

MAISARAH MOHAMAD SAAD



Malaysian Agricultural Research and Development Institute (MARDI)

Seberang Perai Research Station, 13200 Kepala Batas,

Pulau Pinang, Malaysia

+6(013)267 1264

mysara@mardi.gov.my

Education and Qualification

2015-2017	Louisiana State University (LSU) Master of Science in Entomology
2002-2005	Universiti Putra Malaysia (UPM) Bachelor of Science (Hons)- Bioindustry (Major: Pest Management)

Professional Experience

1. Position	Research Officer, Q48 (November, 2007-current) Malaysian Agricultural Research and Development Institute (MARDI)
Address	Seberang Perai Research Station, 13200 Kepala Batas, Pulau Pinang, Malaysia
Task	<ol style="list-style-type: none">i. Responsible to conduct the R&D for rice insect pestsii. Responsible for the preparation of laboratory testing schedules and to ensure its effective implementation to meet commercial needs of the group.iii. Responsible for the proper implementation of the good Laboratory Practiceiv. Mainly involve in administration work; letter and memo draft for department.v. Involve in administration of ISO file for department.vi. Facilitate and manage program or workshop for department (Extention work)

Research Projects /Experience

2019	Pembangunan sistem pengeluaran varieti padi terpilih bagi menangani perubahan cuaca (RMK11- Development Project) - Collaborator
2017-current	Pembangunan dan Peningkatan skala padi hibrid dan inbred untuk meningkatkan

- SSL negara (RMK11 – Development Project)
 - Project member
- 2015-2017**
 Graduate student, Louisiana State University
 Thesis title: *Role of varietal resistance in managing the rice water weevil, a major insect pest of Louisiana rice*
- 2014-2016**
 Introgression of Bph3 gene Controlling Brown Planthopper Resistance into Malaysia Elite Rice Varieties Using Marker Assisted Breeding Approach (BT0.1.14)
 - Collaborator
- 2010-2014**
Pengurusan Perosak dan Penyakit (RMK10-Projek Mega)
 - Subproject Leader
- 2013-2014**
 The Detection of Plant Diseases (Tungro, CMV, PRSV and Antracnose) using Nanobiosensor Technology (21003001210001-A)
 - Collaborator
- 2013-2014**
 Toxicology and Insecticide Resistance Monitoring of Brown Planthoppers Collected from Major Granary Areas (JP-RI-0362)
 - Collaborator
- 2012-2013**
 Efficacy of *Beauveria bassiana* and *Hirsutella citriformis* as a Biological Control Agent against the Brown planthopper, *Nilaparvata lugens* Stal. In Rice Ecosystem in Malaysia (RI3.1.3)
 - Project Leader
- 2010-2012**
 Development of Management Package for Major Pests and Disease in Aerobic Rice
 - Project Leader
- 2009-2012**
 Improvement of the Potential Upland Rice Yield in Sarawak (TF:RI2.1.2.2)
 - Collaborator
- 2009-2012**
 Discovery and Validation of QTL Linked Marker of Economically Important Traits in Rice Breeding (BT0.1.7)
 - Collaborator

Publications

Book

Maisarah, M.S., Badrulhadza, A, Siti Norsuha, M., Chong , T. V, Allicia, J, Kogeethavani, R., Mohd Fitri, M. dan Azmi, M. (2014). Buku Poket Perosak, Penyakit dan Rumpai Padi di Malaysia. Serdang, MARDI

Saad, A., Yahaya, H., Azmi, M., Sariam, O., Badrulhadza, A., Siti Norsuha, M., dan **Maisarah, M.S.** (2012). Pengurusan Perosak Bersepadu Tanaman Padi ke Arah Pengeluaran Berlestari. Serdang: MARDI

Chapter

Maisarah, M. S., Azmi, M. and Yahaya, H. (2013). Bab 12. Pengurusan Perosak: Prinsip dan konsep. Teknologi Pengeluaran Padi dan Tanaman Industri. Rujukan KPSL MARDI 2013.

