Addresses Campylobacter, Listeria, Staphylococcus aureus, Salmonella, Vibrio and Helicobacter Discusses biosensor-based solutions to combat these health-threatening conditions. Identifies the advances in biotechnology, emerging technologies, foodborne diseases, their emergence and inquiries, along with the most investigated and successful strategies developed for food safety and quality control. The focus of the book is regional, emphasizing the need to maintain food and fiber production while ensuring environmental impacts where fertilizer is abundant, and the need to enhance fertilizer utilization in crop production and to reduce environmental impacts of fertilizer use. This book presents the latest research findings from around the world, focusing on the impact of nitrogen on the environment.

Foodborne Diseases, Volume Fifteen, is the latest release in the series that focuses on emerging and foodborne diseases. This volume offers a comprehensive overview of the latest research findings in the field of food safety and quality control.

Parenting Matters: The Science and Practice of Parenting. This report makes recommendations directed at an array of government agencies, public and private sectors, and families, to improve the well-being and healthy development of children ages 0-8; universal/preventive and targeted strategies used in a variety of settings that have demonstrated that the parent-child dyad and the environment of the family—which includes all primary caregivers—are at the foundation of children's well-being and healthy development. First, parents are learning and rely on parents and the other caregivers in their lives to protect and care for them. The impact of parents may be greater than during the earliest years of life, when a child's brain is rapidly developing and when nearly all of her experiences are created and shaped by parents and the family environment. Parents help children build and refine their knowledge and skills, shaping a trajectory for their health and well-being during childhood and beyond. The experience of parenting also impacts parents themselves. For instance, parenting can enrich and give focus to parents' lives; generate stress or strain; and create any number of emotions, including feelings of happiness, sadness, fulfillment, and anger. Parenting of young children today takes place in the context of significant ongoing developments. These include: a rapidly growing body of science on early childhood, increases in funding for programs focused on early childhood education and care, and the growing diversity of family structures.

Building on recent work and exciting findings about the predictability of the Benguela and other coastal upwelling ecosystems, the book takes a look towards the future and highlights the difficulty of making predictions in such complex and variable regions. The book illustrates what scientists and managers from developing and developed countries can achieve by working together, and it has a solid base upon which to build wise management and ensure sustainable use of the ecosystem. Essential reading and a valuable reference work on the Benguela Current Large Marine Ecosystem.