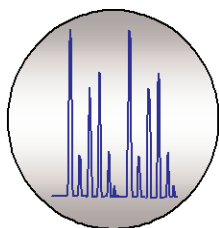
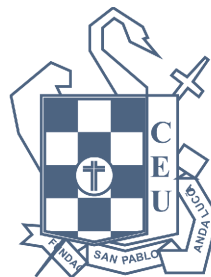


INFORMATION



LACE 2009



CEU

Universidad  
San Pablo

Organized by  
Area of Analytical Chemistry  
San Pablo-CEU University

15<sup>th</sup>

Latin American

Symposium on Biotechnology,  
Biomedical, Biopharmaceutical  
and Industrial Applications of  
**Capillary Electrophoresis**  
and Microchip Technology

October 2-6  
2009

Sevilla  
Spain



Agilent Technologies



SECYTA

SOCIEDAD ESPAÑOLA DE  
CROMATOGRAFÍA  
Y TÉCNICAS AFINES



15<sup>th</sup>

## Latin American

Symposium on Biotechnology,  
Biomedical, Biopharmaceutical  
and Industrial Applications of  
**Capillary Electrophoresis**  
and Microchip Technology



### Scientific Committee

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DR ALEJANDRO CIFUENTES, (CSIC, MADRID, SPAIN)  
DR JOSE CARLOS DÍEZ MASA, (CSIC, MADRID, SPAIN)  
DR CARLOS GARCIA (UNIVERSITY OF TEXAS, SAN ANTONIO, TEXAS, U.S.A.)  
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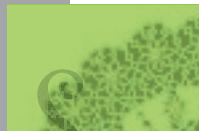
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## ABOUT LACE SYMPOSIUM

**LACE** (Latin American Capillary Electrophoresis) was created fifteen years ago to engage Latin American scientists in the latest technology for microseparations (specifically capillary electrophoresis and microchip technology). The objectives of the symposium are to foster the development of applications in areas that benefit local needs, to encourage the formation of personal networks to share information related to the advancement of these innovative technologies, and to provide opportunities for students to participate in this dramatic transition to a world in which we can study miniaturized chemical and biochemical interactions and separations. Focused mainly in Latin America, a wide number of prestigious experts in CE from the USA, Spain and other European countries commonly participate in these annual meetings. For the second time, LACE is being celebrated in Europe, as a consequence of its prestigious worldwide reputation.



## SCOPE OF THE CONFERENCE

The Latin American Symposium covers the most recent developments in CAPILLARY ELECTROPHORESIS including applications in the following areas:

- SYSTEMS BIOLOGY: METABOLOMICS, PROTEOMICS, AND GENOMICS
- PHARMACEUTICAL APPLICATIONS
- DRUG DISCOVERY, DRUG METABOLISM, AND QUALITY CONTROL
- CLINICAL AND MOLECULAR DIAGNOSTICS - POINT-OF-CARE INSTRUMENTATION
- FORENSICS AND TOXICOLOGY
- BIOMARKER DISCOVERY
- FOOD AND AGRICULTURAL ANALYSIS
- MICRO- AND NANO-FLUIDICS TECHNOLOGIES
- ADVANCES IN MONOLITHIC COLUMNS, PARTICLES, AND STATIONARY PHASES
- MULTI-DIMENSIONAL SEPARATIONS
- INTERFACE TO MASS SPECTROMETRY
- DETECTION METHODS
- METHOD DEVELOPMENT AND OPTIMIZATION
- MULTIPLEXED AND ARRAY SEPARATIONS
- MICROSCALE SAMPLE PREPARATION - PRECONCENTRATION
- ENHANCEMENT OF SENSITIVITY - ALTERNATIVE METHODS
- AFFINITY AND ENZYMATIC METHODS
- ENVIRONMENTAL SCIENCE APPLICATIONS
- EMERGING APPLICATIONS AND PORTABLE INSTRUMENTATION



