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DEVELOPMENTAL BIOLOGY OF PLANTS



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174

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Developmental biology of plants: the book offers modern integrated approach to various aspects of plant development and will a useful resource for students, teachers, specialists in plant biology, and everyone interested this problem.

ISBN 978-601-04-5880-2

In this tutorial book examines all the main aspects of plant growth and development in accordance with the curriculum and the number of lecture hours devoted to the study of this discipline. The book consists of 11 chapters and covers all stages of plant development "from simple to complex". The book introduces readers to the basic vegetative period, phenomena such as polarity, symmetry and asymmetry at different levels of plant development, source and sink, basics of genetic and epigenetic control of plant development role of phytohormones and "Biological Clock". The book focuses also on the influence of impact of different ecological factors and external stresses on the plants and how morphogenesis and regeneration of plants occur in laboratory-simulated conditions *in vitro*.

The book is written on the basis of the course of lectures "Plant developmental biology", which was read by the author for students of the Department of Biodiversity and Bioresources of Al-Farabi Kazakh National University.

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