

## CURRICULUM VITAE

Khadijah Awang,  
Research Officer,  
Plant Breeding Programme,  
Industrial Crop Research Centre,  
MARDI,  
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### ACADEMIC QUALIFICATION

Certificate/ Qualification	Area of Specialisation	University	Year
BSc.	Agricultural Sciences	Uni. Putra of Malaysia	1997

### CURRENT RESEARCH SPECIALISATION

#### Research field:

Biodiversity of plants focusing on underutilized fruit species:

- Collection, characterization and evaluation of *Baccaurea* species in Malaysia (main focus)
- Collection, characterization and evaluation of underutilized fruit species in Malaysia
- Collection, characterization and evaluation of crop wild relatives (*Ipomoea* spp.) in Malaysia
- Collection, characterization and evaluation of *Alpinia* spp. (*Zingiberaceae*) in Malaysia
- Germplasm management

### EMPLOYMENT

Employer	Designation	Centre	Year
MARDI	Research Officer	Industrial Crop Research Centre	Feb2019 – present

MARDI	Research Officer	Genebank and Seed Centre	2016 – Jan 2019
MARDI	Research Officer	Strategic Resources Research Centre	2004 -2015
MARDI	Research Officer (Contract)	SENR	1999-2003
UPM	Assistant Research Officer (Contract)	Faculty of Biotechnology	1997-1998

## HONOURS & AWARDS

Name of Awards	Award Type	Year
Anugerah Perkhidmatan Cemerlang (APC) MARDI	Certificate	2019
MARDI Science and Technology Exhibition (MSTE) (Knowledge category)	Silver medal	2018
MARDI Science and Technology Exhibition (MSTE) (Knowledge category)	Bronze medal	2016
Malaysian Agricultural Innovation Challenge, (MAgIC) (Knowledge category)	Bronze medal	2014
MARDI Science and Technology Exhibition (MSTE) (Knowledge category)	Silver medal	2014
Malaysia Technology Exhibition (MTE) (Knowledge category)	Bronze medal	2008
MARDI Science and Technology Exhibition (MSTE) (Knowledge category)	Bronze medal	2007

## PUBLICATIONS

### Journal Articles:

**Khadijah, A.,** Mirfat, A.H.S., Siti Sofiah, M. and Mohd Shukri, M.A. 2019. Distribution, Morphological Variations, Utilization and Conservation of *Baccaurea polyneura* Hook.f. (jentik-jentik) in Malaysia. *Sains Malaysiana*. (In Review).

**Khadijah, A.,** Mohd. Khairulazhar, M., Mohd Nor, A., Razali, A.R., Rusli, A., Mohd Khairuddin, O., Siti Sofiah, M. and Mohd Shukri, M.A. 2018. Diversity, Distribution and Conservation of *Baccaurea* Species in the Home Garden and Orchard in Malaysia. *Malayan Nature Journal*, 70 (3), 333-339.

Salma, I., **Khadijah, A.,** Masrom H., Azuan, A., Raziah, M.L. and Abdul Rahman, M. 2010. Distribution and Diversity of *Mangifera* Species on farm in Malaysia. 2010. *J. Trop. Agric. and Fd. Sc.* 38 (1): 89-95.

### **Books/Chapters in Book/Thesis**

**Khadijah, A.** 2019. Anatomi daun spesies terpilih *Baccaurea* Lour. (Phyllanthaceae) di Malaysia. MSc. Thesis (On going).

### **MARDI Technology Bulletins and MARDI Reports**

**Khadijah, A.,** Mohd Khairulazhar, M. dan Razali, A.R. 2014. Kaedah Penanaman Kaum Rambai (Spesies *Baccaurea*). Buletin Teknologi MARDI, Bilangan 5.

Salma, I., Raziah, M.L. **Khadijah, A.,** Azuan, A., Abd Rahman, M., Shariah, U. and Tarmizi, A. 2009. In situ Conservation and Utilization of Rare Fruit Species: Findings of the Site Selection in Sarawak. MARDI Report No 209.

