

Technical Program

AGENDA OF SESSIONS December 02– December 05, 2017

SATURDAY, December 02:

08:30 – 13:00 Registration (*Foyer Jardín*)

Pre-Symposium Course

Salon Lancaster

- 08:30 – 09:30 Fundamentals and applications of capillary electrophoresis
Robert Weinberger, U.S.A.
- 09:30 – 10:30 Fundamentals and applications of microchip technology
Vincent T. Remcho, U.S.A.
- 10:00 – 10:30 CE-MS technology
Herbert H. Lindner, Austria
- 10:30 – 11:00 Coffee Break
- 11:00 – 12:00 Industrial and Clinical applications of capillary electrophoresis
Norberto A. Guzman, U.S.A.
- 12:00 – 12:30 Practical aspects in online preconcentration capillary electrophoresis
Nora Vizioli, Argentina
- 12:30 - 13:00 Improved Capillary Electrophoresis separations
Virginia Robinson-Fuentes, México
- 13:00 – 14:00 Lunch Recess

OPENING SESSION

Salon Lancaster

- 14:00 – 18:00 Registration (*Foyer Jardín*) and Poster Set-up (all posters)
- 18:00 – 18:20 Welcoming Remarks
Virginia A. Robinson-Fuentes, University of Michoacan, Mexico
Nora M. Vizioli, University of Buenos Aires, Argentina
Norberto A. Guzman, Princeton Biochemicals, Inc., U.S.A.

Chairperson, *Dr. Norberto A. Guzman*

18:20 – 19:00 Affinity capillary electrophoresis study of the strength and specificity
PL-A-01 of noncovalent molecular interactions
Václav Kašíčka, Czech Republic (Czechia)

19:00 – 19:40 Novel affinity supports for electrokinetic preconcentration of
PL-A-02 phosphopeptides: From capillary electrophoresis to micro-TAS
Myriam Taverna, France

19:50 – 23:00 *Welcome Cocktail (Terraza Pool & Lounge)*

SUNDAY, December 3:

Salon Lancaster

08:30 – 18:00 Registration (*Foyer*) and Poster Set-up (all posters)

SESSION I

Chairperson, *Dr. Virginia A. Robinson-Fuentes*

8:30 – 9:00 E pluribus unum: Unraveling the molecular heterogeneity of pro-B-
KL-A-03 type natriuretic peptides and its consequences as biomarkers for heart
failure.
Herbert H. Lindner, Austria

9:00 – 9:30 Of mice and men: Traces of *Yersinia pestis* in the death registries of
KL-A-04 the 1630 plague in Milano
Pier Giorgio Righetti, Italy

9:30 – 10:00 Four decades of capillary electrophoresis
OP-A-05 *Robert Weinberger*, U.S.A.

10:00 – 10:30 Another day of sun: Channeling your inner glycobiologist
OP-A-06 *Jeff D. Chapman*, U.S.A.

10:30 – 11:30 Coffee Break, POSTER PRESENTATION (all posters), and
Instrumentation Exhibition

SESSION II

Chairperson, *Dr. Nora M. Vizioli*

11:30 – 12:00 An emerging platform for improving healthcare: A multi-task point-of-
OP-A-07 care instrument for monitoring wellness, disease, and treatment
effectiveness based on immunoaffinity capillary electrophoresis
Norberto A. Guzman, U.S.A.

- 12:00 – 12:30 Nanoparticles-capillary electrophoresis: Achievements and challenges
OP-A-08 *Ángel Ríos*, Spain
- 12:30 – 13:00 Mining the Human Genome for G-quadruplex DNA-protein affinity interactions
OP-A-09 *Linda B. McGown*, U.S.A
- 13:00 – 14:30 Lunch Recess

