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Lecture 1 | KAHE MNR International

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Chromatography CHROMATOGRAPHY

PART 1 ~~Types Of Chromatography~~

Example: Upscaling chromatographic
column Chromatographic Methods In

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About this book. The concept of a metabolic profile was introduced in 1971, when gas chromatography demonstrated a range of compounds present in human samples. Now termed metabolomics, the field is still emerging, and chromatography remains an essential tool

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for determining metabolites in a living system. This is the first book to present the chromatographic techniques used in metabolomics in a fundamental way.

Chromatographic Methods in
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Often, examples are given to technological

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solutions which are not applied to metabolomics per se, but rather to related fields. Throughout this chapter, the emphasis is put on microchip electrophoresis (MCE) techniques. In addition, practical aspects related to pressurized methods, such as microchip liquid chromatography, are also presented.

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This chapter describes both non-targeted and targeted methods for various metabolic approaches. The aim is to give the reader a general overview of the various types of chromatographic and

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electromigration methodologies available for the analysis of specific types of metabolites and to compare their suitabilities for metabolomic analyses.

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Metabolomics. Christian J. Wachsmuth, Franziska C. Vogl, Peter J. Oefner and Katja Dettmer. High chemical diversity and abundances ranging from trace to millimolar levels still constitute at times insurmountable challenges in the comprehensive analysis of metabolites in biomedical specimens. Nuclear magnetic

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resonance (NMR) spectroscopy and mass spectrometry (MS) hyphenated with separation techniques such as liquid chromatography (LC), gas chromatography (GC

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Robert S. Plumb and Ian D. Wilson In the
past decade, LC-MS ...

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Metabolomics. Susanne K. Wiedmer and
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Metabolomics methods Separation
methods □ Gas chromatography (GC) □ one
of the most widely used and powerful

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methods □ high chromatographic Rsc

resolution □ compounds must be volatile

(or derivatized) □ High performance liquid

chromatography (HPLC) □ lower

chromatographic resolution □ wider range

of analytes can be analyzed (polar) □

Capillary electrophoresis (CE)

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Collection, Storage and Preparation.

Tuulia Hyötyläinen The first steps of the

workflow in metabolomics include

sampling, sample pre-processing and

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sample preparation. In this chapter, the sample types and sample preparation techniques utilized in metabolomics are presented ...

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Hyötyläinen This chapter summarizes the
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metabolomics Wiedmer, Susanne ;
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Chemistry (Great Britain) Metabolomics is an emerging field and this is the first book to present chromatographic techniques in metabolomics in a fundamental way

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Metabolomics CHAPTER 8 Data

Handling. Tuulia Hyötyläinen and Matej

Orešič Typical metabolomics experiments produce large amounts of information that need to be ...

CHAPTER 8 - Chromatographic Methods

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Metabolomics is the 19th book in the

series "RSC Chromatography

Monographs". This monograph focuses on

descriptions of important experimental

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aspects of metabolomics studies that use chromatography methods, including gas chromatography (GC)

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This is an essential handbook for any laboratory looking to embark on a metabolomics research programme and includes the fundamentals of chromatography alongside the latest

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Chromatography demonstrated a range of compounds present in human samples. Now termed metabolomics, the field is still emerging, and chromatography remains an essential tool for determining metabolites in a living system. This is the first book to present the chromatographic techniques used in metabolomics in a

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fundamental way. Sample preparation and quality control are described in detail, and all forms of chromatography applied to metabolomics are included. The editors present guidelines on selecting the most appropriate methodology, making the book an accessible guide to anyone entering the field. Handling data and

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applications are also described. This is an essential handbook for any laboratory looking to embark on a metabolomics research programme and includes the fundamentals of chromatography alongside the latest developments in the field.

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The efficient analysis of polar and charged metabolites in biological samples remains a huge challenge in the field of metabolomics. Over the past years, novel mass spectrometry-based analytical tools have been developed to enable the sensitive and efficient profiling of polar ionogenic metabolites in various

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biological samples. This book gives the reader a comprehensive overview of these recent technological developments. Topics covered include the use of chemical labelling strategies for allowing the analysis of polar metabolites using reversed-phase liquid chromatography—mass spectrometry

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(RPLC-MS) and the latest methodological developments in RPLC-MS, hydrophilic interaction liquid chromatography (HILIC)-MS and ion-pair LC-MS approaches. Attention is also paid to developments in nano-LC-MS and capillary electrophoresis-mass spectrometry methods specifically for

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profiling polar metabolites in small

volume biological samples. The utility of

ion-mobility MS and NMR spectroscopy

will also be outlined. Sample preparation

is the key part in the analytical workflow

employed for metabolomics. Therefore,

ample emphasis will be given on recent

solid-phase extraction and solid-phase

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micro-extraction methods. Finally, analytical techniques for chiral metabolic profiling will also be considered.

