

Safety in Industrial Microbiology and Biotechnology

C. H. Collins



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Safety in Industrial Microbiology and Biotechnology reviews the hazards involved in work with both naturally occurring and genetically-modified microorganisms.

This text is divided into 12 chapters and begins with an overview of the laboratory- and industry-associated infection hazards. The subsequent chapters deal with the legal issues, containment, risk assessment, and pathogenicity testing of infection related to industrial microbiology and biotechnology. These topics are followed by discussions of the safety considerations in recombinant plasmid preparation, the safe handling of industrially-produced mammalian cells, and some genetic designs that can be applied to processes based on recombinant DNA microorganisms. Other chapters explore the design for safety in bioprocessing and the containment in the development and manufacture of recombinant DNA-derived products. The remaining chapters look into the monitoring and validation in biotechnological processes, as well as the occupational health implications of industrial biotechnology.

This book will prove useful to biotechnologists, microbiologists, safety engineers, and researchers.

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