



PANIC NMR 2023 CONFERENCE PROGRAM

(As of Thursday, March 9, 2023)

SUNDAY, MARCH 12

- 10:00 a.m. to 7:00 p.m. **Registration**
Room: Acorn Ballroom Foyer (1st Floor)
- 10:30 a.m. to 12:30 p.m. **JEOL USA Users Meeting** *(Refreshment Break Service Included)*
Room: Acorn Ballroom (1st Floor)
- 12:30 p.m. to 1:30 p.m. **Users Meeting Lunch**
Room: Acorn Ballroom Foyer (1st Floor)
- 1:30 p.m. to 3:30 p.m. **Mestrelab Research Users Meeting** *(Refreshment Break Service Included)*
Room: Acorn Ballroom (1st Floor)
- 4:00 p.m. to 6:00 p.m. **Bruker Corporation Users Meeting** *(Refreshment Break Service Included)*
Room: Acorn Ballroom (1st Floor)
- 6:00 to 7:30 p.m. **Welcome Reception in the Exhibit Hall with PANIC Exhibitors and PANIC Poster Presentations and Q&A** **All Poster Numbers**
Room: Parthenon Ballroom (2nd Floor)
- 7:30 p.m. **Dinner on Your Own**



MONDAY, MARCH 13

7:00 a.m. to 6:00 p.m.

Registration

Room: Acorn Ballroom Foyer (1st Floor)

7:15 to 8:15 a.m.

Breakfast on Your Own

8:15 a.m.

PANIC Chairs' Opening Remarks

Room: Acorn Ballroom (1st Floor)

8:20 to 9:55 a.m.

Session #1: Across Molecular Modalities Pharma

Session Chairs: Anuji Abraham and Amber Balazs

Room: Acorn Ballroom (1st Floor)

8:25 a.m. – NMR Nanoimaging Reveals Spatial Organization of Lipid Nanoparticle Drug Delivery System

Speaker: Tatyana Polenova, University of Delaware

8:55 a.m. – Characterization of Protein Degradation Ternary Complexes Using Protein-detected NMR Spectroscopy

Speaker: Reto Horst, Pfizer, Inc

9:25 a.m. – Determining the E/Z-Conformation of Photoisomerizable 5-Methylene Substituted Hydantoins by EXSIDE NMR Analysis

Speaker: Christopher LeClair, National Center for Advancing Translational Sciences

9:55 to 10:15 a.m.

Coffee Break in the Exhibit Hall with PANIC Exhibitors

Room: Parthenon Ballroom (2nd Floor)

10:15 a.m. to 11:50 a.m.

Session #2: Living in the Materials World

Session Chairs: Ryan Nieuwendaal and Anuji Abraham

Room: Acorn Ballroom (1st Floor)

10:20 a.m. – Characterization of Pharmaceuticals and Health Products by Dynamic Nuclear Polarization Solid-State Nuclear Magnetic Resonance Spectroscopy

Speaker: Aaron J. Rossini, Iowa State University

10:50 a.m. – Analyzing Zeolite Catalyst Properties at an Atomic Level by Solid-State NMR

Speaker: Brad Chmelka, UCSB Chemical Engineering

11:20 a.m. – Solids NMR Methods for Disordered and Heterogeneous Materials in Energy Storage and Conversion Devices

Speaker: Kris Harris, Louisiana Tech University

11:50 a.m. to 12:50 p.m.

Luncheon in the Exhibit Hall with PANIC Exhibitors

Room: Parthenon Ballroom (2nd Floor)

MONDAY, MARCH 13 (Continued)

12:50 to 1:50 p.m.

PANIC Poster Presentations and Q&A **All Poster Numbers**
Room: Parthenon Ballroom Foyer (2nd Floor)

2:00 to 3:35 p.m.

Session #3: Metabolites: Out of the Sandbox and Into the Real World
Session Chairs: Mark Dixon and Amy Freund
Room: Acorn Ballroom (1st Floor)

2:05 p.m. – **Stable Isotope Tracing of Nutrients from Consumption to Energy Production in Humans: Understanding Metabolism in the Fanconi Anemia Population**
Speaker: Lindsey Romick Rosendale, Cincinnati Children's Hospital

2:35 p.m. – **New Tools For NMR-Metabolite Biomarker Discovery: Navigators, NUS and Signal Enhancement**
Speaker: Alessia Trimigno, Olaris Inc.

