

Analytical and Bioanalytical Chemistry Special Issue Contents

Volume 400, Number 7, June 2011

35th ANNUAL MEETING OF THE JAPANESE SOCIETY FOR BIOMEDICAL MASS SPECTROMETRY, NAGOYA, JAPAN, 9-10 SEPTEMBER 2010

EDITORIAL

Biomedical mass spectrometry

Mitsutoshi Setou and Hisao Oka

REVIEW

Secreted phospholipase A₂, lipoprotein hydrolysis, and atherosclerosis: integration with lipidomics

Kei Yamamoto, Yuki Isogai, Hiroyasu Sato, Yoshitaka Taketomi and Makoto Murakami

ORIGINAL PAPERS

Urinary 2-hydroxy-5-oxoproline, the lactam form of α -ketoglutaramate, is markedly increased in urea cycle disorders

Tomiko Kuhara, Yoshito Inoue, Morimasa Ohse, Boris F. Krasnikov and Arthur J. L. Cooper

Triacylglycerol/phospholipid molecular species profiling of fatty livers and regenerated non-fatty livers in cystathionine beta-synthase-deficient mice, an animal model for homocysteinemia/homocystinuria

Kazutaka Ikeda, Akiko Kubo, Noriyuki Akahoshi, Hidenori Yamada, Naoya Miura, Takako Hishiki, Yoshiko Nagahata, Tomomi Matsuura, Makoto Suematsu, Ryo Taguchi and Isao Ishii

Authenticity assessment of beef origin by principal component analysis of matrix-assisted laser desorption/ionization mass spectrometric data

Nobuhiro Zaima, Naoko Goto-Inoue, Takahiro Hayasaka, Hirofumi Enomoto and Mitsutoshi Setou

Distribution of phospholipid molecular species in autogenous access grafts for hemodialysis analyzed using imaging mass spectrometry

Hiroki Tanaka, Nobuhiro Zaima, Naoto Yamamoto, Minoru Suzuki, Yuuki Mano, Hiroyuki Konno, Naoki Unno and Mitsutoshi Setou

A GC/MS-based metabolomic approach for diagnosing citrin deficiency

Tomiko Kuhara, Morimasa Ohse, Yoshito Inoue and Arthur J. L. Cooper

Semi-quantitative analyses of metabolic systems of human colon cancer metastatic xenografts in livers of superimmunodeficient NOG mice

Akiko Kubo, Mitsuyo Ohmura, Masatoshi Wakui, Takahiro Harada, Shigeki Kajihara, Kiyoshi Ogawa, Hiroshi Suemizu, Masato Nakamura, Mitsutoshi Setou and Makoto Suematsu

Use of the MALDI BioTyper system with MALDI–TOF mass spectrometry for rapid identification of microorganisms

Kazuyuki Sogawa, Masaharu Watanabe, Kenichi Sato, Syunsuke Segawa, Chisato Ishii, Akiko Miyabe, Syota Murata, Tomoko Saito and Fumio Nomura

Visualization of phosphatidylcholine, lysophosphatidylcholine and sphingomyelin in mouse tongue body by matrix-assisted laser desorption/ionization imaging mass spectrometry

Hirofumi Enomoto, Yuki Sugiura, Mitsutoshi Setou and Nobuhiro Zaima

Liquid chromatography–mass spectrometric determination of plasmalogens in human plasma

Shu-Ping Hui, Hitoshi Chiba and Takao Kurosawa

Abnormal phospholipids distribution in the prefrontal cortex from a patient with schizophrenia revealed by matrix-assisted laser desorption/ionization imaging mass spectrometry

Junya Matsumoto, Yuki Sugiura, Dai Yuki, Takahiro Hayasaka, Naoko Goto-Inoue, Nobuhiro Zaima, Yasuto Kunii, Akira Wada, Qiaohui Yang, Keisuke Nishiura, Hiroyasu Akatsu, Akira Hori, Yoshio Hashizume, Takayuki Yamamoto, Keiko Ikemoto, Mitsutoshi Setou and Shin-ichi Niwa

TECHNICAL NOTES

Determination of cyanide in blood by electrospray ionization tandem mass spectrometry after direct injection of dicyanogold

Kayoko Minakata, Hideki Nozawa, Kunio Gonmori, Itaru Yamagishi, Masako Suzuki, Koutaro Hasegawa, Kanako Watanabe and Osamu Suzuki

Prenatal diagnosis of methylmalonic aciduria by measuring methylmalonic acid in dried amniotic fluid on filter paper using gas chromatography-mass spectrometry

Yoshito Inoue and Morimasa Ohse

SHORT COMMUNICATION

High-throughput and simultaneous analysis of eight centralacting muscle relaxants in human plasma by ultraperformance liquid chromatography–tandem mass spectrometry in the positive and negative ionization modes

Tadashi Ogawa, Hideki Hattori, Rina Kaneko, Kenjiro Ito, Masae Iwai, Yoko Mizutani, Tetsuya Arinobu, Akira Ishii and Hiroshi Seno