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Titolo	Anatomical Adaptations of Halophytes : A Review of Classic Literature and Recent Findings / / by Marius-Nicuor Grigore, Constantin Toma
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Descrizione fisica	1 online resource (XVII, 338 p. 350 illus., 91 illus. in color.)
Disciplina	571.32
Soggetti	Plant anatomy Plant development Plant physiology Plant ecology Plant Anatomy/Development Plant Physiology Plant Ecology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
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Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	Part 1. Haplotype and Saline Environment -- 1. Haplotype Definition and Classification -- 2. Saline Environments. - Part 2. Major Anatomical Adaptations -- 3. Succulence -- 4.Tracheoidioblasts (spiral cells) and Stererdes (spicular cells) -- 5. Salt Secretion -- 6. Kranz Anatomy -- 7. Successive Cambia -- 8. Bulliform Cells.
Sommario/riassunto	This book describes important anatomical adaptations in halophytes, based on a large review of relevant literature (since the 17th century) and recent research findings. Scientists involved in the study of plant biology, from a molecular to ecosystemic level, will find information about all major structural strategies of salt tolerant plants. The book starts with an introductory theoretical background, where several aspects related to the definition and classification of halophytes and saline environments are included. Major anatomical adaptations are then grouped around major concepts: succulence, tracheoidioblasts, salt secretion, Kranz anatomy, successive cambia, and bulliform cells. Each of them is treated following a general scheme: introductory

considerations, anatomical basis, and ecological implications; a review of relevant literature is then conducted and the text is supported by a large number of figures, especially ink drawings and color micrographs.