The 11th Chromatography Symposium

Program

Thursday, May 20, 2004

10:30 Opening

10:40–12:00
Symposium I

L-1 Application of membrane columns for the separation of glycosylated polypeptides
Tomoyuki Ogata*, Yoshiyuki Watabe, Nobuo Tanaka, Hiroyoshi Minakuchi, Kazuki Nakanishi, Ken Hosoya

L-2 Preparation of high performance, uniformly sized separation media through porous silica membrane emulsification process
Mitsuko Bendo*, Hiroyoshi Minakuchi, Kazuki Nakanishi, Nobuo Tanaka, Ken Hosoya

L-3 Preparation and evaluation of column efficiency of monolithic silica capillary columns modified with β-cyclodextrin derivatives
Tohru Ikegami*, Yukiko Miyaji, Wataru Kajiwara, Hiroshi Fujita, Ken Hosoya, Nobuo Tanaka

L-4 Construction of gradient capillary electrochromatograph and its application for peptides separation
Rie Nakashima, Shinya Kitagawa*, Tatsunari Yoshida, Takao Tsuda

12:00–13:30 Lunch Break

13:30–15:00 Poster Session

15:00–15:10 Break

15:10–16:30
Lecture Session

L-5 The retention behavior of reversed-phase HPLC columns when used under 100% aqueous mobile phase conditions (4)
Naoki Fujita, Toshiyuki Enami, Norikazu Nagae*

L-6 Sample injection technique for HPLC with minimized carryover
Yuki Togashi* , Masashi Mita , Tsuneaki Kaneko , Osamu Shirota

L-7 Moment analysis of mass transfer kinetics in C_{18}-silica monolithic columns
Kanji Miyame*, Alberto Cavazzini, Fabrice Gritti, Marianna Klel, Georges Guiochon

L-8 Molecular modeling as a probe for studying mobile phase properties on reversed phase liquid chromatography
Fumiko Yamamoto

16:30–16:40 Break

16:40–17:40
Lecture Session

L-9 Development of a parallel HPLC system using monolithic silica capillary columns connected with chips
Daisuke Tokuda*, Tohru Ikegami, Ken Hosoya, Yukihiro Shintani, Masahiro Furuno, Norio Ishizuka, Hiroyoshi Minakuchi, Kazuki Nakanishi, Nobuo Tanaka

L-10 Determination of D-proline in mice and the study on the origins of the D-amino acid
Kenji Hamase*, Sayaka Takagi, Akiko Morikawa, Minako Nakata, Ryuichi Konno, Kiyoshi Zaitsu

L-11 Polymer-coated fiber-packed capillary column in gas chromatography
Yoshihiro Saito*, Mitsuhiro Ogawa, Motohiro Imaizumi, Hiroo Wada, Kiyokatsu Jinno

Friday, May 21, 2004

9:50–10:50
Symposium II

L-12 Nanoballs: Application for microchip electrophoresis
Mari Tabuchi*, Chie Kuwahara, Yukio Nagasaki, Kenichi Yosikawa, Kazunori Kataoka, Yoshinobu Baba

L-13 withdrawn

L-14 Novel sample injection methods for microchip electrophoresis
Mari Tabuchi*,Yoshinobu Baba

L-15 High quality proteome analysis
Mari Tabuchi*, Yasuhiro Kuramitsu, Kazuyuki Nakamura, Yoshinobu Baba

10:50–11:00 Break

11:00–12:00
Lecture Session

L-16 High sensitivity analysis of trace metal ions using sweeping and its applications in capillary electrophoresis
Kentaro Isoo*, Shigeru Terabe

L-17 Novel on-line preparation system for LC-MS: Powerful tool for characterization of ppm level impurities under the nonvolatile mobile phase condition
Masahiko Okamoto*, Kazuko Yamashita, Kiyoshi Nakai

L-18 High speed analysis of drugs in plasma by automated sample pretreatment LC/MS system
Keiko Yamabe*, Masatoshi Takahashi, Shin-ichi Kawano, Hirohisa Mikami

12:00–13:30 Lunch Break

13:30–14:50
Symposium III

S-1 Biomolecules meet MEMS/NEMS : molecular handling/measurement and conveyer base on biomotors
Hiroyuki Fujita

