytosolic function of glutathione s-transferases (GSTs) of saprotrophic microfungi collected from aquaculture ecosystem for waste water treatment., April 2013 - In Progress, FRGS, National

Effect of bio-active compound extracted from belalai gajah (*Clinacanthus nutans*) on cancer cell development., September 2014 - In Progress, National

Effect of organic waste on growth and production of button mushroom., April 2013 - In Progress, National

Morphological and agronomic evaluation of roselle (*Hibiscus sabdariffa*) varieties under the BRIS soil condition in Terengganu., January 2013 - January 2014, UMT, National

Breeding for abiotic rice variety., June 2011 - January 1995, KPT, National

Effect of photoperiod and exogenous hormone application on the endogenous hormone and carbohydrate content of strawberry (*Fragaria ananassa*), September 2008 - October 2012, UMT, National

Morphological characterization and agronomic evaluation of roselle (*Hibiscus sabdariffa* L.) in Terengganu, January 2010 - January 2012, UMT Roselle Interest Group., National

Genetic variability in *Artemisia capillaris*., January 2006 - July 2009, UMT, National

Study of Drought and Salinity Stress Tolerance in Pineapple, September 2005 - December 2008, UMT, National

Characterization and Evaluation of Duku (*Lansium domesticum*) variety in Malaysia., January 2003 - June 2008, UMT, National

Hormonal Regulation In Growth And Development And Development of *Salacca edulis* REINW, March 2004 - December 2005, UMT, National

Mutant Abiotic Stress Tolerance of Pineapples, July 2003 - June 2004, KUSTEM, National

Characterizing and classifying yam (*Dioscorea alata*) cultivars in Malaysia., January 2001 - January 2003, KUSTEM, National

Evaluation and utilization of *Solanum* spp. germplasm in Malaysia, January 1996 - January 1998, Ministry of Science and Technology, Malaysia, National

In vitro preservation of Yam (*Dioscorea* spp) germplasm, September 1993 - September 1994, Ministry of Agriculture, Forestry and Fisheries of Japan, International

Genetic of *Solanum melongena* (eggplant) complex in Malaysia., January 1990 - January 1995, Ministry of Science and Technology, Malaysia, National

The use of wild species for genetic improvement in Solaneceous crops, Eggplant (*Solanum melongena*), January 1989 - January 1990, UPM, National

Biosystematic study of *Solanum melongena* in Asia and Africa, January 1986 - January 1989, JPA scholarship for PhD study/ School of Biological Sc., The University of

Birmingham, UK., International

Study on the morphology, distribution and control of weeds in Malaysia., January 1981 - January 1989, UPM, National

Physiological and hormonal study in growth and development of strawberry (*Fragaria x ananassa*), August 2009 - October 2012, FASM, UMT and MARDI, National

Anatomical and physiological response of of pineapple against bacteria *Erwinia* spp. infection, October 2009 - October 2011, FASM, UMT., National

PROFESSIONAL AFFILIATIONS

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

Majlis Profesor Negara, AJK Kluster Pertanian dan Makanan, April 2013 - March 2014

International Society for Horticultural Science (ISHS) (No. 8234)., Member, January 1995 - Present

EXPERT TECHNICAL/CONTRIBUTION

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

Bengkel Pengharmonian Garis Panduan Ujian DUS Nasional bagi Tanaman Pitaya, Dabai, Nangka, dan Jati., Jab. Pertanian Malaysia, Advisor, March 2015 - March 2015, International

Inovasi@UMT 2015., UMT, May 2015 - May 2015, International

Penilaian Laporan Projek Ilmiah Tahun Akhir SmSn. Agrotek. (Tek. Lepastuai) 2015/16., PPSTM, December 2015 - December 2015, International

Kumpulan Penyelidikan Lebah Madu UMT., UMT, Coordinator, September 2011 - December 2012, International

Kumpulan Penyelidikan Biodisel UMT, UMT- Universitas Padjajaran, Indonesia., Coordinator, November 2011 - January 2013, International

Penyelidikan dan pembangunan tanaman dan produk roselle (*Hibiscus sabdarifa*) di Terengganu., Koperasi lembah Bidong, Terengganu., Coordinator, January 2010 - January 2012, International

Pameran produk-produk baru roselle, MAHA - Kementerian Pertanian dan Asas Tani Malaysia, Coordinator, November 2010 - December 2010, International

Pameran Pembangunan dan Penyelidikan Roselle, UMT, Coordinator, August 2010 - August 2010, International

Penilaian Kesesuaian Padi Pulut di Kawasan Ketara, Besut, Terengganu., Petani di kawasan KETARA, Coordinator, March 2008 - February 2009, International

Penilaian Padi mutant di Ajil, Terengganu., Petani Pengkalan Berangan, Coordinator, August 2009 - January 2012, International

Rice breeding for abiotic stress strain., UPM, Advisor, January 2012 - January 2015, International

Pembangunan dan Pengembangan Produk Rosel, A.I. AgroMarketing Sdn. Bhd, Advisor, January 2013 - Present, International

AWARD AND RECOGNITIONS

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

Sijil Penghargaan menjayakan penerbitan ilmiah (monograf) dengan Perbitan UMT Tahun 2013., UMT, 2013, University

Sijil Penghargaan penerima honorarium perbitan UMT Tahun 2013, UMT, 2013, University

Anugerah Malim Ilmu 2012 UMT (produk & Inovasi Penyelidikan), UMT, 2012, University

Sijil Penghargaan Perkhidmatan Cemerlang, UMT, 2012, University

Sijil Penghargaan UMT Hadian Setia Bakti., UMT, 2011, University

Sijil Perkhidmatan Cemerlang UMT 2010., UMT, 2011, University

UMT Research Day 2011. MR219-4 an efficient water-use mutant developed through mutation breeding., UMT, 2011, University

UMT Research Day 2011. Pasteurized roselle pickles., UMT, 2011, University

Anugerah Produk & Inovasi (Antarabangsa)., Majlis Malim Ilmu UMT., 2010, University

Anugerah Penerbitan (Artikel Jurnal Terindeks) UMT., Majlis Malim Ilmu UMT., 2010, University

Anugerah Penerbitan (Artikel Jurnal Tidak Terindeks)., Majlis Malim Ilmu UMT., 2010, University

Gold Medal: The 37th International Exhibition of Inventions New Techniques and Products., PALEXPO, Geneva, Switzerland., 2009, International

Anugerah Produk & Inovasi Penyelidikan (Peringkat Antarabangsa) 2008, Majlis Malim Ilmu 2009 UMT, 2009, University

Anugerah Produk & Inovasi Penyelidikan (Peringkat Kebangsaan) 2008, Majlis Malim Ilmu 2009 UMT, 2009, University

Anugerah Penerbitan Artikel Jurnal Berwasit (Terindeks & Berfaktor Impak) 2008, Majlis Malim Ilmu 2009 UMT, 2009, University

