Biochemical Aspects of Plant Physiology

Technology and Methodology

Biochemical methods are used in all branches of biological science including agriculture. Biochemical aspect is an integral part of plant physiology and this aspect is used to explain nearly all the phenomenon of physiological aspect of plant and/or crop. Technology and Methods for Biochemical Aspects of Plant Physiology is mainly intended for Post Graduate students and Researchers of Universities and of different Research Institutes. As it covers a broad range of subjects on the basic as well as the practical aspects of biochemical part of Plant Physiology, it is likely that it will be also useful for any student attending different theoretical or practical Plant Physiology as well as Biochemistry courses.

The book builds on

- the theoretical principles and the practical's, with the description of different biochemical estimations, and it contains detailed experimental protocol(s) to perform experiments along with a collection and description of principles.
- practical knowledge regarding the techniques used and methods applied to investigate the properties of macromolecules.
- how to determine the charge of weak acids, bases and macromolecules by taking into account their chemical environment.
- how to measure the macromolecular concentration of solutions by spectrophotometry.
- how to design protocols for the purification of proteins from cell cultures or tissues.

Book is useful for conducting practical classes of undergraduate and post graduate students in Plant Physiology, Biochemistry, Biotechnology, Microbiology, Agricultural science, Environmental science, Nutrition, Pharmaceutical science and other biology-related subjects.

Technologies and methods used for biochemical basis of plant physiology such as photosynthesis, photorespiration, plant pigments, carbon and nitrogen assimilation, plant nutrients, phenols, secondary metabolites, nucleic acid and vitamins should be very useful to not only post graduate student, but to research workers also.

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