TECHNICAL PROGRAM

POSTER SESSION — Session 1450

All posters are to be mounted by 10:00 AM and remain on display until 4:00 PM. Authors must be at their posters from 1:00 PM to 3:00 PM. Location of the afternoon posters is on the Exposition Floor, 400 Aisle. PLEASE NOTE: You cannot get onto the Exposition Floor until after 9:00 AM.

Bioanalytical: Separation Techniques

Tuesday Afternoon, Exposition Floor, 400 Aisle

(1450-1 P) **Surface Modified Nylon Capillary-Channeled Polymer (C-CP) Fibers for Protein Ion-Exchange Separations** LIUWEI JIANG, Clemson University, R Kenneth Marcus

(1450-2 P) **SEC Analysis of a Monoclonal Antibodies Using a Hybrid Silica Based Stationary Phase** JEFFREY KAKALEY, YMC America Inc., Ernest Sobkow

(1450-3 P) **HPLC Method Transfer for Biopharmaceutical Analysis** BROOKE M KOSHEL, Waters Corporation, Sean M McCarthy

(1450-4 P) **Ratio of Different Fatty Acids Determined by GC-MS in Exosomes Purified Through Size Exclusion Chromatography** RUI XU, Jackson State University, Yiming Liu, Joseph Fernandes, Radhika Pochampally

(1450-5 P) **Analysis of Chromium Species in Dietary Supplements Using ICP-MS and Speciated Isotope Dilution Mass Spectrometry (SIDMS)** KAITLIN MILLER, Duquesne University, Logan T Miller, Jennifer Crawford, Stuart Procter, Matt Pamuku, Skip Kingston

(1450-6 P) **Metabolomic Signatures from Early Stage Ovarian Cancer Patients** DAVID A GAUL, Georgia Institute of Technology, Christina M Jones, Long Q Tran, John F McDonald, Facundo M Fernandez

(1450-7 P) **Reducing Adhesion of Proteins on Stainless Steel Components by the Application of a Carboxysilane Coating** LUKE PATTERSON, SilcoTek Corporation, Alfredo Narvaez, David Daghfal, Vaidya Shyam, Min Yuan, David Smith

(1450-8 P) **Optimizations of Proteomic Sample Preparation Method for *Xenopus Laevis* Embryonic Proteomics** ELIZABETH H PEUCHEN, University of Notre Dame, Liangliang Sun, Norman J Dovichi

(1450-9 P) **Determination of the Constituent Compounds in the Essential Oil from the Stem Bark of Ficus Capensis, A Multipurpose Phytomedicine, by GCMS and their Relevance to the Bioactivity of the Plant** MODUPE M OGUNLESI, University of Lagos, Christianah T Aleshinloye

(1450-10 P) **GC-MS Analysis of the Essential Oil from the Stem Bark of Tetrapleura Tetrapetra, a Multipurpose Medicinal Plant, and Bioactivities of some Constituent Compounds** MODUPE M OGUNLESI, University of Lagos, Christianah T Aleshinloye

(1450-11 P) **Quantification of Trehalose and Other Sugars in Submergence Resistant Rice** ELIZABETH N MARTINEZ, California State Polytechnic University, Pomona, Rejbana Alam, Julia Bailey-Serres, Endang M Septiningsih, Gregory A Barding

(1450-12 P) **Exploring SFC for the Separation of Peptides and Small Proteins** CECILIA MAZZA, AkzoNobel PPC AB, Joakim Högblom, Peter Gidlund

(1450-13 P) **Automated Solid Phase Extraction Method for the Assessment of Human Exposure to Polycyclic Aromatic Hydrocarbons Using the Biomarker Metabolite 1-Hydroxypyrene in Urine** MICHAEL JOE TANNER, J2 Scientific, Jeff Wiseman

(1450-14 P) **High Speed SDS–PAGE of Proteins** PARUL MODI, Thermo Fisher Scientific, Stephen Roemer

(1450-15 P) **Withdrawn**

(1450-16 P) **Optimized Wide Pore Superficially Porous Particles by One-Step Coating Process for Fast and Efficient Separation of Large Biomolecules** WU CHEN, Agilent Technologies, Anne Mack, Xiaoli Wang

(1450-17 P) **Fast Quantification of Immunoglobulin G Using A New Protein A Analytical HPLC Column** KOSUKE ARAKI, Tosoh, Satoshi Fujii, Shigeru Nakatani, Atis Chakrabarti

(1450-18 P) **Charging YOYO-1 on Capillary Wall for Online DNA Intercalation and Integrating This Approach with Multiplex PCR and Bare Narrow Capillary–Hydrodynamic Chromatography for Online DNA Analysis** HUANG CHEN, University of Oklahoma, Zaifang Zhu, Joann Lu, Shaorong Liu

