

纪念Dr. Andrew J. Alpert 国际研讨会

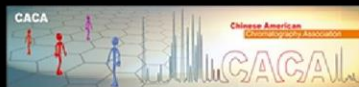
Dr. Andrew J. Alpert Memorial Symposium



Sep. 13th-15th, 2023 (Zoom)



The organizers (主办单位)





Dr. Andrew J. Alpert Memorial Symposium

Sep. 13th-15th, 2023 (Zoom)

The organizers



Dear Friends,

It is with heavy hearts and profound respect that we organize this memorial symposium to honor the life and legacy of the esteemed Dr. Andrew J. Alpert. Dr. Alpert is a brilliant scientist, a dedicated mentor, a devoted collaborator, and a legend in the field of chromatography. Dr. Alpert's significant contributions left an indelible mark on the world of chromatography! Andy is a very kind person! Andy touched the lives of so many, he was always willing to stop what he was doing and help others. Dr. Alpert was also a talented artist, linguist (four languages), musician (pianist), sportsman (pole vaulter), chef, naturalist, and above all – a beloved husband, father, brother, and grandfather to five grandchildren.

The symposium features distinguished speakers, colleagues, and friends together with his family members to celebrate his legacy by highlighting the extraordinary contributions he made to the field of chromatography and mass spectrometry-based proteomics as well as the personal connections he forged throughout his life. In addition to the speakers, there will be opportunities for attendees to participate in the virtual receptions and pay their respects through heartfelt tributes. The symposium aims to foster an atmosphere of intellectual exchange, inspiration, and remembrance, just as Dr. Alpert did throughout his distinguished career.

The symposium website is available. <https://labs.wisc.edu/aams/>. Everyone is welcome. Let us come together to celebrate the life and legacy of Dr. Andrew J. Alpert!

With deepest respect,

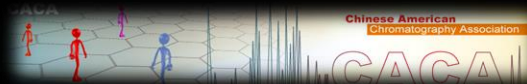
Organizers

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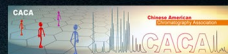
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Stacey Keen, MD, FACR
Wife of Dr. Andrew Alpert



Michael Alpert, MD
Son of Dr. Andrew Alpert
艾瑞祥医生



Rachel Alpert, JD
Daughter of Dr. Andrew Alpert
艾瑞琪



Yi He, PhD
Professor of Chemistry,
John Jay College of
Criminal Justice, The City
University of New York



Fred Regnier, PhD
CTO- Novilytic, LLC &
Distinguished Professor of
Chemistry, Emeritus at
Purdue University



David McCalley, PhD
Professor in Bioanalytical
Science, University of the
West of England, UK



Ron Orlando, PhD
Professor of Biochemistry &
Molecular Biology and
Chemistry, Complex
Carbohydrate Research
Center, University of Georgia



Mark Schure, PhD
Chief Technology Officer,
Kroungold Analytical, Inc.



Barry Boyes, PhD
Chief Technology Officer,
Advanced Materials
Technology



Naidong Weng, PhD
Senior Director, Global
Head of LC-MS Bioanalysis
and Biomarkers, GSK,
Former President of CACA &
President of CASMS



Aihua Liu, PhD
Senior Director, Bioanalysis,
Resolian



Yong Guo, PhD, MBA
Professor of
Pharmaceutical Sciences,
Department Chair, School
of Pharmacy and Health
Science, Fairleigh Dickinson
University



Yan-bo Yang, PhD
President & CEO at
BioPharmaDev, Inc.,
Founder of CACA



Christopher J. Wike
Vice President PolyLC INC.