Raziah, M.L., Alam, A.R., Salma, I., Abd Rahman, M., **Khadijah, A.,** and Ariffin, T. 2008. Dimensi Sosioekonomi Pemuliharaan dan Penggunaan Buah-buahan Tradisional di Kebun Halaman Rumah dan di Dusun Semenanjung Maaysia. Laporan MARDI No. 208

### **Technical Papers (Seminar, Symposium, Workshop, Conference, Proceeding)**

**Khadijah, A.,** Noraini, T., Nurshahidah, M.R., Siti Sofiah, M., Ahmad Syahman, M.D and Mohd Shukri, M.A. 2019. Morphological Characteristics and Leaf Venation of *Baccaurea brevipes* Hook. F. and *B. lanceolata* (Miq.) Mull.Arg. (2019). 13<sup>th</sup> Malaysia International Genetic Congress (MiGC 13). 19-21 November 2019, Bangi, Malaysia.

Khairun Hisam, N., Muhammad Fairuz, M.Y., Siti Norsaidah, I. Mira Farzana, M.M., **Khadijah, A.** and Mohd Shukri, M.A. 2019. Discovery of Simple Sequence Repeat Markers via Transcriptome Analysis of *Baccaurea motleyana*. Proceeding at the 6<sup>th</sup> International Biotechnology Symposium. The Pacific Sutera Hotel, Kota Kinabalu, Sabah.

**Khadijah, A.,** Mirfat, A.H.S, Mohd Nor, A., Mohd Khairulazhar, M., Mohd Khairuddin, O. and Siti Sofiah, M. 2018. *Baccaurea ramiflora* Lour. (Pupor): Potential for Food and Landscape. MARDI Science and Technology Exhibition (MSTE). MITC, Ayer Keroh, Melaka.

- Khadijah, A.,** Mirfat, A.H.S., Mohd Nor, A., Siti Sofiah, M., Mohd Khairuddin, O. and Mohd Shukri, M.A. 2018. *Baccaurea* Lour.: Fruit Taste and Nutritional Composition. SASS-DOA Sabah Seminar Tropical Fruits: The Next Golden Crop For Sabah. 14-16 August 2018. Kota Kinabalu, Sabah.
- Khadijah, A.,** Mirfat, A.H.S., Mohd Khairulazhar, M., Mohd Nor, A., Siti Sofiah, M. and Mohd Khairuddin, O. 2016. Potential Elite Accessions of *Baccaurea polyneura* Hook.F. (Jentik-jentik). MARDI Science and Technology Exhibition (MSTE) 2016. 10-12 October, MAEPS, Serdang, Selangor.
- Khadijah, A.,** Mirfat, A.H.S., Mohd Khairulazhar, M. and Mohd Nor, A. 2013. *Baccaurea polyneura* Hook.f. (Jentik-jentik): Potential Underutilized Fruit. Regional Taxonomy and Ecology Conference. Kuching, Sarawak.
- Khadijah, A.,** Mirfat, A.H.S. and Muhammad Razali, M. 2014. *Baccaurea parviflora* (Setambun): Wild and Unexploited Fruit Species. Agrobiodiversity and Agroenvironment Symposium (A-BES), 15-18 September 2014, Pullman Hotel, Kuching, Sarawak.
- Khadijah, A.,** Mohd Khairulazhar, M., Razali, A.R. and Rusli, A. 2014. *Ex situ* Conservation and Performance of *Baccaurea* Species in MARDI Genebank. Agrobiodiversity and Agroenvironment Symposium (A-BES), 15-18 September 2014, Pullman Hotel, Kuching, Sarawak.
- Khadijah, A.,** and Razali, A.R. 2014. Potential Underutilized Fruit: *Tampoi* (*Baccaurea macrocarpa*). 2<sup>nd</sup> International Plant Breeding Seminar: Advanced Breeding Strategies in Crop Improvement. 14-15<sup>th</sup> October 2014. Universiti Putra Malaysia, Serdang, Selangor.
- Khadijah, A.,** Salma, I., Shariah, U., Pearlycia, B., Wong, W.W.W., Shukor, A., Adam, H.G. and Muhammad Shafie, M.S. 2014. Pengetahuan Tradisi Spesies Mangga (*Mangifera* L.). FRIM Proceedings No 1. Seminar pemuliharaan & Pemerkasaan Pengetahuan Tradisi, 23-24 Mei 2014, PWTC, Kuala Lumpur.
- Khadijah, A.,** Mohd Khairulazhar, M., Razali, A.R. and Rusli, A. 2014. Short Juvenile Period in *Baccaurea* Species: A New Finding. 2014. MARDI Science and Technology Exhibition (MSTE). 3-5 November, MAEPS, Serdang, Selangor.
- Khadijah, A.,** Mohd Khairulazhar, M., Razali, A.R. and Rusli, A. 2014. Short Juvenile Period in *Baccaurea* Species: A New Finding. Malaysian Agricultural Innovation Challenge, (MAGIC 2014). 6-8 November, MAEPS, Serdang, Selangor.
- Khadijah, A.,** Salma, I. and Razali, A.R. 2010. *Baccaurea ramiflora* Lour.: Neglected Underutilized Fruit. 2<sup>nd</sup> National Conference on Agibiodiversity Conservation and Sustainable Utilization, 11-13 May 2010, Promenade, Tawau, Sabah.
- Khadijah, A.,** Salma, I. and Razali, A.R. 2010. Distribution and Diversity of *Baccaurea motleyana* (Rambai) in Malaysia. 2<sup>nd</sup> National Conference on Agibiodiversity Conservation and Sustainable Utilization, 11-13 May 2010, Promenade, Tawau, Sabah.

