

National Institutes of Health (NIH)
National Center for Advancing Translational Sciences (NCATS)
TRANSLATIONAL SCIENCE EDUCATION ROUNDTABLE

March 10–11, 2022, 1:00–4:00 p.m.

This Roundtable brought together a small group of individuals who hold expertise across the translational spectrum and are engaged in education and training efforts. The goal of this event was for the invited participants to share their diverse perspectives on a range of key issues integral to the development of new translational science education and training activities, as outlined in the agenda below.

The Roundtable was a virtual event consisting of two half-day sessions.

Invited participants served on panels organized around core topics in translational science education and training. They offered prepared remarks and engaged in facilitated dialogues related to each panel.

NCATS staff were invited to attend in a listening capacity.

Invited Discussants

Michelle Arkin, Ph.D.

Professor, Pharmaceutical Chemistry
University of Southern California

Miriam Bredella, M.D.

Vice Chair and Professor, Department of
Radiology
Harvard Medical School
KL2 Director Representative
Clinical and Translational Science Awards
(CTSA) Steering Committee

Nora Disis, M.D.

Associate Dean for Translational Health
Sciences and Professor
University of Washington

Tim Foley, Ph.D.

DNA-Encoded Libraries Selection and
Pharmacology Laboratory Head
Senior Principal Scientist
Pfizer

Ken Getz, M.B.A.

Executive Director, Tufts Center for the
Study of Drug Development
Professor
Tufts University School of Medicine

Marcie Glicksman, Ph.D.

Head of Biology
EnClear Therapies

Andrew Lo, Ph.D.

Charles E. and Susan T. Harris Professor,
Professor of Finance
Director of the Laboratory for Financial
Engineering
Sloan School of Management
Massachusetts Institute of Technology

Ewy Mathé, Ph.D.

Director of Informatics
NCATS Intramural Research Program

Wayne T. McCormack, Ph.D.

Distinguished Teaching Scholar and
Professor
University of Florida, College of Medicine,
Clinical & Translational Science
Institute (CTSI)
TL1 Director Representative
CTSA Steering Committee

Keith Norris, M.D., Ph.D.

Professor of Medicine, Division of General
Internal Medicine and Health Services
Research
University of California, Los Angeles
Director, NIH Diversity Program
Consortium Coordination and
Evaluation Center

Debra Regier, M.D., Ph.D.

Medical Director, Rare Disease Institute
Children's National Hospital
Associate Professor of Pediatrics
The George Washington University

Caleb Smith, M.P.A.

Director, Research Intelligence & Analytics,
Office of Research
Michigan Medicine
University of Michigan

Annica Wayman, Ph.D.

Associate Dean for Shady Grove Affairs
University of Maryland Baltimore County

Edwin van Wijngaarden, Ph.D.

Professor of Public Health Sciences and
Strategic Director of CTSI Research
Education
University of Rochester

Agenda

- **Day 1: March 10, 2022, 1:00–4:00 pm EST**

- **1:00–1:55 pm — Introduction**

- Introduction to the Roundtable (Jessica Faupel-Badger, Ph.D., M.P.H., and Marie Westbrook, Ph.D.)
- Translational Science at NCATS — Opening Remarks (Joni Rutter, Ph.D.)
- Translational Science and the NCATS Education Branch (Jessica Faupel-Badger, Ph.D., M.P.H.)
- Introduction of Invited Participants

- Five-minute break

- **2:00–2:50 pm — Panel 1: Promoting an Understanding of the Benefits of a Translational Science Approach**

Focus: Discuss how translational science is being conducted, and how it could be used to generate content for education activities

Lead discussants: *Nora Disis, M.D. (Chair); Michelle Arkin, Ph.D.; Ken Getz, M.B.A.; Keith Norris, M.D., Ph.D.; Debra Regier, M.D., Ph.D.; and Caleb Smith, M.P.A.*

Questions discussed included—

- How are we currently distilling generalizable translational science knowledge from our research experiences? What would enhance this work?
- How are we documenting experiential translational science knowledge to demonstrate the benefits of translational science approaches? What additional approaches could be used effectively?
- How is our knowledge of effective translational science practices and principles being conveyed? What additional opportunities could we leverage to advance dissemination of translational science practices and principles?

- Ten-minute break

- **3:00–3:50 pm — Panel 2: Disseminating Translational Science Knowledge in Current and Future Education Activities**

Focus: Discuss how to incorporate teaching translational science approaches into current and future education and training activities

Lead discussants: *Wayne McCormack, Ph.D. (Chair); Miriam Bredella, M.D.; Tim Foley, Ph.D.; Marcie Glicksman, Ph.D.; Ewy Mathé, Ph.D.; Edwin van Wijngaarden, Ph.D.; and Annica Wayman, Ph.D.*

Questions discussed included—

- How can we advance understanding of the benefits of translational science approaches through education activities?

- How can we incorporate translational science approaches and principles into the range of translational science knowledge and skills currently being taught?
 - What new education activities are needed to further develop translational scientists (across career sectors and education and training stages) or to allow individuals to bring a translational science lens to their current work?
- **3:50–4:00 pm — Summary and Wrap-up of the Day** (Jessica Faupel-Badger, Ph.D., M.P.H. and Marie Westbrook, Ph.D.)
- **Day 2: March 11, 2022, 1:00–4:00 pm EST**
 - **1:00–1:20 pm — Recap and Additional Thoughts from Day 1** (Jessica Faupel-Badger, Ph.D., M.P.H., and Marie Westbrook, Ph.D.)
 - **1:20–2:20 pm — Panel 3: Building and Expanding the Translational Science Workforce Through New Education Activities**

Focus: Discuss who we are reaching with current education and training opportunities and expanding the audience for translational science education

Lead discussants: *Annica Wayman, Ph.D. (Chair); Miriam Bredella, M.D.; Ewy Mathé, Ph.D.; Wayne McCormack, Ph.D.; Keith Norris, M.D., Ph.D.; and Edwin van Wijngaarden, Ph.D.*

Questions included—

 - Who currently has access to translational science education and training? Who are we not reaching with our current education and training activities?
 - What are the barriers to reaching these audiences?
 - What are possible strategies to overcome these barriers, or otherwise reach these audiences?
 - Ten-minute break
 - **2:30–3:30pm — Panel 4: The Future of Translational Science Education**

Focus: Explore new trends that have implications for translational science education

Lead discussants: *Andrew Lo, Ph.D. (Chair); Michelle Arkin, Ph.D.; Nora Disis, M.D.; Tim Foley, Ph.D.; Ken Getz, M.B.A.; Marcie Glicksman, Ph.D.; Debra Regier, M.D., Ph.D.; and Caleb Smith, M.P.A.*

Questions included—

 - What trends or changes in medical research and/or healthcare do we think will create opportunities for a deeper understanding and/or utilization of translational science approaches?
 - How do we position ourselves to push new areas, think of new spaces, maneuver new technology to advance translational science faster?
 - What haven't we covered today that we need to consider for future translational science education needs and opportunities?

- **3:30–4:00 pm — Summary and Wrap-up of the Meeting**
(Jessica Faupel-Badger, Ph.D., M.P.H., and Marie Westbrook, Ph.D.)