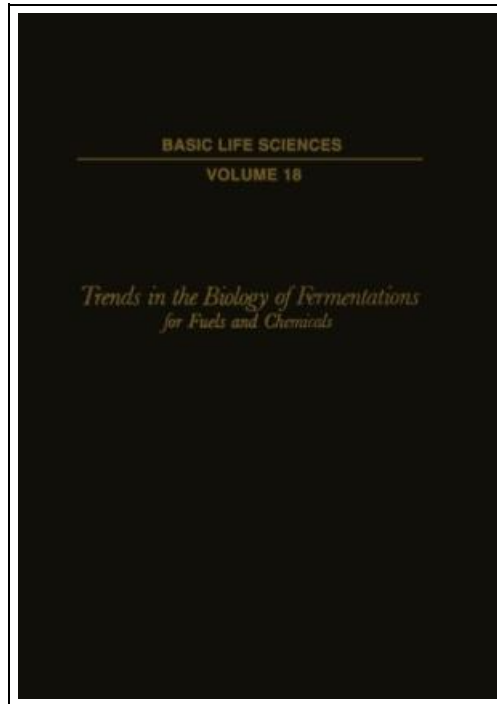


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TRENDS IN THE BIOLOGY OF FERMENTATIONS FOR FUELS AND CHEMICALS



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Book Condition: New. Publisher/Verlag: Springer, Berlin | The growing concern about where energy rich chemicals for the future will come from has stimulated a resurgence of interest in the potentialities of microbial fermentations to assist in meeting anticipated demands for fuels and chemicals. While much attention has been given recently to the early deployment of alcohol production plants and similar currently available technologies, the potential future developments have received much less attention. One of the intentions of the present symposium was to look ahead and try to perceive some of the prospects for future fermentation technology. In order to accomplish this, a symposium program of sizable diversity was developed with workers giving a representative cross section of their particular specialty as an indicator of the status of basic information in their area. In addition, an attempt was made to elicit from the various participants the types of fundamental information which should be generated in the coming years to enable new fermentation technology to proceed expeditiously. In organizing the symposium particular effort was made to involve workers from the academic, industrial and governmental scientific communities. | Welcoming Remarks.- Basic Biology of Microbial Fermentation.- Cellulases of Fungi.- Regulatory Controls in Relation to Overproduction of Fungal Cellulases.- Cellulase Kinetics.- Microbial Enzymes Attacking Plant Polymeric Materials.- Cellulases: Diversity Amongst Improved Trichoderma Strains.- Xylanases: Structure and Function.- Toward Elucidating the Mechanism of Action of the Lignolytic System in Basidiomycetes.- Amylases: Enzymatic Mechanisms.- Fermentation of Plant Polysaccharides: Role of Biochemical Genetics.- Molecular Genetics and Microbial Fermentations.- The Biochemical Genetics of Glycolysis in Microbes.- Mechanisms of Yeast Genetics.- Perspectives for Genetic Engineering of Hydrocarbon Oxidizing Bacteria.- Hydrogen Formation by the Biophotolysis of Water via Glycolate and Formate.- Hydrogenase Genes.- Conversion of Reductases to Dehydrogenases by Regulatory Mutations.- cAMP and Regulation of Carbohydrate Metabolism.- Metabolic Compromises...



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