MAHENDRA ARTS & SCIENCE COLLEGE

(AUTONOMOUS)

MAHENDRA CENTRE FOR RESEARCH & INNOVATIONS (MCRI)

Research and development (R&D) in Mahendra Arts and Science College is one among Higher Education Research Institution (HERI) and functioning in the name of "Mahendra Centre for Research and Innovations (MCRI) is a process intended to create new or improved technologies that may provide a competitive advantages in research and innovations.

The Mahendra Centre for Research and Innovations (MCRI) was established to strengthen basic and applied research also to improve MOUs & research collaborations with the following institutions

- ➤ Department of Environmental Resources, Chonkbuck National University, South Korea.
- Department of Environmental Engineering, Muroran Institute of Technology, Japan.
- ➤ National Pusan University, South Korea
- ➤ University of Trieste, Italy
- Technical University of Poland
- ➤ Alga marine Research Center, Chennai.
- ➤ Vertis Biolab and Microlab, Salem

The MCRI is very keen in research activities and published around 425 research articles in reputed national and international journal with the citations index around 3250.

In addition with the above, research projects of national importance in the field of basic and applied sciences received research grants from the Tamil Nadu State Council for Science & Technology (TNSCST) and has attracted fund under DST and recognized as DST-FIST sponsored research center, University Grants Commission as financial support for strengthening of laboratory equipment to be utilized for post graduate and research scholars under Mahendra Centre for Research and Innovations (MCRI).

The following centre's are actively functioning under MCRI

- Centre for Micro algal culture and Pigment Extractions
- ➤ Centre for Ex-situ Conservation of germplasm through medicinal plant garden
- ➤ Centre for Bio-fertilizer production
- Centre for Mushroom cultivation

- ➤ Mitigation of CO2 Emissions by Bamboo Garden
- ➤ Eco- Restoration and Preservation of Environment
- Centre for Tissue Culture Banana Propagation
- ➤ Centre for Biological Data Analysis and Resource Center
 - ✓ T2DMDB Type 2 Diabetes Mellitus Database
 - ✓ BCGDB Breast Cancer Gene Database
 - ✓ BacKDB Bacterial Kinase Database
- Centre for Nanotechnology
- ➤ Centre for Cell culture and Tissue Engineering

Moreover, MCRI established Research and Training Center for Spirulina cultivation, Bio-pigment extraction, Medicinal plant germ-plasm maintenance, Nanotechnology, Sensors, Solar Cells, Mushroom production and Vermi-composting technology to promote basic and applied research for the betterment of the society. The center is well connected with advanced Soft-wares like Flex X and SeeSAR and tools are used for the study of Molecular Docking, Pharmacokinetics of drugs interactive and evolution.

Centre for Microalgal and Pigment Extraction





Center for *Ex situ* Conservation of Medicinal Plants

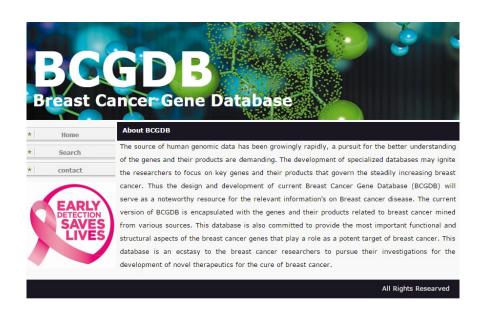




Centre for Biological Data Analysis and Resource Centre



EVirDB- Enterobacterial Virulence Factor Database



BCGDB - Breast Cancer Gene Database