## PRE-SYMPOSIUM COURSE: "CE AND CE-MS: PRINCIPLES AND APPLICATIONS"

OCTOBER 2-3, 2009

DR. NORBERTO A. GUZMAN  
DR. ALEJANDRO CIFUENTES  
DR. GERARDUS J. DE JONG  
DR. GOVERT SOMSEN



## FARES

	PRE-SYMPOSIUM COURSE	BEFORE SEPTEMBER, 1ST	AFTER SEPTEMBER, 1ST
SECyTA, SEQA, SEA members (1)	<b>200 €</b>	300 €	400 €
Other Participants (1)	<b>300 €</b>	400 €	500 €
Students (1,2)	<b>150 €</b>	170€	200 €

(1) Book of Abstracts, coffees, lunches and Gala Cocktail included

(2) To be accredited



## GRANTS

SECyTA, SEQA and SEA members can apply for student travel and attendance grants. For further information contact the Secretary of the Meeting

PARTICIPANT	TITLE OF PRESENTATION	AFFILIATION
AMUNDSEN, LOTTA	Transcript analysis with the aid of affinity capture and gel electrophoresis on microchip	VTT, Technical Research Centre of Finland Espoo, Finland
ARCE, LOURDES	30 years of CE in research laboratories: Is it time to find the CE established in routine laboratories?	University of Córdoba. Córdoba, Spain
ARRIAGA, EDGAR A.	Capillary electrophoretic analysis of giant mitochondria	University of Minnesota Minneapolis, Minnesota, U.S.A.
BARBAS, CORAL	CE and NMR a cross-platform metabolomic study	University San Pablo-CEU, Madrid, Spain
BENAVENTE, FERNANDO	Determination of neuropeptides in biological samples by on-line solid phase extraction-capillary electrophoresis- electrospray-mass spectrometry	University of Barcelona. Barcelona, Spain
CARRASCO, ALEGRIA	Non-aqueous capillary electrophoresis-electrospray-time of flight mass spectrometry to reveal phenolic compounds from olive oil: introducing enriched olive oil directly inside capillary	University of Granada. Granada, Spain
CARRILHO, EMANUEL	Non-aqueous capillary electrophoresis of antidepressants: A versatile tool from quality control to therapeutic drug monitoring	University of São Paulo São Paulo, Brazil
CHANKVETADZE, BEZHAN	Mechanistic aspects of enantioseparations in aqueous and non-aqueous capillary electrophoresis	University of Tbilisi. Tbilisi, Georgia
CHAPMAN, JEFF	Sheathless nanospray ESI. Linking CE and MS for ultrahigh resolution and sensitivity	Beckman-Coulter. Fullerton, California,
CIFUENTES, ALEJANDRO	Chiral, omics and transgenics in food science	Institute of Industrial Fermentations (CSIC). Madrid, Spain
COSTA, AGUSTIN	MCE-EC, a portable and powerful analytical tool	University of Oviedo. Oviedo, Spain
CROMMEN, JACQUES	Separation and quantification of low amounts of drug enantiomers using chiral non-aqueous CE with charged cyclodextrins coupled to MS	University of Liege. Liege, Belgium
DE FRUTOS, MERCEDES	Immunoaffinity and capillary electrophoresis for the study of biomarker glycoproteins	Institute of Organic Chemistry (CSIC). Madrid, Spain
DE JONG, GERARDUS J.	CE-MS for characterization of biopharmaceuticals	Utrecht University. Utrecht, The Netherlands
DÍEZ-MASA, JOSÉ CARLOS	Poly(methyl methacrylate) Microchips for Electrophoretic Separation of Proteins with Fluorescence Detection	Institute of Organic Chemistry (CSIC) Madrid, Spain
ELGSTOEN, KATJA	Role and evolution of separation science in the diagnosis of inborn error of metabolism	Rikshospitalet University Hospital Oslo, Norway
EL-RAZZI, ZIAD	Affinity-based multicolumn platform for in-depth proteomics analysis	Oklahoma State University Stillwater, Oklahoma, U.S.A.
ESCARPA, ALBERTO	Nanomaterials as electrochemical detectors in capillary electrophoresis microchips: Fundamentals, designs, and applications	University of Alcalá. Alcalá de Henares, Spain

