

21st International Symposium on Pharmaceutical and Biomedical Analysis 11-14 October 2009

Sunday, 11th October 2009

4.00 pm	Registration	Palm Foyer
6.00 pm	Opening Keynote Session Chair: M. Bartlett; University of Georgia, USA Keynote [K1] “Hyphenation, hyphenation, hyphenation” I. Wilson; <i>Astra-Zeneca, UK</i>	Palm 4/5
7.00 pm – 8.00 pm	Opening reception Sponsored by the <i>Journal of Pharmaceutical and Biomedical Analysis</i>	Palm 1

Monday, 12th October 2009

7.00 am	Continental breakfast (included in registration)		Palm 1
7.30 am	Registration		Palm Foyer
8.00 am	Keynote [K2] Protein bioanalysis - overview of analytical methods and challenges B. de Silva; <i>Amgen, USA</i>		Palm 4/5
	Macromolecule Therapeutic Session [1A] Moderator: M. Bartlett	Pharmaceutical Analysis Session [1B] Moderator: D. Lloyd	Palm 3
9.15 am	Biologics drug development: Analytical challenges related to PK, immunogenicity and biomarker assays [1A.1] L. Amaravadi; <i>BiogenIdec, USA</i>	Fast liquid chromatographic analyses in pharmaceutical development: From exotic to routine [1B.1] D. Lloyd; <i>Bristol-Myers Squibb, USA</i>	
9.45 am	Challenges of adapting commercially available kits for regulated bioanalysis [1A.2] C. Beaver; <i>MDS Inc., Canada</i>	Quantitative analysis of PD 0332991, a cyclin-dependent kinase (CDK) inhibitor, in human breast tumor and xenograft mouse tissues by supported liquid extraction coupled with liquid chromatography/ mass spectrometry [1B.2] L. Nguyen, W. Zhong, C. Painter, C. Zhang, S.V. Rahavendran, Z. Shen*; <i>Pfizer Inc., USA</i>	
10.15 am	Pharmacokinetic biotherapeutic assay and metabolite identification using a combination of immunoassay and two-dimensional liquid chromatography mass spectrometry [1A.3] R.E. Murphy*, M.J. Shields, Nancy Levin, et al. <i>CovX, a Company within Pfizer's Biotherapeutics and Bioinnovation Division, USA</i>	Detection of ionized drugs in physiological matrixes by ion-transfer voltammetry at liquid/liquid micro-interfaces [1B.3] C.J. Collins*, C. Lyons, D.W.M. Arrigan; <i>University College Cork, Ireland</i>	
10.45 am	Refreshments		Palm 1
11.05 am	Quantitation of oligonucleotide therapeutics [1A.4] M. Bartlett; <i>University of Georgia, USA</i>	Second-order calibration and its applications to pharmaceutical and biomedical analysis [1B.4] H.-L. Wu*, J.-F. Nie, Y.-J. Yu, R.-Q. Yu; <i>Hunan University, China</i>	
11.35 am	Simplifying method development for bioanalysis of peptide therapeutics in human plasma [1A.5] E.E. Chambers*, J.P. Wheaton, D.M. Diehl; <i>Waters Corporation, USA</i>	Validation of bioanalytical methods using total error [1B.5] E. Rozet* ¹ , B. Boulanger ² , S. Rudaz ³ , R. Marini ¹ , E. Ziemons ¹ , P.H. Hubert ¹ ; ¹ <i>University of Liege, Belgium</i> , ² <i>UCB Pharma SA, Belgium</i> , ³ <i>University of Geneva, Switzerland</i>	
12.05 pm		Selenium status in mammals and its role during heavy metal deposition [1B.6] A. Gross* ¹ , H. Stosnach ¹ , K. Renko ² , L. Schomburg ² ; ¹ <i>Bruker AXS Microanalysis GmbH, Germany</i> , ² <i>Charité Berlin, Germany</i>	
12.35 pm	Lunch		Palm 1
1.30 pm	Poster Session One		Palm 2

