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Nutrition-Infection Interactions and Impacts on Human Health  
Production of Biobutanol from Biomass Mohan Pammi Arindam Kuila  
Nutrition-Infection Interactions and Impacts on Human Health Production of Biobutanol from Biomass *Mohan Pammi Arindam Kuila*

nutrition and infection are often at a crossroads interacting with each other and influencing human health infection is a major health problem and nutritional deficiency plays a significant role in increasing the risk of infection nutrition infection interactions and impacts on human health presents state of the art evidence on nutrition infection interactions and their impact on health and disease the book explores a wide range of topics including the effects of infection on nutrition a common occurrence in the developing world and nutrient infection interactions for specific infections including hiv tb malaria and parasitic infections these are reviewed with a special emphasis on nutritional interventions also covered is the role of the gastrointestinal tract and its influence on nutrition focusing on the human gastrointestinal microbiota enteric syndromes probiotics and immunonutrients the book discusses infection nutrition interactions in special age groups such as children adolescents and the elderly it also reviews emerging nutritional and anti infective strategies with an emphasis on future research directions the book is useful for epidemiologists nutritionists and health care staff caring for patients the book s broad scope allows for its applicability to both the developed and the developing world

production of biobutanol from biomass the book covers all current technologies of lignocellulosic biobutanol production as well as the environmental and socioeconomic impact assessment n butanol is a bulk chemical that is used as an industrial solvent and as a component in paint coatings and adhesives among other things when compared to other biofuels biobutanol has the advantages of being immiscible in water having a higher energy content and having a lower vapor pressure there are various benefits to producing biobutanol from lignocellulosic biomass however there are challenges in producing butanol from lignocellulosic biomass such as biomass s complex structure low butanol yield and high cost of production etc the 13 chapters comprising this book discuss the current technology and prospects of biobutanol production the first four chapters provide an overview of the current technological status while the next six chapters discuss different strategies for enhanced biobutanol production from lignocellulosic biomass the last three chapters present the industrial status and techno economic analysis of lignocellulosic biobutanol production audience the book will be useful for researchers in the areas of various branches of life sciences such as environmental biotechnology bioprocess engineering renewable energy chemical engineering nanotechnology biotechnology microbiology

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