

REHABILITATION RESEARCH AT NIH MOVING THE FIELD FORWARD

NATCHER CONFERENCE CENTER
MAY 25–26, 2016

CONFERENCE AGENDA

Day One:

Wednesday, May 25, 2016

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| 8:00 a.m. | Registration |
| 8:30–8:45 a.m. | Welcome: Plan for Conference
(TBD) |
| 8:45–9:00 a.m. | Relevance and Importance of Rehabilitation to NIH and Introduction of Keynote
(TBD) |
| 9:00–10:00 a.m. | Consumer Keynote
<i>Same Sky Project</i> |
| 10:00–10:30 a.m. | Break and Poster Session |

Rehabilitation Across the Lifespan

Innovative Models of Rehabilitation: Toward Evidence-Based Rehabilitation

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| 10:30–10:45 a.m. | Moderator Overview
Alan Jette, Ph.D., <i>Boston University</i> |
| 10:45–11:15 a.m. | Panel Discussion
Andrea Cheville, M.D., <i>Mayo Clinic</i>
Jonathan Bean, M.D., <i>Harvard Medical School</i>
Shari Wade, Ph.D., <i>Cincinnati Children's Hospital Medical Center</i> |
| 11:15–11:30 a.m. | Q&A |

Technology in Rehabilitation

From Cutaneous to Implanted: Innovations Driving Development Examples from Cochlear Implants, Functional Electrical Stimulation, Brain Computer Interface, and Prosthetics

11:30–11:45 a.m.

Moderator Overview

Ranu Jung, Ph.D., *Florida International University*

11:45 a.m.–12:15 p.m.

Panel Discussion

Leigh Hochberg, M.D., Ph.D., *Harvard University*

Reggie Edgerton, Ph.D., *University of California, Los Angeles*

Joseph Rizzo, M.D., *Harvard University*

Mario Svirsky, Ph.D., *New York University*

12:15–12:30 p.m.

Q&A

12:30–1:30 p.m.

Lunch

Mechanisms and Markers of Activity and Function

Exercise, Plasticity, and Mechanism: How Is Rehabilitation Happening?

1:30–1:45 p.m.

Moderator Overview

Keith Tansey, M.D., Ph.D., *Shepherd Center*

1:45–2:15 p.m.

Panel Discussions

Rick Lieber, Ph.D., *Rehabilitation Institute of Chicago*

Stephen Seliger, M.D., *University of Maryland*

James Blumenthal, Ph.D., *Duke University*

2:15–2:30 p.m.

Q&A

Individuals, Families, and Community

Incorporating the Home, the Family, and the Community in the Rehabilitation Intervention

2:30–2:45 p.m.

Moderator Overview

Linda Ehrlich-Jones, Ph.D., *Rehabilitation Institute of Chicago*

2:50–3:15 p.m.

Panel Discussion

Christopher Murtaugh, Ph.D., *Visiting Nurse Service of New York*

George Alexopoulos, M.D., *Cornell University*

Sara Czaja, Ph.D., *University of Miami Miller School of Medicine*

3:15–3:30 p.m.

Q&A

3:30–4:00 p.m. **Break and Poster Session**

Engineering and the Environment

Low-Cost, In-Home, or Open-Source Solutions: Opportunities and Challenges

4:00–4:15 p.m. **Moderator Overview**
Melanie Fried-Oken, Ph.D., *Oregon Health & Science University*

4:20–4:45 p.m. **Panel Discussion**
Cole Galloway, Ph.D., *University of Delaware*
Maureen Schmitter-Edgecombe, Ph.D., *Washington State University*
James Coughlan, Ph.D., *Smith-Kettlewell Eye Research Institute*

4:45–5:00 p.m. **Q&A**

5:00 p.m. **Closing Remarks**

5:15–6:30 p.m. **Networking for New and Young Investigators**

Day Two:

