

Ministry of Science and Technology Mandalay Technological University Department of Biotechnology



Myanmar

Research Effort based on Microbial Utilization under DBT, MTU

By

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Background History of DBT

- Built up in 1998 under Department of Chemical Engineering at Yangon Technological University (YTU)
- (First wave of man power resources: chemical engineers, veterinary surgeons, agriculturists, microbiologists, chemists, zoologists and botanists.)
- Established in April, 2001 as DBT in Hlaing Campus, Yangon
- (Second wave of man power resources: young generation of qualified persons)
- ❖ In 2006, moved to Mandalay Technological University (MTU) in Mandalay

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(Graduate program: Master and Ph. D degrees)
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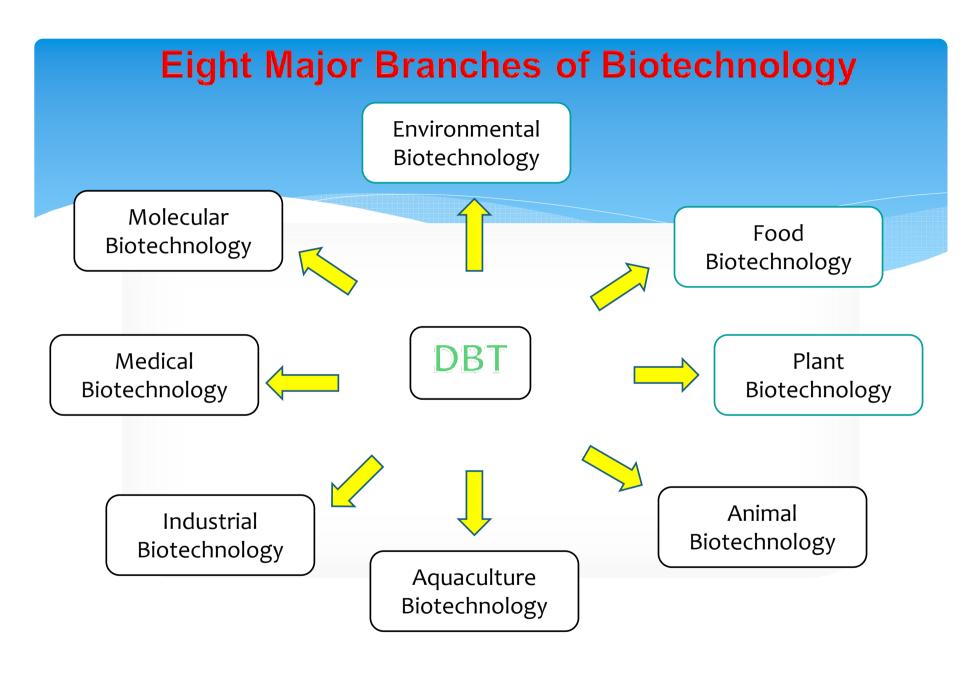
(Research development programs)

Our Vision

- To create a large pool of highly skilled personnel in different areas of biotechnology
- To develop biotechnological processes, designs, techniques, equipments and solutions which can provide applications in the field of Agriculture, Food, Medicines/Pharmaceuticals, Industry, Healthcare Services and Environmental Sciences

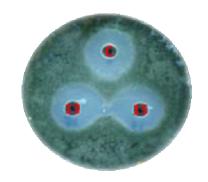
Our Mission

➤ To launch several important programs relevant to national needs and efforts with significant investment using biotechnological tools for generation of products, processes and technologies to enhance the efficiency and productivity of our country

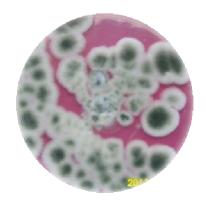














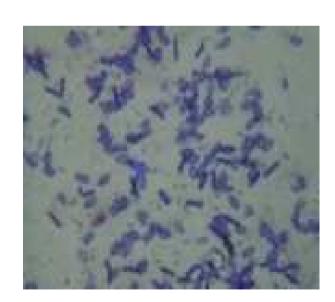
1.Study on the Biofungicidal Activity of *Paenibacillus*polymyxa





