

**U13 Bench-to-Bedside Conference Series
Sensory Impairment and Cognitive Decline**

*Supported by National Institute on Aging and American Geriatrics Society
Additional support provided by American Academy of Audiology Foundation, Cochlear,
EyeSight Foundation of Alabama, Lighthouse Guild, National Eye Institute, MED-EL,
Research to Prevent Blindness, and The Retirement Research Foundation*

October 2 – 3, 2017
Bethesda North Marriott Hotel and Conference Center
White Oak A & B

Conference Agenda and Speakers

DAY 1: Monday, October 2

Opening Session

- 8:00am–8:15 Co-Chairs Welcome **Heather Whitson, Frank Lin**
- 8:15–8:55 Plenary: Visual and auditory systems **Cynthia Owsley, Nina Kraus**

Topic 1: Comorbid Sensory and Cognitive Impairment: What We Do (Not) Know

- 9:00am–9:15 Defining the “triple threat”: Frequency of co-occurrence and notable disparities **Karen Cruickshanks**
- 9:15–9:30 Consequences of co-existing sensory and cognitive impairment for older adults **David Bennett**
- 9:30–9:45 Risk factors for neurodegeneration of brain, eyes, and ears: from societal to genetic **Luigi Ferrucci**
- 9:45–10:00 Evidence for a causal link between age-related sensory loss and brain changes? **Marilyn Albert**
- 10:10–10:40 Moderated discussion on gaps and future directions **Jonathan Peelle, Bonnielin Swenor**
- 10:40–11:00 **Break**

Topic 2: Sensory Loss and the Aging Brain

- 11:00–11:15 Plasticity and the aging brain **Caterina Rosano**
- 11:15–11:30 Animal models of sensory loss and brain **Gregg Recanzone**
- 11:30–11:45 Animal models of cognition and cognitive assessment **Carol Barnes**
- 11:45–12:00 Changes in the human brain with vision loss **Alice Cronin-Golomb**
- 12:00pm–12:15 Changes in the human brain with hearing loss **Anu Sharma**
- 12:15–12:45 Moderated discussion on gaps and future directions **Grover Gilmore, Kristine Yaffe**
- 12:45–1:45 **Lunch and Networking** – Mentors Sit with Mentees

Topic 3: Bench to Bedside Innovations and Opportunities

1:45–2:00	Shared mechanisms underlying age-related change in cognition/vision/hearing? Susan Resnick
2:00–2:15	Therapy: targets and approaches to improve cognitive & sensory outcomes Kirk Erikson
2:15–2:30	Innovative care models: delivering “whole person care” and reducing disparity Sara Mamo
2:30–2:45	Restorative sensory care for seniors: impact on cognitive aging? David Knopman
2:45–3:00	New tools for assessment that account for comorbidity Molly Wagster
3:00–3:30	Moderated discussion on gaps and future directions Carl Cotman, Walter Wittich
3:30–4:00	Break
4:00–5:15	Small Group Discussions <ul style="list-style-type: none">– <u>Multimodal assessment</u> (need for toolkits, protocols for task-based fMRIs, adding outcomes to trials)– <u>Disparities</u> (racial/socioeconomic disparities; sensory/cognitive changes as a source of disability)– <u>Challenges to translation/implementation</u> (consider 2016 IOM reports on hearing and vision health, resource needs)– <u>Common pathways and mechanisms</u> (neuro-inflammation, vascular disease, neurotoxicity)
6:30–9:00	Reception and Dinner (potential poster session where junior investigators would present)

DAY 2: Tuesday, October 3

7:30am–8:30 **Breakfast and One-on-one Mentee/Mentor Meetings**

Moving the Field Forward: Priorities, Agenda-setting, Wrap-up

8:30–9:00	Panel w/ co-sponsors, stakeholders, possibly a patient representative
9:00–10:30	Small groups provide 10-minute reports from each break-out group
10:30–11:15	Moderated discussion on agenda-setting and prioritizing
11:15–12:00pm	Wrap-up, final remarks, evaluations (Dismissal of those not involved in Rising Stars Session)

Rising Stars: Afternoon Session for Junior Investigators

12:00–1:00	Lunch/Networking
1:00–2:00	Getting to Know Your Allies and Opportunities Panel of representatives: NIA, NINDS, NEI, AHRQ, AGS (GEMSSTARS)
2:00–3:00	Hands-on mentoring workshop Opportunity to share Specific Aims page and/or discuss key topics including building a mentoring team and work-life balance
3:00–3:30	Evaluations, action item postcards, adjourn

Funding for this conference was made possible, in part by 1U13AG054139-01 from the National Institute on Aging. The views expressed in written conference materials or publications and by speakers and moderators do not necessarily reflect the official policies of the Department of Health and Human Services; nor does mention by trade names, commercial practices, or organizations imply endorsement by the U.S. Government.