



In Vitro Culture of Higher Plants

By R.L.M Pierik

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In Vitro Culture of Higher Plants presents an up-to-date and wide-ranging account of the techniques and applications, and has primarily been written in response to practical problems. Special attention has been paid to the educational aspects.

Typical methodological aspects are described in the first part: laboratory set-up, composition and preparation of media, sterilization of media and plant material, isolation and (sub)culture, mechanization, the influence of plant and environmental factors on growth and development, the transfer from test tube to soil, aids to study. The question why in vitro culture is practised is covered in the second part: embryo culture, germination of orchid seeds, mericloneing of orchids, production of disease-free plants, vegetative propagation, somaclonal variation, test-tube fertilization, haploids, genetic manipulation, other applications in phytopathology and plant breeding, secondary metabolites.

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Editorial Review

Review

`... illustrations of high quality ... a good index and an up-to-date bibliography. Overall, the book succeeds in the authors' stated aim of providing an introductory text on *in vitro* culture of higher plants for university students as well as serving as a practical handbook for technicians and research assistants. There is also much to interest the more senior research worker. This book should be much in demand. '

Commonwealth Agricultural Bureau

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