## SENARAI TAJUK DISERTASI BACELOR (PRT4959) SEMESTER 1 SESI 2023/2024 JABATAN PERLINDUNGAN TUMBUHAN

BIDANG	NAMA PENSYARAH	TAJUK PROJEK
ENTOMOLOGI		<ol> <li>Determination of companion plants for control of white flies</li> <li>Effectiveness of different homemade biopesticide as larvicide</li> </ol>
		<ol> <li>Checklist of insect pests of coconut nursery</li> <li>Identification of bacteria for insect pest control</li> <li>Evaluation of fungi for termite control</li> <li>Evaluation of fermented plant extracts for insect pest control</li> </ol>
		<ol> <li>Synergistic activity of <i>Piper samertosum</i> and <i>Azadirachtin indica</i> crude extract against brown planthopper</li> <li>Combination of <i>Piper samertosum</i> and <i>Azadirachtin indica</i> crude extract against brown planthopper</li> <li>Evaluation of entomopathogenic fungi formulation against bagworm and oil palm pollinator</li> <li>Insecticidal effect of insect growth regulator towards <i>Metisa plana</i></li> </ol>
		<ol> <li>Evaluation of plant extracts on fall armyworm (FAW), pest of corn</li> <li>Feeding preference of Rice Yellow stem-borer (YSB) under glasshouse condition</li> <li>Biodiversity of insect pest in pineapple plantation</li> <li>Feeding preference of apple snail</li> </ol>
		<ol> <li>Diversity and abundance of predatory insects on corn field at Selangor</li> <li>Evaluation of beneficial plants as hosts for natural enemies of oil palm bagworms</li> </ol>
		<ol> <li>Application of an insect growth regulator (IGR) to control <i>Coptotermes</i> spp. Blattodea: Rhinotermitidae) infestation in oil palm plantation</li> <li>Efficacy of Rhamnolipid Biosurfactant as biopesticide against <i>Coptotermes</i> spp. Blattodea: Rhinotermitidae) in oil palm plantation</li> </ol>

	1. 2. 3. 4.	The role of plant root exudate toward soil nematode Nematode diversity on different agricultural field legacy The role of plant root exudates in tri-trophic interactions Efficacy of insect-parasitic nematode for pest control
PATOLOGI	1. 2. 3. 4.	Effects of herbal plant extracts/biostimulants for the control of plant pathogens Comparative genomic analysis of virulent factors/resistant factors in Ganoderma-oil palm pathosystem Cloning of defense genes from oil palm Efficacy of external application of dsRNA molecules on fungal diseases
	1. 2.	Detection and characterization of Chrysanthemum stunt viroid (CSVd) Characterization of Phytoplasma from vegetables using molecular diagnostic tools
	1. 2.	Identification and control fungal diseases of pineapple Identification and control bacterial diseases of pineapple
	1. 2. 3.	Biological control of oil palm basal stem rot (BSR) disease Detection of plant pathogenic fungi Assessment on the plant growth promoting activities of biological control agents
	1. 2.	Screening for the identification of potential biological control of fungal pathogen causing rice blast disease Application of chitosan treatment for the control of
	3.	postharvest fruit diseases caused by the fungal pathogen Identification and pathogenicity assays of plant pathogenic fungi associated with ornamental
	4.	plants and herbaceous plants Morphological characterization and genetic diversity of pathogenic fungi causing plant diseases
	1.	Mushroom cultivation: Evaluation of different media substrate
	2. 3	Mushroom cultivation: Evaluation of different spawn substrate Mushroom diseases: Morphological and molecular
	<u>J</u> .	identification
	1. 2.	Identification of Pantoea species associated with panicle blight disease of rice in Selangor Genetic diversity of <i>Pantoea stewartii</i> subspecies stewartii causing bronzing disease of jackfruit in Peninsular Malaysia
	3.	Characterization of Bacillus species causing trunk bulges of RRIM 3001 superclone rubber trees in Peninsular Malaysia

<ol> <li>Basal stem rot disease of oil palm: Evaluation of nanofertilizer and nanofungicides against <i>Ganoderma boninense</i></li> <li>Evaluation of antifungal activity of plant extracts against plant pathogenic fungi</li> <li>Biological control of weed</li> </ol>
<ol> <li>Molecular identification and characterization of viruses infecting landscape plants</li> <li>Molecular identification and characterization of viruses infecting vegetable plants</li> <li>Identification and in silico characterization of viruses using bioinformatic analysis of publicly available plant transcriptome</li> </ol>

Update : 7/7/2023