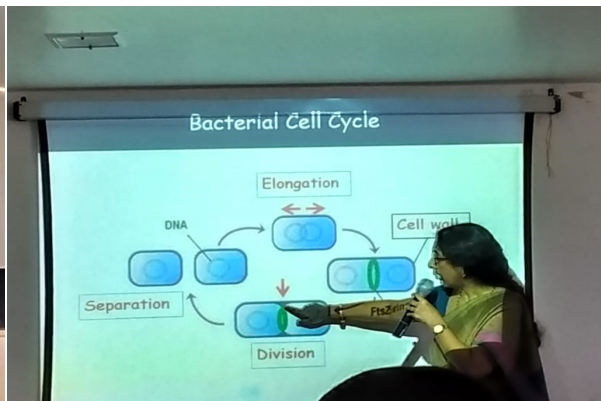


GUEST LECTURE Department of Microbiology REPORT

Department of Microbiology has organized a guest lecture on 23.7.19 by **Dr. Manjula Reddy, Chief Scientist, CCMB** for B.Sc (MGC, MBiC-3rd year) and M.Sc final year students of Microbiology. The title of the topic was “**Bacterial growth and morphogenesis**”. She emphasized on importance of cross link cleavage in bacterial peptidoglycan synthesis and expansion of PG sacculus. The lecture also highlighted on function of synthetic Mep K and Mep S in cleavage of intact PG sacculi as it is a prerequisite to make space for incorporation of nascent glycan strands for its successful expansion during cell growth.



Department of Microbiology

Report on Mushroom cultivation workshop

Department of Microbiology in collaboration with S Mushroom Agri tech, Kukatpally organized a two day workshop on Mushroom cultivation for B.Sc (MGC, MBiC, BtGC) final year students on 19th & 20th Dec, 2019. Mrs.S.Chaitanya kumari and Dr.Narayan rao accompanied 20 students for the two day workshop under skill enhancement program.

On 19th morning, Dr.K. Prasuna, CEO of 'S' Mushroom cultivation briefed on her experience as entrepreneur and on Significance of Mushroom cultivation and methods involved. Day started with the basic knowledge on stages in Mushroom growth, environmental factors influencing their growth, farm design. After basic knowledge, hands on exposure is given to students in preparation of Bed for Milky Mushrooms, Oyster, Paddy straw and Button Mushroom, sterilization of raw materials and spawn preparation and Layer spawning etc.

Second day, Hands on training was given to students in mushroom harvesting, processing and storage. Budget for starting mushroom cultivation as small scale industry was also discussed. This workshop had provoked entrepreneurial skills and motivated students to think about start ups in this area. Different products of Mushroom like –Biscuits, noodles, pickles, Soup powder, dried and fresh mushroom were exhibited in the workshop. After successful completion of the programme, students were given with certificates.



Department of Microbiology

Report on Mushroom cultivation workshop

Department of Microbiology in collaboration with S Mushroom Agri tech, Kukatpally organized a two day workshop on Mushroom cultivation for M.Sc final year students on 4 & 5th July ,2019. Dr.Smrithi Bajpai and Dr.J.Sarada accompanied 34 M.Sc final year students for the two day workshop.

On 4th morning, Dr.K. Prasuna, CEO of ‘S’ Mushroom cultivation briefed on her experience as entrepreneur and on Significance of Mushroom cultivation and methods involved . Day started with the basic knowledge on stages in Mushroom growth , environmental factors influencing their growth, farm design . After basic knowledge, hands on exposure is given to students in preparation of Bed for Milky Mushrooms, Oyster, Paddy straw and Button Mushroom , sterilization of raw materials and spawn preparation and Layer spawning etc.



Second day, Hands on training was given to students in mushroom harvesting, processing and storage . Budget for starting mushroom cultivation as small scale industry was also discussed. This workshop had provoked entrepreneurial skills and motivated students to think about start ups in this area. Different products of Mushroom like –Biscuits, noodles , pickles, Soup powder, dried and fresh mushroom were exhibited in the workshop. After successful completion of the programme , students were given with certificates .



DEPARTMENT OF MICROBIOLOGY

Hands on workshop on “Exploring Microbial Diversity

Hands on training workshop on “Exploring Microbial diversity” was organised from 16th to 21st September 2019. The workshop is organised for students of 2nd year Undergraduate students in Microbiology in collaboration with Dr. Reddy’s Institute of Life sciences (DRILLS), HCU under DBT star college scheme. Total 30 students from both the programs of MGC and MBiC were enrolled in the workshop. Dr.K.Anuradha, Dr.J.Sarada, Mrs.S.Anju, Dr.Y.Aparna, Dr.S.Shalini Devi were resource persons for the workshop. Dr. Anil Kumar Challa, Adjunct Professor from UAB university, USA was the resource person for Bioinformatics module.

The students learnt different microbiological and molecular techniques like Screening of bacteria from various samples like Milk, Spoiled fruits and vegetables, Cow dung, Soil sample from lake side etc. The isolated colonies are subjected to colony PCR and Agarose gel electrophoresis for identification of DNA. They also learnt RFLP digestion followed by its analysis using Bioinformatics tool. An online Zoom conference an interactive session with Dr. Anil Kumar Challa on Bioinformatics components was organised.

The workshop was successful as all the students took active participation and also had good hands on training individually.