Paenibacillus polymyxa





2. Isolation, Identification and Study on the Insecticidal Activities of Entomopathogenic Fungi and Bacteria



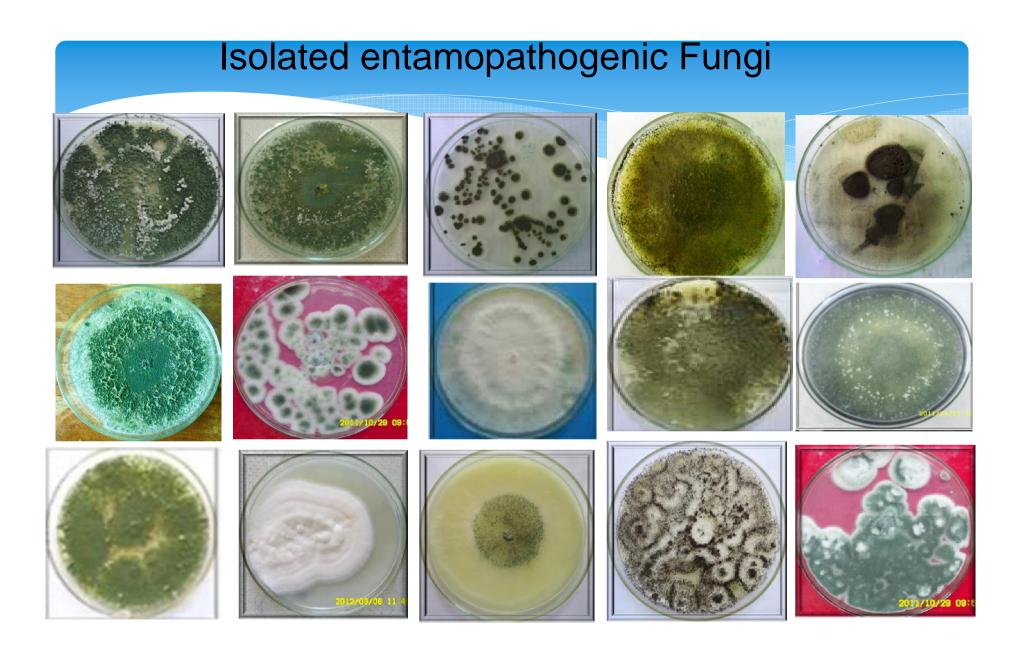
Collection of Infected Insects





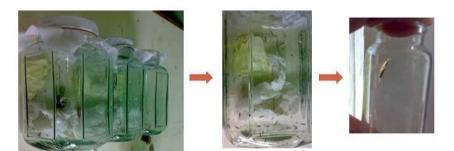


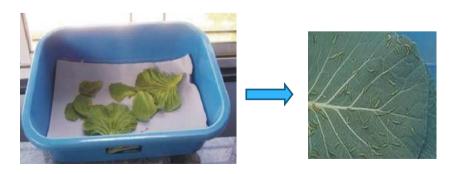




Insect Rearing











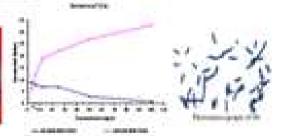


Bioassay Experiment

Bacillus thuringiensis Vs DBM





















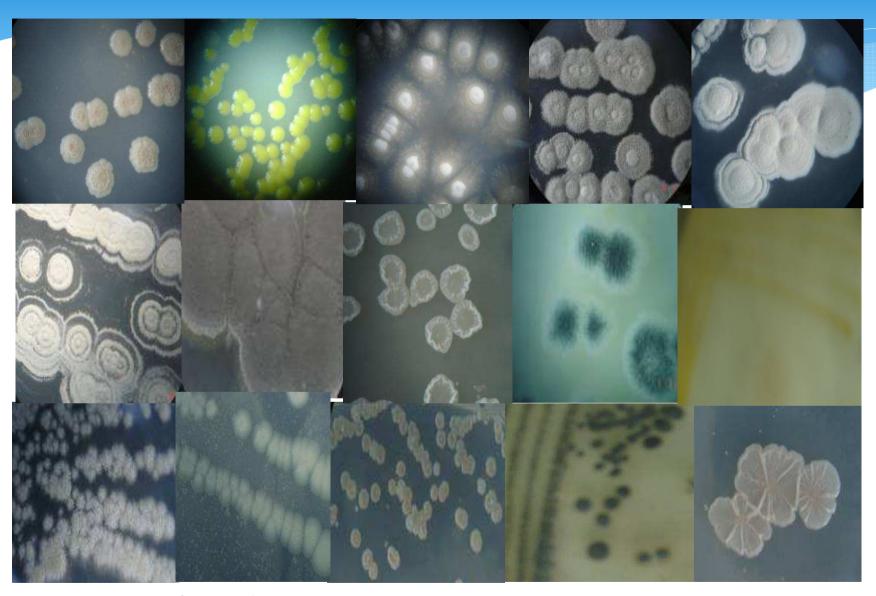








3. Study on Secondary Metabolites from *Streptomyces*



