



National Institute on Aging (NIA), Intramural Research Program (IRP)

Exploring the Uses of Photobiomodulation in Research

AGENDA January 10, 2023

- 9:00 a.m. - 9:05 a.m. EST Welcome and Workshop overview
Luigi Ferrucci, M.D., Ph.D.
Scientific Director, National Institute on Aging
- Session I.**
- 9:05 a.m. – 9:35 a.m. EST *Mechanisms, Biomarkers, and Dosing paradigms: Clinical Translation of Photobiomodulation Therapy*
Praveen Arany, Ph.D.
Assistant Professor, University at Buffalo
- 9:35 a.m. – 10:05 a.m. EST *Photobiomodulation (PBM) and Cytochrome c Oxidase (CCO)*
Harry Whelan, M.D.
Professor, Medical College of Wisconsin
Brendan Quirk, Ph.D.
Senior Scientist, Medical College of Wisconsin
- 10:05 a.m. – 10:35 a.m. EST *670 nm energy: A shining star for treating vascular disease*
Nicole Lohr, M.D., Ph.D., FACC
Associate Professor and Medical Director, Cardiovascular Clinical Trials, Medical College of Wisconsin
- 10:35 a.m. – 11:05 a.m. EST *Revitalizing Cognition and Photobiomodulation*
Dawn Bowers, Ph.D., ABPP/CN
Professor, University of Florida
- 11:05 a.m. – 11:35 a.m. EST Open Discussion
- 11:35 a.m. – 12:35 p.m. EST Break

Contact Information: Sarah Lewis, Office of the Scientific Director, Phone: 667-205-2604
Matt Hasek, Office of the Scientific Director, Phone: 410-454-8774

Individuals with disabilities who need Sign Language Interpreters and/or reasonable accommodation to participate in this event should contact Sarah Lewis (sarah.lewis@nih.gov), Matt Hasek (Matthew.Hasek@nih.gov), and/or the Federal Relay Service at 800-877-8339. Requests should be made five days in advance of the event.

Session II.

- 12:35 p.m. – 1:05 p.m. EST *Chronic PBM therapy ameliorates heart and arterial structure/function deterioration, improves gait speed and reduces frailty in mice of advanced age*
Edward G. Lakatta, M.D.
Senior Investigator and Chief, Laboratory Cardiovascular Science (LCS)
- 1:05 p.m. – 1:35 p.m. EST *In vivo veritas: Photobiomodulation of the aging brain*
Francisco Gonzalez-Lima, Ph.D.
George I. Sanchez Centennial Professor, University of Texas at Austin
- 1:35 p.m. – 2:05 p.m. EST *Non-invasive sensory stimulation to induce gamma oscillation entrainment and neuroprotection*
Li-Huei Tsai, Ph.D.
Director, Picower Institute for Learning and Memory at the Massachusetts Institute of Technology
- 2:05 p.m. – 2:35 p.m. EST *Unblinded by the Light: Applications of Photobiomodulation in Retinal Disease*
Janis T. Eells, Ph.D.
Professor, University of Wisconsin-Milwaukee
- 2:35 p.m. – 3:05 p.m. EST Open Discussion
- 3:05 p.m. – 3:15 p.m. EST Closing Remarks
Molly Wagster, Ph.D.
Chief, Behavioral and Systems Neuroscience Branch
- 3:15 p.m. EST Workshop Adjourn

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