



UPM
UNIVERSITI PUTRA MALAYSIA
UNIVERSITY PUTRA MALAYSIA

FAKULTI PERTANIAN
FACULTY OF AGRICULTURE

فاكولتي قر تانين

**SENARAI TAJUK DISERTASI BACELOR PRT4959
(BAC. SAINS PERTANIAN & BAC. SAINS HORTIKULTUR)**

1. Bioprospecting of beneficial microbes to improve soil fertility.
2. Isolation and characterization of beneficial microbes from sewage.
3. Pathogenicity study of biosolids which used for Napier planting
4. Distribution of beneficial microbes with varying land use.
5. Characterization of beneficial microbes and nutrient content in fermented organic fertilizer.
6. Evaluation of beneficial soil microbes in soilless system.
7. Interaction of beneficial microbes with organic fertilizer.
8. Influence of Organic Amendments on Early Growth Performance of Napier Grass and Its Potential for Chromium Phytoremediation: A Pot Experiment
9. Influence of Microplastics on Early Growth Performance and Chromium Phytoremediation Potential of Napier Grass
10. An Integrated Image Processing and Artificial Intelligence Approach for Sensitive Heavy Metal Detection Using Protease Enzyme Assays
11. Role of Enriched Mixed Rhizobacteria in Enhancing Early Growth and Chromium Phytoremediation Efficiency of Napier Grass: Evidence from a Pot Study
12. Soil fertility index (SFI) study from selected vegetable farm for sustainable farming system.
13. Soil salinity effect on vegetable growth, yield and cost-benefit ratio study under urban farming condition.
14. Soil aluminum toxicity alleviation through calcium silicate application from selected acidic soil.
15. Kieserite fertilizer study on leaching and residual effect on sandy clay soil from Brownfield areas.
16. Different Combination Rates of Organo-Chemical Fertilizer on Nutrient Balance of Sweet Corn
17. Maximizing Yield Potential of Cassava Grown under Modified Potassium Fertilization Regime



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18. Strategic Use of Lime to Improve Soil Health and Crop Productivity
19. Leveraging Beneficial Microbes to Improve Soil Nutrient Availability
20. Enhancing Plant Nutrient Uptake and Yield Through Biostimulant Application
21. Understanding Organic Matter Decomposition for Sustainable Nutrient Supply in Soils
22. Isolation and Characterization of Plant Growth-Promoting Rhizobacteria (PGPR) and Their Effects on Early Growth of Selected Crop Plants
23. Isolation and Functional Characterization of Plant Growth-Promoting Rhizobacteria (PGPR) with Emphasis on Nutrient Solubilization and Plant Growth Promotion
24. Screening of Plant Growth-Promoting Rhizobacteria (PGPR) from Agricultural Soils and
25. Evaluation of Their Growth-Promoting Effects on a Model Crop
26. Comparison nitrogen release pattern between coated and non-coated urea in paddy cultivation
27. Nitrogen release pattern in soil incubation study
28. Evaluation of coated urea against performance and growth of paddy cultivation
29. Physicochemical characteristics of synthesized coated urea
30. Floristic Composition of Weed Community in plantation area
31. Effect of herbicide rates on oil palm weed management and soil chemical properties
32. Nitrogen Use Efficiency of Rice (*Oryza sativa* L.) under Controlled-Release Urea Fertilization
33. Ammonia Volatilization from Paddy Soils Following Controlled-Release Urea Application
34. Comparison of Standard Laboratory Analysis and Field Test Kits for Determining Soil Chemical Properties
35. Nitrogen Mineralization and Transformation in Soil Amended with Urea and Black Soldier Fly Frass
36. Influence of Urea Application Timing on Nitrogen Losses and Crop Performance
37. Nitrogen Transformation in Soil Following Urea Application under Different Soil Moisture Conditions



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38. Effect of Black Soldier Fly Frass Amendment on Urea-Induced Ammonia Volatilization from Soil
39. Promoting Biofertilizer Quality using Proline
40. Enhancing Rice Production in hydroponic system using formulated organo-mineral fertilizer produced from selected wastes Using Hydroponic System
41. Stimulating the Growth of Grain Corn in Acidic Soil Using Formulated Organo-mineral Fertilizer produced from Banana Pseudostem Extract
42. Comparison of Soil Moisture Retention under Conventional and Conservation Practices
43. Quantifying the Effect of Soil Bulk Density on Water Availability and Crop Water Use
44. Analyzing the Role of Organic Amendments in Improving Soil Water Holding Capacity
45. Effects of microplastic on soil physicochemical and morphological properties
46. Pedological assesment of continous versus rotational cropping system on soil physicochemical and morphological properties
47. Assesment of soil macrofauna under various agricultural land use
48. Effects of microplastic on soil macrofauna
49. Effect of Amino Acid–Based Foliar Fertilization on Leaf Nutrient Status and Chlorophyll Content of Durian Seedlings
50. Physiological and Nutritional Responses of Durian to Foliar-Applied Biological Products under Tropical Growing Conditions
51. Influence of Stimulate® Biostimulant on Root Development and Nutrient Uptake Efficiency of Young Durian Trees
52. Effect of Foliar-Applied Utrisha™ N on Nitrogen Status, Chlorophyll Content, and Vegetative Growth of Durian (*Durio zibethinus* L.)
53. Rice water as fertilizer
54. Climate change and oil palm response
55. Oil palm tree height and soil texture