S-2 Nano/micro flow devices and systems for chemical/bio analysis
Shuichi Shoji*, Hironobu Sato, Masaki Kanai, Jeung Sang Go

14:50–15:10 Break

15:10–16:25
Symposium IV
Special Session in Honor of Prof. Terabe, 2004 ACS Chromatography Award recipient

Introductory remark (Koji Otsuka)

S-3 Miniaturization in liquid phase separation techniques: Proposed from Japan to the world
Kiyokatsu Jinno

S-4 New separation technologies: Created by nanotechnology
Yoshinobu Baba

S-5 Follow Terabe, a world leading scientist
Takehiko Kitamori

Remark (Shigeru Terabe)

16:25–16:40 Break

16:40–17:20
Symposium V
S-6 Chiral amplification and chiral sensing by helical polymers
Eiji Yashima

17:45– Reception

Poster Session

(Thursday, May 20, 2004, 13:30–15:00)

P-1 The retention behavior of polar stationary phases in the hydrophilic interaction chromatography (HILIC) mode
Norikazu Nagae*, Toshiyuki Enami

P-2 Rapid separation on monolithic capillary columns in LC
Atsushi Suzuki, Xiong Li, Lee Wah Lim, Toyohide Takeuchi*

P-3 Analysis of pharmaceuticals by high-performance liquid chromatography with chemiluminescence detection using ruthenium complex
Wang Wei*, Yuu Shibano, Satoru Asami, Takashi Suzuki, Mizue Makimura, Kazuo Uchikura

P-4 The development of drug metabolic evaluation by temperature-responsive chromatography
Midori Matsuyama*, Yuji Okada, Chikako Sakamoto, Hideko Kanazawa, Akihiko Kikuchi, Teruo Okano

P-6 Regeneration of free oligosaccharides from their reductively aminated derivatives
Shigeo Suzuki*, Masahiro Yodoshi, Susumu Honda

P-7 High speed analysis of amino acids by the post-column ninhydrin method using new ion-exchange resin
Norimasa Minamoto*, Yoko Inoue, Yutaka Murayama, Masaaki Yoshida, Masahito Ito

P-8 LS/MS analysis of DNA damages caused by aldehydes
Yukihiro Esaka* , Hiroya Murakami, Masashi Goto, Magoichi Sako, Kenji Kano

P-9 Application of measurement of phenolic compounds to river waters by micellar electrokinetic chromatography with on-line preconcentration
Sahori Takeda*, Yoko Hattori, Nami Adachi, Masayuki Matsubara, Kenji Chayama, Keiichi Fukushi, Shin-ichi Wakida

P-10 Study on high sensitivity analysis of nonylphenols by capillary electrophoresis
Chika Uchiya, Kentaro Isoo*, Shigeru Terabe

P-11 Preparation of functionalized microspheres using electrostatic interactions and their application for capillary electrophoresis. 2
Yukihiro Okamoto, Fumihiko Kitagawa, Koji Otsuka

P-12 Preparation of newly functionalized capillaries for CE by modifying the inside wall. 5
Keisuke Inoue*, Masaya Kawase, Yukihiro Okamoto, Fumihiko Kitagawa, Koji Otsuka

P-13 Capillary electrochromatography using ion exchange resin
Miki Fujiwara*, Yukihiro Okamoto, Fumihiko Kitagawa, Koji Otsuka

P-14 Developing a manufacturing process of micro chemical chips those are made of plastic
Mituru Saito*, Kenji Obara, Yoshiyuki Ikegami

P-15 The development of temperature-responsive microchip
Genki iizuka*,Yuji Okada,Chikako Sakamoto, Hideko Kanazawa, Akihiko Kikuchi,Teruo Okano

P-16 Studies on the separation profile of proteins in microchip isoelectric focusing. 5
Shiori Aizawa*, Yukihiro Okamoto, Fumihiko Kitagawa, Koji Otsuka

P-17 Isoelectric focusing by microfabricated free flow electrophoresis module: Separation behavior of proteins
Hidesaburo Kobayashi*, Noriyuki Aizawa, Nobuyoshi Tajima, Etsuo Shinohara