3:05 p.m. – **NMR-Based Metabolomics to Probe Small Molecule Chemical Pathways in the Brain: Towards Novel Treatments for Neurodegenerative Diseases**
Speaker: Fay Probert, The University of Oxford

3:35 to 3:55 p.m.

Coffee Break in the Exhibit Hall with PANIC Exhibitors
Room: Parthenon Ballroom (2nd Floor)

3:55 to 5:30 p.m.

Session #4: Low Field NMR
Session Chairs: Matthew Augustine and Frank Delaglio
Room: Acorn Ballroom (1st Floor)

4:00 p.m. – **NMR & 3D X-ray Microtomography Research at the Interface Between Oil Exploration and Geological CO₂ Storage**
Speaker: Tito Bonagamba, University of Sao Paulo – Brazil

4:30 p.m. – **Multiplatform Inter-Lab Study of wNMR for Characterization of Injectable Pharmaceutical Products**
Speaker: Katharine Briggs, University of Maryland School of Pharmacy

5:00 p.m. – **Quantification of Vaccine Components by Benchtop NMR**
Speaker: Adam Sutton, Merck

5:30 p.m.

Special Session: AMMRL: A Community-Based Resource for Those Who Provide NMR to Their Organizations
Speaker: Marc ter Horst, University of North Carolina, Chapel Hill
Room: Acorn Ballroom (1st Floor)

6:10 p.m.

Dinner on Your Own

TUESDAY, MARCH 14

7:00 a.m. to 6:00 p.m.

Registration

Room: Acorn Ballroom Foyer (1st Floor)

7:00 to 8:00 a.m.

Travel Awardee Breakfast, sponsored by AstraZeneca *(Invitation Only)*

Room: View on 2 (2nd Floor)

8:00 a.m.

PANIC Chairs' Opening Remarks

Room: Acorn Ballroom (1st Floor)

8:05 to 9:40 a.m.

Session #5 What we Taught the Machines: NMR in the Era of Deep Learning

Session Chairs: Frank Delaglio and Amy Freund

Room: Acorn Ballroom (1st Floor)

8:10 a.m. – Computational Structural Biology in the Era of Deep Learning

Speaker: John Moulton, University of Maryland

8:40 a.m. – Using Deep Learning to Unleash the Full Potential of NMR Spectroscopy

Speaker: D. Flemming Hansen, University College London

9:10 a.m. – Machine Learning for the Automated Analysis of NMR Spectra of Small and Large Molecules at Low and High Field

Speaker: Rafael Bruschweiler, Ohio State University

9:40 to 10:00 a.m.

Coffee Break in the Exhibit Hall with PANIC Exhibitors

Room: Parthenon Ballroom (2nd Floor)

10:00 a.m. to 11:35 a.m.

Session #6: Proton and Heteronuclear qNMR Solutions

Session Chairs: Klas Meyer and Amber Balazs

Room: Acorn Ballroom (1st Floor)

10:05 a.m. – Post-Purification Workflow with qNMR: Simplified, Sustainable, and Accurate Assay-Ready Liquid Stocks

Speaker: Sylvain Demanze, AstraZeneca

10:35 a.m. – The Role of 19F qNMR in Human Absorption, Distribution, Metabolism and Excretion Studies of PAXLOVID

Speaker: Raman Sharma, Pfizer

11:05 a.m. – Site-Specific Carbon Isotope Measurements of Vanillin Reference Materials by Nuclear Magnetic Resonance Spectroscopy

Speaker: Mai Le, National Research Council Canada

TUESDAY, MARCH 14 (Continued)

