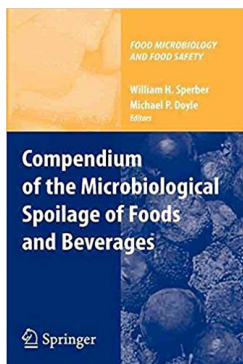
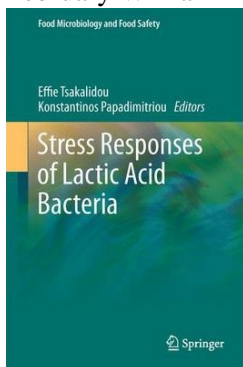


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Microbiological Spoilage of Fruits and Vegetables

Margaret Ruth, Thomas R. Harkness, Hong Zhang, and Frederick Kroll

Introduction

Consumption of fruit and vegetable products has dramatically increased in the United States in recent years. The Food and Drug Administration (FDA) has estimated that about 20% of all fruits and vegetable production has gone to waste or spoilage. The focus of this chapter is to provide a general background on the microbiological spoilage of fruit and vegetable products that are regarded in these categories: fresh whole fruit and vegetable products, fresh cut fruit and vegetable, and processed and ready-to-eat vegetable products. The chapter will address identification of spoilage microorganisms associated with each of these fruit and vegetable categories including spoilage mechanisms, spoilage ability, prevention and control of spoilage, and methods for detecting spoilage microorganisms.

Microbiological Spoilage of Fresh Whole Fruits and Vegetables

Appearance

During the period 1970–2004, US per capita consumption of fruits and vegetables increased by 18.9% to 60.7 pounds per capita per year (ERS, 2007). Fruit and vegetable consumption increased by 24 and 23%, respectively, and for combined all sources obtained for processed fruit and vegetable products. It is important to note that the increase in the consumption of fresh fruit and vegetable products is not necessarily a result of increased consumption of processed and vegetable products.

The data reveal a small, increased produce consumption can be attributed, at least in part, to increased awareness in healthy eating habits as revealed by a trend shift of research addressing food consumption and health and prevention for the consumer.

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This book is a comprehensive reference on the microbiology of food, covering the entire field of food microbiology. It is the most comprehensive and authoritative text available on the subject. The book is written by two of the leading authorities in the field, and is a must-read for anyone interested in food microbiology.

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