Bifan Chen, PhD
Principal Scientist at
Genentech



Xiang Zhang, PhD
Professor of Chemistry,
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David S. Bell, PhD
Column Watch Editor,
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**Amos Heckendorf,
PhD**
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Susan Olesik, PhD
Distinguished University
Professor and Dean of
Natural and Mathematical
Sciences, The Ohio State
University



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Program officer, Board on
Life Sciences Division on
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Medicine



Jake Melby, PhD
Senior Scientist
Biopharmaceuticals R&D
Analytical Sciences
AstraZeneca



Lihua Zhang, PhD
Professor, Dalian Institute
of Chemical Physics,
Chinese Academy of
Sciences



Guowang Xu, PhD
Professor, Dalian Institute
of Chemical Physics,
Chinese Academy of
Sciences



Lingjun Li, PhD
Charles Melbourne Johnson
Distinguished Chair in
Pharmaceutical Sciences
and Professor of Chemistry,
University of
Wisconsin-Madison



Si Wu, PhD
Professor of Chemistry,
University of Alabama



John Yates III
Ernest W. Hahn Professor,
The Scripps Research
Institute



Ben Garcia, PhD
Raymond H. Wittcoff
Distinguished Professor and
Head, Department of
Biochemistry and Molecular
Biophysics, Washington
University St. Louis



Newman Sze, PhD
Professor of Health
Sciences, Canada Research
Chair in Mechanisms of
Health and Disease, Brock
University



Nicolas Young, PhD
Associate Professor,
Biochemistry & Molecular
Biology, Baylor College of
Medicine



Ying Ge, PhD
Professor of Cell and
Regenerative Biology and
Chemistry, University of
Wisconsin-Madison

For registration and details, please visit symposium website: <https://labs.wisc.edu/aams/>



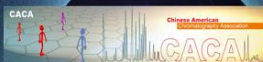
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Session 1: Innovation Empowered the Chromatography Separations (HILIC/HIC)

Wednesday (Sept. 13) 9:30 AM - 12:00 PM - US Eastern Time (EST)

Wednesday (Sept. 13) 3:30 PM - 6:00 PM - Central European Time (CEST)

Wednesday (Sept. 13) 9:30 PM - 12:00 AM - Beijing Time (BJ)



Stacey Keen, MD, FACR

Wife of Dr. Andrew Alpert



Michael Alpert, MD

Son of Dr. Andrew Alpert
艾瑞祥医生



Rachel Alpert, JD

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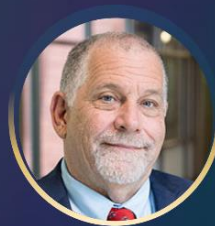
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Mark Schure, PhD

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Kroungold Analytical, Inc.



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Innovation Empowered Chromatography Separations (HILIC/HIC)

Session Chair – Chuping Luo and Yan-bo Yang, CACA former Presidents

9:30 AM – 10:00 AM EST	Virtual Reception
10:00AM – 10: 05AM EST	Opening Remarks from CACA President Yi He, PhD, Professor of Chemistry, John Jay College of Criminal Justice, The City University of New York
10:05 AM – 10:20AM EST	Greetings from the Alpert family Stacey Keen, MD, FACR Wife of Dr. Andrew Alpert Rachel Alpert, JD, Daughter of Dr. Andrew Alpert
10:20 AM – 10:40AM EST	Andy: The Business Man/Scientist I Knew! Fred Regnier, PhD, CTO, Novilytic, LLC & Distinguished Professor of Chemistry, Emeritus at Purdue University
10:40 AM – 11:00AM EST	Dr. Andy Alpert-polymath and father of hydrophilic interaction chromatography David McCalley, PhD, Professor in Bioanalytical Science, University of the West of England, UK
11:00 AM – 11:20AM EST	Andy and Glycans, my introduction to chromatography Ron Orlando, PhD, Professor of Biochemistry & Molecular Biology and Chemistry, Complex Carbohydrate Research Center, University of Georgia
11:20 AM – 11:40 AM EST	Hydrophobic Interaction Chromatography (HIC): A molecular interpretation of the process Mark Schure, PhD, Chief Technology Officer, Kroungold Analytical, Inc.
11:40 AM – 12:00 PM EST	Use of HILIC for Protein Structure Analysis Barry Boyes, PhD, CTO at Advanced Materials Technology

For registration and details, please visit symposium website: <https://labs.wisc.edu/aams/>



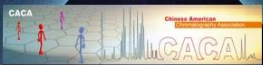
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Session 2: HILIC and the Applications

Wednesday (Sept. 13) 9:00 PM - 11:15 PM - US Eastern Time (EST)

Thursday (Sept. 14) 3:00 AM - 5:15 AM - Central European Time (CEST)

