

Animal Physiology From Genes To Organisms

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Physiology, Genetics, Nutrition and Interdisciplinary Research,
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Physiology of Development Introduction to Animal Physiology and
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Record Lauralee Sherwood Jie Wen Hans Lambers Thomas Hunt Morgan
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William S. Klug Philip Meneely Mahāwitthayālai Chīang Mai American
Society of Hematology Ernest Abraham Hart
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in the last decade enormous progress has been made on the
physiology of plant roots including on a wide range of molecular
aspects much of that progress has been captured in the chapters of
this book breakthroughs have been made possible through
integration of molecular and whole plant aspects the classical
boundaries between physiology biochemistry and molecular biology
have vanished there has been a strong focus on a limited number of
model species including arabidopsis thaliana that focus has
allowed greater insight into the significance of specific genes
for plant development and functioning however many species are
very different from a thaliana in that they are mycorrhizal
develop a symbiosis with n₂ fixing microsymbionts or have other
specialised root structures also some have a much greater capacity
to resist extreme environments such as soil acidity salinity
flooding or heavy metal toxicities due to specific adaptations
research on species other than a thaliana is therefore pivotal to
develop new knowledge in plant sciences in a comprehensive manner
this fundamental new knowledge can be the basis for important
applications in e g agriculture and plant conservation although
significant progress has been made much remains to be learnt it is

envisaged that discoveries made in the recent past will likely lead to major breakthroughs in the next decade

physiological genetics is a compilation of developments contributed by experts in the field of physiological genetics the articles contained in the book covers various accounts of developments in the field the book starts with an introductory chapter describing genetic factors in developmental gene regulation followed by discussions on enzyme differentiation hormonal control of gene expression biochemical genetics of morphogenesis cytoplasmic male sterility in maize plant somatic cell genetics and the population dynamics of genetic polymorphism physiologists biologists geneticists and students will find a valuable reference material

this book is known for its clear writing style emphasis on concepts visual art program and thoughtful coverage of all areas of genetics the authors capture readers interest with up to date coverage of cutting edge topics and research the authors emphasize those concepts that readers should come to understand and take away with them not a myriad of details and exceptions that need to memorized and are soon forgotten in addition to topics traditionally covered in genetics this book has increased coverage of genomics including proteomics and bioinformatics biotechnology and contains more real world problems for anyone in biology agriculture or health science who is interested in genetics

advanced genetic analysis explores the question how can the principles of genetics be used as analytical tools to solve biological problems drawing on the latest experimental tools including microarrays rnai and bioinformatics approaches it provides a state of the art review of the field but in a truly student friendly manner

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