



Photosynthesis V2: Development, Carbon Metabolism, and Plant Productivity (Cell Biology)

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Photosynthesis, Volume II: Development, Carbon Metabolism, and Plant Productivity provides a basic understanding of photosynthesis. This book also explains how to manipulate photosynthesis and improve the overall rate of photosynthesis of a single plant. It focuses on the use of NADPH and ATP in bicarbonate fixation.

Comprise of 16 chapters, this book covers topics beginning with the concept of photosynthesis. It further discusses manipulating the genetics and molecular biology of the system. In addition, it explains the biogenesis of photosynthetic apparatus, photorespiration, and environmental regulation among others. As the chapters progress, the topics discussed also increase in terms of technical and scientific concepts, as seen in Chapters 10 and 11. These focus on the translocation of photosynthates and leaf and canopy behavior. The application of the knowledge about photosynthesis to plant productivity is also discussed. A chapter is dedicated to it, including various opinions in the said subject matter. Chapters 14 and 15 contain special topics on canopy photosynthesis and yield in soybean, as well as the effect of bicarbonate on photosynthetic electron transport.

This book will be a reference source for researchers. It will also be an introductory book for graduate students specializing in plant biology, biophysics, and physiology; agronomy; and botany.

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