Anugerah Penerbitan Artikel Jurnal Berwasit (Tidak Terindeks) 2008, Majlis Malim Ilmu 2009 UMT, 2009, University

Silver Prize: Seoul International Invention Fair 2008, Korea Invention Promotion Association, 2008, International

Gold Medal: MTE 2008, Malaysian Association of Research Scientists, 2008, National

ITEX Silver Medal, Ministry of Science Technology & Innovation, Malaysia, 2008, International

Anugerah Malim Ilmu 2008 (3 anugerah), UMT, 2008, University

Anugerah Khas Naib Canselor Tahun 2008, UMT, 2008, University

Perkhidmatan Cemerlang Tahun 2007, UMT, 2008, University

Gold Medal for the invention of food products from greater yam (*Dioscorea alata*) flour., Ministry of Sciences, Technology & Innovation, 2007, International

Bronze Medal for the invention of Keli Omega Plus(ITEX 2007). 18-20 May 2007, K. Lumpur., Ministry of Science, Technology & Innovation, 2007, International

Gold Medal for product invention Miracle Do Happen, Ministry of Science, Technology & Innovation, 2007, National

Anugerah Khas Naib Canselor bagi Kategori Penyelidikan 2006., UMT, 2007, University

Anugerah Penyelidikan Cemerlang KUSTEM 2005, UMT, 2006, University

Sijil Perkhidmatan Cemerlang UMT 2007, UMT, 2008, University

Sijil Perkhidmatan Cemerlang UMT 2006, UMT, 2007, University

Bonze Medal for the innovation of utilization of Malayisia Yam (*Dioscorea alata*) flour for food product, MTE, MOSTE, 2004, National

Anugerah Perkhidmatan Cemerlang KUSTEM 2003, UMT, 2004, University

Anugerah Perkhidmatan Cemerlang UPM bagi tahun 1998, KUSTEM/ UMT, 1998, University

Research Fellowship, JIRCAS, The Ministry of Agriculture, Forestry & Fisheries of Japan., 1993, International

Training grant for attending Characterization and Preliminary Evaluation of Plant Germplasm Course held at the Kasetsart University, Thailand., IBPGR, FAO, 1983, International

Training grant for attending Plant Genetic Resources Exploration and Collection Techniques Course at the NBPGR, IARC, New Delhi, India., IBPGR, FAO., 1982, International

KEYNOTE ADDRESS / INVITED SPEAKER

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

Kepelbagaian Genetik Tanaman: Pemuliharaan dan Kepentingan dalam Bidang Pertanian. ., Majlis Syarahan Inaugural UMT 6 (2013)., UMT, UMT, 04/09/2013, National

Biodiversity and variety improvement of crop plant, International Conference on Sustainable Agriculture and Food Security: Challenges and Opportunities., Universitas Padjadjaran, Bandung, Indonesia., Universitas Padjadjaran, Bandung, Indonesia., 27/09/2011, International

Conservation of plant biodiversity., Kuliah Tamu., Universitas Airlangga, Surabaya, Indonesia., Universitas Airlangga, Surabaya, Indonesia., 05/12/2011, International

Plant Phylogenetic, Taxonomy and Histology (Anatomy) Workshop., UDM, Kuala Terengganu, Universiti Darul Iman Malaysia (UDM), 01/03/2008, National

INTELLECTUAL PROPERTY RIGHTS

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

UNPATENT INTELLECTUAL PROPERTY RIGHTS

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

PUBLICATIONS

(Publication),(Level).

Articles in Journals

Hasan, S.M.Z and Miro, M.S., (1984), *The effect of annual weed density and nitrogen fertilization on the yield of Maize (Zea mays var. Bakti-I)*., PERTANIKA., Vol 7(1)(1) : 61-65

Hasan, S.M.Z., (1985), *Rumpai (Weed)*., UNIPERTAMA. (ISSN 0126-9496), Vol 6(6)(6) : 3&12

Hasan, S.M.Z., (1985), *Rumpai: sambungan*, UNIPERTAMA.(ISSN 0126-9496)., Vol 6(7)(7) : 3&12

Hasan, S.M.Z., (1986), *Pelekatan dan penyerapan racun herba serap dalam tumbuhan*, PENGEMBANGAN. (ISSN 0126-5032)., Vol 9(1)(1) : 13-22

Hasan, S.M.Z. and Lester, R.N., (1990), *Cross-ability relationships and in-vitro germination of F1 hybrids between Solanum melongena L. X S. panduriforme E.Meyer (S. incanum L. sen. amp.)*., SABRAO. (ISSN 1324-4612)., Vol 22 : 65-78

Hasan, S.M.Z., (1990), *Sifat-sifat tumbuhan yang mempengaruhi kesan penyerapan racun herba serap.*, PENGEMBANGAN. (ISSN 0126-5032)., Vol 13(1)(1) : 16-22

Hasan, S.M.Z., (1990), *Isozyme inheritance and linkage in hybrid Solanum*

melongena L. 'primitive cultivar' X S. lichtensteinii Willd. (S.incanum L. sen. lato)., Malaysian Applied Biology., Vol 19(2)(2) : 45-58

Lester, R.N. and Hasan, S.M.Z., (1990), *The distinction between Solanum incanum L. and Solarium insanum L. (Solanaceae).*, TAXON. (ISSN: 00400262), Vol 39(3)(3) : 521-523

Hasan, S.M.Z. and Lester, R.N., (1990), *Comparative micro-morphology of the seed surface of Solanum melongena L. (eggplant) and allied species.*, PERTANIKA., Vol 13(1)(1) : 1-8

Hasan, S.M.Z. and Razak, A. R., (1992), *Parthenocarpy in seedless breadfruit (Artocarpus incircus, (Thumb.) L.).*, Acta Horticulturae. (ISBN 90 6605 275 9), Vol 321 : 648-652

Hasan, S.M.Z. and Lester, R.N., (1992), *Cross-ability relationship of Solanum melongena L. with its nearest wild relatives.*, Acta Horticulturae. (ISBN 90 6605 4131)., Vol 292 : 123-133

Hasan, S.M.Z., (1994), *In-Vitro storage of yam (Dioscorea spp.).*, Newsletter for International Collaboration of Japan International Research Center for Agricultural Sciences (JIRCAS)., Vol 2(1)(1) : 15

Hasan S.M.Z. and Takagi, H., (1995), *Alginate-coated nodal segment of yam (Dioscorea spp) for germplasm exchange and distribution.*, Plant Genetic Resource IPGRI. Rome., Vol 103 : 32-35

Hasan, S.M.Z. and Lasim, W., (1996), *Storage of Yam (Dioscorea spp) by tissue culture technique.*, Agro-Search. (ISSN 0128-9322), Vol 3(1)(1) : 1-4