- Khadijah, A.,** Salma, I. and Razali, A.R. 2010. Sumbangan dan potensi buah-buahan nadir. Malaysia Agriculture, Horticulture and Agrotourism Show (MAHA) 16 Nov-5 Dec 2010, MAEPS, Serdang, Selangor.
- Khadijah, A.,** Salma, I. and Razali, A.R. 2009. Domestication of Tampoi (*Baccaurea macrocarpa*). National Conference on New Crops and Bioresources, 15-17 Dec 2009. Royal Bintang Resort, Seremban, Negeri Sembilan.
- Khadijah, A.,** Salma, I. and Raziah, M.L. 2008. *Baccaurea* Diversity: Potential Nutritional Supplement. Malaysia Technology Expo (MTE). 21-23 February, PWTC, Kuala Lumpur.
- Khadijah, A.,** Salma, I. and Raziah, M.L. 2008. *Baccaurea* Diversity: Potential Nutritional Supplement. Malaysia Technology Expo (MTE) 2008. 21-23 February, PWTC, Kuala Lumpur. (Brochure).
- Khadijah, A.** and Salma, I. 2008. Contribution and potential of underutilized fruit. MARDI Science and Technology Exhibition (MSTE). 11-13 Nov 2008, MAEPS, MARDI, Serdang, Malaysia.
- Khadijah, A.,** Salma, I. and Raziah, M.L. 2007. Diversity of *Baccaurea* species in Malaysia. MARDI Science and Technology Exhibition (MSTE). 1-5 Sep. 2007. PERSADA, Johor Bharu.
- Khadijah, A.,** Salma, I., Muhammd Radzali, M. and Raziah, M.L. (2006). Mapping the distribution of *Nephelium* species in Malaysia. National Agrobiodiversity Conference, 1-2 Aug. 2006. Kuching, Sarawak.

#### **Popular Articles:**

- Khadijah, A.** dan Siti Sofiah, M. Pokok Buah Nadir: Tanaman Landskap Penyeri Laman. 2019. Agromedia, No. 52.
- Khadijah, A.** 2018. Rambut puteri: Rumpai pelbagai kegunaan. Agromedia, Bil 48.
- Khadijah, A.,** Muhammad Radzali Mispan dan Mohd Nor Faizal Ghazalli. 2016. Arboretum Buah-buahan Nadir Tarikan Taman Tropika Kenyir. Agromedia, Special edition NAC 2016.
- Khadijah, A.,** Muhammad Shafie Md Sah dan Salma Idris. 2016. Pelbagai Kegunaan Buah-buahan Nadir. Agromedia, Special edition NAC 2016.
- Khadijah, A.,** Muhammad Shafie Md Sah dan Salma Idris. 2016. Aroi-aroi: Buah-buahan nadir berpotensi dari Borneo. Agromedia, Special edition NAC 2016.
- Khadijah, A.,** Salma Idris dan Razali A. Rahman. 2014. Kerabat rambai: Buah nadir yang kurang dikenali. Agromedia. No. 44. pp. 48-52.

