

# Industrial Microbiology An Introduction

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of major economic environmental and social importance industrialmicrobiology involves the utilization of microorganisms in theproduction of a wide range of products including enzymes foods beverages chemical feedstocks fuels and pharmaceuticals andclean technologies employed for waste treatment and pollutioncontrol aimed at undergraduates studying the applied aspects of biology particularly those on biotechnology and microbiology courses andstudents of food science and biochemical engineering this textprovides a wide ranging introduction to the field of industrialmicrobiology the content is divided into three sections key aspects of microbial physiology exploring the versatilityof microorganisms their diverse metabolic activities andproducts industrial microorganisms and the technology required forlarge scale cultivation and isolation of fermentationproducts investigation of a wide range of established and novelindustrial fermentation processes and products written by experienced lecturers with industrial backgrounds industrial microbiology provides the reader with groundwork in boththe fundamental principles of microbial biology and the varioustraditional and novel applications of microorganisms to industrialprocesses many of which have been made possible or enhanced byrecent developments in genetic engineering technology a wide ranging introduction to the field of industrialmicrobiology based on years of teaching experience by experienced lecturerswith industrial backgrounds explains the underlying microbiology as well as the industrialapplication content is divided into three sections 1

key aspects of microbial physiology exploring the versatility of microorganisms their diverse metabolic activities and products 2 industrial microorganisms and the technology required for large scale cultivation and isolation of fermentation products 3 investigation of a wide range of established and novel industrial fermentation processes and products

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