Hasan, S.M.Z. and Ismail, F.C., (1996), *Distribution of yam (Dioscorea spp) Germplasm using nodal segment encapsulation.*, Agro-Search. (ISSN 0128-9322)., Vol 3(2)(2) : 5-7

Hasan S.M.Z. and Abdullah, H., (1997), *Evaluation and variability in eggplant (Solanum melongena L.) complex in Malaysia.*, Malaysian Applied Biology., Vol 26(1) : 55 - 61

Hasan, S.M.Z., (1997), *Terung dan masalah layu bakteria (Eggplant and bacterial wilt problems).*, JAMBATAN (No: PP9454/6/96), Vol 6 : 3-5

Hasan S.M.Z. and Isa, M.L.M ., (1998), *Variability in eggplant (Solanum melongena L.) and its nearest wild species as revealed by polyacrylamide gel electrophoresis of*

seed protein profiles., PERTANIKA J. Tropical Agricultural Science. (ISSN: 1511-3701), Vol 21(2) : 113 - 122

Hasan, S.M.Z. and Abdullah, H., (1998), *Effects of effective microorganisms (EM) and Calcium Nitrate (Ca(NO₃)₂) on bacterial wilt establishment in eggplant (Solanum melongena L.)* ., Capsium and Eggplant Newsletter. EUCARPIA, (ISSN: 1122-5548)., Vol 17 : 88 - 91

Usman, I. S., Mamat, A. S., Hasan, S.M.Z, Siti, A. H. and Annuar, A. R., (1999), *The non-impairment of pollination and fertilization in the abscission of chilli (Capsicum annuum L. var. Kulai) flowers under high temperature and humid conditions.*, Scientia Horticulturae. (ISSN 0304-4238)., Vol 79 : 1 - 11

Hasan, S.M.Z., Ngadin, A.G. and S. Ramisah, M.S., (2006), *Genetic variability of greater yam (Dioscorea alata L.) in Malaysia as revealed by RAPD markers.*, Journal of Sustainable Science and Management. (ISSN 1823-8556)., Vol 1(2) : 1 - 16

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A.S. Mamat, Nurul Huda A. K, A.W.M. Effendy, Habsah M and S.M.Z. Hasan, S. Hamdan., (2005), *Development of lotion from Chromolaena odorata or ???kapal terbang??? plant extract on antimicrobial and wound healing.*, 8th April 2005. Science and Technology Exhibition, Geneva.

A.S. Mamat, Nurul Huda A.K, A.W.M. Effendy, Habsah M and S.M.Z. Hasan., (2005), *The Waste Novel Extracts of Chromolaena odorata for cosmetics and aromatherapy products.*, Biotechnology Asia 2005 Exhibition., PWTC, K. Lumpur.

A.S. Mamat, Hamat D, Nurul Huda A.K, A.W.M. Effendy, Habsah M and S.M.Z. Hasan., (2005), *The Novel Compound in A.paniculata Crude Extract for Diabetic Patients.*, Biotechnology Asia 2005 Exhibition, PWTC, K. Lumpur.

Nor Shariah S, A.S. Mamat, S.H. S. M. Z. Hasan and M.A. Adzemi., (2005), *Effect of Indole-3-Butyric Acid (IBA) and Gibberalic Acid (GA3) on rooting, plant height and early flowering of dragon fruit (Hylocereus undatus).*, 16th Malaysian Society of Plant Physiology Conference., Crystal Crown Hotel, Kelang, Selangor

A.S. Mamat, Nurul Huda A.K, A.W.M. Effendy, Habsah M and S.M.Z. Hasan., (2005), *The Waste Novel Extracts of Chromolaena odorata for cosmetics and aromatherapy products.*, IPTA Research Exhibition for 2005, PWTC, K. Lumpur.

A.S. Mamat, Hamat D, Nurul Huda A.K, A.W.M. Effendy, Habsah M and S.M.Z. Hasan., (2005), *The Novel Compound in A. paniculata Crude Extract for Diabetic Patients.*, IPTA Research Exhibition for 2005., PWTC, K. Lumpur.

Razifah R, A.S. Mamat, S.H. S. M. Z. Hasan and M.A. Adzemi., (2005), *The effect of Gibberalic Acid on growth and developmet of salak (Salacca endulis) Reinvv.*, 16th Malaysian Society of Plant Physiology Conference., Crystal Crown Hotel, Kelang, Selangor.

Hasan, S.M.Z. and Fadlina Yusof., (2006), *Utilization of greater yam (Dioscorea alata L.) in food products.*, BioMalaysia 2006, KLCC, K. Lumpur.

Hasan, S.M.Z., Faridah, M.I, Nasrenim S. 2007., (2007), *Utilization of greater yam (Dioscorea alata L.) flour in food products.*, Malaysia Technology Expo (MTE) 2007., PWTC, K. Lumpur.

Mamat, A.S, Razifah, M.R and Hasan, S.M.Z. , (2007), *Miracle do happen.*, INPEX 2007., Pitsburg, USA.

Hasan, S.M.Z, Faridah, M.I, Nasrenim, S, Faridah, H.F., (2007), *The development of food products from greater yam (Dioscorea alata L.) flour.*, International Technology Exhibition (ITEX) 2007., KLCC, K. Lumpur.

Aziz, Y, Fisal, A, Hasan, S.M.Z, Faridah, Y., (2007), *Keli Omega Plus.*, International Technology Exhibition (ITEX) 2007., KLCC, K. Lumpur.

Hasan, S.M.Z and NurSuraya A., (2008), *The Development of pineapple (Ananas comosus) artificial seeds for tissue culture transportation and distribution.*, Malaysia Technology Expo (MTE) 2008, PWTC, Kuala Lumpur

Hasan, S.M.Z and NurSuraya A., (2008), *Production of pineapple (Ananas comosus L.) artificial seeds.*, The 19th International Invention, Innovation & Technology Exhibition ITEX 2008, KLCC, Kuala Lumpur

Hasan, S.M.Z. and NurSuraya, A., (2008), *The artificial seed of pineapple (Ananas comosus(L.) Merill.)*, The Seoul International Invention Fair 2008, COEX, Seoul, Korea

Hasan, S.M.Z., M.S. Shafie, M.S. Ramisah and A. Nor Asiah., (2009), *Variability of Artemisia capillaris (wormwood capillary) in Kelantan as revealed by RAPD Analysis.*, The 3rd Regional Conference in the Tropics (NRTrop3): Harnessing Tropical Natural Resources Through Innovations and Technologies., Kucing,

Sarawak.

Hasan, S.M.Z., (2009), *The artificial seed of pineapple (Ananas comosus)*, Seminar on Importance of Biotechnology Role to Support Management of Water Environment Health and Aquatic Organism, University of Airlangga, Surabaya, Indonesia.

