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22-03-2022

Dear Sir/Madam,

Sub: MASU-New publication- Sale order - Text book on Fundamentals of Plant Biochemistry – Orders requested - Regarding

I am happy to inform that MASU's new publication "Text book on Fundamentals of Plant Biochemistry" is out for sale now. The book is edited by Dr. D. Uma, Dr. M. L. Mini, Dr. A. Kavitha Pushpam, and Dr. K. Chandrakumar, Department of Biochemistry, CPMB&B, TNAU, Coimbatore. It is designed specifically for agricultural graduates based on ICAR syllabus and provides wide knowledge on biochemistry of life processes in the field of agriculture, horticulture, biotechnology, nanotechnology, microbiology, genetics, environmental sciences etc., for better understanding of students.

The cost of the book is Rs.400/- and MASU offers 20 % discount to the students and institutions (Rs.400 – 20% discount = Rs.320/-) for the benefit of student community. The postal charges [Un Reg. Parcel = Rs.35/- up to 1 kg] is extra.

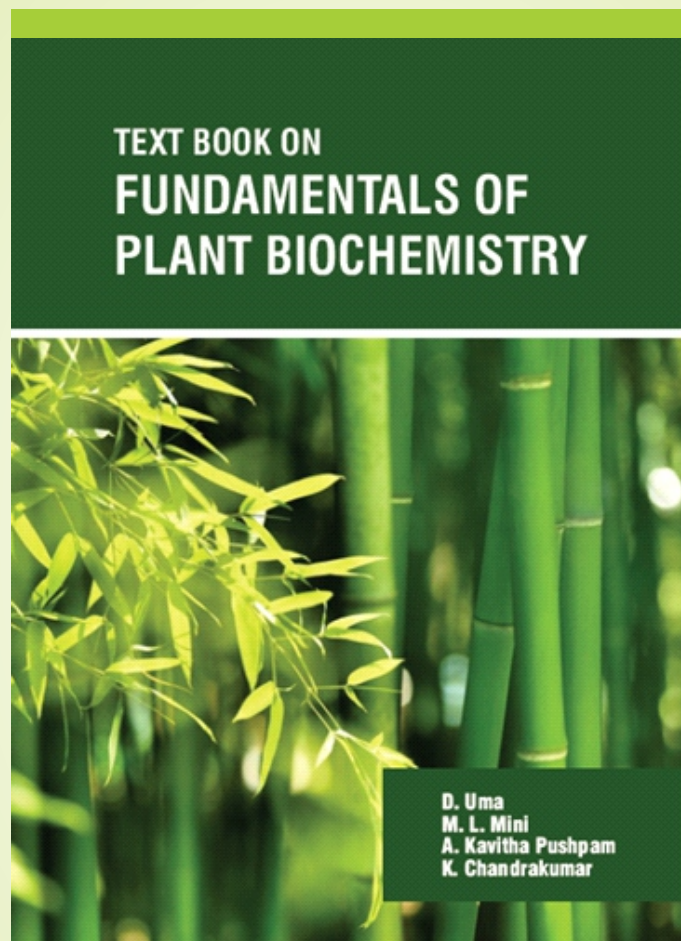
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Thank You

Yours Sincerely

Secretary
MASU

Text Book on **FUNDAMENTALS OF PLANT BIOCHEMISTRY**



Editors

D. UMA

M.L. MINI

A. KAVITHA PUSHPAM

K. CHANDRAKUMAR

Department of Biochemistry
CPMB&B, TNAU, Coimbatore

**Illustrated biochemical pathways
for easy understanding**

Published by :

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2021

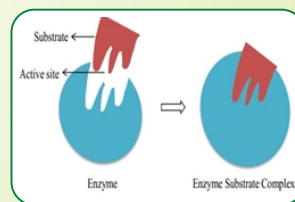
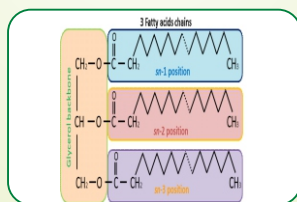
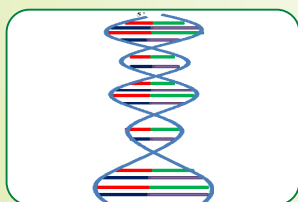
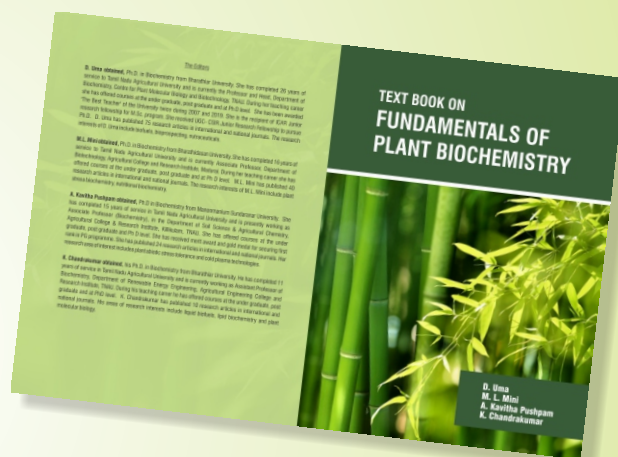
ISBN 978-81-954654-5-3



Text Book on FUNDAMENTALS OF PLANT BIOCHEMISTRY

CONTENTS

- Introduction to Biochemistry, History and Recent Developments
- Chemical foundation - Types of bonds and basis of organic reactions
- Cell and its organelles- Structure and function
- Chemistry, properties and functions of carbohydrates
- Lipids- chemistry, properties and functions
- Amino acids- structure, classification and properties
- Proteins- classification, properties, structural organization and protein folding
- Enzymes - classification, mechanism of action and enzyme inhibitors
- Vitamins- classification, biological function
- Structure, classification and properties of DNA and RNA
- Introduction to metabolism
- Glycolysis, TCA cycle, HMP shunt
- Photosynthesis
- Respiration and bioenergetics
- Fatty acid biosynthesis and oxidation
- Protein biosynthesis and amino acid catabolic pathways
- DNA replication, Transcription
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- Metabolic Interrelationship
- Glossary of important terminologies
- Review questions



Foreword, Dr. N. Kumar, Vice Chancellor, TNAU

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