Raven Biology Of Plants

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Committed to Excellence in the Eleventh Edition. This edition continues the evolution of Raven & Johnson's Biology. The author team is committed to continually improving the text, keeping the student and learning foremost. The integrated pedagogical features expand the students' learning process and enhance their learning experience. This latest edition of the text maintains the clear, accessible, and engaging writing style of past editions with the solid framework of pedagogy that highlights an emphasis on evolution and scientific inquiry that have made this a leading textbook for students majoring in biology. This emphasis on the organizing power of evolution is combined with an integration of the importance of cellular, molecular biology and genomics to offer our readers a text that is student friendly and current. Our author team is committed to producing the best possible text for both student and faculty. The lead author, Kenneth Mason, University of Iowa, has taught majors biology at three different major public universities for more than fifteen years. Jonathan Losos, Harvard University, is at the cutting edge of evolutionary biology research, and Susan Singer, Carleton College, has been involved in science education policy issues on a national level. All three authors bring varied instructional and content expertise to this edition of Biology.
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Long acclaimed as the definitive introductory botany text for majors, "Biology of Plants" is especially known for its comprehensive coverage andits magnificent art program. The new edition offers a wealth of new information, especially in the areas of taxonomy, genomics, plant hormones, and Arabidopsis research.
There are still heroes in science. They are recognized because the issues and problems they chose to study became the issues and problems of a major field of research. They are also recognized because their insights and solutions are the ones that are tested and evaluated when new ideas and technologies become available. In the field of plant evolutionary biology, the hero is George Ledyard Stebbins. His first scientific publi cation appeared in 1929 and has been followed by nearly 60 magnificent years of seminal ideas, proofs, and proposals that defined much of what was worth doing in plant biosystematics, evolution and biological conser vation. His energy, enthusiasm and good humor (widely shared at many congresses and symposia in the 'Singalongs with Stebbins') made him a wonderful teacher for both undergraduates and graduate students. He is the mentor of several generations of botanists, plant geneticists and evo lutionists. A brief biography and publication list were included in Topics in Plant Population Biology, edited by Otto T. Solbrig, Subodh Jain, George Johnson and Peter Raven (Columbia University Press, 1979) which resulted from a symposium held on the occasion of Ledyard Stebbins' 70th birthday. In this volume, population biology and physio logical ecology received major attention particularly in relation to plant form and function.
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The development of phosphorus (P)-efficient crop varieties is urgently needed to reduce agriculture's current over-reliance on expensive, environmentally destructive, non-renewable and inefficient P-containing fertilizers. The sustainable management of P in agriculture necessitates an exploitation of P-adaptive traits that will enhance the P-acquisition and P-use efficiency of crop plants. Action in this area is crucial to ensure sufficient food production for the world’s ever-expanding population, and the overall economic success of agriculture in the 21st century. This informative and up-to-date volume presents pivotal research directions that will facilitate the development of effective strategies for bioengineering P-efficient crop species. The 14 chapters reflect the expertise of an international team of leading authorities in the field, who review information from current literature, develop novel hypotheses, and outline key areas for future research. By evaluating aspects of vascular plant and green algal P uptake and metabolism, this book provides insights as to how plants sense, acquire, recycle, scavenge and use P, particularly under the naturally occurring condition of soluble inorganic phosphate deficiency that characterises the vast majority of unfertilised soils, worldwide. The reader is provided with a full appreciation of the diverse information concerning plant P-starvation responses, as well as the crucial role that plant–microbe interactions play in plant P acquisition. Annual Plant Reviews, Volume 48: Phosphorus Metabolism in Plants is an important resource for plant geneticists, biochemists and physiologists, as well as horticultural and environmental research workers, advanced students of plant science and university lecturers in related disciplines. It is an essential addition to the shelves of university and research institute libraries and agricultural and ecological institutions teaching and researching plant science.

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