

# Sample Preparation Masterclass

*Separation Science*, in collaboration  
with Prof. Karl-Siegfried Boos and  
Dr Rosa Morello offer a workshop on Sample  
Preparation for LC-MS/MS in London, UK

Sample Prep for LC-MS/MS of Biofluids  
3 December, 2010

**Venue:**

The Royal Institution, London, UK

# Sample Preparation for LC-MS/MS of Biofluids

## 3 December, 2010 (1-day course)

1 day  
€475

Separation Science, in collaboration with Prof. Karl-Siegfried Boos and Dr Rosa Morello (Univ. Munich, Germany), is offering a workshop and series of presentations on the important topic of sample preparation strategies for the LC-MS/MS analysis of small molecules in biofluids, including whole blood.

### What will you gain by attending the workshop?

Participants will learn about the principles and application of multidimensional SPE for highly selective sample clean-up. Properties and performance of tailor-made SPE packing materials (e.g., restricted access materials, molecularly imprinted polymers, mixed-mode materials, etc.), as well as high throughput and miniaturization of SPE-LC will be described in detail. Besides direct injection and on-line SPE of urine and plasma samples, the direct injection and in-line processing of whole blood will be addressed. Also discussed will be the pros and cons of dried blood spot (DBS) sampling and analysis, and a general introduction to the understanding and monitoring of ion suppression/matrix effects in bioanalytical LC-MS/MS will be given. A focus will be on the elimination of ion suppression by an adequate

sample pretreatment and separation. In this context, Phase Optimized Liquid Chromatography (POPLC) will be described as a valuable tool. A broad spectrum of applications in the fields of bioanalysis such as therapeutic drug monitoring, biological monitoring, environmental- and clinical-chemical analysis will be presented.

### Topics covered in the course include:

- Basic goals of sample cleanup
- Solid-phase extraction
- Automation strategies
- SPE-LC
- Tailor-made SPE sorbents
- Instrumentation
- Method development
- SPE-LC-MS/MS
- Complex biofluids
- Whole blood processing
- Application examples

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REGISTER ONLINE**

### About Prof. Karl-Siegfried Boos



Since 1990 Prof. Karl-Siegfried Boos has held the position of Head of the Laboratory of BioSeparation at the Institute of Clinical Chemistry, Medical Center of the University of Munich. He has over 100 original publications in the fields of biochemistry, analytical chemistry and medicine and for the last 10 years has been co-editor of the journal *Chromatographia*. In 2010 Prof. Boos was appointment as Visiting Professor at Tongji Medical College, Wuhan, China.

### About Dr Rosa Morello



Dr Rosa Morello studied Pharmacy at the University of Würzburg, Germany from 1995 till 1996 and continued her studies at the Ludwig-Maximilians-University, Munich, Germany where she received her licensure as a pharmacist in 2001. Thereafter she joined the research group of Prof. Karl-Siegfried Boos, Laboratory of BioSeparation at the Institute of Clinical Chemistry, Medical Center of the University of Munich, in Munich, Germany as a doctoral student. In May 2007 she received the doctoral degree Dr. rer. biol. hum. from the Medical Faculty of the Ludwig-Maximilians-University, Munich. She now holds a senior researcher position in the same laboratory. Her research interests include preanalytics and integrated clean-up of complex (bio)fluids as well as their on-line analysis with high performance separation and detection platforms (e.g. SPE-LC-MS/MS).

## Registration form

To register for the MS Workshop online [click here](#) or alternatively you can complete the form below and fax to . .

**+44 208 711 3894**

Course	Fee €
1 day Sample Prep for LC-MS/MS of Biofluids	<b>475</b>

First Name *	<input type="text"/>
Last Name *	<input type="text"/>
Job Title *	<input type="text"/>
Email *	<input type="text"/>
Organization *	<input type="text"/>
Department	<input type="text"/>
Address *	<input type="text"/>
Postal Code *	<input type="text"/>
Country *	<input type="text"/>
Tel. *	<input type="text"/>
Fax	<input type="text"/>

\*Mandatory field

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