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56. Oil palm rainfed irrigation system
57. Comparison of parasitoid abundance in organic and conventional vegetable farm
58. Parasitism rate of major crop pests by native parasitoids
59. Foraging behavior and floral preference of stingless bee
60. Checklist of insect pests of coconut nursery
61. Identification of bacteria for insect pest control
62. Evaluation of fungi for termite control
63. Evaluation of fermented plant extracts for insect pest control
64. Diversity and abundance of predatory insects on corn field at Selangor
65. Diversity and abundance of natural enemies on paddy field at Selangor
66. Influence of harvesting duration and supplementary feeding on the purify and quality of honey.
67. Diversity of insect pest in durian orchard
68. Evaluation of plant extract formulation on apple snail, pest of rice
69. Abundance of Fall armyworm (FAW) in selected corn field
70. Study of ants population in pineapple farm
71. Efficacy of a bio-rodenticide to control commensal rats (*Rattus norvegicus*) in urban areas.
72. Population and surveillance of *Coptotermes* spp. in urban areas.
73. Different inspection approaches of termites infestation in urban areas.
74. Screening plant extract compounds for nematocidal and nematostatic activity against plant-parasitic nematodes
75. Phenotypic characterization of tomato variety susceptibility to root-knot nematodes based on galling index and root damage ratings
76. The role of plant root exudates in plant-herbivore interactions



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77. Efficacy of insect-parasitic nematodes for pest control
78. The role of habitat complexity in regulating rodent populations within oil palm landscapes
79. Spatial and Temporal Usage of Artificial Perches by Predatory Birds for Biological Rodent Suppression in oil palm plantation
80. Evaluating the Efficacy of Universal Hunting Perches in Enhancing Ecosystem Services for Rodent Suppression in Rice Field
81. Comparative analysis of sticky trap color on the diversity of Hymenopteran
82. Assessing non-target effect of predatory mites on beneficial insect populations
83. Diversity of ladybugs in corn fields.
84. Effects of herbal plant extracts/biostimulants for the control of plant pathogens
85. Comparative genomic analysis of virulent factors/resistant factors in Ganoderma-oil palm pathosystem
86. Evaluating heat-tolerant microbes for biocontrol in a changing climate
87. Application of RNA interference (RNAi) technology for the control of plant fungal diseases
88. Detection and characterization of Chrysanthemum stunt viroid (CSVd)
89. Characterization of Phytoplasma from vegetables using molecular diagnostic tools
90. Biological control of plant diseases using antagonistic microbes
91. Identification and characterization of fruit crops diseases
92. Plant disease control efficacy using synthetic pesticides
93. Effect of Organic Amendments on the Suppression of Fungal Diseases in Plantation Crop Systems.
94. Preliminary Screening of Fungal Metabolites with Antifungal Activity.
95. Evaluation of Antagonistic Microorganisms Against Selected Fungal Pathogens of Economic Crops.



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96. Screening for the identification of potential biological control of fungal pathogen causing rice blast disease
97. Application of chitosan treatment for the control of postharvest fruit diseases caused by the fungal pathogen
98. Identification and pathogenicity assays of plant pathogenic fungi associated with ornamental plants and herbaceous plants
99. Morphological characterization and genetic diversity of pathogenic fungi causing plant diseases
100. Mushroom cultivation: Evaluation of different media substrate
101. Mushroom cultivation: Evaluation of different spawn substrate
102. Mushroom diseases: Morphological and molecular identification
103. Antimicrobial activity of seaweed extracts against *Phytophthora palmivora* isolated from durian stem canker disease.
104. Efficacy of cinnamon bark extract against selected phytopathogens.
105. Isolation and detection of *Fusarium oxysporum* f.sp cubense from banana.
106. Isolation and detection of *Pantoea* species from rice fields in Malaysia.
107. Basal stem rot disease of oil palm: Evaluation of nanofertilizer and nanofungicides against *Ganoderma boninense*
108. Evaluation of antifungal activity of plant extracts against plant pathogenic fungi
109. Evaluation of fungicides and biofungicides on chrysanthemum flower disease
110. Evaluation of chemical fungicides and biofungicides on vegetable diseases
111. Screening for resistance against selected viruses in major chilli cultivars
112. Molecular identification and characterization of viruses infecting vegetable plants
113. Identification and in silico characterization of viruses using bioinformatic analysis of publicly available plant transcriptome
114. Identification of viruses infecting pumpkin plants through a viromics approach