	ADME Session [2] Moderator. M. Bartlett	Palm 4/5
2.30 pm	Bioanalytical advances as an enabler of progress in ADME [2.1] C. Hop; <i>Genentech, USA</i>	
3.00 pm	Industrialized bioanalysis [2.2] R. King; <i>Pharma Cadence Analytical Services Inc., USA</i>	
3.30 pm	Refreshments	Palm 1
3.50 pm	How do we meet MIST requirements in detecting, identifying and quantifying metabolites: A Schering Plough perspective [2.3] S. Chowdhury; <i>Schering-Plough, USA</i>	
4.20 pm	BioAnalytical LC-MS(MS) methodologies for the determination of active and reactive drug products/adducts [2.4] J. Kool, H. Lingeman*, H. Irth; <i>VU University Amsterdam, The Netherlands</i>	
4:50 pm	Chemical and metabolic stability of lactoferricin-derived cationic antimicrobial tripeptides [2.5] B. De Spiegeleer ^{*1} , V. Vergote ¹ , J. Svenson ² , R. Karstad ² , C. Burvenich ¹ ; ¹ <i>Ghent University, Belgium</i> , ² <i>University of Tromso, Norway</i>	
5.20 pm	Keynote [K3] Mass spectrometry based metabolomics from biofluids and tissues G. Siuzdak; <i>Scripps Research Institute, USA</i>	

Tuesday, 13th October 2009

7.00 am	Continental breakfast (included in registration)		Palm 1
8.00 am	Keynote [K4] The year in bioanalytical regulatory findings J. O'Shaughnessy; <i>US Food and Drug Administration, USA</i>		Palm 4/5
	Sample Prep Session [3A] Moderator. H.T. Karnes	Small Molecule Biomarkers Session [3B] Moderator: R. Moaddel	Palm 4/5 Palm 3
9.15 am	Molecularly imprinted polymers for pharmaceutical and bioanalytical applications [3A.1] J. Haginaka; <i>Mukogawa Women's University, Japan</i>	Method development strategies for establishing parallelism for LC/MS biomarker assays [3B.1] G. Schultz; <i>Advion BioServices, USA</i>	
9.45 am	A capillary-based microfluidic molecular recognition system for sample preparation of biological matrices [3A.2] K.A. Shah, M.C. Peoples, M.S. Halquist, H.T. Karnes*; <i>Virginia Commonwealth University, USA</i>	Proteomics - From basic research to the clinic [3B.2] R. Hendrickson; <i>Merck Research Laboratories, USA</i>	
10.15 am	High throughput SPME techniques for pharmaceutical determinations [3A.3] J. Pawliszyn; <i>University of Waterloo, Canada</i>	Application of metabonomic approaches to study nucleoside profiles in urine [3B.3] M.J. Markuszewski; <i>Gdansk Medical University, Poland</i>	
10.45 am	Refreshments		Palm 1
11.05 am	Processing of whole blood samples for LC-MS/MS analysis of small molecules: An update [3A.4] K.S. Boos; <i>University of Munich, Germany</i>	Quantitation of the tobacco-specific Nitrosamine 4-(Methylnitrosamino)-1-(3-pyridyl)-1-butanol in human urine using liquid chromatography-tandem mass spectrometry [3B.4] M Xu ^{*1} , Y Xia ² , JT Bernert ² ; ¹ <i>Battelle, USA</i> , ² <i>Centers for Disease Control & Prevention, USA</i>	
11.35 am	A ligand-protein interaction study using protein-coated magnetic beads [3A.5] M.P. Marszall ^{*1} , A. Bucinski ¹ , et al; ¹ <i>Nicolaus Copernicus University, Poland</i> , ² <i>Gerontology Research Center, USA</i>	A simple method for isolation of Catechin - a potential Biomarker from medicinal plants and its evaluation [3B.5] Y. Jaiswal ¹ , P. Tatke ^{*1} , A. Vaidya ² , S.Gabhe ¹ ; ¹ <i>C.U.Shah College of Pharmacy, India</i> , ² <i>ICMR Advanced Centre of Reverse Pharmacology in Traditional Medicine, India</i>	
12.05 pm			
12.35 pm	Lunch		Palm 1
1.30 pm	Poster Session Two		Palm 2

