

# On-Demand Omics Webinar Series from Leading Researchers

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The archive comes from Agilent's omics webinar series covering scientific topics of interest using omics-based approaches.

Here's a summary of the recorded webinars that are available at [www.agilent.com/chem/omics\\_webinar](http://www.agilent.com/chem/omics_webinar)

## Genomics

### **Researching Cancer with the minION: Methylation and Structural Variation**

*Winston Timp, Assistant Professor Biomedical Engineering, Johns Hopkins University*

### **Advanced Analytical Techniques for Sequencing the Human Exposome**

*Douglas I. Walker, PhD, Department of Civil and Environmental Engineering, Tufts University*

### **Genomic Tools for Measuring DNA Damage and its Repair**

*Professor Simon Reed, Division of Cancer and Genetics, School of Medicine, Cardiff University*

### **ALS Genetics: Of Yeasts and Men**

*Julien Couthouis, PhD, Research Associate, Stanford University*

### **Computational Approaches to Transcriptome Signatures in the Human Brain**

*Michael Hawrylycz, PhD, Senior Director, Informatics, Allen Institute for Brain Science*

### **Toxicogenomics in Environmental Science**

*Natalia Garcia-Reyero, Associate Research Professor, Mississippi State University*

## Integrated Biology

### **Integration of Proteomics and Metabolomics to Elucidate Metabolic Adaptations in Triple Negative Breast Cancer**

*Qiuying Chen, Ph.D., Assistant Professor of Research, Department of Pharmacology, Weill Cornell Medical College of Cornell University*

### **Extracting New Insights from Cancer Genomics and Proteomics Data**

*Shweta Shukradas, PhD, Bioinformatics Product Manager, Agilent*

### **Population Research with MS-based Lipidomics and Proteomics**

*Manual Mayer, MD PhD, Imperial College*

## Integrated Biology (cont.)

### The Human Toxome Project - A Test Case for Pathway Identification by Multi-omics Integration

Thomas Hartung, MD, Ph.D, Professor, Johns Hopkins University

### Experimental Design and Workflow for MS-based Metabolomics and Lipidomics Research

Dan Cuthbertson, Application Engineer, Agilent

## Metabolomics

### Addressing Sample Stability Concerns in Large-Scale LC-MS Metabolomics Studies

Morgan J. Cichon, PhD, The Ohio State University

### Combining Seahorse XF Analysis with Stable Isotope Tracing to Reveal Novel Drug Targets for Metabolic and Neurodegenerative Disease

Ajit Divakaruni, Assistant Professor, Molecular and Medical Pharmacology University of California, Los Angeles (UCLA)

### Using Exposomics to Improve Honey Bee Health: A New Discovery-based Systems Biology Approach for Solving a Complex Multifactorial Problem

Christopher Mayack, Assistant Professor, Sabanci University, and Swarthmore College and Robert Broadrup, Visiting Assistant Professor, Haverford College

### Advanced Analytical Techniques for Sequencing the Human Exposome

Douglas I. Walker, PhD, Department of Civil and Environmental Engineering, Tufts University

### Metabolic Flux Analysis Reveals Mechanistic-Based Changes after Muscle AMPK Activation

John K. Meissen, Department of Pharmacokinetics, Dynamics and Metabolism, Pfizer, Inc.

### Exposomics and Omic Health Example in a Case Control Study Using Quantitative Mass Spec

H. M. (Skip) Kingston, Ph.D., Professor, Bayer School of Natural and Environmental Sciences Chemistry & Biochemistry, Duquesne University.

### Stable Isotope Tracing for Folate-mediated One-Carbon Trafficking in Colon Cancer Cells and a 3-D Cell Model of Embryogenesis

Steven S. Gross, PhD, Professor of Pharmacology, Director of Mass Spectrometry Core Facility, Weill Medical School of Cornell University

### Introducing VistaFlux Software for High Performance Qualitative Flux Analysis

Steve Madden and Norton Kitagawa, Agilent

### Seahorse Metabolic Analyzers Enable Rapid, Quantitative Measurement of Cellular Bioenergetics

David A. Ferrick, PhD, Chief Scientific Officer, Agilent

### Applications of Metabolomics to Study Re-wired Cancer Metabolism

Arun Sreekumar, Ph.D., Associate Professor, Baylor College of Medicine - Cancer Research/Metabolomics and Genomics

### Applications of Metabolomics in Systems Level Biochemistry

Kyu Rhee, Associate Professor, Weill Cornell Medical College

### Metabolomic Biomarkers for Drug-Induced Renal Damage

Lawrence J. Lesko, Professor, Director Center for Pharmacometrics and Systems Pharmacology, University of Florida

### A Robust LC-triple Quadrupole Metabolomics Platform for Polar Metabolite Profiling: Dynamic Biological Systems Meet Dynamic MRMs

Adam Rosebrock, Assistant Professor, Donnelly Center for Cellular and Biomolecular Research, University of Toronto

### High Throughput Workflow for Global Metabolomic Profiling of Biological Samples with RapidFire online SPE/MS System

Michelle Romm, Application Engineer, Agilent

## Proteomics

### Utilizing an Accurate Mass and Retention Time Library to Facilitate Bio-Marker Discovery in the Human Cerebrospinal Fluid Proteome

Nichole Reisdorph, PhD, Associate Professor, Skaggs School of Pharmacy and Pharmaceutical Sciences University of Colorado

### Comparison of Nano and Standard Flow Proteomics for Tissue and Plasma Samples

Blaine Roberts, PhD, Florey Institute of Neuroscience and Mental Health

### A Modular Automated Proteomics Workflow for Analyzing Small Sample Amounts

Erik de Graaf, PhD, Fondazione Pisana per la Scienza

### The SOMAscan Assay and SOMAmer Reagents: Translatable Tools from High-Throughput Biomarker Discovery to Targeted Assays

Sheri K. Wilcox, PhD, Senior Director, Discovery Sciences, SomaLogic

### Development, Significance, and Application of Standardized Kits for Quantitative Proteomic Studies

Andrew Percy, Cambridge Isotope Laboratories

### New Developments in LC-IMS-MS Proteomic Measurements and Informatic Analyses

Erin Baker, Ph.D., Senior Research Scientist, Pacific Northwest National Laboratory

### Design and Development of Multiplexed MRM assays for Evaluation of Blood Protein Biomarkers - Towards Delivery of Clinical Grade Tests

Stephen Pennington, Conway Institute, UCD

### Spectrum Mill: A Powerful Tool for Proteomics Research

Karl Clauser, Research Scientist, Broad Institute at MIT and Harvard

### Targeted Protein and Peptide Quantitation using Skyline Software

Alex Zhu, Application Engineer, Agilent

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