Thursday (Sept. 14) 9:00 AM - 11:15 AM - Beijing Time (BJ)



Michael Alpert, MD

Son of Dr. Andrew Alpert
艾瑞祥医生



Rachel Alpert, JD

Daughter of Dr. Andrew Alpert
艾瑞琪



Yi He, PhD

Professor of Chemistry,
John Jay College of
Criminal Justice, The City
University of New York



Naidong Weng, PhD

Senior Director, Global
Head of LC-MS Bioanalysis
and Biomarkers, GSK,
Former President of CACA &
President of CASMS



Aihua Liu, PhD

Senior Director, Bioanalysis,
Resoliant



Yong Guo, PhD, MBA

Professor of
Pharmaceutical Sciences,
Department Chair, School
of Pharmacy and Health
Science, Fairleigh Dickinson
University



Yan-bo Yang, PhD

President & CEO at
BioPharmaDev, Inc.,
Founder of CACA

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Session 2*: Wednesday (Sept. 13) 9:00 PM – 11:15 PM - US Eastern Time (EST)
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Thursday (Sept. 14) 9:00 AM – 11:15 AM – Beijing Time (BJ)

HILIC and the Applications

Session Chairs – Chuping Luo, PhD, CACA Former President

Yuanyuan Song, Instrument.com.cn 仪器信息网

9:00 PM – 9:10 PM EST	Greetings from the Alpert family Michael Alpert, MD, Son of Dr. Andrew Alpert, 艾瑞祥医生 Rachel Alpert, JD, Daughter of Dr. Andrew Alpert, 艾瑞琪
9:10 PM – 9:15 PM EST	Opening Remarks from CACA President Yi He, PhD, Professor of Chemistry, John Jay College of Criminal Justice, The City University of New York
9:15 PM - 9:45 PM EST	Beauty and Beast of HILIC in Quantitative LC-MS Bioanalysis Naidong Weng, PhD, Senior Director, Global Head of LC-MS Bioanalysis and Biomarkers, GSK, Former President of CACA & President of CASMS
9:45 PM - 10:15 PM EST	Analytical Challenges and Case Studies for Bioanalysis of Oligonucleotide Therapeutics using Reverse-phase and HILIC LC-MS/MS Aihua Liu, PhD, Senior Director of Bioanalysis, Resolian
10:15 PM - 10:45 PM EST	Partitioning or Adsorption? A quantitative assessment of retention mechanisms in hydrophilic interaction chromatography Yong Guo, PhD, Professor of Pharmaceutical Sciences, Department Chair, School of Pharmacy and Health Science, Fairleigh Dickinson University
10:45 PM - 11:15 PM EST	Relationship with Dr. Andy J. Alpert and HILIC Yan-bo Yang, PhD, President and CEO at BioPharmaDev, Inc., Founder of CACA

*** This session is in Chinese and will be hosted by instrument.com.cn in their platform. This is the only session that will not be in Zoom.**



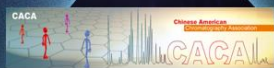
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Session 3: Innovation Empowered the Chromatography Separations

Thursday (Sept. 14) 9:00 AM - 12:00 PM - US Eastern Time (EST)

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Christopher J. Wike

Vice President PolyLC INC.



Yan-bo Yang, PhD

President & CEO at BioPharmaDev, Inc.,
Founder of CACA



Bifan Chen, PhD

Principal Scientist at Genentech



Xiang Zhang, PhD

Professor of Chemistry,
University of Louisville,
Former President of CACA



David S. Bell, PhD

Column Watch Editor,
LCGC, Research Fellow,
Restek



**Amos Heckendorf,
PhD**

President of The Nest
Group Inc.™



Martin Gilar, PhD

Scientific Fellow,
Separations Research,
Waters Corporation



Susan Olesik, PhD

Distinguished University
Professor and Dean of
Natural and Mathematical
Sciences, The Ohio State
University

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Session 3: Thursday (Sept. 14) 9:00 AM – 12:00 PM - US Eastern Time (EST)

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Thursday (Sept. 14) 9:00 PM – 12:00 AM – Beijing Time (BJ)

Innovation Empowered Chromatography Separations

Session Chair – Christopher Wike, PolyLC INC. and Xiang Zhang, University of Louisville