	Advances in Mass Spectrometry Session [4] Moderator. M. Bartlett	Palm 4/5
2.30 pm	Structural characterization of protein drug targets by H/D exchange monitored by high-resolution mass spectrometry [4.1] A. Marshall; <i>Florida State University, USA</i>	
3.00 pm	Assessing spatial and temporal proteomics: Molecular profiling and imaging of tissues by mass spectrometry [4.2] R. Caprioli; <i>Vanderbilt University, USA</i>	
3.30 pm	Refreshments	Palm 1
3.50 pm	Challenges and opportunities for biomarker discovery using gel-free, label-free LC/MS/MS: Applications in oncology and infectious diseases [4.3] M.A. Moseley; <i>Duke University, USA</i>	
4.20 pm	Mass spectrometry-based biomarker discovery: Towards a global proteome index-of-Individuality [4.4] D.C. Muddiman; <i>North Carolina State University, USA</i>	
4:50 pm	Successes and challenges in multiple reaction monitoring assay development for quantitation of proteins in plasma [4.5] S. Abbatiello; <i>Broad Institute of MIT and Harvard, USA</i>	
6.30 pm	Buses leave for optional dinner at SeaWorld	

Wednesday, 14th October 2009

7.00 am	Continental breakfast (included in registration) Palm 1	
8.00 am	Keynote [K5] Tools for accurate measurement of candidate biomarkers in plasma: Development of multiplexed MS-based SISCAPA assays L. Anderson; <i>Plasma Proteome Institute, USA</i> Palm 4/5	
	Pharmaceutical Analysis Session [5A] Moderator: M. Bartlett Palm 4/5	Advances in separations science session [5B] Moderator: R. Kaliszan Palm 3
9.15 am	Application of integrated microanalytical systems for cell based assays [5A.1] K. Ziolkowska, R. Kwapiszewski, E. Jedrych, M. Chudy*, A. Dybko, Z. Brzozka; <i>Warsaw University of Technology, Poland</i>	Why not use (LC)-NMR more in drug analysis [5B.1] U. Holzgrabe; <i>University of Wuerzburg, Germany</i>
9.45 am	Application of fluorescent quantum dots in the research of nanomedicines [5A.2] H. Yuzhu*, W. Yunqing, Y. Chao, W. Liheng; <i>China Pharmaceutical University, China</i>	Multidimensional LC - advantages and limitations [5B.2] T. Greibrokk; <i>University of Oslo, Norway</i>
10.15 am	Mössbauer spectroscopy with high velocity resolution in biomedical analysis [5A.3] M.I. Oshtrakh*, V.A. Semionkin; <i>Ural State Technical University - UPI, Russia</i>	Data quality in electrophoresis and chromatography – a necessity for quality control and proteomics [5B.3] H. Waetzig; <i>Technical University Braunschweig, Germany</i>
10.45 am	Refreshments Palm 1	
11.05 am	The ANOVA analysis of the factors that influence the stability of the fluoroquinolone-metal complexes [5A.4] B. Urbaniak, Z.J. Kokot*; <i>Poznan University of Medical Sciences, Poland</i>	New chiral stationary phases for liquid-phase enantioseparation of chiral drugs [5B.4] B. Chankvetaze; <i>Tbilisi State University, Georgia</i>
11.35 am	Automated solid-phase microextraction in 96-well plate format: high-throughput analysis and ligand-receptor binding studies [5A.5] D. Vuckovic ¹ , E. Cudjoe ¹ , D. Hein ² , R. Vatinno ³ , C. Zamboni ³ , J. Pawliszyn ¹ ; ¹ <i>University of Waterloo, Canada</i> , ² <i>Professional Analytical Service Technology, Germany</i> , ³ <i>Universit`a degli Studi di Bari, Italy</i>	Strategy for highly sensitive analysis of sugar chains by capillary electrophoresis [5B.5] T. Kawai, K. Sueyoshi, F. Kitagawa, K. Otsuka*; <i>Kyoto University, Japan</i>
12.05 pm	Investigation of various endogenous blood plasma components that contribute to matrix effects in LC/MS/MS analysis [5A.6] O.A. Ismaiel ^{1,2} , T. Zhang ¹ , R. Jenkins ³ , H.T. Karnes ¹ ; ¹ <i>Virginia Commonwealth University, United States</i> , ² <i>Zagazig University, Egypt</i> ; ³ <i>PPD, USA</i>	
12:35 pm	Keynote [K6] Gradient HPLC data for medicinal chemistry R. Kaliszan; <i>Gdansk Medical University, Poland</i>	
1.20 pm	Boxed lunches to take away available (included in registration) Palm 1	
1.20 pm	Conference closes	