- 11:35 a.m. to 12:50 p.m. Luncheon, Sponsored by 
Integration of Benchtop NMR in PAT Orchestrations for Process Optimization and Intelligent Production on Demand
Speaker: Anna Codina, Bruker Corporation
Room: Acorn Ballroom (1st Floor)
- 12:50 to 1:50 p.m. **Dessert in the Exhibit Hall with PANIC Exhibitors**
Room: Parthenon Ballroom (2nd Floor)
- 1:50 to 2:35 p.m. **PANIC Poster Presentations and Q&A **All Poster Numbers****
Room: Parthenon Ballroom Foyer (2nd Floor)
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- 2:35 to 4:10 p.m. **Session #7: Polymers, Petro, and Pores**
Session Chairs: Sarah Mattler and Ryan Nieuwendaal
Room: Acorn Ballroom (1st Floor)
- 2:40 p.m. – **Intermolecular Dipolar Cross-Relaxation of Nano-Confined Fluids**
Speaker: Jin-Hong Chen, Aramco Americas
- 3:10 p.m. – **Measurement of PVC Swelling for Coating Applications**
Speaker: Hattie Ring, 3M
- 3:40 p.m. – **2D T1-T2 NMR to Determine Oil and Water Saturations in Shale**
Speaker: Stacey Althaus, Aramco Services
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- 4:10 to 4:40 p.m. **Coffee Break and Awards Ceremony in the Exhibit Hall with PANIC Exhibitors**
Room: Parthenon Ballroom (2nd Floor)
- 4:40 to 6:15 p.m. **Session #8: Food and Agriculture (but Mostly Weed)**
Session Chairs: Matthew Augustine and Tim Bergeron
Room: Acorn Ballroom (1st Floor)
- 4:45 p.m. – **Application of NMR Spectroscopy in the Cannabis Industry - Small Steps for a Small Lab**
Speaker: John Edwards, Process NMR Assoc
- 5:15 p.m. – **Creation of an NMR Library of H1-C13 Atomic Fingerprints of Pure Cannabis Components for Characterization of Cannabis and Cannabis Products**
Speaker: Alan Benesi, UC Irvine
- 5:45 p.m. – **New Applications of Low Field Nuclear Magnetic Resonance in Soil Science**
Speaker: Etelvino Novotny, Embrapa (Brazillian Agricultural Research Co)
-
- 6:25 p.m. **Dinner on Your Own**

WEDNESDAY, MARCH 15

7:00 a.m. to 3:30 p.m.

Registration

Room: Acorn Ballroom Foyer (1st Floor)

7:15 to 8:15 a.m.

Breakfast on Your Own

8:15 a.m.

PANIC Chairs' Opening Remarks

Room: Acorn Ballroom (1st Floor)

8:20 to 9:55 a.m.

Session #9: Biophysical Biopharma

Session Chairs: Gennady Khirich and Subrata Mishra

Room: Acorn Ballroom (1st Floor)

8:25 a.m. – NMR Characterization of Biologics

Speaker: Mark McCoy, Merck & Co

8:55 a.m. – Solid-State NMR Characterization of Lyophilized Formulations of Monoclonal Antibodies

Speaker: Luke Arbogast, Eli Lilly & Company

9:25 a.m. – Ranking mAb-excipient Interactions in Biologics Formulations by NMR Spectroscopy and Computational Approaches

Speaker: Chunting Zhang, Bristol Myers Squibb

9:55 to 10:10 a.m.

Coffee Break

Room: Acorn Ballroom Foyer (1st Floor)

10:10 a.m. to 11:45 a.m.

Session #10: Exotica

Session Chairs: Matthew Augustine and John Cort

Room: Acorn Ballroom (1st Floor)

10:15 a.m. – First Demonstration of 1-¹³C Pyruvate Hyperpolarization via SABRE in-vivo

Speaker: Austin Browning, North Carolina State University

10:45 a.m. – Towards Using Portable NMR to Real-Time Track Biomass Cavitation Extraction

Speaker: Brandon Cutler, UC Davis

11:15 a.m. – Mapping the Vanadium Solvation Spectrum in Redox Flow Battery Electrolytes using Multinuclear NMR

Speaker: Vijay Murugesan, PNNL

WEDNESDAY, MARCH 15 (Continued)

11:45 a.m.

Lunch

Participants will eat their lunch in Acorn Ballroom during Session #11
Room: Acorn Ballroom Foyer (1st Floor)

12:00 to 1:35 p.m.

Session #11: Energy

Session Chairs: John Cort and Sarah Mattler

Room: Acorn Ballroom (1st Floor)

12:05 p.m. – Broadband Heteronuclear Correlation Techniques for Overcoming Magnetic Susceptibility Broadening in NMR of Coin Cell Batteries

Speaker: Keith Fritzsching, Sandia

12:35 p.m. – Quantitative Low-field 19F NMR Analysis of Carbonyl Groups in Bio-oils

Speaker: Bridget Tang, Aston University

1:05 p.m. – Elucidating Structural Characteristics of Renewable Products from a Two-step Ex Situ Hydrolysis Vapor Upgrading Process by One- and Two-dimensional NMR Spectroscopy

Speaker: Jinfeng Lai, Phillips 66

1:35 to 1:45 p.m.