Badrulhadza, A., **Maisarah, M.S.** and Nik Mohd Noor, N. S. (2012). Bab 7. Pengurusan Serangga Perosak Padi. Buku: Pengurusan Perosak Bersepadu Tanaman Padi ke Arah Pengeluaran Berlestari. Serdang. MARDI

Journal

Kannan M, **Saad MM**, Talip N, Baharum SN, Bunawan H. 2019. Complete genome sequence of *Rice tungro bacilliform virus* infecting Asian rice (*Oryza sativa*) in Malaysia. *Microbiol Resour Announc* 8:e00262-19. <https://doi.org/10.1128/MRA.00262-19>.

Mohamad Saad, M., Rahaman, M.M., and Stout, M. J. (2018). Varietal Resistance against the rice water weevil in field and greenhouse studies. *Environmental Entomology*, 47(2), 388-395.

Maisarah, M.S. and Habibuddin, H. (2018). Assessment of advanced Malaysian varieties for resistance to the brown planthopper (*Nilaparvata lugens* Stal.). *Journal of Tropical Agriculture and Food Science*, 46(2), 127-136.

Bernaola, L., **Mohamad Saad, M.**, Villegas, J. And Stout, M. (2018). Control of South American Rice Miner using Chlorantraniliprole seed treatments in rice, 2017. *Anthropod Management Tests* 43(1), tsy056.

Elixon, S., Asfaliza, R., Othman, O., Siti Norsuha, M., **Maisarah, M.S.**, Allicia, J., and Shahida, H. (2017). Evaluation on yield, yield component and physico-chemicals of advanced rice lines. *Journal of Tropical Agriculture and Food Science*, 45(2), 131 -143.

Salam, F., Puat, N.H.A., Rahman, G.A., Ramli, S.N.M., Mohamed, K.A., Kadir, A.A.A., Azmi, A., Masarudin, M.F., **Mohamad Saad, M.**, Ishak, Z. And Chan, C.W. (2016). Comparative study of pesticides analysis using enzyme inhibition sensor and gas chromatography methods. *Procedia Chemistry*, Vol. 20, 33-39 pp.

Maisarah, M. S., Habibuddin, H., Elixon, S., Amirrudin, M., Mohamad Najib, M.Y. and Asfaliza, R. (2014). Penilaian Tahap Kerintangan Baka padi Berpotensi terhadap Populasi Benah Perang dari Lokaliti Berbeza di Semenanjung Malaysia. *Jurnal Teknologi (Science & Engineering)* 70:6(2014), 37-40

Elixon, S., Azlan, S., Zainudin, H., Saad, A., Alias, I., Othman, O., Muhammad Naim Fadzli, A.R., Muhamad, H., Asfaliza, R., Mohamad Najib, M.Y., Nurkhairani, A.B., Amirrudin, M., **Maisarah, M.S.**, Shahida, H. and Siti Norsuha, M. (2012). MR253: New rice varieties resistant to blast disease and suitable for planting on marginal soil. *Buletin Teknologi MARDI*, Bil. 1. p. 23 – 31. Serdang: MARDI.

Proceeding

Maisarah, M.S. and Habibuddin, H. (2013). Tahap Kerintangan Varieti adi Berpotensi MARDI terhadap Populasi

Benah Perang dari Beberapa Lokaliti di Semenanjung Malaysia. In Proc. Persidangan Padi Kebangsaan 2013, 10-12 Disember 2013, Sunway Carnival Convention Centre, Pulau Pinang

Poster

Maisarah, M.S. dan Erwan Shah, S. (2019). Vision manipulation: Eco-friendly approaches for stored rice insects pests control. Poster presented at MARDI Science and Technology Exhibition 2019 (MSTE 2019).