Hasan, S.M.Z., M.I. Faridah and H.R. Rafidah., (2009), *Utilization of Malaysian's greater yam (Dioscorea alata L.) flour in food products.*, The 37th International Exhibition of Inventions New Techniques and Products., PALEXPO, Geneva, Switzerland.

Aziz, A, Hasan, S.M.Z. and NurSuraya, A., (2010), *The effect of NaCl on the mineral nutrient and photosynthesis pigments content in pineapple (Ananas comosus) in vitro plantlets.*, 7th International Pineapple Symposium 2010: Global Pineapple Industry; The Way Forward. MARDI/MPIB/ISHS., Johor Bahru, Johor.

Wan Zaliha, W. S., Hasan, S.M.Z. and Zuraida, A.R. Poster. 24-25th January 2011., (2011), *Effects of exogenous application of prohexadione calcium on accumulation of anthocyanin and quality of roselle.*, UMT 2011 Research Day., Dewan Sultan Mizan, Universiti Malaysia Terengganu.

Wan Zaliha, W. S., Hasan, S.M.Z. and Zuraida, A.R., (2012), *Exogenous application of prohexadione calcium promotes accumulation of anthocyanins and colour of roselle calyx.*, 7th International Postharvest Symposium., Putra World Trade Centre, Kuala Lumpur.

Hasan, S.M.Z., Nor Asiah, A. & Shafie, A.S. 2013., (2013), *Flower Microstructure of Ficus deltoidea Jack.*, 22nd Scientific Conference of Microscopy Society of Malaysia (MSM 2013)., Primula Beach Resort, Kuala Terengganu

Ramya Sundaresan, Hasan, S.M. Z. and Andrew A. Ngadin. ., (2014), *Decolorisation of azo dye by saprotrophic microfungi collected from seawater sediment*, 32nd Symposium of the Malaysian Society for Microbiology (MM2014), Terengganu Equestrian Resort. Malaysia

Rahman MM and Hasan SMZ. 24 -27 Jan 2016., (2015), *Vase life enhancement of cut 'Mokara Red' orchid flower with leaf extracts. (accepted).*, ISHS Int. Sym. on Succulents and other Ornamentals., Kerala, India.

General Publications

Nur Asma A., Roshita I., Mohd Khairi M.Z and S. M. Z. Hasan., (2012), *UMT Pemangkin Industri Agroteknologi Negara.*, Agro Malaysia, 2, 01/07/2012

Hasan, S.M.Z., (2013), *Kampus UMT Bukit Kor.*, INFOKUS UMT, Bil. 45., 4, 01/06/2013

Andrew A. Ngadin and Hasan, S.M.Z., (2014), *Hari Kulat UMT 2014.*, PPSTM, UMT., 4, 01/11/2014

EXPERT LINKAGES

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

ACADEMIC PROJECT SUPERVISION

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

Norlily Sharni bt. Ahmad, Doctor of Philosophy, Effect of bio-active compound extracted from belalai gajah (*Clinacanthus nutans*) on cancer cell development., N/A

Roshita Ibrahim, Doctor of Philosophy, Effect of organic waste on growth and production of button mushroom., N/A

Ramya Sundaresan, Doctor of Philosophy, Characterization of biochemical and cytosolic function of glutathione s-transferases (GSTs) of saprotrophic microfungi collected from aquaculture ecosystem for waste water treatment., N/A

Isam Abdulbaset Haidar Al-Madhagi, Doctor of Philosophy, Effect of hormone, photoperiod and temperature on growth and development of Strawberry *Fragaria x ananassa* Duch.), 2012

Laith A. Abdul Razzak., Doctor of Philosophy, Effect of Mangrove (*Sonneratia* sp. and *Bruguiera* sp.) leaves extracts on bacterial fish diseases., 2013

Hoda Samadpour Sanandaji, Master, Study on the growth and development of drought-resistance rice (*Oriza sativa*) varieties., N/A

Nor Asiah Awang, Master, Study on variability and classification of *Ficus deltoidea*, 2012

NurSuraya Abdullah, Master, Study of drought and salinity stress tolerance in pineapple (*Ananas comosus*)growth., 2008

Andrew Anak Ngadin, Master, Variability of greater yam (*Dioscorea alata*) cultivars in Malaysia., 2007

Mohd Shafei b. Shafei, Master, Study on genetic variability of wormwood (*Artemesia carpelaries*), 2011

Patricia Blair Ak Goh, Master, Effect of cadmium and zinc on mangrove initial growth and physiology, 2011

Nor Shariah bt Salleh, Master, Growth and development of *Hylocerous* (Dragon fruit) in Bris soil at Kuala Terengganu., 2007

Razifah bt Mohd Razali, Master, Hormonal regulation in growth and development of *Salacca edulis*., 2007

Wan Bayani Wan Omar, Master, Study on genetic variability of oyster (*Crassostrea* spp.)

in Malaysia by RAPD technique., 2003

Tevan A/L Ramanathan, Master, Anatomical and physiological response of pineapple (*Ananas comosus* (L.) Merr.) against *Erwinia chrysanthemi* infection., N/A

Muhamad Hazwan b. Mat Tar, Master, Variability and evaluation of medicinal value in Beluru (*Entada phaseoloides*), N/A

Mohd Nasir Ismail, Master, Characterization and selection of Duku (*Lansium domesticum*) variety for fruit quality improvement., N/A

Sariam Bt. Hj. Othman, Master, Intergrated approach in fertilizer use and weed management in rice production., 1988

Khairul Hasni Mat Isa, Master, Study on the DNA variation in Yam (*Dioscorea* spp.) germplasms by RAPD technique., 2000

Nobuhiko Fushimi, Master, Studies on compatible and incompatible pollination and floral morphological polymorphisms in Carambola (*Averhoa carambola* L.), 1999

Yeong Yik Sin, Master, A study on the genetic variation, cross-compatibility and larval rearing of gaourami (*Trichogaster* spp.), 2003

Siti Norhajar Zakaria, Bachelor, Development of chain conveyor for roselle decoring machine., 2015

Nur Farah Farhan Mohd Zahid, Bachelor, Effects of copper ion on microbial population in vase solution of cut Gerberas (*Gerbera jamesonii*), 2015

Mohamad Shaifudin Suaimi, Bachelor, Measurement of power needed to decore roselle (*Hibiscus sabdariffa* L.) by machine and evaluation of roselle calyx quality, 2015

Noorsyafiza Suhaimi, Bachelor, Effects of acetic acid On vase life of cut gerberas (*Gerbera jamesonii*), 2015

Nurul Adawiyah Zulkifli, Bachelor, Infestation of weevil (*Cyrtus formicarius*) on sweet potato and its effect on post-harvest quality., 2015

Nor Zarinah Pairin (UK 20067.), Bachelor, Effect of different packaging in storage life of oyster mushroom (*Pleurotus sajor-caju*), 2012