Discussing the state-of-the-art of the proposed topics in one single book for probing the polar metabolome, using relevant examples, is unique and needed in the metabolomics field. This book has

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metabolites in biological samples. In this book, the unique features of CE-MS for metabolomics studies are highlighted including CE separation modes, capillary coatings and practical aspects of CE-MS coupling alongside a comprehensive overview of recent technological developments and applications. CE-MS

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can be considered a relatively new technique in the field of metabolomics and it is therefore important to inform the scientific community about the possibilities of advanced CE-MS approaches for metabolomics studies. This book outlines the potential of this technique for researchers working in

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software is created by the academic

community, which facilitates the direct

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Over the last decade, the use of ion mobility separation in combination with mass spectrometry analysis has developed

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numerous different commercial platforms to choose from, this book will help the end users understand the practicalities of using different instruments for different ion mobility purposes. The first section provides a detailed account of the fundamentals behind the technique and the current range of available instrumentation.

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The second section focusses on the wide range of applications that have benefitted from ion mobility \square mass spectrometry and includes topics taken from current research in the pharmaceutical, metabolomics, glycomics, and structural molecular biology fields. The book is primarily aimed at researchers, appealing to

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practising chemists and biochemists, as well as those in the pharmaceutical and medical fields.

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In this comprehensive resource the Editor draws together experts from the field and provides an insightful introduction into the technology and methodology.

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Since its commercial introduction in 2004, UHPLC (Ultra-High Performance Liquid Chromatography) has begun to replace conventional HPLC in academia and industry and interest in this technique continues to grow. Both the increases in speed and resolution make this an

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attractive method; particularly to the life sciences and more than 1500 papers have been written on this strongly-evolving topic to date. This book provides a solid background on how to work with UHPLC and its application to the life sciences. The first part of the book covers the basics of this approach and the specifics of a

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UHPLC system, providing the reader with a solid background to working properly with such a system. The second part examines the application of UHPLC to the life sciences, with a focus on drug analysis strategies. UHPLC-MS, a key technique in pharmaceutical and toxicological analyses, is also examined in detail. The editors

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(Davy Guillarme and Jean-Luc Veuthey)

were some of the earliest adopters of UHPLC and have published and lectured extensively on this topic. Between them they have brought together an excellent team of contributors from Europe and the United States, presenting a wealth of expertise and knowledge. This book is an

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essential handbook for anyone wishing to adopt an UHPLC system in either an academic or industrial setting and will benefit postgraduate students and experienced workers alike.

Time is an important factor in physical and natural sciences. It characterizes the

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progress of chemical and biochemical processes. Mass spectrometry provides the means to study molecular structures by detecting gas-phase ions with the unique mass-to-charge ratios. Time-resolved mass spectrometry (TRMS) allows one to differentiate between chemical states that can be observed sequentially at different

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introduced during the past few decades have shown temporal resolutions ranging from hours down to microseconds and beyond. This text covers the key aspects of

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TRMS. It introduces ion sources, mass analyzers, and interfaces utilized in time-resolved measurements; discusses the influence of data acquisition and treatment; finally, it reviews most prominent applications of TRMS in the studies of reaction kinetics and mechanism, physicochemical phenomena,

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protein structure dynamics, biocatalysis, and metabolic profiling. It will assist science and engineering students to gain a basic understanding of the TRMS concept, and to recognize its usefulness. In addition, it may benefit scientists who conduct molecular studies in the areas of chemistry, physics and biology.

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Metabolomics is increasingly being used to explore the dynamic responses of living systems in biochemical research. The complexity of the metabolome is outstanding, requiring the use of complementary analytical platforms and methods for its quantitative or qualitative

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profiling. In alignment with the selected analytical approach and the study aim, sample collection and preparation are critical steps that must be carefully selected and optimized to generate high-quality metabolomic data. This book showcases some of the most recent developments in the field of sample

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preparation for metabolomics studies.

Novel technologies presented include electromembrane extraction of polar metabolites from plasma samples and guidelines for the preparation of biospecimens for the analysis with high-resolution \square magic-angle spinning nuclear magnetic resonance (HR- \square MAS NMR). In

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In the following chapters, the spotlight is on sample preparation approaches that have been optimized for diverse bioanalytical applications, including the analysis of cell lines, bacteria, single spheroids, extracellular vesicles, human milk, plant natural products and forest trees.

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The coupling of mass spectrometry or nuclear magnetic resonance to chromatography has broadened the possibilities for determining organic reaction mechanisms. And while many results have been published reporting these, even more can be achieved through modern computational methods.

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Combining computational and theoretical techniques with advanced chromatographic methods offers a powerful tool for quantitatively determining molecular interactions . This book presents the possibilities for characterising biological applications by combining analytical and computational

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in Metabolomics. Written by the author of
[HPLC: A Practical Guide] (RSC, 1999),
the book examines not only the behaviour
of biological reactions per se, but also
describes the behaviour of biological
molecules in chromatography systems.
Various software packages are reviewed,
and most computations can be performed

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on a standard PC using accessible software. Consideration is given to a variety of chromatographic techniques and strategies for high-sensitivity detection are presented. The first book of its kind, it will inspire readers to explore the possibilities of combining these techniques in their own work, whether at an industrial or

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