

1. Record Nr.	UNINA9910144564303321
Titolo	Applications of plant cell and tissue culture [[electronic resource]]
Pubbl/distr/stampa	Chichester, Sussex, U.K. ; ; New York, : Wiley, 1988
ISBN	1-282-34609-1 9786612346095 0-470-51365-9 0-470-51366-7
Descrizione fisica	1 online resource (282 p.)
Collana	Ciba Foundation symposium ; ; 137
Disciplina	571.5382 631.5 631.523
Soggetti	Plant micropropagation Plant biotechnology Plant cell culture Plant tissue culture Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"Symposium on Applications of Plant Cell and Tissue Culture, held at the Kyoto International Conference Centre, Kyoto, Japan, 20-22 October 1987"--P. v. "A Wiley-Interscience publication."
Nota di bibliografia	Includes bibliographies and indexes.
Nota di contenuto	APPLICATIONS OF PLANT CELL AND TISSUE CULTURE; Contents; Participants; Introduction; Herbicide-resistant plants from cultured cells; Somaclonal variation; Applications of cell and tissue culture in tree improvement; The induction of embryogenesis in Nicotiana immature pollen in culture; Producing fertile somatic hybrids; Application of microinjection to a high frequency and synchronous somatic embryogenesis system in carrot suspension cultures; Protoplast fusion-mediated transfer of male sterility and other plasmone- control led traits Analysis of chloroplast parasexual hybrid calli genomes inTransformation of plant cells; Direct gene transfer to plants; Germ p

lasmp resewation; Elicitation and metabolism of phytoalexins in plant cell cultures; Biosynthesis of tropane alkaloids; Biotechnological approaches to the production of isoquinoline alkaloids; Industrial production of shikonin and berberine; Problems in commercial exploitation of plant cell cultures; General discussion; Index of contributors; Subject index

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#### Sommario/riassunto

This work deals with basic plant physiology and cytology, and addresses the practical exploitation of plants, both as crops and as sources of useful compounds produced as secondary metabolites. Covers problems of commercial exploitation, socio-legal aspects of genetic engineering of crop plants, and of the difficulties of marketing natural compounds produced by cells under artificial conditions.

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