

*Schedule of Abstracts by BUSM Cardiovascular Proteomics Center and Mass Spectrometry Resource Researchers  
American Society for Mass Spectrometry, Indianapolis, Indiana, June 3-7, 2007*

Authors	Abstract	Day/ Session	Time slot/ poster #
<u>Raman Mathur</u> ; Cheng Lin; Konstantin Aizikov; Ronald W. Knepper; Peter B. O'Connor	Low noise high performance preamplifiers for non-destructive detection of ions in precision mass spectrometry	MPD	054
<u>Konstantin Aizikov</u> ; Peter B. O'Connor	The spontaneous loss of coherence catastrophe in FTMS	MPD	055
<u>Jason J Cournoyer</u> ; Cheng Lin; Peter B O'Connor	Use of IRMPD/ECD to probe long-lived radical intermediates	MPG	104
<u>Xiaojuan Li</u> ; Jason J. Cournoyer; Cheng Lin; Peter B. O'Connor	The effect of fixed charge modifications on electron capture dissociation	MPH	127
<u>Weiwei Tong</u> ; Mark E. McComb; David Perlman; Hua Huang; Peter B. O'Connor; Catherine E. Costello; Zhiping Weng	Probability-based protein identification for post-translation modification and variation using peptide mass fingerprint data	MPK	180
<u>Elizabeth Palaima</u> ; Maria Joao Gravato-Nobre; Jonathan Hodgkin; Catherine Costello; John Cipollo	A glycomics approach for characterizing mutations in N- and O-Glycosylation of the nematode <i>Caenorhabditis elegans</i>	MPL	208
<u>Erika N. Ebbel</u> ; Wayne R. Matson; Mikhail B. Bogdanov; Catherine E. Costello	LCEC/LCMS studies of protein and oxidized neurotransmitter interactions	MPR	297
<u>Zhenning Hong</u> ; Roger Théberge; Yan Jiang; Amareth Lim; Tatiana Prokaeva; Lawreen H. Connors; Martha Skinner; Catherine E. Costello	Detection and characterization of AL light chain proteins from fibrils	MPZ5	475
<u>Xianglei Kong</u> ; Giuseppe Infusini; Cheng Lin; Honghai Jiang; Kathrin Breuker; Fred W. McLafferty	Gas-phase conformations of protonated serine octamers, peptides, and proteins using infrared photodissociation spectroscopy with FTMS	MPZ5	483
<u>Mark E. McComb</u> ; Claire Dauly; David H. Perlman; Weiwei Tong; Yang Su; Boris Hayete; James West; Catherine E. Costello	1D- and 2D-protein chromatography within the proteomics workflow for enhanced characterization of protein post-translational modifications	TOE am	9:15
<u>Yang Su</u> ; Sequin Huang; Hua Huang; David H. Perlman; Catherine E. Costello; Mark E. McComb	BUDSS: A software shell for automated MS data processing and management	TPI	154
<u>James West</u> ; Weiwei Tong; Yang Su; Catherine Costello; Mark McComb	Redundant data storage and data processing computer hardware solution for mass spectrometry laboratories on a budget	TPI	177