Amirrudin, M., Elixon, S., Asfaliza, R., Shamsul Amri, S., Mohd Bahagia, A.G., Mohd Solihen, J., Rahiniza, K., Kogeethavani R., Siti Norsuha, M., Mohd Fitri, M., **Maisarah, M. S.**, Dilipkumar, M., Erwan Shah, S., Muhammad Naim Fadzli, A. R., Shajarutulwardah, M.Y., Nur Atiqah, M.K., Wahid, S. (2019). MARDI Sebernas 307: The best paddy variety a farmer can get. Poster presented at MARDI Science and Technology Exhibition 2019 (MSTE 2019).

Mohamad Bahagia, A.G., Mohd Shahril Firdaus, A.R., Zuraida, A. R., Khairun Hisam, N., Zulkifli Ahmad, S., Muhammad Fairuz, M.Y., Siti Norsuha, M., **Maisarah, M. S.**, Kogeethavani, R., Amirrudin, M. (2019). New faced of MR219 variety with super resistant character. Poster presented at MARDI Science and Technology Exhibition 2019 (MSTE 2019). Poster presented at MARDI Science and Technology Exhibition 2019 (MSTE 2019).

Erwan, S., **Maisarah, M.S.**, Mohd Fitri, M. and Nur Atiqah, M.K. (2019). Relative efficacy of insecticides in the management of rice gall midge, *Orseolia oryzae*. Poster presented at MARDI Science and Technology Exhibition 2019 (MSTE 2019).

Maisarah, M.S. dan Nur Atiqah, M. K. (2019). Genotip padi (*Oryza sativa*) rintang ulat pengorek batang sebagai sumber baikbaka padi di Malaysia. Poster presented at Seminar Kebangsaan Teknologi Pertanian Tepat Padi 2019 (TEPad2019), 27-29 Ogos 2019, Hotel Ixora, Pulau Pinang.

Maisarah, M. S. and Hanisa, H. (2018). Food and reproduction preferences of rice weevil, *Sitophilus oryzae* L. To different rice types in Malaysia. Poster presented at MARDI Science & Technology Exhibition (MSTE 2018), 8–10 October 2018

Maisarah, M. S. and Habibuddin, H. (2012). Abundance of brown planthopper, *Nilaparvata lugens* and natural enemies in varieties with different level of resistant. Poster presented at International Symposium on Insects, 3-5 December 2012, Mines Wellness Hotel, Kuala Lumpur

Teaching Experience

Nov. 14, 2016 ENTM 7008 Agroecology (Dr. Jeffrey A. Davis) 45-minute lecture
Topic: Ecological Engineering as an Agroecology Approach for Asian Rice Farmers: The Way Forward

Conferences and Presentation

Conferences

- Seminar Kebangsaan Pertanian Tepat Padi 2019 (TEpad2019), August 27-29, Hotel Exora, Pulau Pinang
- Padi Kebangsaan 2017 ???
- The 91st Annual Meeting of the Southeastern Branch of the Entomological Society of America, March 12-15, 2017 Sheraton Hotel Memphis, Tennessee

- The XXV International Congress of Entomology (ICE 2016), September 25-30, 2016 Orlando, Florida

Presentation

- **Title:** Assessment of rice varieties grown in Louisiana for resistance to the rice water weevil, *Lissorhoptus oryzophilus* Kuschel (Coleoptera: Curculionidae)
Venue and date: The 91st Annual Meeting of the Southeastern Branch of the Entomological Society of America, March 12-15, 2017 Sheraton Hotel Memphis, Tennessee
- **Title:** Resistance Categories in Louisiana Rice Varieties to the Rice Water Weevil, *Lissorhoptus oryzophilus* Kuschel (Coleoptera: Curculionidae)
Venue and date: The 7th Annual Entomology Graduate Student Symposium, October 21, 2016, Life Science Annex Auditorium and Atrium, Louisiana State University

