

## Curriculum Vitae



### Mohd Asrul Bin Sani

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### Education

M.Sc. Biosystem Engineering, Universiti Malaysia Perlis (UniMAP) (2019)

B.Sc. (Hons.) Microbiology, Universiti Kebangsaan Malaysia (UKM) (2007)

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### Appointments Held:

2021 – current Head Station of MARDI Sintok, Bukit Kayu Hitam, Kedah, Malaysia.

2015 – 2021 Kedah State Deputy Director, MARDI Alor Setar, Kedah, Malaysia.

2008 – 2015 Research Officer, Plant Breeder, Horticulture Research Centre, MARDI Sintok, Sintok, Kedah, Malaysia.

### Awards & distinctions:

- Silver award MSTE 2019: Morphological Characterization and SSR Analysis of Droop and Erect Mango cv. Harumanis (*Mangifera indica* L.).
- Gold award MSTE 2017: Cross amplification SSR markers: A cost effective approach for fingerprinting of understudy *Mangifera* species.
- Bronze award MSTE 2017: Fast and accurate approach for identification of selected commercial Mango varieties.

### Recent Research Projects:

- Study on development of new varieties that are resistant to diseases and high quality for domestic and export market through conventional breeding (21003004050001-2019-A)
- Study on development of new varieties that are resistant to diseases and high quality for domestic and export market through conventional breeding and biotechnology (21003004050001-2018-B)
- Validation of DNA fingerprinting for selected commercial mango varieties (TS1.1.16)
- Yield and quality improvement of mango, mangosteen and durian (21003004050001-2017-D)
- Study on development of new varieties that are resistant to diseases and high quality for domestic and export market through conventional breeding, molecular assisted analysis and genetic engineering (21003004050001-B)
- Selection for High Yield and Good Quality Fruits of Somaclonal Mesta and Mangosteen (*Garcinia mangostana* L.) Variants (Science Fund MOSTI: RH5027SF10)

