



Rohayu Ma'Arup

Dr.

EDUCATION



BSc (Hons)(UM)



MSc.(UKM)



PhD. (The University of Sydney)

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EXPERTISE

Field

Agriculture

Expertise

Plant Breeding & Genetics

Specialization

Plant Breeding in cereals

Microspore culture

Doubled haploid

RESEARCH CONTRIBUTION & ACHIEVEMENT

My research interest in developing crops cultivars that increase tolerances to abiotic and biotic factor without compromise the yield factor. This field of research required detail understanding of genetic diversity, physiology mechanism and application of plant breeding technique for crop improvement. Development of crop improvement is necessary in response to climate changes that affects a variety of factors associated with drought and increasing salinity especially in coastal area soil. Rice is one of the main crops that I focus on without compromise the other horticultural crops. There are two strategies that I look forward to overcome food security issue in Malaysia; Which are genetic solution and agronomic solution. Plant breeder should maximize the tools and diversity that we have and we share with other countries for the sake of food sustainability. Collaboration and team work is my main strategy to make a difference in food security issue. My past research experienced that I have explored are double haploid lines production, microspore culture, crossing and selection genotypes in multi environment trials. These past research experienced would be benefits for future research development regards food security issue. The latest research that I involve are; (1) Understanding roles of NAC transcription factors in the regulation of salt stress condition in Malaysian Rice Cultivar, (2) Nutritional quality and varietal improvement of Cucurbitaceous vegetable crops through biofortification and reciprocal breeding

PROFESSIONAL MEMBERSHIP

- ⌚ Persatuan Genetik Malaysia (<https://www.pgm-my.org/>)

NETWORKING & RESEARCH COLLABORATION

- ⌚ Malaysian Agricultural Research and Development Institute, Malaysia
- ⌚ Universiti Sultan Zainal Abidin (UNISZA)
- ⌚ University of Malaya
- ⌚ The University of Sydney
- ⌚ MARDI Jerangau, Pahang
- ⌚ MARDI Kelantan

PUBLICATION

- ⌚ Scopus ID : 55353942600
- ⌚ ORCID ID : <https://orcid.org/0000-0002-5185-6445>
- ⌚ Researchgate : Rohayu Ma'arup
- ⌚ Google Scholar : Rohayu Ma'arup

