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EXPERTISE

Plant Pathology/ Micology

Dr. Nur Ain Izzati Mohd Zainudin is currently a Senior Lecturer at the Department of Biology, Faculty of Science, UPM. Her research is centered on mycology and phytopathology, which emphasizes on plant diseases caused by Ascomycetes fungi. The works involve on fungal pathogens particularly *Aspergillus*, *Bipolaris*, *Colletotrichum*, *Curvularia*, *Fusarium* and *Lasidiopodia* species that are causing destructive diseases on crop plants, animals and human. She is also interested in biocontrol study that use of biocontrol agents as an alternative to the synthetic, chemical fungicides that are presently used to control plant pathogens. Major sponsors of her research include Fundamental Research Grant Scheme (FRGS) and Putra Grant.

CURRENT RESEARCH INTEREST:

- **Biodiversity of Ascomycetes fungi:**

Study is focused on isolation and identification of Ascomycetes fungi isolated from various plant samples and soils based on morphological, biological, physiological, genetic and molecular characterization.

- **Etiology and biocontrol agents of plant diseases:**

Study is focused on characterization and pathogenicity test of Ascomycetes fungi associated with fruit rot and leaf spot disease of various crops samples. Biocontrol studies of plant pathogens using microfungi such as *Trichoderma* species.

- **Plant-pathogen biology:**

Research studies are focused on the role of polyketide synthase-encoding genes of *Cochliobolus miyabeanus* (ana-morph, *Bipolaris oryzae*) causal agent of brown leaf spot in rice.

LINK TO POSTGRADUATE FIELD OF STUDY:

- Biodiversity and Conservation of Natural Resources
- Plant Pathology
- Microbiology

ADDITIONAL INFORMATION:

Link to research website

- https://www.researchgate.net/profile/Nur_Ain_Izzati_Mohd_Zainudin
- <https://ainizzatiblog.wordpress.com/>