

# *Medical Mass Spectrometry*

## “Lipidomics” Vol. 6 No. 2, 2022 Guest Editor, Makoto Arita

### Preface

MMS Special Issue “Lipidomics” ..... Makoto Arita 71

### Reviews

Investigating oxidized lipids in an omics way:

Oxidative lipidomics in biological applications using mass spectrometry ..... Zhen Chen, Xunzhi Wu, Hitoshi Chiba, Shu-Ping Hui 72

Lysophosphatidic acids in cerebrospinal fluids:

Potential biomarkers and therapeutic targets for neuropathic pain ..... Baasanjav Urbainbileg, Makoto Kurano, Masahiko Sumitani, Nobuko Ito, Kuniyuki Kano, Junken Aoki, Yutaka Yatomi 85

Advances in phosphoinositide profiling by mass spectrometry

..... Tsumugi Iwata, Yuki Ishino, Junken Aoki, Nozomu Kono 93

Application of LC-ESI-MS/MS in the analysis of lipid species in samples

from patients with X-linked adrenoleukodystrophy, a peroxisomal disease ..... Kotaro Hama, Yuko Fujiwara, Kazuaki Yokoyama 101

### Research Papers

Comprehensive analysis of fatty acid metabolites produced by gut microbiota using LC-MS/MS-based lipidomics

..... Kowa Tsuji, Wataru Shimada, Shigenobu Kishino, Jun Ogawa, Makoto Arita 112

Lipidomic and metabolic profiling of plasma and plasma-derived extracellular vesicles by UHPLC-MS/MS

..... Daisuke Saigusa, Takeshi Honda, Yuko Iwasaki, Koji Ueda, Eiji Hishinuma, Naomi Matsukawa, Akira Togashi, Noriyuki Matsutani, Nobuhiko Seki 126

### Short Communication

Quantification of threonine-containing lysophospholipids using ESI-LC-MS/MS in mouse tissues

..... Michiyo Okudaira, Kuniyuki Kano, Kumiko Makide, Daisuke Saigusa, Tomohiko Ohwada, Junken Aoki 138



**Japanese Society for  
Biomedical Mass Spectrometry**