Workshop

Translational Stroke Research: Vision and Opportunities

Bldg. 10, Masur Auditorium, NIH campus, Bethesda, MD

November 1-2, 2016

Workshop Objectives:

1) To review existing animal models and outcome measures and establish a vision on what is needed to move translational research forward in ischemic and hemorrhagic stroke.
2) To evaluate potential infrastructures and approaches for preclinical studies with a rigorous experimental design with similar standards applied in human clinical trials.
3) Perspectives from Stroke-NET regarding opportunities in reverse-translation, and harmonization of data-sharing, toolbox, and CDEs.

NIH /NINDS Program Staff Organizing Committee: Francesca Bosetti, Rod Corriveau, Lyn Jakeman, Scott Janis, Jim Koenig, Claudia Moy, Ipolia Ramadan, Shai Silberberg, Hao Wang

Steering committee: Tom Carmichael (University of California Los Angeles), **Costantino Iadecola** (Weill Cornell Medical School), **Louise McCullough** (University of Texas Health Science Center, Houston)**, Joe Broderick** (University of Cincinnati), **Mike Tymianski** (University of Toronto, Canada)**, Uli Dirnagl** (Charité, Germany), **Eng Lo** (Massachusetts General Hospital)**, Pat Lyden** (Cedars Sinai)**, John Zhang** (Loma Linda University), **Stephen Back** (Oregon Health & Science University).

Workshop agenda (draft)

Day 1

8:00-8:30   **Registration**

8:30-9:00   **Welcome and Introduction to the workshop, state of the field and overview of the issues and challenges in translational stroke research. Walter Koroshetz** & **Francesca Bosetti** (NINDS)

Session 1: Animal models and outcome measures. What is needed to move translational stroke research forward? Chairs: **Kyra Becker** (University of Washington), **Jim Koenig** (NINDS)

9:00-9:20   **A systematic review of current translational stroke research. Malcolm McLeod** (University of Edinburgh, UK)

9:20- 9:50   **Panel discussion: Are new animal models needed? Tom Carmichael** (University of California Los Angeles)**, Louise McCullough** (University of Texas Health Science Center, Houston)**, Eng Lo** (Massachusetts General Hospital)**, Carina Mallard** (University of Gothenburg, Sweden)

9:50-10:20   **Panel discussion: How to improve outcome measures? John Zhang** (Loma Linda University)**, Stephen Back** (Oregon Health & Science University)**, Miguel Perez-Pinzon** (University of Miami), **Sunghee Cho** (Weill Cornell Medical College)

10:20-10:30   **Break**

10:30-11:00   Panel discussion: From rodents to humans: How can we integrate current efforts? What should preclinical research look like? Mary Stenzel-Poore (Oregon Health & Science University), **Byron Ford** (University of California Riverside), **James Meschia** (Mayo Clinic), **Karen Furie** (Brown University)

11:00- 11:45   General Discussion and Q/As

11:45 - 12:45   LUNCH (on your own)

Session 2: Opportunities for reverse translation: from bed-to-bench-side. Chairs: **Steve Warach** (University of Texas Austin), **Scott Janis** (NINDS)

12:45-1:05   **Perspectives from Stroke NET: are there reverse translation opportunities? Larry Wechsler** (University of Pittsburgh)

1:05-2:25   **What can we learn from clinical trials to inform preclinical research**? **Mike Tymianski** (University of Toronto, Canada)

2:25- 2:45   **Data sharing and Common Data Elements: bridging preclinical and clinical research. Lee Schwamm** (Massachussets General Hospital)

2:40- 2:55 Break

2:55 - 3:40   **Panel Discussion and Q/As.** Panelists: **Karen Furie** (Brown University), **Karen Johnston** (University of Virginia), **Dawn Kleindorfer** (University of Cinicinnati), **Steve Cramer** (University of California Irvine), **Sean Savitz** (University of Texas Houston), **Gary Steinberg** (Stanford University), **Thomas Hemmen** (University of California San Diego)

Session 3: Approaches in preclinical stroke research and lessons learned: What is the path forward?
Chairs: **Uli Dirnagl** (Charité, Germany), **Francesca Bosetti** (NINDS)

3:40- 5:00   **Panel discussion: Lessons learned that can inform ideal approach to move new therapies forward. Panelists: Emily Sena** (University of Edinburgh, UK), **Pat Kochanek** (University of Pittsburgh), **Adam Ferguson** (University of California San Francisco), **Seth Finklestein**, Stemetix, Boston), **Harold Kohn** (University of North Carolina), **Cenk Ayata** (Massachussets General Hospital), **Marilyn Cipolla** (University of Vermont), **Dale Corbett** (University of Ottawa, Canada).

5:00-5:30   **General Discussion and Q/As. Announcements.**

5:30   **Meeting adjourns**

Day 2

8:15-8:20 Debrief on day 1 and introduction to Discussion Groups

8:20- 10:00 Focused Discussion 1: Preclinical models, outcome measures, and the role of reverse translation. What is needed to move translational stroke research forward?

10:00 -10:10   Break

10:10-11:50 Focused Discussion 2: Approaches, networks, collaborative frameworks, lessons learned and paths forward.

11:50- pick up pre-ordered lunch

12:00 -12:30   Presentation of finalized recommendations

12:30-1:30   Open Discussion

1:30- 1:40   Concluding remarks, meeting ends.

Additional invited participants:

Ed Jauch, Medical University South Carolina, **American Heart Association/ American Stroke Association**

Billy Dunn and **Lois Freed**, **Food and Drug Administration**