**Khadijah, A., Salma Idris dan Jamadon Bahari. 2009. Produk buah-buahan nadir berdaya maju: Sirap Kabung. Agromedia No. 21. pp. 34-37.**

**CO-AUTHOR**

Bil	Tajuk Penulisan dan Penerbitan	Sumber	Kategori	Tahun
1	<a href="#">Crop Wild Relatives in Malaysia: National heritage which are nearly extinct</a>	Agromedia Bil. 50 Keluaran khas SEAVEG 2019	Agromedia	2019
2	<a href="#">Effect of Growth Media on Seed Germination and Seedling Growth in Rambai (<i>Baccaurea motleyana</i>)</a>	Faizah Salvana A. R., Mohd Shukri M. A., Muhammad Najib O. G., Khadijah A. and Ariff M. (2019). Effect of Growth Media on Seed Germination and Seedling Growth in Rambai ( <i>Baccaurea motleyana</i> ). In Programme and Abstract Book 29th Malaysian Society of Plant Physiology Kota Kinabalu, Sabah, Malaysia. 27-29 August 2019. pp. 25.	Artikel Dalam Prosiding	2019
3	<a href="#">Effects of Two Different Types Rootstock on Grafting Success and Vegetative Parameters of <i>Baccaurea motleyana</i></a>	Malaysian Society of Plant Physiology Conference, 27-29 Ogos 2019, Kota Kinabalu, Sabah, Malaysia. MS 27.	Artikel Dalam Prosiding	2019
4	<a href="#">Ex situ conservation of traditional vegetables : safeguarding elite genetic resources for future breeding</a>	Ex situ conservation of traditional vegetables : safeguarding elite genetic resources for future breeding, SOUTHEAST ASIA VEGETABLE SYMPOSIUM (SEAVEG 2019), 9-11 July 2019	Kertas Seminar Teknikal	2019
5	<a href="#">RARE AND WILD FRUITS OF PULAU PANGKOR, PERAK, PENINSULAR MALAYSIA</a>	Pangkor Island Scientific Expedition 2017-18.	THE MALAYSIAN FORESTER 2019, 82 (1): 212 – 216	2019
6	<a href="#">Wild relatives of <i>Solanum melongena</i>: A study of distribution, characterisation &amp; ex situ conservation</a>	Southeast Asia Vegetable Symposium 2019, 9-11 July 2019, Melaka	Artikel Dalam Prosiding	2019
7	<a href="#">Baccaurea Motleyana Seed Germination as Affected by Desiccation</a>	Faizah Salvana A. R., Muhammad Najib O. G., Ariff M., Noor Camellia N. A., and Khadijah A. (2018). In Programme and Abstract Book International Scientific Conference on Indigenous Crop 2018, Kuching, Sarawak, Malaysia. 16-17 October 2018. pp. 56	Poster Konferens	2018
8	<a href="#">Kepelbagaian spesies buah-buahan liar dan nadir di Hutan Simpan Lepar, Pahang, Malaysia</a>	Laporan Teknikal Ekspedisi Mini Hutan Simpan Lepar, Pahang 2018. Jabatan Perhutanan Semenanjung Malaysia.	Kertas Seminar Teknikal	2018
9	<a href="#">Malaysian underutilised plant species for future and agricultural diversity</a>	International Food Science and Agrotechnology Conference (IFOSAC 2018), 7-9 Ogos 2018, Kuala Terengganu (m/s 19)	Kertas Seminar Teknikal	2018
10	<a href="#">MARDI MyGeneBank™ : Conservation of Recalcitrant Seeds</a>	COMSTech-PARC Workshop – Plant Genetic Resources and Genebank Operations Management System, 8-11 May 2018	Kertas Seminar Teknikal	2018
11	<a href="#">MyGeneBank™: Strategi pemuliharaan sumber genetik pertanian untuk masa hadapan</a>	Agrobiodiversiti di Malaysia III: Agrobiodiversiti untuk Pembangunan Sosioekonomi Negara. ISBN 978-967-936-657-0 (m/s 19-26)	Bab dalam Buku Ilmiah (dengan penyunting)	2018
12	<a href="#">Notes on the flora diversity of Asah Campsite, Tioman Island, Peninsular Malaysia</a>	Journal of Wildlife and Parks. Vol. 33 (in press). 2018.	Journal of Wildlife and Parks. 33:107-114	2018
13	<a href="#">Optimization of Culture Media Formulations for Micropropagation of <i>Lepisanthes fruticosa</i>.</a>	Zuraida Ab Rahman, Mohd Shukri Mat Ali, Mohd Norfaizal Ghazalli, Khadijah Awang and Ayu Nazreena Othman (2018). Optimization of Culture Media Formulations for Micropropagation of <i>Lepisanthes fruticosa</i> . Biosciences Biotechnology Research Asia. 15(1):51-58.	Jurnal Antarabangsa	2018
14	<a href="#">Preliminary Information on Seed Storage Behavior of <i>Baccaurea polyneura</i> (Jentik-jentik)</a>	International Scientific Conference on Indigenous Crops, 16-17 October 2018. Kuching, Sarawak	Kertas Seminar Teknikal	2018
15	<a href="#">Study the effect of media and explants on shoot induction of <i>lepisanthess fruticose</i>.</a>	Zuraida Ab Rahman, Ayu Nazreena Othman, Khadijah Awang, Mohd Shukri Mat Ali and Mohd Norfaizal Ghazalli. Study the effect of media and explants on shoot induction of <i>lepisanthess fruticose</i> . 6th Kuala Lumpur International Agriculture, Forestry and Plantation Conference (6th KLIAFP). Hotel Bangi-Putrajaya, Selangor, Malaysia. 24 - 25 April 2018. Pg 102-105.	Artikel Dalam Prosiding	2018
16	<a href="#">The Role of MARDI in Commercialization of Potential Indigenous Crops</a>	International Scientific Conference on Indigenous Crops, 16-17 October 2018, Kuching, Sarawak (m/s 31-32)	Kertas Seminar Teknikal	2018
17	<a href="#">Conservation and Utilization of Underutilized Fruits</a>	Mohd Shukri, M.A., Salma, I., Mohd Norfaizal, G., Khadijah, A. and Azuan, A.(2017). Conservation and Utilization of Underutilized Fruits, paper presented at 27th Malaysian Society of Plant Physiology Conference 2017 (MSPPC 2017), 21-23 August 2017, Pulau Springs Resorts, Johor (Oral)	Kertas Seminar Teknikal	2017
18	<a href="#">Conservation of Crop Wild Relatives (CWR) in Malaysia : Current Achievements</a>	State of The World's Plant Symposium 2017, 25-26 Mei 2017, Kew Garden, United Kingdom	State of The World's Plants Symposium 2017, Kew Garden, UK	2017
19	<a href="#">Optimization of Media Formulations for Shoot Initiation in <i>Lepisanthes alata</i>.</a>	Zuraida Ab Rahman, Mohd Shukri Mat Ali, Mohd Norfaizal Ghazalli, Khadijah awang and Azu Nazreena Othman. Optimization of Media Formulations for Shoot Initiation in <i>Lepisanthes alata</i> . THE 5th BIOTECHNOLOGY SYMPOSIUM. Pg 47 (SBV065). Kota Kinabalu, Sabah 15th – 16th November 2017,	Artikel Dalam Prosiding	2017
20	<a href="#">Pengeluaran Bahan Tanaman Buah-Buahan Nadir : Ke Arah Pengkomersilan Spesis Bernilai Tinggi</a>	Ariff M., Zul Helmy M.S., Mohd Shukri M. A., Mohd. Nor Faizal G., Khadijah A., Faizah Salvana A.R. dan Mohd Nor A. (2017)	Artikel Dalam Prosiding	2017

