

PROGRAM OUTLINE

Data Science Innovation

at the Intersection of Biomedical Research and the Library

Co-Sponsored by

Friends of the National Library of Medicine

National Library of Medicine

Lister Hill National Center Auditorium

National Library of Medicine

National Institutes of Health

Bethesda, MD

Wednesday, June 13, 2018

8:30 AM – 8:45 AM Welcome and introductions

- Patricia Flatley Brennan, RN, PhD, Director, National Library of Medicine
- Glen Campbell, Chair, Friends of the National Library of Medicine Board of Directors; Managing Director, BMJ Americas

Session Coordinator: E. Andrew Balas, MD, PhD, Vice President, Friends of the National Library of Medicine

8:45 AM – 9:30 AM Emerging needs for new data science technologies

- Patricia Flatley Brennan RN, PhD, Director, National Library of Medicine
- Craig Venter, PhD, Founder, Chairman and Chief Executive Officer, J. Craig Venter Institute

9:30 AM – 10:15 AM Opportunities for a breakthrough in data science

- George Lundberg, MD, Chief Medical Officer, Self Care Catalysts
- Brian D. Athey, PhD, Michael Savageau Professor and founding Chair, Department of Computational Medicine and Bioinformatics, University of Michigan Medical School
- Cian Hughes, PhD, Co-Founder, Swiftfactory and Senior Research Scientist, Google DeepMind

10:15 AM – 10:30 AM Break

10:30 AM – 11:00 AM Data science for better healthcare

- Jonathan Nebeker, MD, MS, Deputy Chief Medical Informatics Officer, Veterans Health Administration, Professor of Medicine, University of Utah

11:00 AM – 12:00 PM Collaborative use of artificial intelligence

- Wendy Chapman, PhD, Chair, Department of Biomedical Informatics, University of Utah School of Medicine
- Anju Gupta, PhD, Head of Sustainability Campaign, Syngenta
- Justin Starren, MD, PhD, Chief, Preventive medicine-health and Biomedical Informatics, Department of Preventive Medicine; Professor, [Preventive Medicine \(Health and Biomedical Informatics\)](#) and [Medical Social Sciences](#), Northwestern Medicine

12:00 PM – 1:00 PM Working Lunch*

Session Coordinator: Dennis Cryer, MD, Treasurer, Friends of the National Library of Medicine and CMO, Cryer Health, LLC

1:00 PM – 2:00 PM Effective dissemination of information: Role of the library in the 21st century

- Patricia Flatley Brennan, RN, PhD, Director, National Library of Medicine
- Paul Wester, Jr., Director, US Department of Agriculture, National Agricultural Library
- Elaine Martin, Director and Head Librarian, Countway Library of Medicine, Harvard University

2:00 PM – 3:00 PM Publishing and finding research data

- Joyce Backus, MS, Associate Director, Library Operations, NLM
- Neil Sarkar, PhD, MLIS, Editor-in-Chief, JAMIA Open
- Chris Winchester, PhD, Chief Executive Officer, Oxford PharmaGenesis
- Daniella Lowenberg, BS, Research Data Specialist, Product Manager, California Digital Library

3:00 PM – 3:15 PM Break

3:15 PM – 3:50 PM Data science and electronic health records

- John Glaser, PhD, Senior Vice President, Population Health, Cerner

3:50 PM – 4:50 PM Population health applications of data science

- Josh Gray, MBA, Vice President, athenahealth
- Femida Gwadry-Sridhar, RPh, PhD, CEO and Co-Founder, Pulse Infoframe

5:00 PM – 6:00 PM Reception*

Thursday, June 14, 2018

Session Coordinator: Barbara Redman, PhD, MBE, President, Friends of the National Library of Medicine

8:30 AM – 9:30 AM Data science education, workforce development

- Brian Chapman, PhD, Adjunct Associate Professor, Biomedical Informatics, Research Associate Professor, Radiology and Imaging Sciences University of Utah School of Medicine
- Alexa McCray PhD, Professor of Medicine, Department of Biomedical Informatics, Harvard Medical School
- Heather Piwowar, PhD, Department of Biomedical Informatics, *University of Pittsburgh*, Cofounder, Impactstory

- Rajni Samavedam, MPH, Principal, Booz Allen Hamilton
9:30 AM – 10:30 AM Breakout group discussion
- Barbara Redman, PhD, MBE, President, Board of Directors, FNLM

10:30 AM – 10:45 AM Break

10:45 AM – 11:00 AM Report back from the discussions

- Barbara Redman, PhD, MBE, President, Board of Directors, FNLM

11:00 AM – 12:00 PM Data science and biomedical discovery – new technologies of data science

- Noémie Elhadad, PhD, Associate Professor of Biomedical Informatics, Columbia University
- Sam Ransbotham, PhD, Associate *Professor of* Information Systems, Boston College
- Brent Daniel Mittelstadt, PhD, Research Fellow & British Academy Postdoctoral Fellow, Oxford Internet Institute

12:00 PM – 12:20 PM Data Science Innovation – agenda for change

- Patricia Flatley Brennan, RN, PhD, Director, National Library of Medicine
- Glen Campbell, Chair, Friends of the National Library of Medicine Board of Directors; Managing Director, BMJ Americas

12:20 PM – 12:45 PM

- [Microbial Metagenomics Discovery Challenge Student competition award presentation](#)

* Light refreshments, working luncheon, and reception are provided by the Friends of the National Library of Medicine