Afinie Mohd Arifin (UK 16806), Bachelor, Effect of harvesting time on chemical and physical properties of pineapple (*Ananas comosus*), 2011

Wan Nur Amalina Wan Esa (UK 18194), Bachelor, Agro-morphological evaluation of roselle (*Hibiscus sabdariffa* L.) in Thu Tapai, Terengganu., 2011

Nuratika Tamini Sheik Mohamed (UK 16689), Bachelor, Effect of calcium dip and polysaccharide-based edible coatings to improve the physical-chemical properties of fresh strawberry (*Fragaria x ananassa* Duch. Var. Camarosa), 2011

Siti Faridah Hamdillah uk16337, Bachelor, Effect of harvesting date on shelf life of eggplant (*Solanum molongena*), 2010

Nur Shafarina Mohd Ridzuan uk16335, Bachelor, Effect of harvesting date on shelf life of tomato (*Lycopersicon esculentum*), 2010

Sarimah Ariffin uk16121, Bachelor, Effect of harvesting date on shelf life of muskmelon (*Cucumis melo*), 2010

Noor Ain Mohd Faudzi uk14700, Bachelor, Effect of harvesting date on shelf life of chili (*Capsicum annum*), 2010

Ili Mahirah Mohd Jamal uk16008, Bachelor, Effect of storage temperature and humidity on shelf life of ginger (*Zingiber officinale rosc.*), 2010

Ahmad Dinie b. Arip (UK11263)., Bachelor, Effect of plasticfilms on quality of guava at low temperature., 2007

Khairul Fitri Mohamad Noor (UK 11723)., Bachelor, Shelf-life of pineapple in ambient temperature and cool storage., 2007

Mohd Rasidi b. Rashid (UK 12606)., Bachelor, Effect of CaCl dipping on quality of guava, 2007

SUBJECT TAUGHT

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

Pembiakbakaan Tanaman, 2015/16, 3, 45, 3, PPSTM

Genetik dan Bioteknologi Pertanian, 2015/16, 3, 80, 3, PPSTM

Agroecosystem, 2015/16, 3, 83, 3, PPSTM

Genetik dan Bioteknologi Pertanian, 2013/14, 3, 69, 3, PPSTM, UMT

Genetik dan Bioteknologi Pertanian, 2012/13, 3, 57, 3, FASM/PPSTM, UMT

GENETIK DAN BIOTEKNOLOGI PERTANIAN, 2011/12, 2, 3, FASM/UMT

GENETIK DAN BIOTEKNOLOGI PERTANIAN, 2009/10, 3, 56, 3, FASM/ UMT

TEKNOLOGI PENGELUARAN PERTANIAN DAN MAKANAN, 2009/10, 3, 120, 3, FASM/ UMT

AGROEKOSISTEM, 2003/04, 3, 80, 3, FASM/ UMT

BIOLOGI ORGANISMA I, 2001/02, 3, 60, 3, FST/ UMT

PEMULIHARAAN SUMBER-SUMBER GENETIK, 2000/01, 3, 3, FST/ UMT

PENGURUSAN HIDUPAN LIAR, 2000/02, 3, 60, 3, FST/ UMT

EKOLOGI LAPANGAN, 2000/01, 3, 60, 3, FST/UMT

Genetik dan Bioteknologi Pertanian, 2015/16, 3, 125, 3, PPSTM

EXPERT CONSULTATION

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

COMMERCIALIZATION

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

EXPO/EXHIBITION

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

Inovasi@UMT 2015., Dewan Sultan Mizan, UMT., UMT, National, 01/01/2016

MAHA (Malaysian Agriculture, Horticulture and Agro-tourism Exhibition)., MAEPS, Serdang, Selangor, Kementerian Pertanian dan Industri Asas Tani., National, 23/11/2014, 6000

Pameran Innovation, career and Enterpreanurship., UMT., CADE, UPM., National, 28/11/2014, 1000

11th Asian Apiculture Association Conference and Exhibition., Batu Burok, K. Terengganu., Yayasan Sultan Mizan & Kerajaan N. Terengganu., National, 27/09/2012

MAHA (Malaysian Agriculture, Horticulture and Agro-tourism Exhibition)., Serdang, Selangor., Kementerian Pertanian dan Inustri Asas Tani., National, 22/11/2012

Program Pameran Antarabangsa 2012, Ho Chin Minh City, Vietnam, KPT, National, 05/04/2012

UMT Research Day 2011. Pasteurized roselle pickles., UMT, UMT, National, 01/01/2011

UMT Research Day 2011., UMT, UMT, National, 01/01/2011

Malaysia Agriculture, Horticulture and Agro-tourism Exhibition, Serdang, Selangor, Kementerian Pertanian dan Asas Tani Malaysia, National, 22/11/2010, 12000

The 37th International Exhibition of Inventions New Techniques and Products., PALEXPO, Geneva, Switzerland, International Inventions New Techniques and Products., National, 03/05/2009

The 19th International Invention, Innovation & Technology Exhibition ITEX 2008, KLCC, Kuala Lumpur, Malaysian Invention and Desgn Society and Ministry of Science, Technology & Innovation., National, 09/05/2008

Seoul International Invention Fair 2008, COEX, Seoul, Korea., Korea Invention Promotion Association, National, 11/12/2008

Malaysia Technology Expo 2008 (MTE 2008), PWTC, Kuala Lumpur, Malaysian association of Research Scientists (MARS), National, 21/02/2008

EXTERNAL/INTERNAL/INDEPENDENT EXAMINER

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

Muhamad Syazlie Che Ibrahim., MSc., UMT, Independent, 01/10/2015

Mazira Che Mat, MSc., UMT, Independent, 01/05/2015

Siti Mariam Osman, MSc., UMT, Independent, 01/08/2015

Nur Amirah Yusoff, MSc., UMT, Independent, 01/11/2015

Norhaniza Sahidin, PhD, UMT, External, 01/08/2015

Nor Zuhailah Mazlan, Master of Science, UniSZA, External, 01/07/2014

Noraniza bt. Mahawi, MSc. (Agronomy)., Universiti Putra Malaysia (UPM)., External, 01/08/2014