Achievement/ Award

- Silver medal for Knowledge Category for MSTE 2019
- Gold medal for Innovation Category for MSTE 2019 – Collaborator
- Silver medal for Innovation Category for MSTE 2019 - Collaborator
- Bronze medal for Knowledge Category for MSTE 2019 - Collaborator
- Bronze medal for Knowledge Category for MSTE 2018
- Silver medal for Knowledge Category for MSTE 2018 - Collaborator
- 1st award for the Best Poster for the Biodiversity and Conservation Conference 2014 organized by Malaysian Society of Applied Biology
- Silver medal for MTE 2013 organized by Malaysian Association of Research Scientists - Collaborator
- Silver medal for Knowledge Category for MSTE 2012
- Gold medal for Innovation Category for MSTE 2012 – Collaborator
- Excellent Service Awards (APC) 2011
- Gold medal for Innovation Category for MSTE 2011 – Collaborator

Grants

Grants

- Insecticide trial Grant from Advansia Sdn Bhd (2019)
- Re-evaluation of the effectiveness of ten ACM products listed in “Skim Insentif Pengeluaran Padi (SIPP)” (2018)
- Re-evaluation of the effectiveness of Bayer products listed in “Skim Insentif Pengeluaran Padi (SIPP)” (2018)
- Re-evaluation of the effectiveness of Syngenta products listed in “Skim Insentif Pengeluaran Padi (SIPP)” (2018)
- ScienceFund Grant from MOSTI (2012-2013)
- Pesticide trial (against apple snail) Grant from Bernas and Incotec (2011-2012)
- TechnoFund Grant from MOSTI (2009-2012)
- MARDI Short term Grant (2008)

Professional Body

- Entomological Society of America (ESA) 2015-present
- Entomological Society of Malaysia (ENTOMA) 2008-present
- Malaysian Plant Protection Society (MAPPS) 2008-present

- MARDI Senior Staff Association (MASSA) 2007-present
- Technical Working Group 1 (PADI)

Professional Skill

- Enzyme-Linked Immuno-sorbent Assay (ELISA)
- Polymerase-Change Reaction (PCR)
- Microsoft Office (Word, Excel, Powerpoint)
- SPSS
- SAS

Other Experiences and Outreach Activities

- Paddy Pavillion at MARDI 50th Years, 31st Oct. 2019 – 2nd Nov. 2019, MAEPS Serdang, Selangor
- Pest & Disease Clinic, 06th Oct. 2019 Ladang Merdeka Mulong, Kelantan
- Workshop on Rice Genetic Solutions for Climate Resilience and Value Added in ASEAN, organized by MARDI-IRRI, April 22-23, 2019, MARDI HQ
- Volunteer for AgMagic 2017, April 3-9, 2017 Louisiana State University
- School presentation, March 23, 2017 University Terrace Elementary School, Baton Rouge, LA
- School presentation, March 17, 2017 LSU Early Childhood Education Laboratory Preschool, Baton Rouge, LA
- School presentation, November 21, 2016 First United Methodist Church, Baton Rouge, LA
- Volunteer for Insect Expo, ICE 2016
- Volunteer for AgMagic 2016, April 11-17, 2016 Louisiana State University
- Workshop on Integrated Pest Management (IPM) in Rice (2014)
- LEGATO Kick-off Meeting and Workshop (2011)
- Workshop on Toxicology and Insecticide Resistance Determination in Rice (2011)

References

1. Dr. Asfaliza Binti Ramli - Malaysian Agricultural Research and Development Institute (MARDI)
 - Director, Rice Center
 MARDI Headquarters, Persiaran MARDI-UPM
 43400 Serdang, Selangor
aliza@mardi.gov.my
 +603-89437111 (Office)
2. Dr. Michael J. Stout - Department of Entomology
 - Head of Department
 404 Life Science Building
 Louisiana State University Agricultural Center
 Baton Rouge, LA 70803, USA
mstout@agcenter.lsu.edu
 +1(225) 456 7015 (Office)