Thursday, May 26, 2016

- 8:30–9:00 a.m. **Arrival and Set-Up**
- 9:00–9:15 a.m. **Welcome**
- 9:15–9:45 a.m. **Development of an NIH Rehabilitation Research Plan**
Trans-NIH Medical Rehabilitation Research Committee
Alison Cernich, Ph.D., ABPP-CN, *National Center for Medical Rehabilitation Research*
- 9:45–10:00 a.m. **Break and Move to Parallel Sessions**
- 10:00 a.m.–12:00 p.m. **PARALLEL BREAKOUT SESSION ONE**
- Understanding the Context: Environmental Impacts in Rehabilitation**
Michael Mueller, Ph.D., *Washington University*
- Links Between Community Context and Long-Term Outcomes**
Amanda Botticello, Ph.D., M.P.H., *Kessler Foundation*
- Impacting Individuals in Rural Communities**
Patrick Kitzman, Ph.D., *University of Kentucky*
- Understanding Health Disparities in the Community**
James Burke, M.D., *University of Michigan*
- 10:00 a.m. – 12:00 p.m. **PARALLEL BREAKOUT SESSION TWO**
- Effective Pathways to Evidence for Rehabilitation**
James Malec, Ph.D., *Rehabilitation Hospital of Indiana*
- Incorporating Mechanisms into Trials**
Lynn Snyder-Mackler, P.T., Sc.D., S.C.S., F.A.P.T.A., *University of Delaware*
- Dosing for Rehabilitation Trials**
Catherine Lang, Ph.D., *Washington University*
- How Do We Define Standard Care?**
Susan Horn, Ph.D., *University of Utah*
- 10:00 a.m. –12:00 p.m. **PARALLEL BREAKOUT SESSION THREE**
- Cells and Tissues: Plasticity and Repair**
Rick Lieber, Ph.D., *Rehabilitation Institute of Chicago*

Acute Interventions and Cellular Response

D. Michele Basso, Ph.D., *Ohio State University*

Neuroplasticity in Rehabilitation

Monica Perez, Ph.D., *University of Miami*

Regenerative Rehabilitation

Mike Boninger, M.D., *University of Pittsburgh*

10:00 a.m. – 12:00 p.m.

PARALLEL BREAKOUT SESSION FOUR

Rehabilitation in the Real World

Aiko K. Thompson, Ph.D., *Medical University of South Carolina*

Going to the Home: Telerehabilitation Research

Steve Cramer, M.D., *University of California, Irvine*

Internet-Based Care to Impact Health Outcomes

James Rimmer, Ph.D., *Lakeshore Foundation*

mHealth: Putting Rehabilitation in the Consumers' Hands

Susan Magasi, Ph.D., *University of Illinois at Chicago*

12:00–1:00 p.m.

Lunch

1:00–3:00 p.m.

PARALLEL BREAKOUT SESSION FIVE

Transitions Across the Lifespan

Walter Frontera, M.D., Ph.D., *Vanderbilt University*

Transitions Through Childhood

Sharon Ramey, Ph.D., *Virginia Polytechnic Institute and State University*

Prospective Understanding of Transition to Adulthood

Ellen Giarelli, Ed.D., RN, M.S., CRNP, *Drexel University*

Enhancing Rehabilitation for Aging Populations

Eric Lenze, M.D., *Washington University*

1:00–3:00 p.m.

PARALLEL BREAKOUT SESSION SIX

Incorporating New Outcomes

Jonathan Bean, M.D., *Harvard Medical School*

Virtual Training and Assessment

Brad Dicianno, M.D., *University of Pittsburgh*

Sensor-Based Outcomes

Melissa Morrow, Ph.D., *Mayo Clinic*

Client-Based Outcome Systems

Brian Hafner, Ph.D., *University of Washington*

1:00–3:00 p.m.

PARALLEL BREAKOUT SESSION SEVEN

Using Data to Drive Discovery

Ken Ottenbacher, Ph.D., *University of Texas*

Using Health Care Systems Data to Empower Research

Adrian Hernandez, M.D., *Duke University*

Using Publicly Available Data to Enable Discovery

James Graham, Ph.D., *University of Texas*

Using Big Data for Insight

Jennifer Hicks, Ph.D., *Stanford University*

1:00–3:00 p.m.

PARALLEL BREAKOUT SESSION EIGHT

Preventing Secondary Disability

Diane Damiano, Ph.D., *NIH Clinical Center*

Preventing Chronic Pain: Understanding the Mechanisms

Greg Hicks, Ph.D., *University of Delaware*

Incentivizing Healthy Behaviors: Lessons from Cardiac Rehabilitation

Diann Gaalema, Ph.D., *University of Vermont*

Secondary Prevention for Individuals with Disabilities

Sara Mulroy, Ph.D., *Rancho Los Amigos National Rehabilitation Center*

3:00–3:30 p.m.

Break and Posters

3:30–4:00 p.m.

Town Hall

NIH Medical Rehabilitation Research Committee

4:00–4:30 p.m.

Wrap-Up Planning Committee

4:30 p.m.

Closing Remarks