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With an increasing demand for plant products, people have turned toward more and more intensive management practices to increase the productivity of land. One of the most effective way of increasing productivity is to use genetically improved material which can be quickly multiply by micropropagation techniques. During last ten years the interest in micropropagation also of woody plant species increased markedly and in connection with it also some books on this theme recently appeared in world literature. This one is the first in Slovak language and so it is welcomed by many researchers, practitioners as well as students in our country. In this book different ways of *in vitro* culture are evaluated. The attention is paid to the effects of the composition of nutrient media, the environmental factors and the type of primary explant. All these questions are demonstrated on the data from literature as well as on authors' own experiments on micropropagation of *Aesculus hippocastanum*, *Actinidia arguta*, *A. chinensis* and *Castanea sativa*. The synthesis of secondary metabolites is also considered. From the point of view of genetic fund preservation the tissue cultures are shown as one of possibility of preserving species. The economic comparison of new biotechnological methods with the traditional methods is also included.

The readable text is accompanied by many figures and tables. Abstracts in English and Russian are added.

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