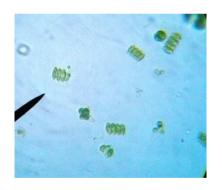
Isolated Sreptomyces spp. Strains

4. Study on Microalgae Culture aimed to use in Biofuel and Animal Feed

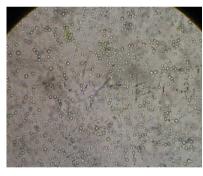




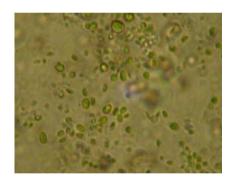




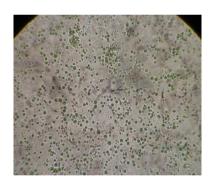
Scenedesmus sp.



Nannochloropsis sp.



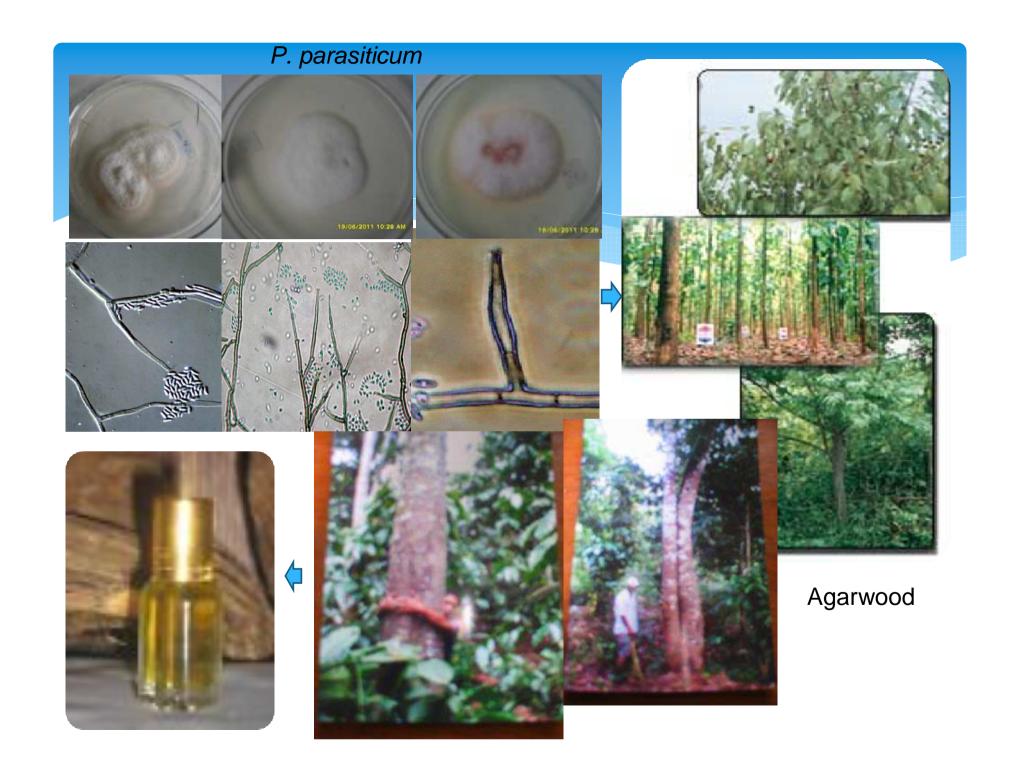
Tetraselmis sp.



Chlorella sp.

Microalgae Cultures

5. Isolation and Characterization of Indigenous Fungi and Study on Oil Formation in Agarwood Plant





Thank you very much!