Munirah Bakar @Samsuddin, MSc., UniSZA, External, 01/12/2013

Muhamad Azhar Abd. Wahid, MSc., UniSZA, External, 01/08/2013

Chen Xing Wei, MSc., UPM, External, 01/05/2013

Nor Zaimah bt. Ab. Rashid, MSc., UniSZA, External, 01/02/2013

Noor Camellia Noor Alam, MSc, UPM, External, 01/05/2012

Nor Azahana Abdullah, MSc, UniSZA, External, 01/07/2012

Tee Lea Wee, MSc, UMT., External, 01/04/2012

Chuah Chin Kok., PhD, UMT, External, 01/01/2011

Shampazuraini Samsuri ., MSc, UPM, External, 01/09/2011

Mohammad Shafei., MSc, UMT, Internal, 01/01/2011

Anne Marie Kaben, MSc, UMT, External, 01/06/2010

Nor Shariah bt Salleh, MSc, UMT, Internal, 01/05/2007

NurSuraya binti Abdullah, MSc., UMT, Internal, 01/09/2008

Razifah bt Mohd Razali, MSc, UMT, Internal, 01/05/2007

Andrew Anak Ngadin., MSc., UMT, Internal, 01/01/2006

Madzlan bin Mohd Salleh, MSc., UMT, Independent, 01/03/2005

Wan Bayani Wan Omar, MSc., UMT, Internal, 01/07/2003

Yeong Yik Sin, MSc., UMT, Internal, 01/05/2002

Juanita Joseph, MSc., UPM, External, 01/12/2000

Andi Parenrengi, MSc., UPM, External, 01/05/2001

Khairul Hasni Mat Isa, MSc., UPM, Internal, 01/09/2000

Jayanthi d/o Nadarajah, MSc., UPM, External, 01/09/1999

Nobuhiko Fushimi, MSc., UPM, Internal, 01/07/1999

EXTERNAL REVIEWER/EDITORIAL

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

Garis Panduan Ujian DUS Nasional bagi Tanaman Pitaya, Dabai, Nangka dan Jati. Jabatan Pertanian Malaysia., Reviewer, 01/03/2015 - 01/03/2015

Proceeding of postgraduate seminar 2015. PPSTM, UMT., Reviewer, 01/08/2015 - 01/08/2015

Extended Abstracts Post-graduated for Seminar Day PPSTM 2015., Reviewer, 01/08/2015 - 01/08/2015

Journal Sustainability Science & Management (JSSM)., Reviewer, 01/09/2014 - 01/09/2014

Journal Sustainability Science & Management (JSSM)., Reviewer, 01/09/2014 - 01/10/2014

Plos One Journal., Reviewer, 01/08/2012 - 01/09/2012

Journal Sustainability Science & Management (JSSM), Reviewer, 01/10/2012 - 01/11/2012

Journal Sustainability Science & Management (JSSM), Reviewer, 01/04/2012 - 01/07/2012

African Journal of Biochemistry Research, Reviewer, 01/03/2009 - 01/04/2009

ATTENDED COURSE/SEMINARS

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

Bengkel Pengharmonian Garis Panduan Ujian DUS Nasional bagi Tanaman Pitaya, Dabai, Nangka, dan Jati. 2 - 4 Mac 2015., Peserta dan Penasihat Pakar, 02/03/2015 - 04/03/2015, Jab. Pertanian Malaysia, Serdang, Selangor.

Bengkel Transformasi Tanah Terbiar dan Industri Roselle Negeri Terengganu, Peserta, 12/11/2014 - 14/11/2014, Concorde Hotel, Shah Alam, Selangor,

Malaysian Agriculture and Horticulture Expo (MAHA) 2014, Peserta dan Promosi Produk Roser, 22/11/2014 - 23/11/2015, MAEPS, Selangor

The 3rd Asean Universities Consortium of Food and Agriculture (AUCFA) Conference and Workshop, Peserta, 15/10/2014 - 17/10/2014, Bogor Convention Centre, Bogor, Indonesia.

Bengkel Hala Tuju Pusat Pengajian dan Institut Penyelidikan, Pembentang Kertas dan Peserta, 09/10/2014 - 11/10/2014, Villa Daniella Beach Resort, Bacok, Kelantan, Halatuju Pusat Pengajian Sains dan Teknologi Makanan

Bengkel Penyediaan Akhir Penilaian Prestasi Tahunan dan Penetapan Base-line LNPT Ahli Akademik UMT., Peserta, 22/05/2014 - 24/05/2014, Hotel Vistana, Kuantan, Pahang., -

Majlis Syarahan Inaugural UMT 6 (2013), Pembentang, 05/09/2013 - 05/09/2013, UMT, Kepelbagaian Genetik Tanaman: Pemuliharaan dan Kepentingan dalam Bidang Pertanian.

Forum Ikatan Profesor Indonesia Malaysia (IPIMA): Pertanian dan Kedaulatan Pangan (Agriculture and Food Sovereignty) di Indonesia dan Malaysia., Moderator dan Urusetia, 18/11/2013 - 20/11/2013, IPB International Convention Centre, Bogor, Indonesia.

Bengkel Pertama Kajian Hala Tuju Peranan KPM dan IPT dalam Membangun Sektor Pertanian Negara., Peserta, 06/04/2013 - 06/04/2013, Palm Garden Hotel, IOI Resort, Serdang, Selangor

22nd Scientific Conference of Microscopy Society of Malaysia (MSM 2013)., Pembentang, 26/11/2013 - 28/11/2013, Primula Beach Resort, Kuala Terengganu., Flower Microstructure of Ficus deltoidea Jack.

Pembentangan Baget Mengurus UMT Tahun 2014-2015., Pembentang, 12/01/2013 - 13/01/2013, Ri Yaz Marina Resort, Kuala Terengganu., Cadangan Peruntukan Belanja Mengurus FASM Tahun 2014-2015.

National Symposium on Urban Agriculture: Toward Ensuring Food Security., Peserta, 17/10/2013 - 17/10/2013, Palm Garden Hotel, IOI Resort, Serdang, Selangor.

Bengkel Kedua Kajian Hala Tuju Peranan KPM dan IPT dalam Membangun Sektor Pertanian Negara., Peserta, 08/07/2013 - 08/07/2013, Palm Garden Hotel, IOI Resort, Serdang, Selangor

Forum Peladang, Penternak dan Nelayan Terengganu 2013. Kem. Pert. & Industri Asas Tani., Moderator, 26/09/2013 - 26/09/2013, Kompleks Sukan Gong Badak, K. Terengganu

Majlis Menandatangani MoU Jabatan Pertanian Sarawak dengan UMT., Peserta, 16/01/2013 - 16/01/2013, Four Points Hotel, Kucing, Sarawak.

Bengkel Ketiga Kajian Hala Tuju Peranan KPM dan IPT dalam Membangun Sektor Pertanian Negara., Peserta, 14/12/2013 - 14/12/2013, Palm Garden Hotel, IOI Resort, Serdang, Selangor

International Conference on Agricultural Machinery in Rice Production: A Challenge for ASEAN., Participant, 26/11/2012 - 28/11/2012, Empress Convention Centre, Chiang Mai, Thailand.

Bengkel Pengurusan dan Pengendalian Racun MakhluK Perosak. 9 Dis 2012. UMT. Peserta., Pengerusi., 09/12/2012 - 09/12/2012, UMT.

