

B.Sc.
Second Year
Semester - III & IV
Microbiology

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Telugu Akademi
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**B.Sc.
Third Year**

**Sem
V&VI**

Microbiology



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B.Sc.
Third Year
Semester - VI

MICROBIOLOGY
Food Microbiology & Industrial Microbiology
(Elective Papers)

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Microbial Physiology

2nd Ed.

S. Ram Reddy
S. M. Reddy



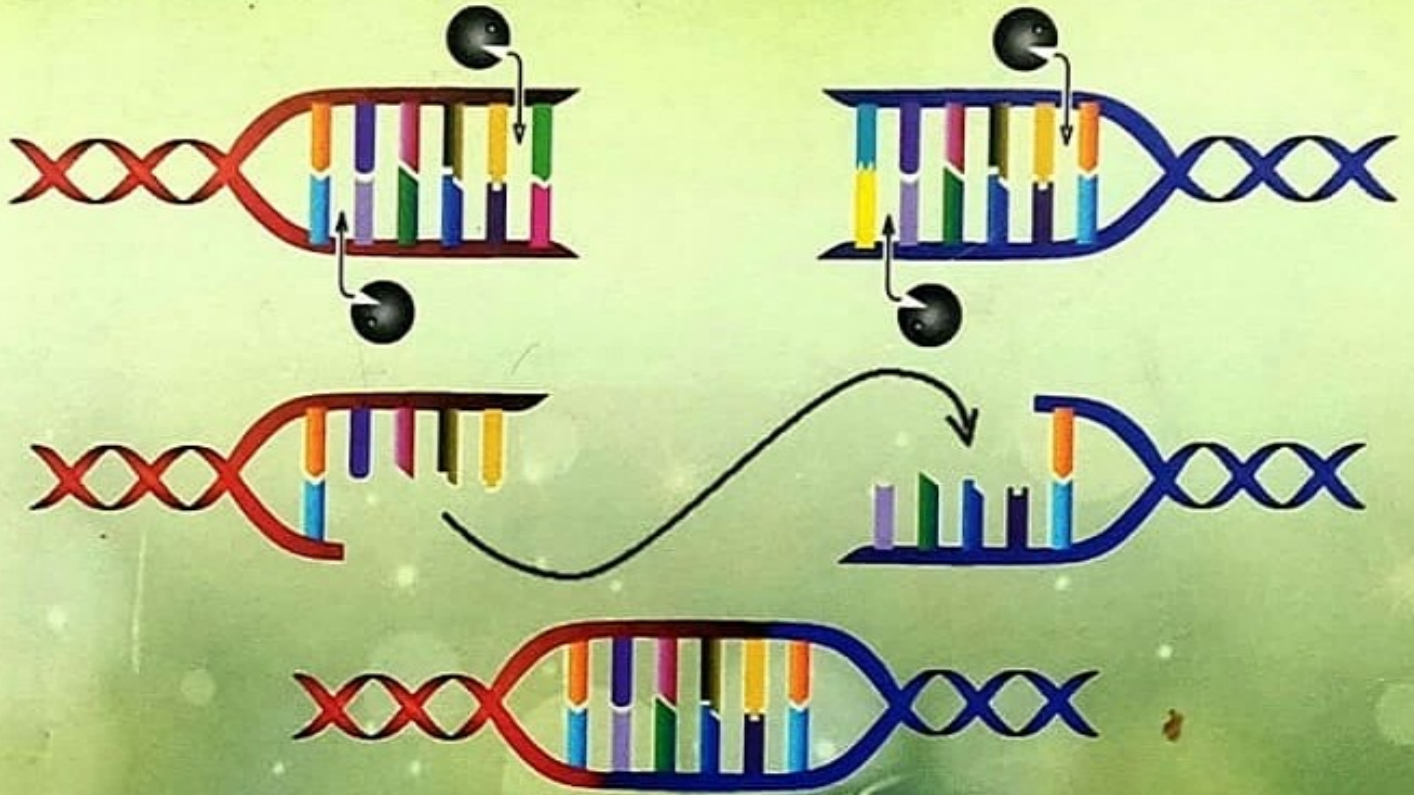
**B.Sc.
Third Year**

**Sem VI
Elective**



Botany

(Tissue Culture & Biotechnology)



**Telugu Akademi
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Microbial Physiology 2nd Ed.

S. Ram Reddy S. M. Reddy

The present second edition of Microbial Physiology is an improved and enlarged version of the first edition. It provides a detailed account of all aspects of physiology of microorganisms in an ordered sequence with profuse illustrations. Presentation of all chapters is based on the principles of bioenergetics which forms the life line for all metabolic functions. In this edition, new chapters on enzymes, metabolism of amino acids, lipids and nucleic acids; and microbial toxins, antimicrobial agents and signal transduction system are included. Thus, it provides a strong foundation and general framework for understanding the subject. This book not only serves as the text book for undergraduate, post-graduate students, but also as a reference book to teachers, researchers and all others interested in the metabolism of the microorganisms.



S Ram Reddy, Professor Emeritus, Department of Microbiology, Kakatiya University has a teaching and research experience for more than four decades. He edited and authored more than forty books. His research fields include microbial physiology, bioinoculants and biodiversity and published nearly 200 research papers in national and international journals. He guided 30 students for their Ph D degrees and successfully completed eight research projects sponsored by UGC, DBT, CSIR, DST etc. He was honoured with Best Teacher Award by Govt. Andhra Pradesh in 2008. Post-retirement, he was awarded prestigious BSR Faculty Fellowship and Emeritus Professor Fellowship by UGC New Delhi. He is a Fellow of Indian Phytopathological Society and an active member of many academic bodies.



S M Reddy, Professor Emeritus, Department of Botany, Kakatiya University, a well known botanist, has wide teaching experience in Botany and Microbiology at university level. His research contributions span over wide areas of Microbiology right from microbial diversity to microbial technology. He has guided 40 students for their Ph D degrees and published nearly 500 research papers in national and international journals. He successfully completed 25 research projects sponsored by different funding agencies. He authored and edited 30 books on university education published by reputed publishers. He was elected as president to Society of Mycology and Plant Pathology, Indian Botanical Society and Botany Section, Indian Science Congress. He has many honours and awards to his credit including Best Teacher Award by Govt. of A P, Distinguished Plant Pathology Teacher Award by ISMPP and IPS Recognition Award by Indian Phytopathological Society.



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