SESSION III

Chairperson, *Dr. Adam T. Woolley*

- 14:30 – 15:00 Forensic epigenetics: A novel method for determination of body fluids ID and phenotype
OP-A-10 *Bruce McCord*, U.S.A.
- 15:00 – 15:30 Microfluidic devices for clinical analysis: Novel surface chemistries for sampling and analysis
OP-A-11 *Vincent T. Remcho*, U.S.A.
- 15:30 – 16:00 Identification of novel site-specific alterations in the modification level of myelin basic protein using capillary electrophoresis-mass spectrometry (CE-MS)
OP-A-12 *Bettina Sarg*, Austria
- 16:00 – 16:30 Characterization of polyphenols in Mexican semi-desert plants by capillary electrophoresis and their applications in bioorganic coatings
OP-A-13 *María Gabriela Vargas-Martínez*, Mexico
- 16:30 – 17:30 Coffee Break, POSTER PRESENTATION (all posters), and Instrumentation Exhibition

MONDAY, December 4:

Salon Lancaster

08:30 – 18:00 **Registration**

SESSION IV

Chairperson, *Dr. Angel Ríos*

- 8:30 – 9:00 Overcoming the challenge of whole cell analysis by capillary electrophoresis
OP-A-14 *Virginia A. Robinson-Fuentes*, Mexico
- 9:00 – 9:30 Modeling of the effect of deep space galactic cosmic rays and solar energetic particles on the glycosylation of human immunoglobulin
OP-A-15 *Andras Guttman*, U.S.A. & Hungary
- 9:30 – 10:00 Determination of preterm birth biomarkers in 3-D printed integrated microfluid devices
OP-A-16 *Adam T. Woolley*, U.S.A.
- 10:00 – 10:30 Online sample preparation method coupled with high-performance liquid chromatography for trace analysis of complex samples
OP-A-17 *Gongke Li*, China
- 10:30 – 11:30 Coffee Break, POSTER PRESENTATION (all posters), and Instrumentation Exhibition

SESSION V

Chairperson, *Dr. María Gabriela Vargas-Martínez*

- 11:30 – 12:00 Characterization and comparability of biopharmaceuticals by capillary electrophoresis
OP-A-18 *Emilio Medina-Rivero*, Mexico
- 12:00 – 12:30 Detecting metal-peptide complex formation by capillary electrophoresis
OP-A-19 *Nora M. Vizioli*, Argentina
- 12:30 – 13:00 Carbon-based nanomaterials in analytical development as biomolecule support
OP-A-20 *Patricia W. Stege*, Argentina
- 13:00 – 14:30 Lunch Recess

SESSION VI

Chairperson, *Dr. Bettina Sarg*

- 14:30 – 15:00 Making capillary electrophoresis more repeatable and more reproducible
OP-A-21 *Yi Chen*, China
- 15:00 – 15:30 Two dimensional electrophoresis and mass spectrometry: Impact on
OP-A-22 allergy disease
Luis Manuel Teran-Juarez, Mexico
- 15:30 – 16:00 Development of reversibly sealed glass/PDMS hybrid microchip
OP-A-23 electrophoresis platform coupled to electrochemical detection for on-line
study of the L-dopa metabolic pathway
Shamal M. Gunawardhana, U.S.A.
- 16:00 – 17:30 Coffee Break, POSTER PRESENTATION (all posters), and
Instrumentation Exhibition
- 17:30 Poster tear down
- 20:00 Gala Dinner

TUESDAY, December 5:

Salon Lancaster

08:30 – 13:00 **Registration (certificates)**

SESSION VII

Chairperson, *Dr. Norberto A. Guzman*

9:00 – 9:30 Bipolar electromechanical generated fluorescence detector for
OP-A-24 microchip electrophoresis

Manjula B. Wijesinghe, U.S.A.

9:30 – 10:00 Metodologies and applications of capillary electrophoresis in the
OP-A-26 biopharmaceutical industry

Rodolfo Daniel Salazar-Flores, Mexico

10:00 – 11:00 Closing Remarks, Poster Awards Announcement and Photography
Session

11:00 – 12:00 Coffee Break and Instrumentation Exhibition

12:00 – 18:00 Post Symposium Tour (optional)