11th Asian Apiculture Association Conference and Exhibition., Exhibitor., 26/09/2012 -

28/09/2012, Batu Burok, K. Terengganu.

Persidangan Kebangsaan Pentadbiran Organisasi (PKPO)., Peserta, 13/03/2012 - 15/03/2012, Permai Inn, K. Terengganu

Bengkel Etika Penyelidikan Tumbuhan, Peserta, 15/12/2011 - 15/12/2011, RMIC, UMT

Kursus Pengurusan Tatatertib., Peserta., 13/10/2011 - 13/10/2011, Primula Beach Resort, K. Terengganu.

International Symposium on Tropical and Sub-tropical Fruit, ISHS., Paper presenter, 19/12/2011 - 21/12/2011, Chiang Mai, Thailand., The starch status during growth and development of strawberry (*Fragaria ananassa*) under tropical climatic condition.

International Conference on Sustainable Agriculture and Food Security: Challenges and Opportunities., Invited Speaker, 27/09/2011 - 28/09/2011, Universitas Padjadjaran, Bandung, Indonesia., Biodiversity and variety improvement of crop plant.

UMT International Annual Symposium 2011 (UMTAS 2011)., Paper presenter, 11/07/2011 - 13/07/2011, K. Terengganu., Effect of photoperiod on propagation of strawberry (*Fragaria x ananassa* Duch).

UMT International Annual Symposium 2011 (UMTAS 2011)., Paper presenter, 11/07/2011 - 13/07/2011, K. Terengganu., The interaction effect of photoperiod and exogenous hormone the dry matter of strawberry (*Fragaria x ananassa* Duch).

UMT International Annual Symposium 2011 (UMTAS 2011)., Paper presenter, 11/07/2011 - 13/07/2011, K. Terengganu., Comparative analysis of genetic diversity in *Artemisia capillaries* based on RAPD and ISSR markers from Malacca, Malaysia.

UMT International Annual Symposium 2011 (UMTAS 2011)., Paper presenter, 11/07/2011 - 13/07/2011, K. Terengganu., Evaluation of morphological variability of Mas Cotek (*Ficus deltoidea* Jack) collected in Malaysia.

UMT International Annual Symposium 2011 (UMTAS 2011)., Paper presenter, 11/07/2011 - 13/07/2011, K. Terengganu., In vitro antimicrobial activity of *Exoecaria agallocha* against *Flavobacterium* spp..

International Fisheries Symposium 2011 (IFS 2011)., Paper presenter, 03/10/2011 - 05/10/2011, K. Terengganu., Pathogenicity of *Elizabethkingia meningoseptica* in catfish (*Clarias gariepinus*).

7th International Pineapple Symposium 2010; Global Pineapple Industry-the Way Forward., Poster presenter, 13/07/2010 - 15/07/2010, Johor Bahru, Johor., The effect of NaCl on the mineral nutrient and photosynthesis pigments content in pineapple (*Ananas comosus*) in vitro plantlets.

Seminar Pemandangan Teknologi Pertanian- MARDI, Paserta., 29/11/2010 - 30/11/2010, IOI Resort, Putra Jaya.

National Rice Conference 2010: Strengthening Food Security through Sustainable Rice Production., Paper presenter and panel for poster presentation., 28/06/2010 - 30/06/2010, Lumut, Perak., MR219-4, An efficient water-use mutant developed through mutation breeding.

The 9th International Annual Symposium on Sustainability Science and Management., Paper presenter and session Chairperson., 08/05/2010 - 11/05/2010, K. Terengganu., Floral microstructure of Mas cotek (*Ficus deltoidea* Jack).
DNA and morphological diversity of selected wormwood capillary (*Artemisia capillaris*) from Selangor, Malaysia.

The 3rd Regional Conference in the Tropics (NRTrop3): Harnessing Tropical Natural Resources through Innovations and Technologies, Paper presenter, 03/08/2009 - 05/08/2009, Kucing, Sarawak., DNA variation of *Artemisia capillaris* in Kelantan as seen by RAPD analysis

The Importance of Biotechnology Role to Support Management of Water Environment Health and Aquatic Organism., Paper presenter., 18/11/2009 - 21/11/2009, Airlangga University, Surabaya, Indonesia., The artificial seed of Pineapple

The 37th International Exhibition of Inventions New Techniques and Products., Product presenter (Gold Medal)., 01/04/2009 - 05/04/2009, PALEXPO, Geneva, Switzerland., Utilization of greater yam (*Dioscorea alata*) flour in food products.

UMT 8th International Annual Symposium on Sustainability Science and Management (UMTAS 2009), Paper presenter, 03/05/2009 - 04/05/2009, Kuala Terengganu., Morphological variability of *Ficus deltoidea* Jack (Mas cotek) in Peninsular Malaysia.

UMT 8th International Annual Symposium on Sustainability Science and Management (UMTAS 2009)., Paper presenter., 03/05/2009 - 04/05/2009, Kuala Terengganu., ISSR analysis in wormwood capillary (*Artemisia capillaris* Thunb.) from Negeri Sembilan, Malaysia.

UMT 8th International Annual Symposium on Sustainability Science and Management (UMTAS 2009)., Paper presenter., 03/05/2009 - 04/05/2009, Kuala Terengganu., Comparison of five DNA extraction methods from wormwood capillary (*Artemisia capillaris* Thunb.) for PCR amplification.

Building Human Capital Development for the Future: Catalyst for Economic Development. AKEPT, Ministry of Higher Education., Participant, 30/01/2009 - 30/01/2009, Merriot Hotel, Putra Jaya.

Workshop on Enhancing the Fisheries Field and Developing the New Fisheries Programme in UMT., Workshop Chairman., 29/01/2009 - 31/01/2009, Kota Bharu., Opening speech and conclusion.

Program Survival Laut & Penghayatan Warisan (SLPW) Untuk Pegawai Utama & Kanan UMT 2009., Participant., 19/08/2009 - 20/08/2009, Pulau Bidong, Terengganu.

Bengkel e-Penyelidikan, Participant, 23/01/2008 - 23/01/2008, Makmal Pengaturcaraan, FST

Seminar Kepimpinan Untuk Dekan (Faculty Excellent: Strategies & Implication), Participant, 18/02/2008 - 19/02/2008, Hotel Concorde, Shah Alam

Malaysia Technology Expo MTE 2008, Exhibitor/ Poster Presenter, 20/02/2008 - 23/02/2008, PWTC, Kuala Lumpur, The development of pineapple (*Ananas comosus*)

L.) artificial seeds for tissue culture transportation and distribution.

