



In Vitro Embryogenesis in Higher Plants 2016 (Hardback)

By -

Humana Press Inc., United States, 2015. Hardback. Book Condition: New. 2016 ed.. 254 x 178 mm. Language: English . Brand New Book. This volume presents an overview of recent advances, innovative applications, and future prospects of in vitro embryogenesis in higher plants. The book s chapters are divided into five parts: Part I contains reviews on general topics (microspore; zygotic and somatic embryogenesis; in vitro and in vivo asexual embryogenesis; advances on the genetic, physiological, and proteomic knowledge of somatic embryo formation; role of apoptosis and mitochondria in somatic embryogenesis; and innovation in the use of bioreactors). The remaining four parts discuss step-wise protocols on somatic embryogenesis in selected horticultural plants (Part II); forest trees (Part III); gametic embryogenesis (Part IV); and pivotal topics, such as the detection of epigenetics modifications during microspore embryogenesis, the in vitro embryogenesis and plant regenerations from isolated zygotes, the synthetics seed production, the induction and maturation of somatic embryos, and the cryostorage of embryogenic cultures (Part V). Written in the highly successful Methods in Molecular Biology series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known...



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