



## Applications of Advanced Omics Technologies: From Genes to Metabolites (Comprehensive Analytical Chemistry)

From Elsevier

Download now

Read Online 

### Applications of Advanced Omics Technologies: From Genes to Metabolites (Comprehensive Analytical Chemistry) From Elsevier

The book contains contributions concerning the application of the new instrumental and methodological developments in omics technologies, including those related to Genomics, Transcriptomics, Proteomics, Peptidomics and Metabolomics, Lipidomics and Foodomics. The 16 chapters discuss in detail: innovative applications of functional gene microarrays for profiling microbial communities, microRNA profiling, novel genotyping applications using microarray technology in cancer research, next-generation sequencing applied to the study of human microbiome, emerging RNA-SEQ applications in food science, recent progress in plant proteomics, applications of gel-free proteomic approaches, the challenges and applications of proteomics tools for food authenticity, the role of salivary peptidomics in clinical applications, metabolomic approaches to the study of degenerative, cardiovascular and renal diseases, and neonatal medicine. Also covered are other omics applications such as profiling of genetically modified organisms, the fundamentals, applications and challenges of foodomics, and MS-based lipidomics. Moreover, this volume includes relevant and updated aspects on bioinformatics, data treatment, data integration and systems biology. This book complements the previous volume "Fundamentals of Advanced Omics Technologies: New Advances from Genes to Metabolites" that covered the fundamental aspects of these new omics technologies.

- Describes the latest applications of omics technologies
- Provides an excellent reference for applications of advanced omics techniques
- Includes advanced tools and methodologies for dealing with the data generated

 [Download Applications of Advanced Omics Technologies: From ...pdf](#)

 [Read Online Applications of Advanced Omics Technologies: Fro ...pdf](#)



# Applications of Advanced Omics Technologies: From Genes to Metabolites (Comprehensive Analytical Chemistry)

*From Elsevier*

## **Applications of Advanced Omics Technologies: From Genes to Metabolites (Comprehensive Analytical Chemistry) From Elsevier**

The book contains contributions concerning the application of the new instrumental and methodological developments in omics technologies, including those related to Genomics, Transcriptomics, Proteomics, Peptidomics and Metabolomics, Lipidomics and Foodomics. The 16 chapters discuss in detail: innovative applications of functional gene microarrays for profiling microbial communities, microRNA profiling, novel genotyping applications using microarray technology in cancer research, next-generation sequencing applied to the study of human microbiome, emerging RNA-SEQ applications in food science, recent progress in plant proteomics, applications of gel-free proteomic approaches, the challenges and applications of proteomics tools for food authenticity, the role of salivary peptidomics in clinical applications, metabolomic approaches to the study of degenerative, cardiovascular and renal diseases, and neonatal medicine. Also covered are other omics applications such as profiling of genetically modified organisms, the fundamentals, applications and challenges of foodomics, and MS-based lipidomics. Moreover, this volume includes relevant and updated aspects on bioinformatics, data treatment, data integration and systems biology. This book complements the previous volume "Fundamentals of Advanced Omics Technologies: New Advances from Genes to Metabolites" that covered the fundamental aspects of these new omics technologies.

- Describes the latest applications of omics technologies
- Provides an excellent reference for applications of advanced omics techniques
- Includes advanced tools and methodologies for dealing with the data generated

## **Applications of Advanced Omics Technologies: From Genes to Metabolites (Comprehensive Analytical Chemistry) From Elsevier Bibliography**

- Rank: #3812220 in eBooks
- Published on: 2014-05-08
- Released on: 2014-05-08
- Format: Kindle eBook

 [Download Applications of Advanced Omics Technologies: From ...pdf](#)

 [Read Online Applications of Advanced Omics Technologies: Fro ...pdf](#)

## **Editorial Review**

### **About the Author**

Virginia García-Cañas works in the Laboratory of Foodomics on the development of advanced analytical methods for: Foodomics, including Genomics and Transcriptomics; food quality; food safety; and Nutrigenomic studies. Her research covers: i) development of advanced DNA/RNA-based methods for food analysis (genetically-modified organisms, pathogens, etc.), and ii) Nutrigenomic study of the effect of dietary polyphenols on cancer. She has published over 45 SCI papers and 7 book chapters. Her h index is 19 and her works have received over 900 citations (August-2013).

Dr. Alejandro Cifuentes is a Full Research Professor at the National Research Council of Spain (CSIC) in Madrid and Head of the Laboratory of Foodomics. He has been Director of the Institute of Food Science Research and Deputy Director of the Institute of Industrial Fermentations, both belonging to CSIC. Currently he is Director of the Metabolomics Platform belonging to the International Excellence Campus UAM+CSIC. Alejandro's activity includes the development of advanced analytical methods (e.g., metabolomics, transcriptomics, proteomics) for foodomics, food quality and safety, as well as extraction and characterization of bioactive compounds from natural sources and their effect on human health. He holds different national and international awards, is member of the Editorial Board of 11 international journals (including J. Chromatogr. A, J. Pharmaceut. Biomed., J. Sep. Sci., Food Anal. Method., Int. J. Mol. Sci.) and Editor of TrAC-Trends in Analytical Chemistry, Electrophoresis and Current Opinion in Food Science (Foodomics Section). He has published more than 230 SCI papers, 20 books and book chapters and 8 patents. His h index is 56 (February 2016) and his works have received more than 10000 citations. Alejandro has given more than 150 invited lectures in different national and international meetings in Europe, Asia, Africa, America and Oceania. He has defined for the first time in a SCI journal the new discipline of Foodomics.