Seminar Enhancing The Quality of Higher Education Through Research: Shaping Future Policy, Participant, 26/02/2008 - 26/02/2008, Pan Pacific Hotel, K. Lumpur

ISO 9001:2000 Quality Management Representative Training Course, Participant, 20/04/2008 - 20/04/2008, UMT

Program Lukisan Dasar Laut anjuran Malaysian Coral Reef Conservation Society, Diver/ Participant, 25/04/2008 - 28/04/2008, Pulau Tioman, Pahang

The 19th International Invention, Innovation & Technology Exhibition ITEX 2008, Exhibitor/ Poster Presenter, 08/05/2008 - 10/05/2008, KLCC, K. Lumpur, Production of pineapple (*Ananas comosus* L.) artificial seeds.

Malaysian High Education Promotion and Exhibition in Fiji, Exhibitor/ Poster Presenter, 30/05/2008 - 31/05/2008, Suva, Fiji., Graduate Study in UMT.

International Seminar Optimalization of Fisheries and Marine Resources for Supporting Food Safety and Aquatic Animal Health in Anticipation of Global Warming, Participant, 04/08/2008 - 04/08/2008, Airlangga University, Surabaya, Indonesia

Pameran SMIDEX 2008, Exhibitor/ Poster Presenter, 04/06/2008 - 06/06/2008, KLCC, K. Lumpur, Food product development from yam (*Dioscorea alata*) tuber.

Land Resource Management and Urban Development (Technical Course), Participant, 12/08/2008 - 24/08/2008, The University of Cambridge, UK

Seoul International Invention Fair SIIF 2008, Exhibitor/ Poster Presenter, 11/12/2008 - 15/12/2008, COEX, Seoul, Korea, The artificial seed of Pineapple (*Ananas comosus* L.)

11th UMT International Annual Symposium 2012 (UMTAS 2012)., Paper presenter (Oral and Poster)., 09/07/2012 - 11/07/2012, Ri-Yaz Heritage Marina Resort, K. Terengganu.

PROFFESIONAL DEVELOPMENT

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

INTERNSHIP SUPERVISION

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

Anais KERAVEL, Universite de Bretagne-Sub, France., 30/03/2015 - 30/05/2015

Tatiana THOMAS, Universite de Bretagne-Sud (UBS), France., 30/03/2015 - 30/05/2015

Francois VAUCHELLES, Universite de Bretagne-Sud (UBS), France., 30/03/2015 - 30/05/2015

Guillaume DAUFOUY, Universite de Bretagne-Sud (UBS), France., 30/03/2015 - 30/05/2015

Matthieu SOTTO, Universite de Bretagne-Sud (UBS), France., 30/03/2015 - 30/05/2015

STUDENT ADVISORY

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

OTHER CONTRIBUTIONS

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

Penghasilan Jagung Manis UMT bersama Komuniti Tani Bukit Kor., Penyelaras, 20 September 2015 - 20 December 2015, National

Lawatan Pusat Pemprosesan Makanan Laut, 'The Kheng Hai Chuan Fishery', Pulau Pangkor., Peserta, 11 December 2014 - 11 December 2014, National

Upacara Konvokesyen ke- 50 USM, Wakil NC UMT., 05 November 2014 - 06 November 2014, National

Pengusaha Pertanian di Kawasan Tanah Kampus UMT Bukit Kor ., Penyelaras, 01 December 2012 - Present, National

Program Lawatan Naib Canselor dan Penanaman Pokok di Kampus UMT Bukit Kor ., Pengerusi, 31 March 2013 - 31 March 2013, National

Bidong Underwater and Land Challenge (BULC) sempena Hari Bumi 2012. Coral Malaysia/UMT., Ahli/ Diver, 16 April 2012 - 22 April 2012, National

Program UMT-Cakna Masyarakat 2012, 01 January 2012 - 31 December 2012, National

Program Surabaya International Education and Training Expo 2011, Indonesia. 15-20 Nov. 2011., Ahli, 15 November 2011 - 20 November 2011, National

Lawatan Akademik Ke Can Tho University dan Nong Lam University, Vietnam., Ahli, 13 March 2011 - 16 March 2011, National

Pembangunan Taman Mini Pertanian Sek. Men. Ibrahim Fikri, S. Takir, k. Terengganu., Penasihat., 01 October 2011 - Present, National

Lawatan Program LASBELA FASM ke Kasetsart University, Bangkok, Thailand., Pengiring, 17 May 2011 - 21 May 2011, National

Lawatan Pegawai Sokongan FASM Ke LADA, Langkawi dan USM P. Pinang., Pengiring, 30 March 2011 - 31 March 2011, National

1st Fisheries International Symposium jointly organised by UMT-Kasetsat U- Can Tho U - Nom Lam U- Air Langga U., Member of the Main Committee., 01 November 2010 - 03 December 2011, National

Program Penggalakkan Sains: Projek Taman Mini Herba Sek. Men Ibrahim Fikri, S. Takir., Penasihat AJK, 01 October 2011 - 01 October 2011, National

Earth Day and Special Program of Anak Laut Coral Malaysia., Member, 21 April 2011 - 24 April 2011, National

Majlis Tandatangani MoU UMT-Universitas Padjajaran, Indonesia, Penasihat AJK, 01

December 2011 - 01 December 2011, National

World Conservation Day 2011, Member/ Diver, 01 June 2011 - 03 June 2011, National

Annual Workshop of Hydroponics & Nutrient Film Technique (NFT), Graduate Society of Islamic Azad University-Iran (Mashad)., Support Member, 10 January 2011 - 10 January 2011, National

Lawatan Kerja Ke Kasetsart University, Thailand, Ahli rombongan, 20 December 2010 - 24 December 2010, National

Malaysian Agricultural and Horticultural Exhibition (MAHA), Exhibitor, 26 November 2010 - 05 December 2010, National

Program Kemasyarakatan UMT-Persatuan Coral Malaysia dengan Sekolah Kebangsaan Pulau Maboh, Sabah., Ahli rombongan, 07 November 2010 - 12 November 2010, National

Majlis Tandatangani Mou UMT-Kasetsart University, di UMT., Pengerusi Jawatankuasa Kerja, 10 February 2010 - 10 February 2010, National

Majlis Tandatangani MoU antara UMT dan UNAIR, Pengerusi Jawatankuasa Kerja, 05 May 2005 - 05 May 2008, National

Lawatan Kerja ke Institut Pertanian Bogor dan Universiti Airlangga, Surabaya, Indonesia, Delegasi, 03 August 2008 - 08 August 2008, National

Majlis Tandatangani MoU antara UMT dan MARDI, Pengerusi Jawatankuasa Kerja, 03 July 2008 - 03 July 2008, National

Program Penilaian Kesesuaian Padi Pulut di Besut, Terengganu: Kerjasama UMT dan KETARA, Pengerusi Bersama Program, 01 January 2008 - 01 March 2009, National

International Society of Horticultural Science, Member, 01 January 1985 - Present, National

Malaysian Society of Plant Physiology, Member, 01 January 1992 - Present, National

Malaysian Nature Society, Member, 01 January 1984 - Present, National