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The Oxford College of Science

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DBT-STAR Scheme 2026

REPORT ON ADDITIONAL LAB EXPERIMENTS ENTITLED "DETERMINATION OF FUNGAL GROWTH BY COLONY DIAMETER AND BIOMASS METHOD" DEPARTMENT OF MICROBIOLOGY

TITLE	"Determination of fungal growth by colony diameter and biomass method"
ACTIVITY TYPE	Additional lab experiments
YEAR/SEMESTER	2026/II Semester
DATE OF EVENT	11.03.2026
VENUE	Microbiology Laboratory
ORGANISED BY	Department of Microbiology
RESOURCE PERSON (with designation and affiliation)	Ms. Ramyashri.O Assistant Professor ,TOCS Department of Microbiology
FACULTY INCHARGE/EVENT COORDINATOR	Ms. Ramyashri.O
TARGET AUDIENCE	II Sem B.Sc. Students
NUMBER OF BENEFICIARIES	16

Objectives of the Programme:

The primary objective of this programme was to determine fungal growth through two methods: colony diameter measurement and biomass quantification. The study aimed to assess the rate of fungal development under various environmental conditions, providing insights into the growth patterns and factors influencing fungal proliferation. It also sought to compare the efficiency and reliability of both methods in evaluating fungal biomass and colony expansion.

Highlights of the Programme:

The programme featured an experimental setup that involved the inoculation of fungal strains on nutrient agar plates, followed by incubation at controlled temperatures. Regular measurements of colony diameter and subsequent biomass estimation were conducted over a set period. The methodology highlighted the precision of each technique, ensuring consistency in data collection. It also included statistical analysis to determine any significant differences between the two measurement methods.

Outcome of the Programme:

The outcome of the programme revealed that both colony diameter and biomass methods effectively monitored fungal growth, though each had its specific advantages. The colony diameter method offered a quick and non-destructive approach, while the biomass method provided a more detailed understanding of the overall fungal mass. The findings underscored the importance of selecting the appropriate method based on the research objectives and environmental factors influencing fungal growth.

Technical Talk delivered

Media Preparation

Practical Demonstration

HOD	**DBT STAR Coordinator**	**Vice Principal**	**Principal**

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DEPARTMENT OF MICROBIOLOGY

UNDER DBT STAR SCHEME

Organizes

ADDITIONAL LABORATORY EXPERIMENT

Determination of Fungal Growth by Colony Diameter and Biomass Method

Beneficiary: II Sem UG Microbiology Students

11.03.2026

01:00 pm onward

Microbiology Lab

RESOURCE PERSON

Ms. Ramyashri O

Assistant Professor,

Dept. of Microbiology