Biomedical mass spectrometry

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Nowadays mass spectrometry is increasingly applicable to biomedicine. For many decades, mass spectrometry (MS) has been a major tool for structural analytical chemistry in biomedical fields such as forensic medicine, laboratory medicine, biochemistry, and pharmacology. More recently, after the genome era, proteomics and metabolomics are becoming more popular in the many fields of biology and medicine. In those “omics” approach, mass spectrometric techniques are not only useful but also nearly essential. Recent advances of mass spectrometry are serving the expectation of comprehensive coverage for those “systems biology approaches”. In this special issue on biomedical mass spectrometry, state-of-the-art examples of these efforts are published. Some are novel techniques and findings for diagnosis of metabolic diseases by liquid chromatography–MS, electrospray–MS–MS, or gas chromatography–MS. Further, several works are based on imaging MS, which is a brand new approach of MS with spatial information. We

hope readers will benefit from this overview of recent advances in biomedical mass spectrometry.

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