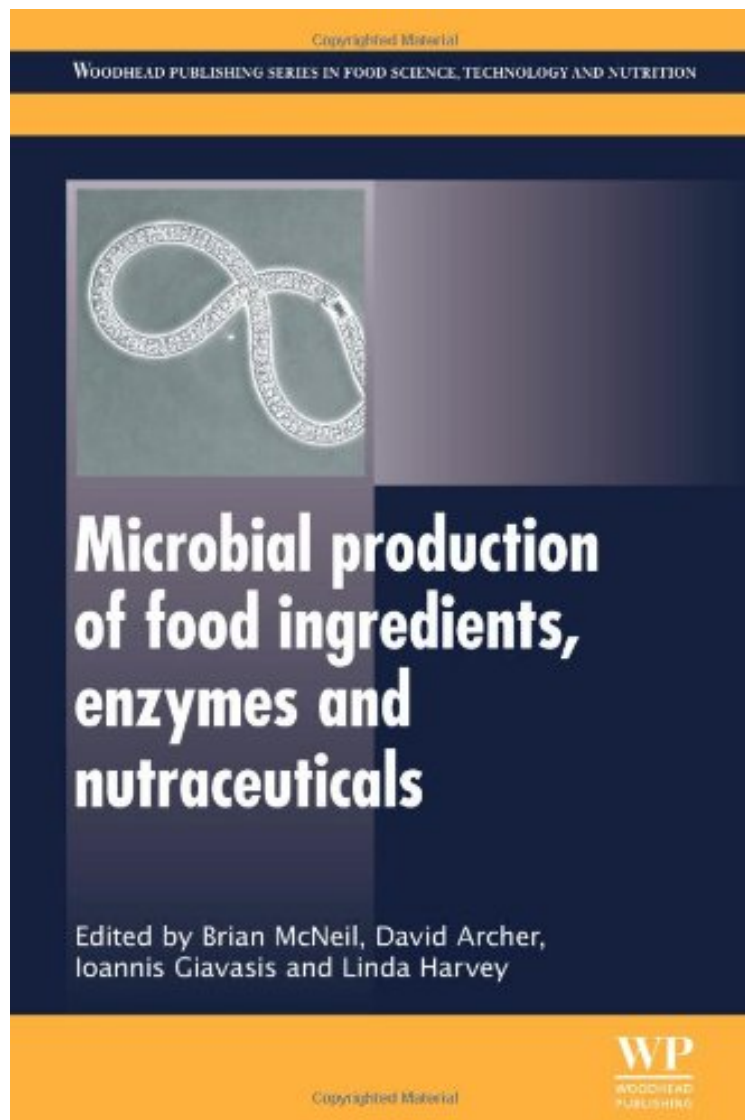


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Bacteria, yeast, fungi and microalgae can act as producers (or catalysts for the production) of food ingredients, enzymes and nutraceuticals. With the current trend towards the use of natural ingredients in foods, there is renewed interest in microbial flavours and colours, food bioprocessing using enzymes and food biopreservation using bacteriocins. Microbial production of substances such as organic acids and hydrocolloids also remains an important and fast-changing area of research. Microbial production of food ingredients, enzymes and nutraceuticals provides a comprehensive overview of microbial production of food ingredients, enzymes and nutraceuticals. Part one reviews developments in the metabolic engineering of industrial microorganisms and advances in fermentation technology in the production of fungi, yeasts, enzymes and nutraceuticals. Part two discusses the production and application in food processing of substances such as carotenoids, flavonoids and terpenoids, enzymes, probiotics and prebiotics, bacteriocins, microbial polysaccharides, polyols and polyunsaturated fatty acids. Microbial production of food ingredients, enzymes and nutraceuticals is an invaluable guide for professionals in the fermentation industry as well as researchers and practitioners in the areas of biotechnology, microbiology, chemical engineering and food processing. Provides a comprehensive overview of microbial flavours and colours, food bioprocessing using enzymes and food biopreservation using bacteriocins. Begins with a review of key areas of systems biology and metabolic engineering, including methods and developments for filamentous fungi. Analyses the use of microorganisms for the production of natural molecules for use in foods, including microbial production of food flavours and carotenoids.

About the Author Brian McNeil is Professor of Microbiology at the University of Strathclyde, Glasgow, UK. David Archer is Professor of Microbial Biochemistry in the Faculty of Medicine and Health Sciences at the University of Nottingham, UK. Ioannis Giavasis is a Lecturer in Food Microbiology and Biotechnology at the Technological Educational Institute of Larissa, Greece. Dr Linda Harvey is a Reader in Microbiology at the University of Strathclyde.