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）

CACA Chinese American Chromatographic Association

PolyLC INC

GE GROUP

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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

CACA,

PolyLC, Inc,

Ge Research Group

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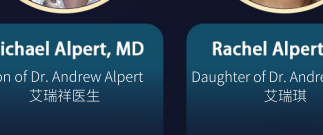


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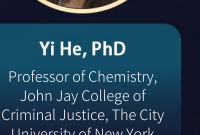
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Stacey Keen, MD, FACR
Wife of Dr. Andrew Alpert



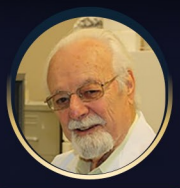
Michael Alpert, MD
Son of Dr. Andrew Alpert
艾瑞祥医生



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, University of Louisville, Former President of CACA



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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



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



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
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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
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Mark Schure, PhD
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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

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Session 2: HILIC and the Applications

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

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



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



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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)
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)

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)

Thursday (Sept. 14) 3:00 PM - 6:00 PM - Central European Time (CEST)

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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
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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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Session 3: Thursday (Sept. 14) 9:00 AM – 12:00 PM - US Eastern Time (EST)
Thursday (Sept. 14) 3:00 PM – 6:00 PM – Central European Time (CEST)
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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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

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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

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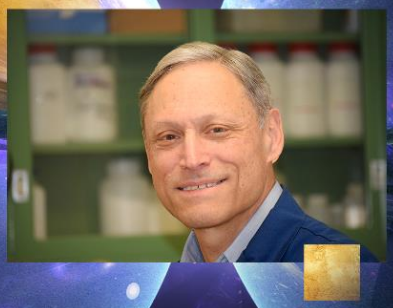
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Friday (Sept. 15) 2:30 AM – 5:00 AM – Central European Time (CEST)
Friday (Sept. 15) 8:30 AM – 11:00 AM – Beijing Time (BJ)

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)

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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/



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)