Carolina Simó is a Tenured Researcher at the National Research Council of Spain (CSIC) in Madrid, she develops her scientific activities in the Laboratory of Foodomics. Her running research lines include: i) Method development using electrophoretic/chromatographic techniques coupled to mass spectrometry for Proteomics and Metabolomics. ii) Food safety assessment, quality control and other features related to food processing, storage, authenticity; iii) Study of the effect of diet on health/disease and the mechanisms of nutrients and bioactive food components at the molecular level. She has published over 50 SCI papers and 10 book chapters. Her h index is 20 and her works have received over 1000 citations (August-2013).

## **Users Review**

### **From reader reviews:**

#### **Aaron Eldred:**

Reading a guide tends to be new life style within this era globalization. With studying you can get a lot of information that will give you benefit in your life. Having book everyone in this world can easily share their idea. Ebooks can also inspire a lot of people. Many author can inspire their very own reader with their story or even their experience. Not only the story that share in the books. But also they write about advantage about something that you need instance. How to get the good score toefl, or how to teach your sons or daughters, there are many kinds of book which exist now. The authors these days always try to improve their

proficiency in writing, they also doing some investigation before they write with their book. One of them is this Applications of Advanced Omics Technologies: From Genes to Metabolites (Comprehensive Analytical Chemistry).

**Barbara Jackson:**

Reading can called brain hangout, why? Because while you are reading a book specifically book entitled Applications of Advanced Omics Technologies: From Genes to Metabolites (Comprehensive Analytical Chemistry) your brain will drift away trough every dimension, wandering in each and every aspect that maybe unknown for but surely will end up your mind friends. Imaging each word written in a book then become one form conclusion and explanation this maybe you never get prior to. The Applications of Advanced Omics Technologies: From Genes to Metabolites (Comprehensive Analytical Chemistry) giving you another experience more than blown away the mind but also giving you useful details for your better life on this era. So now let us teach you the relaxing pattern the following is your body and mind will be pleased when you are finished studying it, like winning a casino game. Do you want to try this extraordinary wasting spare time activity?

**Juan Jensen:**

Don't be worry if you are afraid that this book may filled the space in your house, you will get it in e-book means, more simple and reachable. This specific Applications of Advanced Omics Technologies: From Genes to Metabolites (Comprehensive Analytical Chemistry) can give you a lot of friends because by you taking a look at this one book you have thing that they don't and make you actually more like an interesting person. This particular book can be one of one step for you to get success. This e-book offer you information that maybe your friend doesn't realize, by knowing more than various other make you to be great men and women. So , why hesitate? We need to have Applications of Advanced Omics Technologies: From Genes to Metabolites (Comprehensive Analytical Chemistry).

**Richard King:**

As a scholar exactly feel bored for you to reading. If their teacher questioned them to go to the library as well as to make summary for some guide, they are complained. Just very little students that has reading's internal or real their hobby. They just do what the trainer want, like asked to the library. They go to generally there but nothing reading very seriously. Any students feel that reading through is not important, boring and can't see colorful photographs on there. Yeah, it is for being complicated. Book is very important for you. As we know that on this age, many ways to get whatever we would like. Likewise word says, ways to reach Chinese's country. Therefore this Applications of Advanced Omics Technologies: From Genes to Metabolites (Comprehensive Analytical Chemistry) can make you feel more interested to read.

**Download and Read Online Applications of Advanced Omics**

**Technologies: From Genes to Metabolites (Comprehensive Analytical Chemistry) From Elsevier #MPEWY23SOJI**

## **Read Applications of Advanced Omics Technologies: From Genes to Metabolites (Comprehensive Analytical Chemistry) From Elsevier for online ebook**

Applications of Advanced Omics Technologies: From Genes to Metabolites (Comprehensive Analytical Chemistry) From Elsevier Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Applications of Advanced Omics Technologies: From Genes to Metabolites (Comprehensive Analytical Chemistry) From Elsevier books to read online.

### **Online Applications of Advanced Omics Technologies: From Genes to Metabolites (Comprehensive Analytical Chemistry) From Elsevier ebook PDF download**

**Applications of Advanced Omics Technologies: From Genes to Metabolites (Comprehensive Analytical Chemistry) From Elsevier Doc**

**Applications of Advanced Omics Technologies: From Genes to Metabolites (Comprehensive Analytical Chemistry) From Elsevier Mobipocket**

**Applications of Advanced Omics Technologies: From Genes to Metabolites (Comprehensive Analytical Chemistry) From Elsevier EPub**

**MPEWY23SOJI: Applications of Advanced Omics Technologies: From Genes to Metabolites (Comprehensive Analytical Chemistry) From Elsevier**