21	<a href="#">Perspectives on implementation of the Nagoya Protocol and the ITPGRFA</a>	Workshop for Nagoya Protocol and Plant Treaty National Focal Points in South and Southeast Asia, 27-31 Mac 2017, Los Banos, Filipina	Kertas Seminar Teknikal	2017
22	<a href="#">Promosi dan Jualan Bahan Tanaman Buah-Buahan Nadir oleh MARDI</a>	Persidangan Kebangsaan emindahan Teknologi 2017 (CONFERTECH), 14-16 November 2017, Johor Bahru, Johor, Malaysia	Prosiding Berwasit	2017
23	<a href="#">Collection, Handling and Quality Seed Processing of Crop Wild Relatives (CWR) for Ex Situ Conservation in Malaysia</a>	State of The World Plant Symposium, 11-12 May 2016, Kew Garden, London, United Kingdom	Kertas Seminar Teknikal	2016
24	<a href="#">Kesan Suhu Penyimpanan Berbeza ke Atas Kualiti dan Hayat Simpanan Ceri Terengganu (Lepisanthes Fruiticosa)</a>	Zaulia, O., Azhar, M.N., Joanna, C.L.Y., Nur Syafini, G., Siti Aisyah, A., Syed Abas, M., Razali, M., Mohd Shukri, M.A.I., Mirfat, A.H.S., Muhd Amin, R., Mohd Kamal, M.T., Mohamad Fikkri, A. H., Habsah, M., Zaipun, M.Z., dan Tham, S.L., Hamizan, A.J., Erny Sabrina, M.N., Siti Aisyah, M.N., Ahmad Hassan, S., Rosali, H., Nur Alianatul Azlia, A.Z., Dewi Jamaliah, K., Salma, I., Khadijah, A., dan Mohd Nor Faizal, G. 2016. Kesan suhu penyimpanan berbeza ke atas kualiti dan hayat simpanan ceri Terengganu (Lepisanthes fruiticosa). Poster NAC 2016, TH Hotel & Convension Centre, Terengganu, 4-6 Okt 2016.	Poster Presenter	2016
25	<a href="#">MyGeneBank: Strategi Pemuliharaan Sumber Genetik Pertanian untuk Masa Hadapan</a>	Persidangan Kebangsaan Agrobiodiversiti 2016 (NAC 2016): Agrobiodiversiti untuk Pembangunan Sosioekonomi Negara, 4-6 Oktober 2016, Kuala Terengganu	Kertas Seminar Teknikal	2016
26	<a href="#">Conservation of Indigenous and Tropical Fruit Crops in MARDI</a>	Seminar on Genetic Resources for Food and Agriculture, MTBIC MARDI, 6 Feb. 2014	Kertas Seminar Teknikal	2014
27	<a href="#">Capturing Mangifera Biodiversity Through Diversity Fair</a>	Crop for the Future-Underutilised Plant Species Symposium, 27-30 Jun 2011, Royale Chulan Kuala Lumpur	Artikel Dalam Prosiding	2011
28	<a href="#">Composition of Edible Fruits and Wild Trees in Pulau Tekak Besar, Tasik Kenyir, Hulu Terengganu, Malaysia</a>	Development of Taman Tropika Kenyir (TTK)	JTAFS (berwasit)	2011
29	<a href="#">Kerangka Kerja Sistem Pengurusan PGRFA di MARDI</a>	Draf untuk pembentangan JKPTI	Kertas JKPTI	2011
30	<a href="#">Traditional knowledge documentation of rare tropical fruit species in Malaysia.</a>	2nd International Symposium on Underutilised Plant Species, 27 June - 1 July	Artikel Dalam Prosiding	2011
31	<a href="#">Distribution and Diversity of <i>Baccaurea Motleyana</i> (Rambai) in Malaysia</a>	2nd National Conference on Agrobiodiversity Conservation and Sustainable Utilization, 11-13 May 2010, Promenade Hotel, Tawau, Sabah	Artikel Dalam Prosiding	2010
32	<a href="#">Distribution and Diversity of Mangifera soecies on fam in Malaysia</a>		JTAFS (berwasit)	2010
33	<a href="#">Geospatial agrobiodiversity information system (Geo-AgrobIS): A system architechture.</a>	Poster presented in National Agrobiodiversity Conference. 11-13 May 2010, Tawau, Sabah	Artikel Dalam Prosiding	2010
34	<a href="#">Kenyir Tropical Garden: An example of ex situ conservation of underutilized fruits.</a>	Poster presented in National Agrobiodiversity Conference. 11-13 May 2010, Tawau, Sabah	Artikel Dalam Prosiding	2010
35	<a href="#">National Strategies &amp; Action Plans for Agricultural Biodiversity Conservation &amp; Sustainable Utilization</a>	ISBN 978-967-936-555-9	Buku Ilmiah	2010
36	<a href="#">Pupor (<i>Baccaurea Ramiflora</i> Lour.): Neglected Underutilized Fruit</a>	2nd National Conference on Agrobiodiversity Conservation and Sustainable Utilization, 11-13 May 2010, Promenade Hotel, Tawau, Sabah	Artikel Dalam Prosiding	2010
37	<a href="#">AgrobIS: MARDI effort on sharing information of agriculture biodiversity</a>	Poster presented at Science Forum 09, "ICTs: Enabling Agricultural Science to Be a Social Endeavour". 17-18 June 2009, Wegenigen, Netherland	Artikel Dalam Prosiding	2009
38	<a href="#">AgrobIS: The Malaysian Agrobiodiversity Information System</a>	Paper presented at the Biosphere 2009: The International Conference on Biodiversity Informatics 1-3 June London UK.	Artikel Dalam Prosiding	2009
39	<a href="#">AgrobIS: The Malaysian Agrobiodiversity Information System.</a>	Paper presented at the Biosphere 2009: The International Conference on Biodiversity Informatics 1-3 June London UK.	Artikel Dalam Prosiding	2009
40	<a href="#">Domestication of Tampoi (<i>Baccaurea macrocarpa</i>)</a>	National Conference on New Crops and Bio-resources 2009, 15-17 December, 2009, The Royale Bintang Resort & Spa Seremban, Negeri Sembilan.	Artikel Dalam Prosiding	2009