Photo Gallery









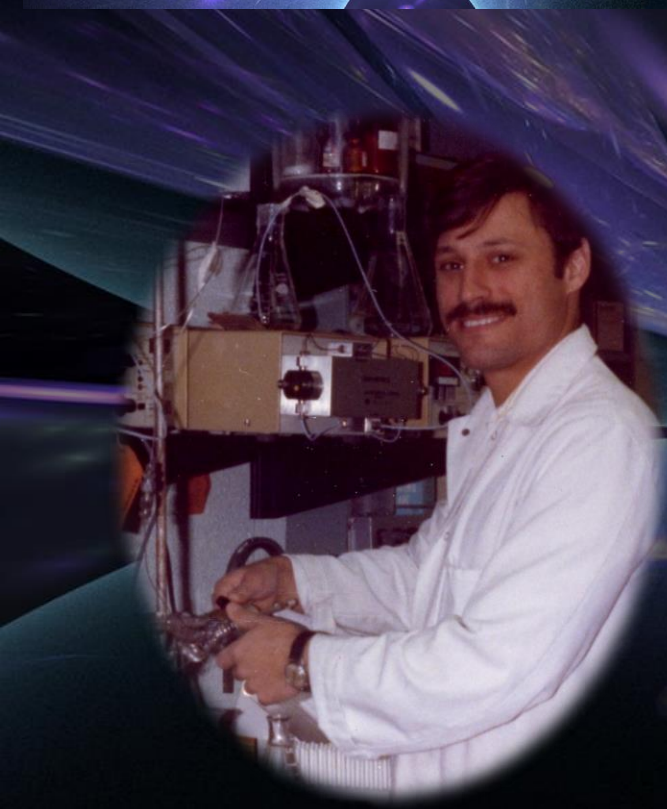






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Photo Gallery





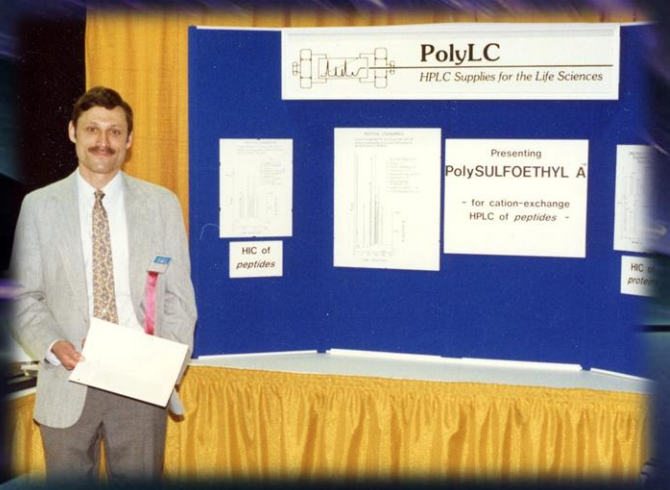






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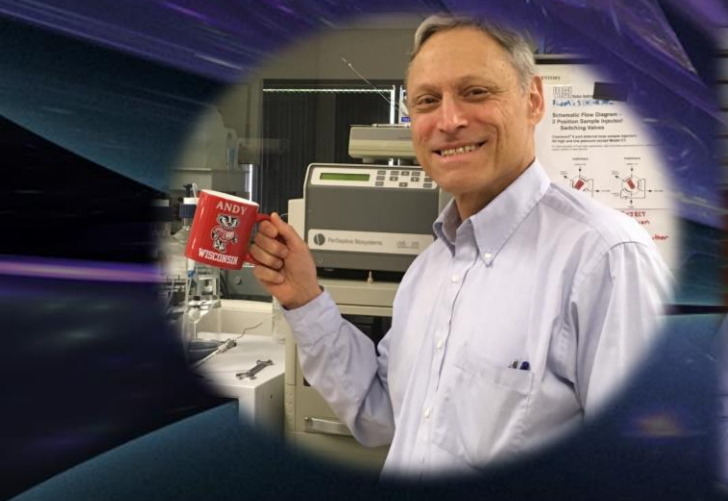






Dr. Andrew J. Alpert Memorial Symposium (Sept. 13-15, 2023)

Photo Gallery















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

Photo Gallery











Dr. Andrew J. Alpert Memorial Symposium
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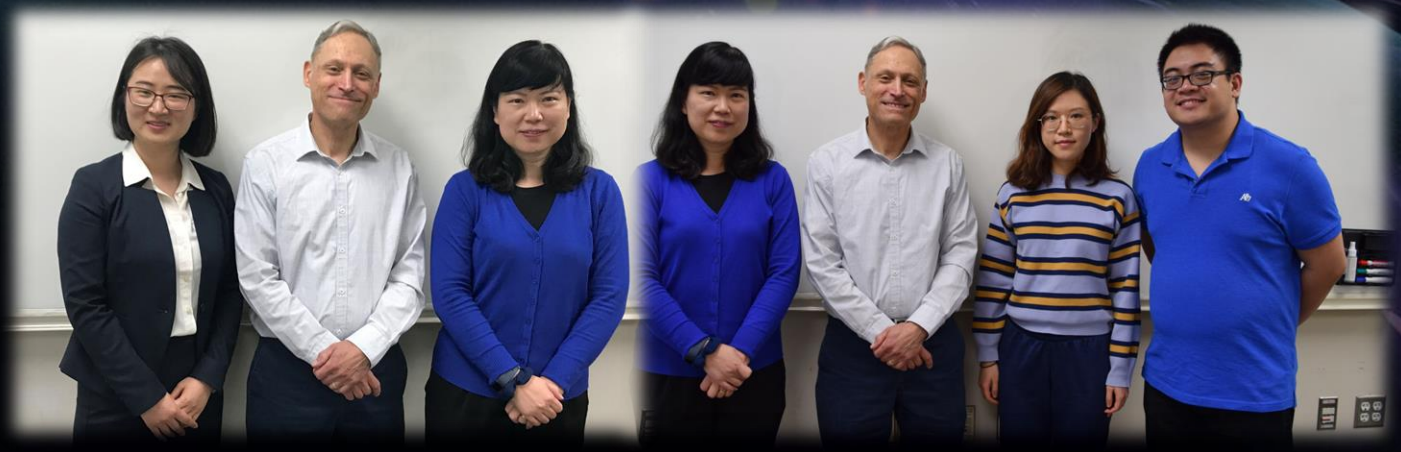




Dr. Andrew J. Alpert Memorial Symposium (Sept. 13-15, 2023)

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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 yhe@jjay.cuny.edu

Chuping Luo, PhD, Former President of CACA ChupingLuo@Advanced-Materials-Tech.com

Christopher J. Wike, Vice President of PolyLC cwike@polylc.com

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Acknowledgement

CACA Chinese American Chromatography Association CACA

Bingchuan Wei, PhD, Senior Principal Scientist, Genentech, Inc.,
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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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