Break

1:45 to 3:20 p.m.

Session #12: Methodology/Processing

Session Chairs: Subrata Mishra and Mark Dixon

Room: Acorn Ballroom (1st Floor)

1:50 p.m. – Covariance NMR to Rescue Challenging Biomolecular Projects – Finding Needles in Haystacks

Speaker: Dominique Frueh, Johns Hopkins School of Medicine

2:20 p.m. – Design of NMR Supersequences for Small Molecule Application

Speaker: Eriks Kupce, Bruker Corporation

2:50 p.m. – NMR-Guided Directed Evolution

Speaker: Ivan V. Korendovych, Syracuse University

3:20 p.m.

Closing Remarks

Room: Acorn Ballroom (1st Floor)

Thank You!



PANIC NMR 2023 CONFERENCE SPEAKERS

(As of Monday, March 6, 2023)

Stacey Althaus

Aramco Services

2D T1-T2 NMR to Determine Oil and Water Saturations in Shale

Luke Arbogast

Eli Lilly & Company

Solid-State NMR Characterization of Lyophilized Formulations of Monoclonal Antibodies

Alan Benesi

UC Irvine

Creation of an NMR Library of H1-C13 Atomic Fingerprints of Pure Cannabis Components for Characterization of Cannabis and Cannabis Products

Tito Bonagamba

University of Sao Paulo – Brazil

NMR & 3D X-ray Microtomography Research at the Interface Between Oil Exploration and Geological CO2 Storage

Brandon Cutler

UC Davis

Towards Using Portable NMR to Real-Time Track Biomass Cavitation Extraction

Katharine Briggs

University of Maryland School of Pharmacy

Multiplatform Inter-Lab Study of wNMR for Characterization of Injectable Pharmaceutical Products

Austin Browning

North Carolina State University

First Demonstration of 1-13C Pyruvate Hyperpolarization via SABRE in-vivo

Rafael Bruschweiler

Ohio State University

Machine Learning for the Automated Analysis of NMR Spectra of Small and Large Molecules at Low and High Field

Jin-Hong Chen

Aramco Americas

Intermolecular Dipolar Cross-Relaxation of Nano-Confined Fluids

Brad Chmelka

UCSB Chemical Engineering

Analyzing Zeolite Catalyst Properties at an Atomic Level by Solid-State NMR

CONFERENCE SPEAKERS (Continued)

Anna Codina
Bruker Corporation

Integration of Benchtop NMR in PAT Orchestrations for Process Optimization and Intelligent Production on Demand

Sylvain Demanze
AstraZeneca

Post-Purification Workflow with qNMR: Simplified, Sustainable, and Accurate Assay-Ready Liquid Stocks

John Edwards
Process NMR Assoc

Application of NMR Spectroscopy in the Cannabis Industry - Small Steps for a Small Lab

Keith Fritzsching
Sandia

Broadband Heteronuclear Correlation Techniques for Overcoming Magnetic Susceptibility Broadening in NMR of Coin Cell Batteries

Dominique Frueh
Johns Hopkins School of Medicine

Covariance NMR to Rescue Challenging Biomolecular Projects – Finding Needles in Haystacks

D. Flemming Hansen
University College London

Using Deep Learning to Unleash the Full Potential of NMR Spectroscopy

Kris Harris
Louisiana Tech University

Solids NMR Methods for Disordered and Heterogeneous Materials in Energy Storage and Conversion Devices

Reto Horst
Pfizer, Inc

Characterization of Protein Degradation Ternary Complexes Using Protein-detected NMR Spectroscopy

Ivan V. Korendovych
Syracuse University

NMR-Guided Directed Evolution

Eriks Kupce
Bruker Corporation

Design of NMR Supersequences for Small Molecule Application

Jinfeng Lai
Phillips 66

Elucidating Structural Characteristics of Renewable Products from a Two-step Ex Situ Hydrolysis Vapor Upgrading Process by One- and Two-dimensional NMR Spectroscopy

CONFERENCE SPEAKERS (Continued)

