



SAARANI VENGADESEN

Australia Malaysia Virtual PhD
Internship Program - 2025

Implementation of Cartagena
Protocol in the New Breeding
Techniques era: Challenges in
Principles and Legislations

Thesis Outline

Gene editing is transforming agriculture, but its regulation under the Cartagena Protocol remains unclear. This study contrasts the Precautionary Principle and a Principle-Based Approach, recommending flexible, science-based governance.

Supervisors & Institutions

Dr Mohammad Firdaus Abdul Aziz
Universiti Malaya

Professor Dr Michael G.K. Jones
Murdoch University

Future Goals

Advance research on regulating new breeding techniques, engage regionally and globally on biotech policy, and build capacity through mentorship and science communication for sustainable food systems.

AMVPIP Experience

My AMVPIP internship was an enriching experience that significantly advanced my PhD journey. Working under Australian supervision added great value to my thesis and strengthened its global relevance. The guidance I received boosted my confidence as a scholar, equipping me to engage in regional and international debates on crop biotechnology regulation. Beyond research, the AMVPIP network proved invaluable, offering strong professional connections and future collaboration opportunities.

Key Takeaways

- 1) Strengthened research rigor and methodology
- 2) Enhanced scholarly confidence and global outlook
- 3) Professional growth and future impact