



**Scientific and Engineering Principles: Proceedings  
of the Sixth International Fermentation  
Symposium Held in London, Canada, July 20-25,  
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Advances in Biotechnology, Volume I: Scientific and Engineering Principles is the first of a series of three volumes and is based on the proceedings of the Sixth International Fermentation Symposium (IFS-6) held in London, Ontario, Canada, 20-25 July 1980.

This volume is organized into 13 sections and contains 111 papers which represent about 80% of the total submitted. Section I contains papers on microbial cultures. Section II presents studies on recombinant DNA and microbial genetics. The papers in Section III deal with plant and animal cell and tissue culture. Section IV examines the microbial oxidation of hydrocarbons. Sections V and VI focus on continuous cultures and free-cell fermentation, respectively. Section VII examines process dynamics and control. Section VIII takes up computer applications in biotechnology, while Section IX covers process instrumentation and analytical methods. Section X contains papers on transport phenomena, mixing and scale-up. Section XI examines the design and operation of unconventional bioreactors. Sections XII covers fixed-, fluidized- and semi-fluidized bed bioreactors, while Section XIII presents studies on immobilization bioreactors. The volume also includes invited keynote addresses of Nobel Laureate, Professor Joshua Lederberg, and Professor Elmer L. Gaden, Jr. Abstracts of the round-table discussion on Technology Transfer and Economics, and on Biotechnology Training Programs are presented as appendices.

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