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EXPERTISE

Genetics (Gene Study)

Dr. Christina Yong is currently holding the position of Senior Lecturer at the Department of Biology, Faculty of Science. Her research interests include plant genetics where function and structure of plant genes are emphasized. Her work involves transcriptomic sequencing of various organisms to understand gene expression and function. She is also interested in the development of species specific genetic markers and population genetic studies. Major sponsors of her research include Fundamental Research Grant Scheme (FRGS) and Putra grant (IPB).

CURRENT RESEARCH INTEREST:

- Molecular aspect of the *Hibiscus sabdariffa* on genes involved in the biogenesis of anthocyanins are studied. Genes involved in the biosynthesis of anthocyanins in *Hibiscus sabdariffa* are isolated and functional analyses are conducted.
- Transcriptome profiling of *Pseudomonas fluorescens* during the inhibition of *Fusarium oxysporum* are being studied to identify candidate genes contributing to the antagonistic potential in *Pseudomonas fluorescens*.
- Comparative transcriptomic analyses are being carried out in the long-tail macaques (*Macaca fascicularis*).
- Development of species specific marker for orchid species is also progressing. These markers will be useful for large scale screening of orchid species with high accuracy and short time.

LINK TO POSTGRADUATE FIELD OF STUDY:

Functional genomics

ADDITIONAL INFORMATION: