



## Preface



The 32nd Annual Meeting of the Japanese Society for Biomedical Mass Spectrometry (JSBMS) was held on September 27 and 28, 2007, at Shiran Kaikan in Kyoto University, Kyoto, Japan.

This meeting covered a variety of biomedical applications of mass spectrometry, such as diagnosis and disease state assessment of inherited metabolic disorders, forensic toxicological analysis, proteomics analysis including mass imaging/mass microscopy, and metabolomics analysis.

A Keynote lecture was presented by Professor Richard M. Caprioli of Vanderbilt University Medical Center under the title of "Molecular imaging and profiling of tissues sections using mass spectrometry: applications in biological and clinical research". We are very much honored that he attended our meeting and shared updated information with Japanese scientists in this field.

The first symposium focused on the clinical applied proteomics featured by focused and quantitative analysis. Five invited lectures included quantitative analysis using  $^{18}\text{O}$ -labeling, ultra high resolution high speed imaging mass spectrometric technology, proteomics in rheumatic diseases, specific glycopeptides of IgA1 hinge region in IgA nephropathy, and cancer biomarker detection by label-free shot-gun proteomics analysis.

The second symposium focused on the application of mass spectrometry in newborn screening in Japan. Six invited lectures were given on the quality control of tandem mass spectrometric analysis in screening laboratories and the approach of improving screening indices and diagnostic tools.

The third symposium was focused on the tandem mass spectrometric analysis in forensic fields. Three invited lectures included on-line/off-line biological sample preparation methods for LC-MS-MS analysis of drugs and poisons, MS-MS analyses of designer drugs, and determination of metal-chelate complexes by electrospray ionization MS-MS.

The Matsumoto Isamu Award Lecture was presented by Professor Toshimitsu Niwa under the topic of application of mass spectrometry to clinical medicine, especially nephrology.

This special issue is published as the proceedings of the 32nd Annual Meeting of JSBMS at Kyoto. We would like to thank all the contributors to this issue. There were 44 presentations and 184 attendants at this meeting, and we would also like to thank all the speakers, participants, and staff members of University of Fukui for excellent papers, earnest discussion and cooperation in this fruitful meeting.

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