

Contents

The Gap between Science and Perception: The Case of Plant Biotechnology in Europe	
A. Einsele	1
Biotechnology Patenting Policy in the European Union – as Exemplified by the Development in Germany	
A. Schrell · H. Bauser · H. Brunner	13
Bioscience, Bioinnovations, and Bioethics	
M. Leisola	41
Genetically Modified Organisms in the United States: Implementation, Concerns, and Public Perception	
M. P. Oeschger · C. E. Silva	57
Agricultural Biotechnology and its Contribution to the Global Knowledge Economy	
P. Aerni	69
Exploration and Swiss Field-Testing of a Viral Gene for Specific Quantitative Resistance Against Smuts and Bunts in Wheat	
T. Schlaich · B. Urbaniak · M.-L. Plissonnier · N. Malgras · C. Sautter	97
Recombinant DNA Technology in Apple	
C. Gessler · A. Patocchi	113
Prospects for Biopolymer Production in Plants	
J. B. van Beilen · Y. Poirier	133
Plastoglobule Lipid Bodies: their Functions in Chloroplasts and their Potential for Applications	
F. Kessler · P.-A. Vidi	153

Genetic and Ecological Consequences of Transgene Flow to the Wild Flora

F. Felber · G. Kozlowski · N. Arrigo · R. Guadagnuolo 173

Assessing Effects of Transgenic Crops on Soil Microbial Communities

F. Widmer 207

Ecological Impacts of Genetically Modified Crops: Ten Years of Field Research and Commercial Cultivation

O. Sanvido · J. Romeis · F. Bigler 235

Author Index Volumes 101–107 279

Subject Index 283