

BSP408 BASIC MICROBIOLOGY LAB.

Course Outcomes:

After undergoing the course, students will be able to :

- CO 1. Understand basic techniques and instrumentation in microbiology.
- CO 2. Apply the techniques of sterilization of media and glassware.
- CO 3. Isolate, identify and culture microorganisms
- CO 4. Perform microbial motility tests.
- CO 5. Execute the filter sterilization and microbial isolation.

1. Introduction to basic techniques and instrumentation in microbiology
2. Microscopic observations of microorganisms and micrometry
3. Staining techniques: Properties of stains, microbial smear preparation, simple and differential staining for morphological studies, Gram's staining, endospore staining, intracellular lipids, acid-fast staining, flagella, viability tests and relief (negative) staining;
4. Microbial motility tests.
5. Microbial culture media, microbial growth
6. sterilization of media and glassware, filter sterilization
7. stock culture, subculture, maintenance of culture.
8. Techniques of microbial isolation.





MANGALORE UNIVERSITY
DEPARTMENT OF BIOSCIENCES

**Special Lecture Series on Bioprospecting of Mushrooms and Canavalia
for Nutrition 18-21 November 2020**



MANGALORE UNIVERSITY

NAAC Re-accredited 'A' Grade

DEPARTMENT OF BIOSCIENCES

DST-FIST & UGC-SAP Supported Department

SPECIAL LECTURE SERIES

ON

BIOPROSPECTING OF MUSHROOMS AND CANAVALIA FOR NUTRITION



Prof. K. R. Sridhar
Adjunct Professor
Department of Biosciences, Mangalore University



Prof. K. R. Sridhar is one among the top 2% in a subject-wise ranking of Indian scientists in the field of Mycology. He has been honoured with the Lifetime Achievement Award by the Mycological Society of India in 2019. He has served the Mycological Society of India as its President. Besides his vast research experience and rich publication record (h-index: 43; i10 index: 181), he is also an excellent teacher with a service spanning four decades in India and abroad.

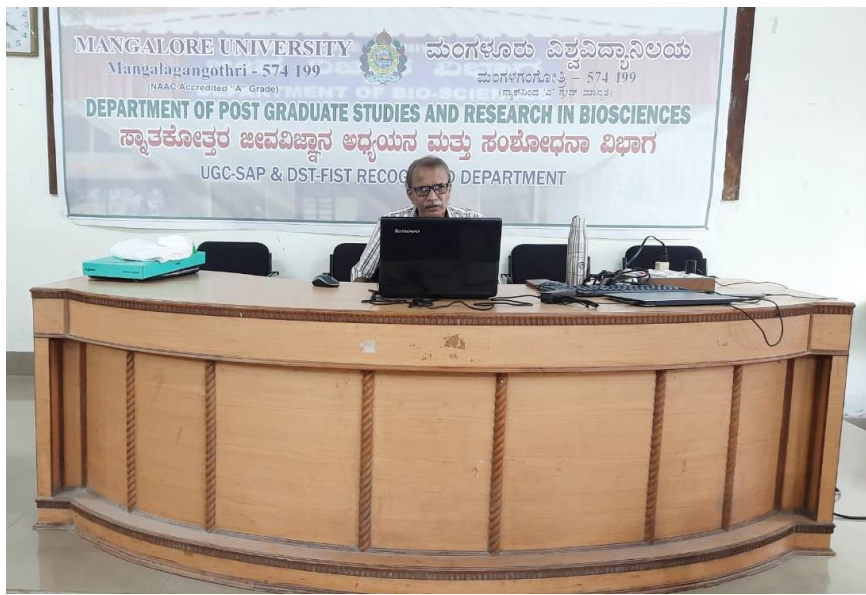
He will deliver Special Lectures on:

- **Fungal diversity: Significance, conservation and implications**
- **Nutraceutical potential of split beans of wild legume *Canavalia***
- **Fungal endophytes and their metabolites**
- **Agroforestry and climate change**

Dates: 18-21 November **Via Google meet** **Time: 3:00 PM onwards**

Registration: Name and affiliation details to be sent to biosciences.mu@gmail.com

Google Link will be shared with registrants. E-certificates will be issued



| Sl. No. | Name of the participant | Affiliation Details |
|---------|-------------------------|---|
| 1 | ANANDA. K | POORNAPRAJNA INSTITUTE OF SCIENTIFIC RESEARCH |
| 2 | SPURTHI K. | DEPT OF BIOSCIENCES, MANGALORE UNIVERSITY |
| 3 | DR.THARAVATHY NC | DEPT OF BIOSCIENCES, MANGALORE UNIVERSITY |
| 4 | MANOHAR PRASAD | DEPT OF BIOSCIENCES, MANGALORE UNIVERSITY |
| 5 | JITHESH GOWDA | DEPT OF BIOSCIENCES, MANGALORE UNIVERSITY |
| 6 | ABHISHEK GOWDA | DEPT OF BIOSCIENCES, MANGALORE UNIVERSITY |
| 7 | ABHILASH SHAIVA | DEPT OF BIOSCIENCES, MANGALORE UNIVERSITY |
| 8 | DR MAHADEVA KUMAR | DEPT OF STUDIES IN BOTANY, UNIVERSITY OF MYSORE, MYSURU |
| 9 | HRISHIKESHA B. | DEPT OF BIOSCIENCES, MANGALORE UNIVERSITY |
| 10 | BINDIYA | DEPT OF BIOSCIENCES, MANGALORE UNIVERSITY |
| 11 | S KARTHIKA DEVI | DEPT OF BIOSCIENCES, MANGALORE UNIVERSITY |
| 12 | NAVYA A | DEPT OF BIOSCIENCES, MANGALORE UNIVERSITY |
| 13 | PRAMOD M.A. | DEPT OF BIOSCIENCES, MANGALORE UNIVERSITY |