PARTICIPANT	TITLE OF PRESENTATION	AFFILIATION
EWING, ANDREW	Capillary electrophoretic analysis of single vesicles: What fraction of transmitter is released during exocytosis	University of Gotenburg. Göteborg, Sweden Penn State University, University Park, Pennsylvania, U.S.A.
FANALI, SALVATORE	Chiral Analysis by Using Packed Capillary Columns: An Overview	Consiglio Nazionale delle Ricerche Rome, Italy
FERRANCE, JEROME	Carbon nanotubes as biological probes	Pettit Applied Technologies - Charlottesville, Virginia U.S.A. University of Virginia - Charlottesville, Virginia U.S.A.
GARCÍA, ANTONIA	Metabolic fingerprinting of biofluids with capillary electrophoresis	University San Pablo-CEU, Madrid, Spain
GARCIA, CARLOS	On-line preconcentration, tagging, and capillary electrophoresis separation of biogenic amines	The University of Texas at San Antonio San Antonio, Texas, U.S.A.
GARCIA-CAMPAÑA, ANA MARIA	On-line concentrator devices coupled to capillary electrophoresis for the determination of contaminant residues in food, environmental and biological samples. A powerful tool for monitoring potential sample toxicants	University of Granada Granada, Spain
GONZALEZ, CARLOS	Development of a microfluidic electro-chemical biosensor using photo-defined carbonaceous electrodes	Colorado State University Fort Collins, Colorado, U.S.A.
GUY, GABRIELLE	Improving heat transfer capacity in PDMS microchips	The University of Texas at San Antonio San Antonio, Texas, U.S.A.
GUTTMAN, ANDRAS	Analysis of complex glycans by capillary electrophoresis. Can GU units help in structural characterization?	Northeastern University Boston, Massachusetts, U.S.A.
GUZMAN, NORBERTO	Determination of predictive toxico- proteomic biomarkers by a point-of-care instrumentation based on immunoaffinity capillary electrophoresis	Princeton Biochemicals Inc. Princeton, New Jersey, U.S.A.
HOLLAND, LISA	Smart materials for added selectivity in electrophoretic separations	West Virginia University Morgantown, West Virginia, U.S.A.
KAŠIČKA, VACLAV	Affinity capillary electrophoresis applied to quantitative evaluation of non-covalent peptide interactions with metal ions and cyclodextrins	Academy of Sciences of the Czech Republic Prague, Czech Republic
KENNDLER, ERNST	Capillary electrophoresis as a tool to trace the internalization of a virus into a cell	University of Vienna Vienna, Austria