41	<a href="#">Kawasan Yang Berpotensi Dijadikan Tapak Projek untuk Buah-buahan Biodiversity Menggunakan GIS</a>	Persidangan Teknikal untuk Kakitangan Sokongan 1 & 2 di MAEPS, Serdang Tahun 2009	Poster	2009
42	<a href="#">On-farm Conservation and Its Utilization of Asam Gelugur (<i>Garcinia atroviridis</i>) in Larut Matang and Selama District, Perak.</a>		Artikel Dalam Prosiding	2009
43	<a href="#">Agricultural Biodiversity Information System (AgrobIS)</a>	Paper presented at Majlis Sains No.135, 17 Julai 2008, MARDI Serdang	MARDI Report / MARDI Special Report	2008
44	<a href="#">MAGROBIS: MARDI Agrobiodiversity Information System.</a>	MSTE 2007 2-4 Sept 2007, Johor Bharu,	Artikel Dalam Prosiding	2007
45	<a href="#">Laporan Tinjauan Kepelbagaian Bio dan Alam Sekitar Tasik Kenyir 2007</a>		Laporan ke PTJ dan pengurusan MARDI	2007
46	<a href="#">On-farm diversity of Malaysian fruit species and their determining factors.</a>	Economic and Technology Management Review. Vol. 2: 23-43	ETMR	2007
47	<a href="#">Transformation of papaya with B-galactosidase gene via micro projectile bombardment</a>	13 th National Biotechnology Seminar, Nov 10-13, 2001, Penang, Bayview Beach Resort.	Artikel Dalam Prosiding	2001
48	<a href="#">Contribution of homegardens and orchards to on farm conservation of underutilized fruit species</a>	Proceeding of Second National Conference on Agrobiodiversity Conservation Sustainable Utilization, Promenade Hotel, Tawau Sabah 11-13th May 2010: 22-24	Artikel Dalam Prosiding	0
49	<a href="#">Information System for Agrobiodiversity Collections and Conservation</a>	Paper presented at Symposium of Biodiversity and National Development, 28-30 Mei 2008, Legend Hotel Kuala Lumpur.	Artikel Dalam Prosiding	0