**Publications:** 1 Book and 68 Articles/Research Papers

## **Recent Peer Reviewed Publications**

1. Ahmad Hafiz Buniamin, Mahmad Noor Jaafar, Mohd Asrul Sani and Hartinee Abbas. (2020). Growth Performance of Different Mango (*Mangifera indica* L.) Varieties as Rootstock for Harumanis Planting Material Production. *Journal of Tropical Plant Physiology*. 12 (1) (2020): pp 49 - 56. ISSN No 1985-0484.
2. Mohamad Fakhrol Z.O., Mohd Asrul S., Hartinee A., Ahmad Hafiz B., Muhammad Aufa M.B. (2020). Study on the Harvesting Force of Mangosteen (*Garcinia mangostana* L.) and Mesta Based on Maturity Indexes. *Advances in Agricultural & Food Research Journal*, Vol.1, Issue 1: 1-6.
3. Mohd-Azhar, H., Sarip, J., Nur Sulastri, J., Salehudin, M.R., Norsyuhaida, A.S., Mohd Asrul, S., Razali, M., Noor Faimah, G., Muhammad Zulfa, M.R. and Noraisah, R. (2020). Evaluation and selection of papaya hybrid tolerant to papaya dieback disease. Horticulture Technical Report, 2018: 11-18
4. Muhammad Afiq, T. A., Mohd Asrul, S. Salehudin, M. R., Ullia, I., Razali, M., Johari, S., Musanif, G. (2020). A Preliminary Study on Self-Incompatibility and The Need of Cross Pollination on 'Musang King' Durian (*Durio zibethinus*) for Fruiting. Technical Report Horticulture Research Centre 2018, pp. 26-29.
5. Shahril Ab Razak, Nor Helwa Ezzah Nor Azman, Siti Norhayati Ismail, Muhammad Fairuz Mohd Yusof, Muhammad Afiq Tajol Ariffin, Zul Helmey Mohamad Sabdin, Muhamad Hafiz Muhamad Hassan, Khairun Hisam Nasir, Mohd Asrul Sani & Norzihan Abdullah. (2019). Assessment of diversity and population structure of mango (*Mangifera indica* L.) germplasm based on microsatellite (SSR) markers. *Australian Journal of Crop Science*, 13(2): 315-320.
6. Mohd Asrul, S. (2018). Variation of Mango cv. Harumanis (*Mangifera indica* L.) Based on Morphological Characteristics and Molecular Markers. Universiti Malaysia Perlis, Malaysia.
7. S., Mohd Asrul, A., Hartinee, M. B., Abd Ghaffar, & M. N., Jaafar. (2018). Morphological Characterisation of Harumanis Mango (*Mangifera indica* Linn.) in Malaysia. *International Journal of Environmental & Agriculture Research*, 4(1): 45-51.
8. Hartinee Abbas, Zuraida Ab Rahman, Muhamad Hafiz Muhamad Hassan, Mohd Ridzuan Mohd Daud, Wan Mahfuzah Wan Ibrahim, Zul Helmey Mohamad Sabdin, Muhammad Afiq Tajol Ariffin, Nor Dalila Nor Danial, Mohd Asrul Sani dan Ahmad Hafiz Buniamin. (2018). Potential of commercial fig cultivation in Malaysia. *Buletin Teknologi MARDI, Bil. 14(2018): 57 – 68*
9. Muhammad Afiq, T. A., Mohd Asrul, S. Salehudin, M. R., Ullia, I., Razali, M., Johari, S., Musanif, G. (2018). A Preliminary Study on Self-Incompatibility and The Need of Cross Pollination on 'Musang King' Durian (*Durio zibethinus*) for Fruiting. ISBN 978-967-14943-8-7. *Transaction of Persatuan Genetik Malaysia*, 8: pp. 35-37.
10. Mohd Azhar, H., Johari, S., Nur Sulastri, J., Salehudin, M. R., Norsyuhaida, A. S., Mohd Asrul, S., Razali, M., Noor Faimah, G., Zulfa, R. and Noraisah, R. (2018). Evaluation and selection of papaya hybrid tolerant to papaya dieback disease. In *MARDI Science and Technology Exhibition 2018*, pp. 38-39.
11. Mohd Azhar, H., Johari, S., Nur Sulastri, J., Salehudin, M. R., Norsyuhaida, A. S., Mohd Asrul, S., Razali, M., Noor Faimah, G., Zulfa, R. and Noraisah, R. (2018). New papaya hybrid tolerant to papaya dieback disease. In *International Plant Breeding Conference 2018, 13-15 November 2018, Bangi, Selangor*: 106
12. Mohd Asrul, S., Ahmad Hafiz, B., Hartinee, A., Mohd Azhar, H. and Mohd Fairuz, N. 2015. Fruit Quality Evaluation of Selected *Nephelium ramboutan-ake* Accessions in MARDI Sintok. 11th Malaysia Genetics Congress, 11-12 August 2015, Perdana University, Selangor, Malaysia.
13. Muhammad Afiq, T. A., Hartinee, A., Muhammad Hafiz, M. H., Mohd Ridzuan, M. D., Zul Helmey, M. S., Nor Dalila, D., Ahmad Hafiz, B. Mohd Asrul, S. and Wan Mahfuzah, W.I., Robin L. (2017). Preliminary study on leaf growth of *Ficus carica* var. Brunswick planted at open field system. *Transaction Malaysian Society of Plant Physiology*.
14. Muhammad Afiq, T. A., Mohd Azhar, H., Mohd Asrul, S., Nor Dalila, N. D. and Johari, S. (2016). Study on fruit quality of variants of *Mangifera indica* L. var. 'Chok Anan' at MARDI. ISBN 978-983-2408-47-5. *Transaction of Persatuan Genetik Malaysia*. 3: pp. 185-187.
15. Mohd Asrul Sani, Hartinee Abbas, Ahmad Hafiz Buniamin, Mohd Fairuz Nordin dan Hamzah Abdul Rashed. 2015. Potensi durian hibrid MARDI: MDUR 88 (*Potential of MARDI's Hybrid Durian: MDUR88*). *Buletin Teknologi MARDI, Bil. 8 (2015):71-79*.