PARTICIPANT	TITLE OF PRESENTATION	AFFILIATION
LINDNER, HERBERT	Capillary zone electrophoresis and other tools for the separation and characterization of site-specifically phosphorylated peptides and proteins	University of Innsbruck Innsbruck, Austria
LUNTE, CRAIG	In vivo studies of oxidative stress using capillary electrophoresis	The University of Kansas Lawrence, Kansas, U.S.A.
LUNTE, SUSAN	Monitoring biological events using microchip electrophoresis with electrochemical and laser-induced fluorescence detection	The University of Kansas Lawrence, Kansas, U.S.A.
MARINA, M <sup>o</sup> LUISA	Sensitive chiral analysis by CE	University of Alcalá, Alcalá de Henares (Madrid)
MAYBORODA, OLEG A.	CE-MS: turning an analytical technique into workflow for metabolic profiling	Leiden University Medical Centre (LUMC) Leiden, The Netherlands
MCCORD, BRUCE	Development of a novel sieving polymer for microfluidic separations	Florida State University Miami, Florida, U.S.A.
MCGOWN, LINDA	Affinity protein-G-quadruplex DNA interactions characterized by mass spectrometry	Rensselaer Polytechnic Institute Troy, New York, U.S.A.
NEVES, CARLOS	LOAR 2: Integration of microchip- CE-PED with free Web platforms	The University of Texas at San Antonio San Antonio, Texas, U.S.A.
NOVOTNY, MILOS	New directions in glycomics analysis	Indiana University Bloomington, Indiana, U.S.A.
RIEKKOLA, MARJA-LIISA	Versatility of capillary electromigration techniques: capillary electrophoresis, partial filling affinity capillary electrophoresis and capillary electrochromatography in collagen, lipoprotein and proteoglycan studies	University of Helsinki Helsinki, Finland
RIOS, ANGEL	Analytical characterization of polymeric substances by capillary electrophoresis	University of Castilla – LaMancha Ciudad Real, Spain
RIZZI, ANDREAS	Characterization of iso- and glycoforms of therapeutic proteins by capillary electrophoresis and mass spectrometry	University of Vienna Vienna, Austria
ROBINSON, VIRGINIA	Determination of fungal spores by capillary zone electrophoresis	University Michoacana de San Nicolas de Hidalgo Morelia, Michoacan, Mexico
SIMONET, BARTOLOMÉ M.	Carbon nanotubes as analytes and tools in capillary electrophoresis	University of Córdoba Córdoba, Spain

CONFIRMED SPEAKERS

PARTICIPANT	TITLE OF PRESENTATION	AFFILIATION
SOMSEN, GOVERT	CE-MS for metabolomics	Utrecht University, Utrecht, The Netherlands
TAVARES, MARINA	Assessment of solute-micelle interactions in electrokinetic chromatography using quantitative structure retention relationships	University of São Paulo São Paulo, Brazil
TRIPODI, VALERIA	The challenge in the bioanalysis of coenzyme Q10 using capillary electrophoresis	University of Buenos Aires Buenos Aires, Argentina
VIZIOLI, NORA	Separation of peptides by open-tubular capillary electrochromatography using (III)-deuteroporphyrin as a covalently attached stationary phase	University of Buenos Aires Buenos Aires, Argentina
WEINBERGER, ROBERT	Capillary Electrophoresis of Heparin: to CE or not to CE, that is still the question	CE Technologies, Inc. Chappaqua, New York, U.S.A.





## ABOUT SEVILLE

**SEVILLE** certainly is one of the most beloved places by visitors to Spain. Although today Moorish influence is architectonically most evident it has been a cultural centre long before. When you visit this city, you are in the very heart of Andalusian culture and Flamenco music. Take yourself time and take life easy, as Andalusians use to do, and interrupt sightseeing from time to time to have "tapas", and consider a few of the following hints to make your stay a memorable one: The impressive cathedral with its tower, Giralda, Seville's landmark. The king's palace Alcazar in its typical Moorish style, surrounded by high walls. The Archivo de Indias, a Renaissance building which serves as an archive of all the documents related with the discovery of America. The Archiepiscopal Palais.... parks, museums and interesting spots everywhere. For sure as the typical song says: "Sevilla tiene un color especial".



## CALL FOR SCIENTIFIC CONTRIBUTIONS

Abstracts from authors for scientific contributions to the LACE 2009 program should be sent to the Secretary of the Symposium before July 30, 2009. Abstracts should be electronically submitted in Word text processor according to the following format:

- English language.
- Typed in single-space and centred in the size A4 page by using 11 pt "Arial" font.
- Text typed within 15 x 22 cm centred space.
- Start title of your communication (BOLD CAPITAL LETTERS), leave one line and write authors names (first name only initial before surname, do not use academic titles), underline the presenting author and live one space.
- Type the institutional addresses and only one e-mail address. Leave one line and type the abstract. Leave one line and type references (authors, journal, issue, year and initial page).



## DATES OF INTEREST

ABSTRACT DEADLINE: **JULY 30, 2009.**

EARLY REGISTRATION DEADLINE: **SEPTEMBER 1, 2009.**

SEND ABSTRACTS BY FAX OR E-MAIL TO:

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