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115. Comparison of Jiffy Pellets and Conventional Growing Media on Seed Germination and Seedling Establishment of selected vegetables.
116. Response of Seed Germination and Early Seedling Growth to Different LED Light Treatments in Chilli.
117. Efficacy of coating in controlling postharvest rots of papaya fruit
118. Efficacy of 1-MCP in prolonging postharvest life of papaya fruit
119. Effect of Nutrient Concentration on Growth and quality of Golden Melon under hidroponic planting system
120. Effect of Cutting Type of Pitaya on root and shoot formation.
121. Growth responses of a new mutant *Zoysia japonica* toward abiotic factors
122. Screening of MOOVA for resistance potential to synthetic auxin inhibitors
123. Effects of Cutting Density and Planting Technique on Sweet Potato Growth and Yield in Polybags
124. Growth and yield performance of sweet corn as affected by biochar and biofertilizer application
125. Effect of silicon on hydroponically grown cucumber plants under salinity stress
126. Effects of silicon on hydroponically grown tomato under controlled environmental structure
127. Effect of different maturity of pineapples on the storage of minimally processed fruits
128. Effect of crown cutting on the quality of pineapples fruits during storage
129. Flowering Biology of Red Flower Durian Varieties (*Durio lowianus*) of Peninsular Malaysia.
130. Photosynthate Accumulation Study for Flower Induction in Selected Commercial Durian Clones (*Durio zibethinus*)
131. Micropropagation of banana cv. Tanduk
132. Micropropagation of fingerroot ginger.



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133. Optimization of KASP Genotyping Assays for Molecular Analysis of Coconut
134. Evaluation of KASP Genotyping Efficiency in Coconut (*Cocos nucifera* L.)
135. Impact of biochar amendments and fertilizers on growth and yield of peanut.
136. Optimization of growing media and biochar amendments for peanut production
137. Effects of vegetable intercropping on the yield and quality
138. Enhancing the quality of medicinal citrus through the biotic stress
139. Optimising Light Dimensions for Enhanced Biomass Production in Duckweed (*Lemna* spp.)
140. Modulation of Rubisco Carboxylation Kinetics in Rose Onion (*Allium cepa*) via Magnesium Complex Application
141. Yield and quality comparison of forage/pasture crop under different agronomy practices.
142. Yield and quality of selected minor industrial crops using different agronomy practices.
143. Effect of bio-organic fertilizer on rice.
144. Effect of local-based liquid fertilizer on selected crop.
145. Effect of the leaf powder and extract of *Sansevieria trifasciata* on growth and grain yield of transplanted rice
146. Enhancing Control Strategies for *Monochoria vaginalis* in Rice Fields Through Diverse Herbicide Modes of Action (MOA)
147. Nutrient profiling and antioxidant activity of the selected rare edible fruit of Peninsular Malaysia
148. The diversity and chemical compounds of the selected tropical medicinal plants
149. Ear to row selection in several grain maize populations for grain yield and quality traits
150. Evaluation of newly developed sorghum varieties at two harvest cycles



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151. Assessment of Rubber Tree Development as Affected by Different Soil Mineralization Formulations
152. Evaluation of Growth and Physiological Performance of Rubber Seedlings (*Hevea brasiliensis*) In Relation to Organic and Inorganic Soil Amendments
153. Water-Use Efficiency and Flowering Performance of *Costus woodsonii* Under Reduced Irrigation Regimes
154. Evaluation of Growth and Flower Yield of *Heliconia psittacorum* Under Different Shade Levels
155. Effects of Biochar and Plant Biostimulants on Growth and Yield of Bentong Ginger (*Zingiber officinale* Roscoe)
156. Effects of Combined Rabbit Manure and Burnt Rice Husk at Different Nitrogen Rates on Growth and Yield of Shallot (*Allium ascalonicum* L.).
157. Priming treatment for deteriorated grain seeds
158. Two stage seed drying protocols for storage
159. Effects of calcium nitrate on growth performance of Passion fruit seedling
160. Effects of enriched calcium carbide on vigour and growth of banana seedlings under salt stress conditions
161. The Influence of Palm Oil Mill Effluent (POME) Amendment on the Growth, Physiology, and Soil Chemistry under *Mucuna bracteata* Cultivation
162. Effect of POME Concentration and NPK Fertilizer Combinations on Growth, Yield, Shelf Life and Soil Chemical Properties of Cucumber (*Cucumis sativus* L.)
163. Evaluating the effectiveness of PadiEco application in improving rice farm management and decision making
164. Determination effectiveness combinations of aqueous extract biopesticides on *Spodoptera litura*
165. Public awareness on tree pest infestation and its role in urban tree conservation
166. Evaluating pest management practices for controlling pest in urban trees