9:00 AM – 9:30 AM EST	Virtual Reception
9:30 AM – 9:40 AM EST	Opening Remarks from PolyLC INC. Christopher Wike Vice President, PolyLC INC.
9:40 AM – 10:00AM EST	My Relationship with Dr. Andy J. Alpert and HILIC Yan-bo Yang, PhD, President and CEO at BioPharmaDev, Inc., Founder of CACA
10:00 AM – 10:20 AM EST	HILIC: A versatile method for pharmaceutical analysis Bifan Chen, PhD, Principal Scientist at Genentech
10:20 AM – 10:40AM EST	Systems urine metabolomics of alcohol-associated liver disease Xiang Zhang, PhD, Professor of Chemistry, University of Louisville, Former President of CACA
10:40 AM – 11:00AM EST	All (my) models are wrong: essential learnings from Andy Alpert David Bell, PhD Column Watch Editor, LCGC, Research Fellow, Restek
11:00 AM – 11:20AM EST	The arc of polyaspartic acid chemistry applications Amos Heckendorf, PhD President of the Nest Group Inc.™
11:20 AM – 11:40 AM EST	Chromatographic attractions and repulsions Martin Gilar, PhD, Separations Research, Waters Corporation
11:40 AM – 12:00 PM EST	Enhanced Fluidity Hydrophilic and Hydrophobic Liquid Chromatography with Kind Collaborations from Dr. Andy Alpert Susan Olesik, PhD, Distinguished University Professor and Dean of Natural and Mathematical Sciences, The Ohio State University

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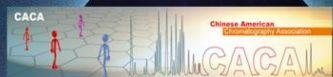
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Session 4: LC-MS-based Proteomics and Metabolomics

Thurs. (Sept. 14) 8:30 PM - 11:00 PM - US Eastern Time (EST)

Friday (Sept. 15) 2:30 AM - 5:00 AM - Central European Time (CEST)

Friday (Sept. 15) 8:30 AM - 11:00 AM - Beijing Time (BJ)



Trisha Tucholski, PhD

Program officer, Board on Life Sciences Division on Earth and Life Studies National Academies of Sciences, Engineering, and Medicine



Jake Melby, PhD

Senior Scientist
Biopharmaceuticals R&D
Analytical Sciences
AstraZeneca



Lihua Zhang, PhD

Professor, Dalian Institute of Chemical Physics, Chinese Academy of Sciences



Lingjun Li, PhD

Charles Melbourne Johnson Distinguished Chair in Pharmaceutical Sciences and Professor of Chemistry, University of Wisconsin-Madison



Guowang Xu, PhD

Professor, Dalian Institute of Chemical Physics, Chinese Academy of Sciences



Si Wu, PhD

Professor of Chemistry, University of Alabama

For registration and details, please visit symposium website: <https://labs.wisc.edu/aams/>



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Session 4: Thurs. (Sept. 14) 8:30 PM – 11:00 PM - US Eastern Time (EST)

Friday (Sept. 15) 2:30 AM – 5:00 AM – Central European Time (CEST)

Friday (Sept. 15) 8:30 AM – 11:00 AM – Beijing Time (BJ)

LC/MS-based Proteomics and Metabolomics

Session Chairs – Si Wu, PhD, **University of Alabama**

Jake Melby, PhD, **AstraZeneca**

8:30 PM – 9:00 PM EST	Virtual Reception
9:00 PM – 9:20 PM EST	Remembering Andy Trisha Tucholski, PhD Program officer, Board on Life Sciences National Academies of Sciences, Engineering, and Medicine
9:20 PM – 9:40 PM EST	Small-scale SEC and lessons learned from Andy Jake Melby, PhD Senior Scientist, Biopharmaceuticals R&D Analytical Sciences, AstraZeneca
9:40 PM – 10:00 PM EST	New methods for deep coverage proteome analysis Lihua Zhang, PhD Professor, Dalian Institute of Chemical Physics, Chinese Academy of Sciences
10:00 PM – 10:20 PM EST	Advancing protein post-translational modification analysis via electrostatic repulsion-hydrophilic interaction chromatography (ERLIC) coupled with mass spectrometry Lingjun Li, PhD Charles Melbourne Johnson Distinguished Chair in Pharmaceutical Sciences and Professor of Chemistry, University of Wisconsin-Madison
10:20 PM – 10:40 PM EST	Multi-dimensional separation and analysis of small molecules Guowang Xu, PhD Professor, Dalian Institute of Chemical Physics, Chinese Academy of Sciences
10:40 PM – 11:00 PM EST	Multidimensional separation in top-down proteomics Si Wu, PhD Professor of Chemistry, University of Alabama

