



toxins



Special Issue Reprint

Application of LC-MS/MS in the Mycotoxins Studies

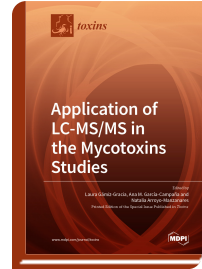
www.mdpi.com/books/reprint/2382

Edited by

Laura Gámiz-Gracia

Ana M. García-Campaña

Natalia Arroyo-Manzanares



ISBN 978-3-03936-206-6 (Softback)

ISBN 978-3-03936-207-3 (PDF)

Mycotoxins are secondary metabolites produced by the fungi of different species (mainly *Aspergillus*, *Fusarium*, and *Penicillium*), with toxic effects for humans and animals. These mycotoxins can contaminate food and feed. The European Union (EU) has established the maximum permitted or recommended levels for well-known mycotoxins in different foodstuffs. However, there are other mycotoxins that are not included in the regulations: the “emerging mycotoxins” (whose toxicity is still not clear), and the “modified or masked mycotoxins” (produced as a consequence of a detoxification strategy of the host plant of the fungus or during food processing). These mycotoxins could pose a risk and should also be taken into account. In order to assure consumers’ health, analytical methods for the accurate determination of mycotoxins in different food matrices and feeds are required. In this sense, liquid chromatography tandem mass spectrometry (LC–MS/MS) is a powerful tool for their unique identification and quantification. Moreover, the use of high-resolution mass spectrometry (HRMS) allows one to identify novel mycotoxins and targeted/untargeted approaches for study. This Special Issue compiles recent applications of LC–MS/MS in mycotoxin studies, as well as the development and validation of new analytical methods for their identification and quantification in different food matrices and feed, occurrence studies, and the biomonitoring of mycotoxins and their metabolites in biological fluids.



Order Your Print Copy

You can order print copies at

www.mdpi.com/books/reprint/2382

MDPI Books offers quality open access book publishing to promote the exchange of ideas and knowledge in a globalized world. MDPI Books encompasses all the benefits of open access – high availability and visibility, as well as wide and rapid dissemination. With MDPI Books, you can complement the digital version of your work with a high quality printed counterpart.



Open Access

Your scholarly work is accessible worldwide without any restrictions. All authors retain the copyright for their work distributed under the terms of the Creative Commons Attribution License.



Author Focus

Authors and editors profit from MDPI's over two decades of experience in open access publishing, our customized personal support throughout the entire publication process, and competitive processing charges as well as unique contributor discounts on book purchases.



High Quality & Rapid Publication

MDPI ensures a thorough review for all published items and provides a fast publication procedure. State-of-the-art research and time-sensitive topics are released with a minimum amount of delay.



High Visibility

Due to our global network and well-known channel partners, we ensure maximum visibility and broad dissemination. Title information of books is sent to international indexing databases and archives, such as the Directory of Open Access Books (DOAB), and the Verzeichnis Lieferbarer Bücher (VLB).



Print on Demand and Multiple Formats

MDPI Books are available for purchase and to read online at any time. Our print-on-demand service offers a sustainable, cost-effective and fast way to publish MDPI Books printed versions.