

Microwave Assisted Proteomics is an introduction to microwave-assisted bio-analytical methods with an emphasis on sample preparation for proteomic analyses. Its objective is to provide an overview of the history of microwave-assisted proteomics whilst providing a background for the methods described.

The book summarizes the development and application of these protocols from both the literature in this field as well as from the experiences of a variety of laboratories conducting microwave-assisted protocols. In-depth discussions on several microwave-assisted methods such as enzymatic and chemical proteolytic reactions, microwave-assisted acid hydrolysis for N-terminal sequencing and for amino acid analysis are included.

In addition to describing the evolution of the microwave-assisted methodologies, the book also includes mechanisms of action as well as an overview of the types of instrumentation available to help the reader develop the best experimental design for their own budget and experimental aims. Other key features of the book include an overview of instrumentation types and limitations and provision of a concise and practical protocol section for the researcher to carry out the experiments in their own laboratory.

Microwave-assisted proteomics is a rapidly evolving field and this unique book captures the main areas that fall under this emerging arena.

ISBN 978-0-85404-194-7



RSC Publishing

www.rsc.org/books