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Session 5: Chromatography Innovation Enabled Mass Spectrometry-based Proteomics

Friday (Sept. 15) 9:30 AM - 12:00 PM - US Eastern Time (EST)

Friday (Sept. 15) 3:30 PM - 6:00 PM - Central European Time (CEST)

Friday (Sept. 15) 9:30 PM - 12:00 AM - Beijing Time (BJ)



John Yates III

Ernest W. Hahn Professor,
The Scripps Research
Institute



Ben Garcia, PhD

Raymond H. Wittcoff
Distinguished Professor and
Head, Department of
Biochemistry and Molecular
Biophysics, Washington
University St. Louis



Newman Sze, PhD

Professor of Health
Sciences, Canada Research
Chair in Mechanisms of
Health and Disease, Brock
University



Nicolas Young, PhD

Associate Professor,
Biochemistry & Molecular
Biology, Baylor College of
Medicine



Ying Ge, PhD

Professor of Cell and
Regenerative Biology and
Chemistry, University of
Wisconsin-Madison

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Session 5: Friday (Sept. 15) 9:30 AM – 12:00 PM - US Eastern Time (EST)

Friday (Sept. 15) 3:30 PM – 6:00 PM – Central European Time (CEST)

Friday (Sept. 15) 9:30 PM – 12:00 AM – Beijing Time (BJ)

Chromatography Innovation Enabled Mass Spectrometry-based Proteomics

Session Chairs – Ying Ge, PhD, and Melissa Pergande, PhD

University of Wisconsin-Madison, Wisconsin, USA

9:30 AM – 10:00 AM EST	Virtual Reception
10:00 AM – 10:20AM EST	Andy and MudPIT John Yates III, PhD Ernest W. Hahn Professor, The Scripps Research Institute
10:20 AM – 10:40AM EST	Towards understanding the complexity of the histone code Ben Garcia, PhD Raymond H. Wittcoff Distinguished Professor and Head, Department of Biochemistry and Molecular Biophysics, Washington University St. Louis
10:40 AM – 11:00AM EST	Unveiling DPMs Drug Targets Through ERLIC: A Journey from Proteomics Insight to Immunotherapy for Chronic Inflammation Newman Sze, PhD Professor of Health Sciences, Canada Research Chair in Mechanisms of Health and Disease, Brock University
11:00 AM – 11:20AM EST	Andy Alpert: Chromatography Innovator, Collaborator, and Mentor Nicolas Young, PhD Associate Professor, Biochemistry & Molecular Biology, Baylor College of Medicine
11:20 AM – 11:40 AM EST	Remembering Andy: "MudPIT" in Top-down Proteomics Ying Ge, PhD Professor of Cell and Regenerative Biology and Chemistry, University of Wisconsin-Madison
11:40 AM – 12:00 PM EST	Final Discussion and Closing Remarks

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Dr. Andrew J. Alpert Memorial Symposium (Sept. 13-15, 2023)