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167. Characterization of functional cosmetic properties of Citrus hystrix leave
168. Antioxidant and Proximate analysis of Citrus hystrix leave
169. Optimization of antioxidant properties of Citrus hystrix leave
170. Drone seedling/fertilizing technology in rice cultivation
171. IoT-Based Monitoring System for Plant Growth Performance
172. Solar-Powered IoT System for Monitoring Pineapple Growth Under Assisted-Lighting Conditions
173. Optimization of Lighting and Nutrient Efficiency for High-Value Leafy Vegetables in a Plant Factory System
174. Effect of LED Light Spectrum on Growth and Yield of High-Value Leafy Vegetables in a Plant Factory System
175. Web-based GIS in knowledge information system for agriculture.
176. Site-specific weed detection using UAV and GIS application in paddy field.
177. Crop growth monitoring using UAV and GIS application.
178. Land Suitability Analysis for Rice Cultivation Based on Multi-Criteria Decision Approach through GIS.
179. Mobile apps development in agriculture application.
180. Geo-tagging application for durian plantation using UAV technology.
181. Phenotypic and genotypic characterization of wild rice diversity panel for disease resistance
182. DNA fingerprinting analysis of coconut varieties using SSR markers
183. Crop growth monitoring and control using IoT application in Micro Irrigation system for Pineapple
184. Evaluation of water efficiency for greenhouse rock melon based on precise irrigation water management
185. Predictive Control of Greenhouse Cooling Systems Based on Climate Forecasting



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186. Micro-Climate Prediction for Optimizing Water Use Efficiency in Greenhouses
187. Farmers' Knowledge, Attitude and Practices towards the IoT Technology Adoption in Malaysia
188. Digital Literacy toward IoT Technology Adoption among Youth Agropreneurs in Malaysia
189. Farmers' Knowledge, Attitude and Practices towards the Smart Farming Technology Adoption in Malaysia
190. Youth Perceptions towards Urban Farming Practices in Malaysia
191. Farmers' Acceptance towards the Organic Farming System among the Urban Community in Malaysia
192. Influence of TikTok and Instagram Literacy on Youth Agricultural Knowledge
193. Youth Digital Literacy and Trust in Online Agricultural Information
194. Digital and Climate-Smart Agricultural Literacy and Its Influence on Youth Adoption of Sustainable Farming Practices
195. Influence of Agricultural Technology Literacy, Career Perception and Social Support on Youth Engagement in Continuing Rubber Cultivation
196. Digital Agricultural Literacy and Youth Acceptance of Digital Extension Services
197. Agricultural Literacy among Youth and Its Influence on Career Interest in Agriculture
198. Climate Change Literacy and Youth Engagement in Sustainable Agriculture
199. Role of Extension Communication in Enhancing Agricultural Literacy among Youth
200. Social Media Literacy and Agricultural Knowledge Acquisition among Youth
201. Big data analysis using friendly user software; RapidMiner using data from Metroxylon Sagu (Sago Palm)
202. Computer Simulation for Protein Identification using Multiple Search Engines
203. Preliminary Genomic Analysis on Metroxylon Sagu (Sago Palm) Plant



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204. Transcriptomic Data Mining from Public Databases for Bioinformatics Analysis
205. Usage and Analysis of High Performance Computer 10 (HPC 10): Quanta Server for Data Analysis
206. Micropropagation of horticultural plants
207. In vitro propagation and mutation induction on ornamental plants
208. In vitro conservation of endangered and value-added plant species
209. Farmers' Trust in Agricultural Institutions and Its Influence on Compliance with Extension Recommendations
210. Role of Social Networks and Peer Influence in Farmers' Decision-Making Processes
211. Influence of Cooperative Membership on Farmers' Access to Agricultural Information
212. Risk Perception and Its Relationship with Farmers Willingness to Try New Farming Practices
213. Perceived Barriers to Participation in Government Agricultural Programs among Smallholder Farmers
214. Assessing the Influence of Digital Literacy on the Uptake of Digital Agricultural Advisory Services among Fruit Farmers in Malaysia
215. Assessing Farmers' Readiness to adopt Web-Based Agricultural Advisory Systems (e- Extension) in Malaysia