(1450-19 P) **From Peptide Fractions to Pure, Dry Powders: Development of a Novel Automated Chromatographic Purification Process Supported by Solid-Phase Trapping** YAMAZAKI TOMOYUKI, Shimadzu Corporation, Okoba Tsutomu, Matsuo Eiichi, Masuda Junichi, Iwata Yosuke, Robert E Buco, Nishimura Masayuki

(1450-20 P) **Coupling Ion Exchange Chromatography with Reverse Phase Liquid Chromatography for High-Throughput Analysis of Intact Proteins** ZAIFANG ZHU, University of Oklahoma, Joann Lu, Huang Chen, Shaorong Liu

POSTER SESSION — Session 1460

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High-Throughput Chemical Analysis

Tuesday Afternoon, Exposition Floor, 400 Aisle

(1460-1 P) **Withdrawn**

(1460-2 P) **Characterization and Use of a Microspectrophotometer for Quantitative Bio-Applications** THOMAS M SPUDICH, Maryville University, Bradley Postier, Ronald Mills

(1460-3 P) **California Chlor-Alkali Production Facility Monitors Organic Carbon for Increased Reliability and Equipment Protection** MARK MULLET, GE Analytical Instruments, Gary Erickson

(1460-4 P) **New Analysis Technology of Ultra-Trace Yellow Components in a Transparent Film** HOKO SUTO, Hitachi Chemical Co., Ltd., Kosuke Iwamoto, Akihiro Unnno

(1460-5 P) **Leaning out Stage 1 Conductivity** JENNY G WATSON, GE Analytical Instruments

(1460-6 P) **Theoretical Simulation of a Helium DC Glow Discharge Used as an Ambient Desorption/Ionization Source for Mass Spectrometry** WADE C ELLIS, Brigham Young University, Paul B Farnsworth, Ross L Spencer

(1460-7 P) **Mathematical Modeling and Computational Simulation of Matrix Effect on Uptake Kinetics in Solid Phase Microextraction** MD NAZMUL AALM, University of Waterloo, Luis Ricardez-Sandoval, Janusz Pawliszyn

(1460-8 P) **Simple Imager for Multi-Well Plates** THAYUMANASAMY SOMASUNDARAM, Florida State University, Michael Zawrotny

POSTER SESSION — Session 1470

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Surface and Microscopic Characterization of Nanostructures and Biological Materials

Tuesday Afternoon, Exposition Floor, 400 Aisle

(1470-1 P) **Characterizing Nanoparticle Size and Particle-Surface Interactions Using Nanophotonic Force Microscopy** DAKOTA O'DELL, Cornell University, Perry Schein, Summer Saraf, David Erickson

(1470-2 P) **Tuning Localized Surface Plasmon Resonance Wavelengths of Nanoparticles by Mechanical Deformation** FATHIMA S AMEER, Clemson University, Shilpa Varahagiri, Fenglin Wang, Hannah Mack, Marian Kennedy, Jeffrey N Anker

(1470-3 P) **Comparison of Color Pigment Removal between Graphitized Carbon Black and Zirconia-Based Adsorbents for QuEChERS Process** PATRICK MYERS, Supelco/Sigma-Aldrich, Katherine Stenerson, Tyler Young, Jennifer Claus, Michael Ye

(1470-4 P) **Potential-Dependent Adsorption of Water-Soluble Porphyrins at Liquid/Liquid Interfaces Studied by Polarization-Modulation Total Internal Reflection Fluorescence Spectroscopy** SHO YAMAMOTO, Kanazawa University, Hirohisa Nagatani, Hisanori Imura, Kotaro Morita

(1470-5 P) **The Concept of Lipobeads in the Context of Encapsulated Drug Delivery: Technological Challenges vs. Potential Advantages** SERGEY V KAZAKOV, Pace University

(1470-6 P) **Combination of Surface Plasmon Resonance - Surface Enhanced Raman Scattering Spectroscopy in the Kretschmann Configuration** JU-YOUNG KIM, University of Notre Dame, Zachary D Schultz

(1470-7 P) **Preparation and Characterization of Photo-Patterned Amorphous Carbon Films with Thiol-Click Reactions** CATHERINE G MCKENAS, University of North Carolina at Chapel Hill, Matthew R Lockett

(1470-8 P) **Electrophoretic Separation of Carbon Dots** KARINA M TIRADO-GONZÁLEZ, University at Buffalo, SUNY, Zuqin Xue, Luis A Colón

(1470-9 P) **Preparation and Separation of Highly Fluorescent Carbon Dots** ZUQIN XUE, University at Buffalo, SUNY, Luis A Colón, Karina M Tirado-González

(1470-10 P) **Microscopy in Analysis of Erythrocyte Shape Changes** VALIEV HAMMAT, Institute Applied Mechanics RAS, Karnet Yulia, Yumashev Oleg, Snegireva Nataliya