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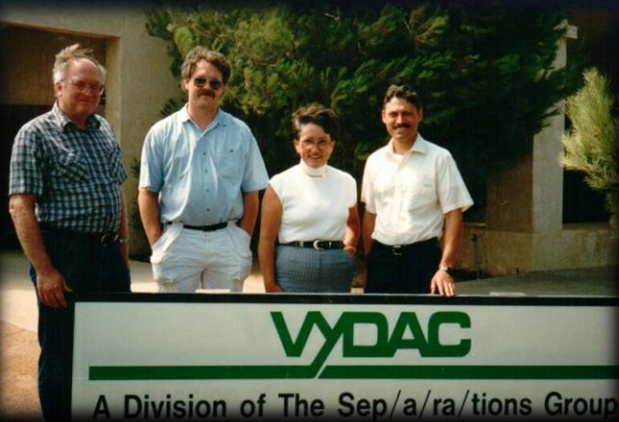
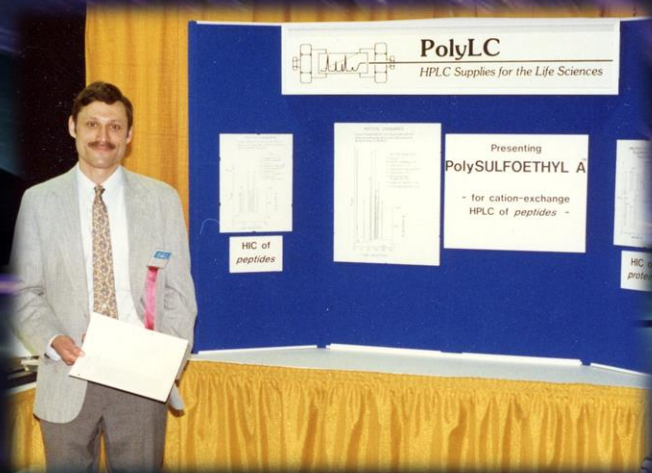




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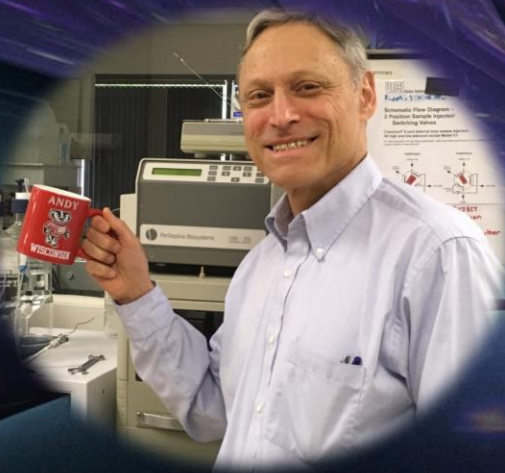




Dr. Andrew J. Alpert Memorial Symposium (Sept. 13-15, 2023)



Photo Gallery





Dr. Andrew J. Alpert Memorial Symposium (Sept. 13-15, 2023)



Photo Gallery





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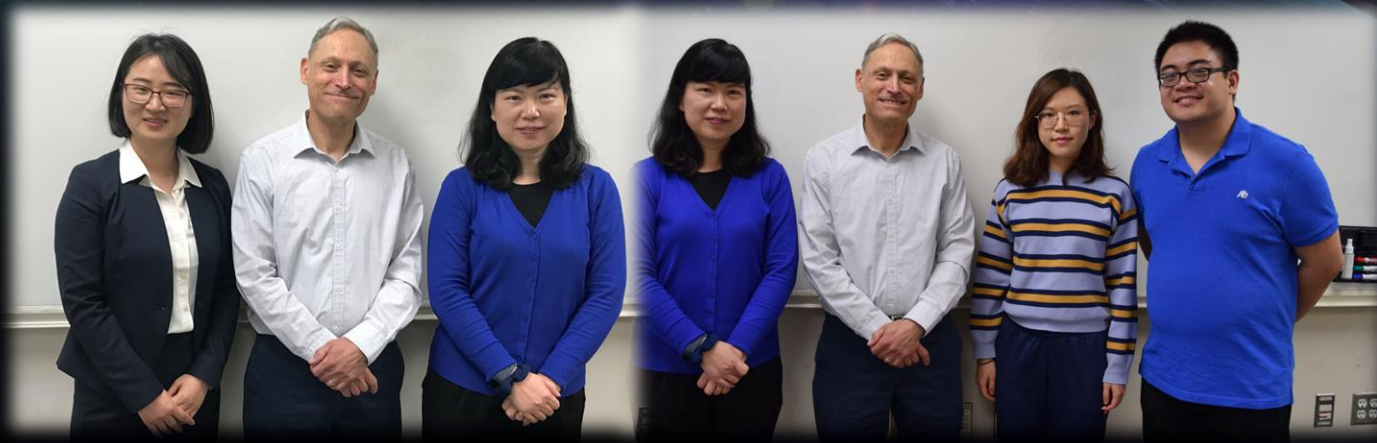




