



# **Foodomics: Advanced Mass Spectrometry in Modern Food Science and Nutrition (Wiley Series on Mass Spectrometry)**

*Alejandro Cifuentes*

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**Provides the latest "-omics" tools to advance the study of food and nutrition**

The rapidly emerging field of foodomics examines food and nutrition by applying advanced "-omics" technologies in order to improve people's health, well-being, and knowledge. Using tools from genomics, transcriptomics, epigenomics, proteomics, and metabolomics, foodomics offers researchers new analytical approaches to solve a myriad of current challenges in food and nutrition science.

This book presents the fundamentals of foodomics, exploring the use of advanced mass spectrometry techniques in food science and nutrition in the post-genomic era. The first chapter of the book offers an overview of foodomics principles and applications. Next, the book covers:

- Modern instruments and methods of proteomics, including the study and characterization of food quality, antioxidant food supplements, and food allergens
- Advanced mass spectrometry-based methods to study transgenic foods and the microbial metabolome
- Mass spectrometry-based metabolomics in nutrition and health research
- Foodomics' impact on our current understanding of micronutrients (phenolic compounds and folates), optimal nutrition, and personalized nutrition and diet related diseases
- Principles and practices of lipidomics and green foodomics
- Use of chemometrics in mass spectrometry and foodomics

The final chapter of *Foodomics* explores the potential of systems biology approaches in food and nutrition research. All the chapters conclude with references to the primary literature, enabling readers to explore individual topics in greater depth.

With contributions from a team of leading pioneers in foodomics, this book enables students and professionals in food science and nutrition to take advantage of the latest tools to advance their research and open up new areas of food and nutrition investigation.

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Playing with family within a park, coming to see the marine world or hanging out with good friends is thing that usually you will have done when you have spare time, after that why you don't try thing that really opposite from that. 1 activity that make you not sensation tired but still relaxing, trilling like on roller coaster you are ride on and with addition associated with. Even you love Foodomics: Advanced Mass Spectrometry in Modern Food Science and Nutrition (Wiley Series on Mass Spectrometry), you may enjoy both. It is very good combination right, you still need to miss it? What kind of hangout type is it? Oh occur its mind hangout guys. What? Still don't have it, oh come on its named reading friends.

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This Foodomics: Advanced Mass Spectrometry in Modern Food Science and Nutrition (Wiley Series on Mass Spectrometry) is completely new way for you who has fascination to look for some information because it relief your hunger info. Getting deeper you into it getting knowledge more you know otherwise you who still having tiny amount of digest in reading this Foodomics: Advanced Mass Spectrometry in Modern Food Science and Nutrition (Wiley Series on Mass Spectrometry) can be the light food for you personally because the information inside this particular book is easy to get simply by anyone. These books produce itself in the form that is reachable by anyone, sure I mean in the e-book web form. People who think that in guide form make them feel drowsy even dizzy this book is the answer. So there isn't any in reading a e-book especially this one. You can find what you are looking for. It should be here for you. So , don't miss it! Just read this e-book sort for your better life and knowledge.

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