## RESEARCH ACTIVITIES

### RESEARCH PROJECT UNDERTAKEN

#### As Project Leader

(1)

Title : Biodiversity and Evaluation of Rambai (*Baccaurea motleyana*) and Tampoi (*B. macrocarpa*) in Peninsular Malaysia

Date : 2006-2009

Position : Project Leader

Source : ScienceFund

Project No : RS1054SF10

Budget approved : RM 69,990.00

(2)

Title : Collection, Characterization and Evaluation of Two *Baccaurea* Species, *Baccaurea macrocarpa* (tampoi) and *B. motleyana* (rambai) in Peninsular Malaysia

Date : 2006

Position : Project Leader

Source : Short Term Grant

Project No : JP/RS/0042

Budget approved : RM 5,000.00

(3)

Title : Collection, Conservation, Characterization and Evaluation of



*Baccaurea* Species

Date : 2006  
Position : Project Leader  
Source : RMKe-10  
Project No : 2100300046  
Budget approved : RM 40,000.00

**Collaborator/Project Member**

(1)

Title : Peningkatan Penerokaan Buah-Buahan Baharu dan Produk Berkaitan untuk Jaminan Makanan, Nutrisi dan Perubahan Cuaca  
Date : 2016-2020  
Position : Collaborator  
Source : RMKe-11  
Project No : 21003004070001-2019  
Budget approved : RM 10 juta

(2)

Title : Collection of Crop Wild Relatives (CWR) in Malaysia  
Date : 2015-2018  
Position : Collaborator  
Source : RMKe-11  
Project No : 21003004070001-2019-B  
Budget approved : RM 547,753.98

(3)

Title : Discovery and validation of SSR markers for Durian from MARDI germplasms.  
Date : 2014-2017  
Position : Collaborator  
Source : NKEA  
Project No : KTTN01-1001-KSR999  
Budget approved : RM 198,200.00

(4)

Title : Biji benih dan germplasma dari sumber agrobiodiversiti sebagai sumber genetik  
Date : 2015  
Position : Collaborator  
Source : RMKe-10 (Projek Mega)  
Project No : 2RS1001115  
Budget approved : RM 400,000.00

(5)