Mai Le

National Research Council Canada

Site-Specific Carbon Isotope Measurements of Vanillin Reference Materials by Nuclear Magnetic Resonance Spectroscopy

Christopher LeClair

National Center for Advancing Translational Sciences

Determining the E/Z-Conformation of Photoisomerizable 5-Methylene Substituted Hydantoins by EXSIDE NMR Analysis

Mark McCoy

Merck & Co

NMR Characterization of Biologics

John Moulton

University of Maryland

Computational Structural Biology in the Era of Deep Learning

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PNNL

Mapping the Vanadium Solvation Spectrum in Redox Flow Battery Electrolytes using Multinuclear NMR

Etelvino Novotny

Embrapa (Brazilian Agricultural Research Co)

New Applications of Low Field Nuclear Magnetic Resonance in Soil Science

Tatyana Polenova

University of Delaware

NMR Nanoimaging Reveals Spatial Organization of Lipid Nanoparticle Drug Delivery System

Fay Probert

The University of Oxford

NMR-Based Metabolomics to Probe Small Molecule Chemical Pathways in the Brain: Towards Novel Treatments for Neurodegenerative Diseases

Hattie Ring

3M

Measurement of PVC Swelling for Coating Applications

Lindsey Romick Rosendale

Cincinnati Children's Hospital

Stable Isotope Tracing of Nutrients from Consumption to Energy Production in Humans: Understanding Metabolism in the Fanconi Anemia Population

Aaron J. Rossini

Iowa State University

Characterization of Pharmaceuticals and Health Products by Dynamic Nuclear Polarization Solid-State Nuclear Magnetic Resonance Spectroscopy

CONFERENCE SPEAKERS (Continued)

Raman Sharma
Pfizer

The Role of 19F qNMR in Human Absorption, Distribution, Metabolism and Excretion Studies of PAXLOVID

Adam Sutton
Merck

Quantification of Vaccine Components by Benchtop NMR

Bridget Tang
Aston University

Quantitative Low-field 19F NMR Analysis of Carbonyl Groups in Bio-oils

Marc ter Horst
University of North Carolina, Chapel Hill

AMMRL: A Community-Based Resource for Those Who Provide NMR to Their Organizations

Alessia Trimigno
Olaris Inc.

New Tools For NMR-Metabolite Biomarker Discovery: Navigators, NUS and Signal Enhancement

Chunting Zhang
Bristol Myers Squibb

Ranking mAb-excipient Interactions in Biologics Formulations by NMR Spectroscopy and Computational Approaches

Are you interested in accessing the conference's full session abstracts? Head to
<https://panicmr.com/speaker-abstracts-2023-nashville/>

Are you interested in checking out the conference's poster abstracts? Head to
<https://panicmr.com/poster-abstracts-2023-nashville/>



PANIC NMR 2023 POSTER PRESENTATIONS

(As of Tuesday, March 7, 2023)

- 1. When Does Computer-Assisted Structure Elucidation (CASE) Spare You from Recording (IN)ADEQUATE?**
Dimitris Argyropoulos, ACD Labs
- 2. J-Couplings in Siloxanes Measured with INEPT-PIETA**
Jay Baltisberger, Wacker Chemical Corporation
- 3. Operando Multidimensional NMR Monitoring of Flow Photochemical Reactions**
Margherita Bazzoni, CEISAM, Nantes Universite, cnrs
- 4. Reference Materials for Quality Assurance/Control in Metabolomics Research Applications**
Fabio Casu, National Institute of Standards and Technology
- 5. New Product development; From the What to The Why**
Tomris Coban, Kingston University / KASNMR Ltd
- 6. The Importancy of NMR for Oil and Fats Industry After Lethal Yellowing and Trans-fat Banishment**
Daniel Consalter, Fine Instrument Technology
- 7. Ultraclean Pure Shift NMR with Optimal Water Suppression for Analysis of Aqueous Pharmaceuticals Mixtures**
Guilherme Dal Poggetto, Merck & Co.
- 8. Quantitative NMR Spectroscopy - Alcoholic, Non-Alcoholic and Low-Alcohol Beverages - Quality Control**
John C. Edwards, Process NMR Associates, LLC
- 9. Quantitative NMR - Fraudulent Food and Nutritional Supplement Analysis - A World of ChemisTwin: A Novel Online Platform for Electronic Reference Materials**
John C. Edwards, Process NMR Associates, LLC
- 10. Single-Sided NMR for the Characterization of Hydrogels**
Daniel Gruber, Colorado University Boulder
- 11. Assay Determination of Pharmaceutical Materials by Solution-State qNMR**
Akshar Gupta, Vertex Pharmaceuticals
- 12. A Structural Study of a Cryptococcus neoformans GXM Synthetic Decasaccharide**
Audra Hargett, FDS - HHS
- 13. Adaptation of Flow-NMR to Heterogeneous Reactions**
Heike Hofstetter, University of Wisconsin – Madison

