

PANIC NMR 2023 CONFERENCE PROGRAM

(As of Thursday, March 9, 2023)

SUNDAY, MARCH 12

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



2023 PANIC NMR Conference • Page 1 of 17

MONDAY, MARCH 13

7:00 a.m. to 6:00 p.m.	Registration Room: Acorn Ballroom Foyer (1 st Floor)
7:15 to 8:15 a.m.	Breakfast on Your Own
8:15 a.m.	PANIC Chairs' Opening Remarks Room: Acorn Ballroom (1 st Floor)
8:20 to 9:55 a.m.	Session #1: Across Molecular Modalities Pharma Session Chairs: Anuji Abraham and Amber Balazs Room: Acorn Ballroom (1 st 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 Degrader 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 <i>Room: Parthenon Ballroom (2nd Floor)</i>
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 (1 st 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 (2 nd 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 (2 nd 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 (1 st 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 <i>Room: Parthenon Ballroom (2nd Floor)</i>
3:55 to 5:30 p.m.	Session #4: Low Field NMR Session Chairs: Matthew Augustine and Frank Delaglio Room: Acorn Ballroom (1 st 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 (1 st Floor)
6:10 p.m.	Dinner on Your Own

TUESDAY, MARCH 14

Registration Room: Acorn Ballroom Foyer (1 st Floor)
Travel Awardee Breakfast, sponsored by AstraZeneca
Room: View on 2 (2 nd Floor)
PANIC Chairs' Opening Remarks
Room: Acorn Ballroom (1 st Floor)
Session #5 What we Taught the Machines: NMR in the Era of Deep Learning
Session Chairs: Frank Delaglio and Amy Freund
Room: Acorn Ballroom (1 st Floor)
8:10 a.m. – Computational Structural Biology in the Era of Deep Learning
Speaker: John Moult, 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
Coffee Break in the Exhibit Hall with PANIC Exhibitors
Room: Parthenon Ballroom (2 nd Floor)
Session #6: Proton and Heteronuclear qNMR Solutions
Session Chairs: Klas Meyer and Amber Balazs
Room: Acorn Ballroom (1 st 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

TUESDAY, MARCH 14 (Continued)

11:35 a.m. to 12:50 p.m.	Luncheon, Sponsored by EXER Integration of Benchtop NMR in PAT Orchestrations for Process Optimization and Intelligent Production on Demand Speaker: Anna Codina, Bruker Corporation <i>Room: Acorn Ballroom (1st Floor)</i>
12:50 to 1:50 p.m.	Dessert in the Exhibit Hall with PANIC Exhibitors <i>Room: Parthenon Ballroom (2nd Floor)</i>
1:50 to 2:35 p.m.	PANIC Poster Presentations and Q&A *All Poster Numbers* Room: Parthenon Ballroom Foyer (2 nd Floor)
2:35 to 4:10 p.m.	Session #7: Polymers, Petro, and Pores Session Chairs: Sarah Mattler and Ryan Nieuwendaal Room: Acorn Ballroom (1 st 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
4:10 to 4:40 p.m.	Coffee Break and Awards Ceremony in the Exhibit Hall with PANIC Exhibitors <i>Room: Parthenon Ballroom (2nd Floor)</i>
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 (1 st 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 (1 st Floor)
7:15 to 8:15 a.m.	Breakfast on Your Own
8:15 a.m.	PANIC Chairs' Opening Remarks Room: Acorn Ballroom (1 st Floor)
8:20 to 9:55 a.m.	Session #9: Biophysical Biopharma Session Chairs: Gennady Khirich and Subrata Mishra Room: Acorn Ballroom (1 st 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 (1 st Floor)
10:10 a.m. to 11:45 a.m.	Session #10: Exotica Session Chairs: Matthew Augustine and John Cort Room: Acorn Ballroom (1 st 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 (1 st Floor)
12:00 to 1:35 p.m.	Session #11: Energy Session Chairs: John Cort and Sarah Mattler Room: Acorn Ballroom (1 st 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 Hydropyrolysis 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 (1 st 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 (1 st Floor)





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 Degrader 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 Hydropyrolysis 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 Moult University of Maryland Computational Structural Biology in the Era of Deep Learning

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

Etelvino Novotny Embrapa (Brazillian 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 <u>https://panicnmr.com/speaker-abstracts-2023-nashville/</u>

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



PANIC NMR 2023 POSTER PRESENTATIONS

(As of Sunday, March 12, 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 Ipglycermide 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 Macculoch, 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 Ofosu, 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
- 35. Liquid-Observed Vapor Exchange (LOVE) NMR: A Method for Probing Dehydrated Protein Structure at the Residue Level

Candice Crilly, University of California, Santa Barbara

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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. <u>www.JEOLUSA.com</u>

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.

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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) Nanaylsis 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 <u>www.nanalysis.com</u>

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