Title : Ciri, sebatian kimia dan bioaktiviti daripada sumber buah-buahan

nadir  
Date : 2015  
Position : Collaborator  
Source : RMKe-10 (Projek Mega)  
Project No : P21003001470001  
Budget approved : RM 90,000.00

(6)  
Title : Pembangunan Teknik Krio Awetan dan Pemuliharaan Sumber Genetik Tanaman  
Date : 2013-2014  
Position : Collaborator  
Source : RMKe-10 (Projek Mega)  
Project No : 2RS1001115  
Budget approved : RM 125,000.00

(7)  
Title : Pembangunan produk berasaskan hasilan TTK  
Date : 2014  
Position : Collaborator  
Source : RMKe-10 (Projek Mega)  
Project No : 21003002720001-D  
Budget approved : RM 500,000.00

(8)  
Title : Inventori dan penerokaan agrobiodiversiti Tasik Kenyir  
Date : 2014  
Position : Collaborator  
Source : RMKe-10 (Projek Mega)  
Project No : 21003002720001-A  
Budget approved : RM 850,000.00

(9)  
Title : Conservation and Sustainable Use of Cultivated and Wild Tropical Fruit Diversity: Promoting Sustainable Livelihoods, Food Security and Ecosystem Services (UNEP/GEF)  
Date : 2009-2014  
Position : Project Member  
Source : UNEP/GEF  
Project No : NI 0062/10  
Budget approved : RM 2,002,770.00

(10)  
Title : Farmers' Documentation of Traditional Knowledge (TK) of Rare Tropical Fruit Species Diversity for Enhanced Use in Malaysia  
Date : 2010-2012  
Position : Project Member  
Source : Industrial funded

Project No : NARS107810  
Budget approved : RM 23,000.00

(11)

Title : Development of Kenyir Tropical Garden  
Date : 2009-2012  
Position : Project Member  
Source : Kerajaan Negeri Terengganu  
Project No : K/G 0004810  
Budget approved : RM 7,600,000.00

(12)

Title : Conservation and Use of Rare Tropical Fruit Species Diversity with Potential for Enhanced Use in Malaysia  
Date : 2006-2009  
Position : Project Member  
Source : Industrial funded  
Project No : NI 0070/10  
Budget approved : RM 270,000.00

(13)

Title : Agrobiodiversity Information System  
Date : 2006-2010  
Position : Project Member  
Source : Short Term Grant  
Project No : WRM 048  
Budget approved : RM 400,000.00

#### SEMINAR/WORKSHOPS/TALKS

Oral paper presented: Pengetahuan Tradisi Spesies Mangga (*Mangifera* L.). Seminar pemuliharaan & Pemerkasaan Pengetahuan Tradisi, 23-24 Mei 2014, PWTC, Kuala Lumpur.

#### COMMITTEE

Committee member of Bengkel Persediaan Mesyuarat 8<sup>th</sup> Governing Body Perjanjian Antarabangsa Sumber Genetik Tumbuhan Untuk Makanan Dan Pertanian (ITPGRFA), 2019

Committee member of Genebank Operation Advanced Learning (GOAL), 2018

Committee member of MARDI Green Campus, 2016-2018

Committee member of Genebank Management and Advanced Learning (GOAL), 2017

Committee member of Kg. Buku, Langkawi, 2017

Committee member of Seminar Kesedaran *International Treaty on Plant Genetic Resources for Food and Agriculture* (ITPGRFA), 2017

Committee member of Asian Seed Conservation Techniques Training Course, 2016

Committee member of A-BES 2014. Agrobiodiversity and Agroenvironment Symposium, 2014

Committee member of Bengkel Penyediaan Strategi dan pelan Tindakan Kebangsaan Kepelbagaian Biologi Pertanian, 2006

Committee member of World Food Day (WFD), 2004

## SCIENTIFIC EXPEDITION

Hutan Simpan Lepar Scientific Expedition 2018 (Jabatan Perhutanan Semenanjung Malaysia).

Pulau Pangkor Scientific Expedition 2017 (Vale Malaysia).

Tioman Island Inventory with Malayan Nature Society (MNS) 2014.

Sungai Dusun Inventory 2015 (PERHILITAN Malaysia).

Hulu Terengganu Expedition 2007 (MARDI).

## MEMBERS OF SOCIETY

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### Society

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Member of the Malaysian Society of Plant Physiology (MSPP) (<http://www.mspp.org.my>)

Member of the Genetic Society of Malaysia (PGM) (<http://www.pgm-my.org>)