

Preface

It is our great pleasure to welcome you to the 2nd biannual meeting of the new series “International Plant Spectroscopy Conference” (IPSC) in Berlin!

The main reason for the IPSC initiative is to provide a platform for spectroscopists and plant scientists to present and discuss new developments in their respective fields of spectroscopy and spectrometry on an international level. The event aims to gather scientists from fundamental to applied research, highlighting applications from academia to industry.

The founder of this meeting series is the International Society for Plant Spectroscopy (ISPS), but each meeting draws heavily on and shares responsibilities with the local hosts, in this case the German Society for Quality Research of Plant Foods (DGQ). The high level of participation (ca. 140 people from 5 continents, with more than 45 lectures and 42 poster contributions) clearly demonstrates that the conference is very topical and timely, with numerous research institutions in the world already dedicated to this field of science. In addition to participants from academia, representatives from industry as well as from national and international authorities join the meeting to present and discuss recent findings and issues, develop networks and identify future research priorities.

The conference covers all modern techniques used for plant analysis, such as various kinds of infrared and Raman spectroscopies, mass spectrometry, NMR spectroscopy and hyperspectral imaging. Special attention is paid to chemometrics, the statistical interpretation of the complex and extensive data sets. In this context, plant metabolite profiling emerges as an increasingly important tool too, aiding in the better understanding of complex plant-physiological relationships. From the materials side, a broad range of plant species, tissues and cell types are represented, extending beyond major cell wall components and their derivatives to also cover the extractions of dyes, pharmaceutically active components or their precursors, bio-based pesticides, and the isolation of vegetable oils, aroma extracts and bioactive nutraceuticals.

Naturally, organising an event with such scope and scale is impossible without the dedication, hard work and support of a great number of people. Therefore, we would like to take this opportunity and thank the national and international organising committee for their work, not least in the preparation of this book. We, the organisers, would also like to hereby thankfully acknowledge the financial support provided by our home institutions, as well as by the German Research Foundation, and several private companies and journal publishers as sponsors.

Last, but most certainly not least, we are indebted to the local organisers and staff at the conference, the invited and plenary speakers, as well as all presenters and participants.

Thank you all for making this conference a productive and amiable meeting.

Berlin, March 2019

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