

ORCHID BIOTECHNOLOGY II



Edited by
Wen-Huei Chen and Hong-Hwa Chen

 **World Scientific**

Orchid Biotechnology Ii Hardcover 2011 By Wen Huei Chen

Hong-Hwa Chen



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Orchid Biotechnology II Hong-Hwa Chen, 2011 *Orchid Biotechnology II* presents a series of recent works on both basic and applied researches in biotechnology progress for *Phalaenopsis* and *Oncidium* orchids. These include the development of flower ovule gynostemium and perianth, the discovery of new orchid infecting viruses and virus movement, secondary metabolites, technology of DNA endoduplication and genetic transformation, growth regulation by micronutrition and orchid mycorrhiza, and plant growth substances for flowering. The diversity and specialization in orchid floral morphology have fascinated botanists and collectors for centuries. The orchid industry has been growing substantially in the past ten years worldwide. This book focuses on the recent advances in the research of orchid biotechnology from the past ten years in Taiwan. To advance the orchid industry, enhancement of basic research as well as advanced biotechnology will provide a good platform to improve flower quality and breeding of new varieties.

Orchid Biotechnology Iv Wen-huei Chen, Hong-hwa Chen, 2021-03-23 *Orchid Biotechnology IV* presents a series of recent work on both basic and applied researches in biotechnology progress for *Phalaenopsis*, *Oncidium*, and *Erycina pusilla* orchids. These include breeding of *Phalaenopsis* orchids of black flower, big white flower, and small and floriferous flowers; physiology for shipping and photosynthesis; SSR markers and mitochondrial DNA markers; virus detection and antiviral immunity; embryogenesis and relationship with mycorrhiza; symbiosis; transposon and retrotransposon; orchid genome and evolution; regulation of orchid floral scent; floral color modification and abiotic stress tolerance. The diversity and specialization in orchid floral morphology have fascinated botanists and collectors for centuries. The orchid industry has been growing substantially worldwide. To advance the orchid industry, enhancement of basic research as well as advanced biotechnology will provide a good platform to improve the flower quality and the breeding of new varieties. This book provides a first hand and up to date information on orchid breeding, orchid genome, evolution, detection of virus in nanotechnology, molecular markers for cultivar identification for orchid lovers, researchers, and industry growers.

Orchid Biotechnology Hong-hwa Chen, Wen-huei Chen, 2007-07-27 The diversity and specialization in orchid floral morphology have fascinated botanists and collectors for centuries. In the past 10 years, the orchid industry has been growing substantially worldwide. This interesting book focuses on the recent advances in orchid biotechnology research since the last 10 years in Taiwan. To advance the orchid industry, enhancement of basic research as well as advanced biotechnology will provide a good platform to improve the flower quality and breeding of new varieties. Important topics covered include the new knowledge of basic genome through floral morphogenesis, floral ontology, embryogenesis, micropropagation, to functional genomics such as EST, virus induced gene silencing, and genetic transformation.

Orchid Biotechnology Iii Wen-huei Chen, Hong-hwa Chen, 2017-01-25 This book provides a first hand and complete information on orchid biotechnology for orchid lovers, graduate students, researchers, and industry growers. It contains comprehensive genomics and transcriptomics data and a thorough discussion of the molecular mechanism of orchid

floral morphogenesis The contributors to the book are all orchid enthusiasts with more than 20 years experience in the field With more than 25 000 species orchids are the most species rich of all angiosperm families They show wide diversity of epiphytic and terrestrial growth forms and have successfully colonized almost every habitat on earth Orchids are fantastic for their spectacular flowers with highly evolved petal labellum and fused androecium and gynoecium gynostemium to attract pollinators for effective pollination In addition orchids have attracted the interest of many evolutionary biologists due to their highly specialized evolution and adaptation strategies Orchid Biotechnology III covers the most update knowledge of orchid biotechnology research on Phalaenopsis Oncidium Cymbidium Anoectochilus Paphiopedilum and Erycina pusilla It will provide graduate students researchers orchid lovers and breeders with an opportunity to understand the mechanism why the orchids are so mysterious and spectacular Hopefully this information will be helpful for breeders to enhance orchid breeding and create even more elegant and grace flowers

Advances in Orchid Biology, Biotechnology and Omics Pragya

Tiwari,Jen-Tsung Chen,2023-06-02 This book provides comprehensive insights into the existing and emerging trends in orchid biology based on the findings of omics high throughput technology biotechnology molecular breeding and genome editing approaches in orchids It illustrates molecular mechanisms of orchid mycorrhizal symbiosis according to the recent achievements of transcriptomics and bioinformatics studies which accelerate the progress of orchid research with the aid of their high throughput tools In this book a comprehensive view of orchid breeding was presented and it includes fundamental methods as well as advanced strategies through the combination of several technologies such as genetic engineering omics computational biology and genome editing These resulting knowledge and tools are highly beneficial for obtaining novel and fascinating varieties in the orchid market which is a competitive industry of global trade Another interesting content is the focus on the production of orchid bioactive compounds and their values in the field of ethnomedicine Their sources chiefly came from secondary metabolites and can be enriched through elicitors and produced more efficiently by improved tissue culture protocols and bioreactors In this edited collection we provided space for presenting an updated review of in vitro seed germination which is a routine technology for well trained researchers but can give a complete demonstration for the potential audiences including growers and research beginners This book collects refined knowledge from a broad source of scientific literature by experts in the field of orchid research and surely is an adequate reference and textbook for students teachers and researchers It includes methods and applications of orchid breeding technology which would gain high attention from growers breeders and the related fields of agriculture

The Top Books of the Year Orchid Biotechnology li Hardcover 2011 By Wen Huei Chen The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the engaging narratives that have enthralled audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Pappen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and thrilling novel that will keep you guessing until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

http://nevis.hu/data/book-search/index.jsp/Modern_Welding_Instructors_Annotated_Lab_Workbook_By_William_A_Bowditch_2012_09_13.pdf

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