POSTER PRESENTATIONS (Continued)

- 14. Detection of Robusta Coffee in Arabica coffee by ¹H NMR Spectroscopy**
Diganta Kalita, VDF-FutureCeuticals
- 15. Using MRI to Study High Pressure Nutrient Infusion**
Julia Kerr, Lawrence Livermore National Laboratory
- 16. A High-Throughput HPLC-MS/NMR Platform in Pharmaceutical Industry**
Martin Koos, Pfizer Inc.
- 17. Probing the Structure and Dynamics of Ipglyceramide Cyclic Peptide Analogues by NMR Spectroscopy**
Samuel Kotler, National Center for Advancing Translational Sciences, NIH
- 18. Investigation of Actinometers for LED NMR Spectroscopy**
Nuwanthik Dilrukshi Kumarage, University North Carolina, Chapel Hill
- 19. Catalyst and Methanol Free Injection of SABRE Hyperpolarized [¹⁻¹³C]Pyruvate Detected In Vivo**
Keilian Macculloch, North Carolina State University
- 20. High Pressure Vapor Liquid Equilibrium Measurements of binary hydrocarbon and water mixtures using Nuclear Magnetic Resonance (NMR) Spectroscopy**
Samantha Miller, National Institute for Standards and Technology (NIST)
- 21. pH-Dependent Amyloid Aggregation of the Pmel17 Repeat Domain Characterized by NMR**
Daniel Morris, NIH
- 22. Droplet Size Analysis of Food Emulsions using TD-NMR: Multimodal and Unimodal Distribution**
Eduardo Nascimento, Bruker BioSpin GmbH
- 23. Quantitative Composition Analysis of Industrially Relevant Complex Mixtures with Benchtop ¹H NMR Spectroscopy**
Sergio Alejandro Ortiz-Restrepo, Institute of Technical & Molecular Chemistry at RWTH Aachen University, Germany
- 24. Using qNMR to Study the Kinetics of Reactions of Thioesters in Aqueous Solution**
Desmond Boateng Ofuosu, St. Louis University
- 25. ChemisTwin: A Novel Online Platform for Electronic Reference Materials**
Albert Farre Perez, MiliporeSigma
- 26. Benchtop Nuclear Magnetic Resonance Assays According to United States Pharmacopoeia - National Formulary Monographs**
Susie Riegel, Nanalysis
- 27. NMR-Informed Kinetic Monte Carlo Models for Evaluating Polysaccharide Reactivity**
Ben Reiner, Dow Chemical
- 28. New Product Development; From the What to the Why**
Cameron Robertson, Kingston University / KASNMR Ltd

POSTER PRESENTATIONS (Continued)

- 29. Development of An External Calibration qNMR Workflow in Small-Molecule Pharmaceutical R&D**
David Russell, Genentech
- 30. Developing an Automated Sample Preparation Workflow for NMR-Based Analysis Platforms**
Savanah L. Saldana-Shumaker, NIH/NCATS
- 31. NMR a Valuable Tool for Quality Control in the Vaccine Industry – Comparison of qNMR with ELISA Immunoassay**
Patricia Sepulcri, Sanofi-Vaccine Division
- 32. Measuring the Diffusivity of Aqueous Polyvinylpyrrolidone (PVP) Solutions Using Unilateral NMR**
Cassandra Stoffer, National Institute of Standards and Technology
- 33. Newly Implemented Techniques for the Analysis of Diverse Applications with the Spinsolve**
Curt Zanelotti, Magritek
- 34. Quantification of Low-level Impurities using JASON**
Iain Day, JEOL – UK

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This year, the Poster Presentations will not alternate by odd and even numbers.

To ensure that each presenter has ample opportunity to showcase their work, all poster presentations will take place during the dates/times listed below.