<u>Cheng Zhao</u> ; Bo Xie; Jason Cournoyer; Shiu-Yung Chan; Joseph Zaia; Catherine Costello; Peter O'Connor	Electron capture/detachment dissociation and collisionally activated dissociation provide complementary structural information of permethylated and native oligosaccharides	TPK	196
<u>Mahadevan Sethuraman</u> ; David H. Perlman; Chaomei Shi; Mark E. McComb; Catherine E. Costello; Richard A. Cohen	Identification of oxidant-induced post-translational modifications of GAPDH in endothelial cells using 2D-PAGE and mass spectrometry	TPY	406
<u>Roger Theberge</u> ; Yan Jiang; Mark E. McComb; Tatiana Prokaeva; Lawreen H. Connors; Martha Skinner; David C. Seldin; Catherine E. Costello	Detection and characterization of immunoglobulin light chain post-translational modifications using LCMS/MS-MS	TPY	407
<u>Bo Xie</u> ; Cheng Zhao; Giuseppe Infusini; Nancy Leymarie; Shiu-Yung Chan; Joseph Zaia; John F. Cipollo; Peter B. O'Connor ; Catherine E. Costello	Comparison of fragmentation patterns for oligosaccharides obtained with various MS/MS methods: Application to structural analysis of unknown oligosaccharides in glycoproteins	WOB am	8:55
<u>Alicia Hitchcock</u> ; Catherine E. Costello; Joseph Zaia	Tissue-based glycomics using stable isotope labels and normal phase LC-Tandem MS	WPR	289
<u>Michael Bowman</u> ; Joseph Zaia	The utility of multiplexed stable isotopic labeling of carbohydrates and quantitative analysis by mass spectrometry	WPR	292
<u>Hicham Naimy</u> ; <u>Nancy Leymarie</u> ; Joseph Zaia	Methodology and characterization of non-covalent protein bound heparin oligosaccharides by mass spectrometry	WPR	297
<u>Xiaofeng Shi</u> ; Joseph Zaia	Glycomic studies of glycosaminoglycans from rat tissues by LC-MS and CE-LIF analysis	WPR	298
<u>Vera B. Ivleva</u> ; Monica Viveros-Rogel; David S. Newburg; Guillermo Ruiz-Palacios; Peter B. O'Connor; Catherine E. Costello	Structural characterization of neutral and acidic lipids by TLC/VC-FTMS and MS/MS	WPZ	410
<u>Cheng Lin</u> ; Jason J. Cournoyer; Peter B. O'Connor	Probing the gas phase folding kinetics of peptide ions by IR activated DR-ECD	WPZ3	462
<u>Paul B. Romesser</u> ; David H. Perlman; Anupama Sinha; Mark E. McComb; Douglas V. Faller; Catherine E. Costello; Gerald V. Denis	Differential proteomic characterization of B cell proliferative states: analysis of tumor-specific and proliferation-specific proteomes in normal and malignant B cells	WPZ5	496
<u>Amanuel Y. Kehasse</u> ; David H. Perlman; Mark E. McComb; Ilene Boucher; Vickery T. Randall; Catherine E. Costello	Optimized enrichment and detection methodologies for the study of phosphopeptides of the epidermal growth factor receptor	ThPC	035
<u>Kip L. Bodi</u> ; Francesca Lavatelli; David H. Perlman; Mark E McComb; James West; Catherine E. Costello; Martha Skinner; David C. Seldin	GelKeys: A software application for 2D gel image storage, markup, and sharing	ThPP	271

Alicia M. Hitchcock; Michael J. Bowman; Catherine E. Costello; James Lau; Rudolf Grimm; Joseph Zaia	Chip-based normal phase LC/MS for glycomics of <i>N</i> -linked glycans and glycosaminoglycans	ThPQ	282
Gregory O. Staples; Mike J. Bowman; Nancy Leymarie; Catherine E. Costello; John F. Cipollo; Joseph Zaia	An LC/MS platform for glycomics analysis of <i>Caenorhabditis elegans</i> glycosaminoglycans	ThPQ	283
Yan Wang; Anatoli Meriin; Michael Sherman; Catherine Costello	Cdc48, the homolog of mammalian p97, mediates aggresomal deposits in yeast polyq model	ThPZ6	526
David H. Perlman; Selena Bauer; Nathan S. Bryan; Maria F. Garcia-Saura; Chee C. Lim; Bernadette O. Fernandez; Mark E. McComb; Catherine E. Costello; Martin Feelisch	Integrated time- and dose-resolved proteomic, redox metabonomic, and functional analysis of the cardioprotective effects of nitrite treatment on the heart	ThPZ6	528