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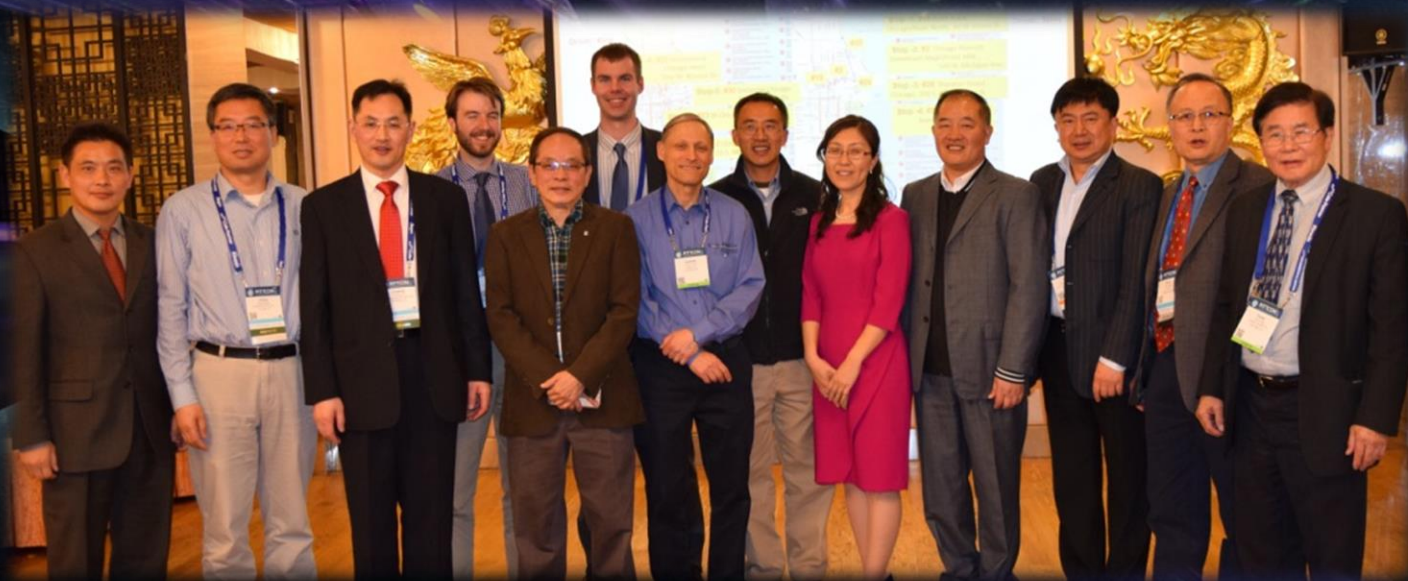




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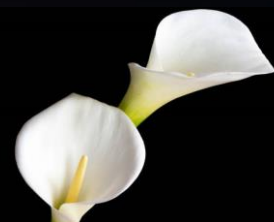




Dr. Andrew J. Alpert Memorial Symposium (Sept. 13-15, 2023)



Photo Gallery





Dr. Andrew J. Alpert Memorial Symposium (Sept. 13-15, 2023)



Symposium Organizers

Ying Ge, PhD, University of Wisconsin-Madison

ying.ge@wisc.edu

Yi He, PhD, Current President of CACA

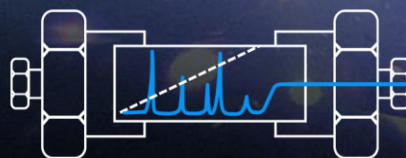
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Chuping Luo, PhD, Former President of CACA

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Christopher J. Wike, Vice President of PolyLC

cwike@polylc.com



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Dujuan Lu, PhD, Global E&L Leader, SGS,

Fengjian Shi, PhD, Data Product Owner, Oncology Data Science, AstraZeneca,

Howard Guo, PhD; Principal scientist, Sanofi;

Michael Dong, PhD, Principal Consultant, MWD Consulting

Mingming Ma, PhD, Analytical R&D Leader, Corteva Agriscience

Tao Chen, PhD, Senior Principal Scientist, Genentech, Inc.

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