Sunday, March 12

6:00 to 7:30 p.m.

Welcome Reception in the Exhibit Hall with PANIC Exhibitors

Room: Parthenon Ballroom (2nd Floor)

and

and PANIC Poster Presentations and Q&A

Room: Parthenon Ballroom Foyer (2nd Floor)

Monday, March 13

12:50 to 1:50 p.m.

PANIC Poster Presentations and Q&A

Room: Parthenon Ballroom Foyer (2nd Floor)

Tuesday, March 14

1:50 to 2:35 p.m.

PANIC Poster Presentations and Q&A

Room: Parthenon Ballroom Foyer (2nd Floor)



THANK YOU TO OUR 2023 SPONSORS AND EXHIBITORS

(As of Thursday, March 9, 2023)

SUPERCONDUCTOR

(Booth #1) Bruker offers advanced preclinical imaging solutions for a broad spectrum of application areas, such as oncology, neurology, cardiology, inflammation, infectious diseases, functional and anatomical neuroimaging, cardiac imaging and stroke models. Our range of imaging modalities includes PET/SPECT/CT Imaging, MRI, PET/MRI Imaging, microCT, Multiphoton and Intravital Confocal Microscopy and MALDI Imaging

www.bruker.com

RESONATOR

(Booth #4) JEOL USA Inc. has more than seven decades of experience in manufacturing top-of-the line scientific equipment for MassSpec, TEM, SEM, NMR and LHC to name a few. JEOL offers NMR systems that cover the entire range of modern NMR methods, from routine small molecule studies to novel solids and biomolecular applications.

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COSY

(Booth #3) iChrom Solutions. For over 15 years, iChrom Solutions has been providing answers for laboratories needing Integrated Laboratory Automation. Beginning in the early 2000's, iChrom has been the exclusive North American dealer for automated, online SPE sample preparation products from Spark Holland in the Netherlands.

www.ichrom.com

(Booth #10) Mestrelab Research offers innovative scientific software for analytical chemistry data processing & reporting, solutions for automating data workflows, ELNs, request-to-result solutions, knowledge-based systems, and AI-ready data management. Our tools support NMR, LC-GC/MS, and optical spectroscopic data, extracting meaningful chemical information and offering data storage & intelligent database mining.

www.mestrelab.com

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US Pharmacopeia (USP) is an independent, scientific nonprofit organization that has focused on building trust in the supply of safe, quality medicines since 1820. We are a public health organization that uses rigorous science and public quality standards setting to protect patient safety and improve global health.

www.usp.org

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THANK YOU TO OUR 2023 SPONSORS AND EXHIBITORS (Continued)

CORPORATE SPONSOR

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EDUCATIONAL GRANT

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www.astrazeneca.com

EXHIBITOR

(Booth #8) Alegre Science Inc is a provider of NMR equipment and technology for imaging, spectroscopy and industrial analysis. We have the singular goal to provide software, consulting and technology which gratifies our clients. Our brands include Q.One, Pure Devices, Turbospec, Fine Instruments, Droplet Lab as well as Alegre Science branded products.

www.alegrescience.com

(Booth #9) Magritek is the global leader in manufacturing cryogen-free benchtop Nuclear Magnetic Resonance (NMR) spectrometers for the analytical instrument market. Magritek's revolutionary Spinsolve family of benchtop NMR models offer the highest sensitivity and resolution available in the market.

Learn more at www.magritek.com.

(Booth #6) Nanalysis manufactures benchtop Nuclear Magnetic Resonance (NMR) spectrometers aimed at proliferating the use of NMR in qualitative and quantitative chemical applications – including pharma, petrochemicals, and process control, etc. The NMReady-60 is compact, multinuclear, 60 MHz award-winning spectrometers.

For more information, please visit www.nanalysis.com

THANK YOU TO OUR 2023 SPONSORS AND EXHIBITORS (Continued)

(Booth #5) Oxford Instruments America Inc. offers a range of benchtop NMR spectroscopy and time domain (TD-NMR) relaxometry solutions to enable novel research and optimize quality control. Our X-Pulse NMR spectrometers, with unique broadband multi-nuclei selection, identify molecular structure and monitor reaction dynamics. MQC+ analyzers provide fast, simple and accurate QA/QC solutions in multiple industries.

<https://nmr.oxinst.com>