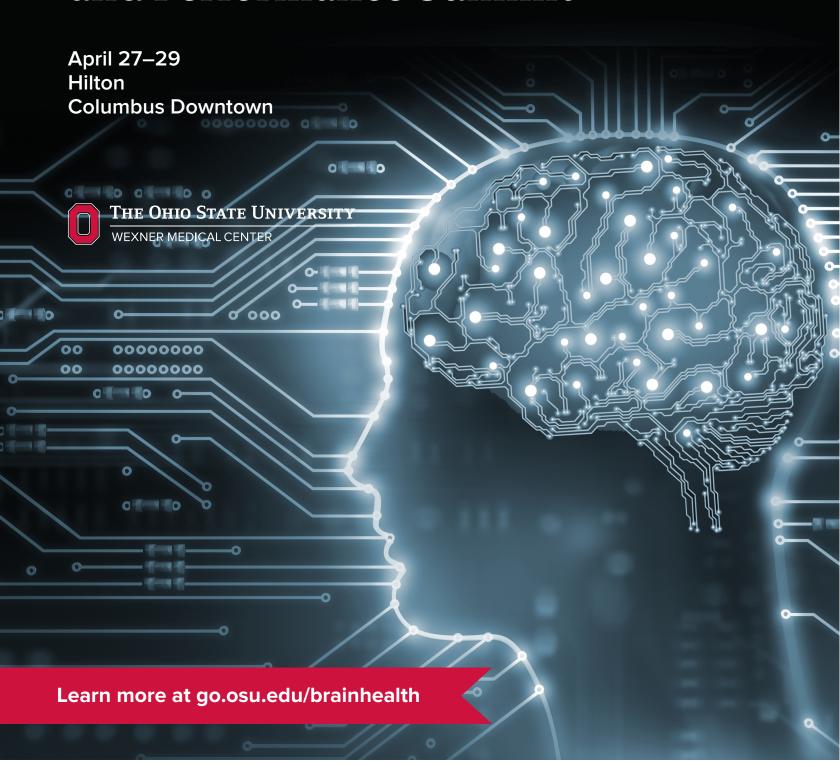
Presented by The Ohio State University Neurological Institute and the Stanley D. and Joan H. Ross Center for Brain Health and Performance

EXPLORING THE LATEST DISCOVERIES AND INNOVATIONS:
LINKING BRAIN HEALTH TO PERFORMANCE, RECOVERY, HEALING AND WELLNESS

2017 Global Brain Health and Performance Summit





Global Brain Health and Performance Summit

Presented by

The Ohio State University Wexner Medical Center Neurological Institute Stanley D. and Joan H. Ross Center for Brain Health and Performance



Dear Colleagues,

Welcome to the 2017 Global Brain Health and Performance Summit. This unique event, hosted by The Ohio State University and the Stanley D. and Joan H. Ross Center for Brain Health and Performance, brings together researchers, clinicians, educators, entrepreneurs, authors, media, and community and corporate leaders from a myriad of fields to share their work and vision for addressing the complex questions within the field of neuroscience.

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Our program features experts across disciplines including cognitive neuroscience, neurology, neurosurgery, internal medicine, psychiatry, psychology, social work, athletics, physical and athletic training, rehabilitation, health and wellness, and engineering. While each of us may focus on particular areas of study, we share a dedication to solving one of our greatest challenges: decoding the mysteries of the human brain for the benefit of humanity. Our expert speakers and specialized programs approach this challenge from many vantage points, including military training, athletic performance, scientific research, patient care, and technological development.

It is my hope that these three days of programming are informative, inspiring, and serve as a catalyst for future collaborations and breakthroughs. I hope you enjoy the presentations and discussions and that you will learn from and share your knowledge and perspective with your fellow attendees. After all, we are all stakeholders in the quest to understand and optimize our brain health and performance—and collaboration is our way forward.

Sincerely,

Ali R. Rezai, MD

Director, Ross Center for Brain Health and Performance Director, The Ohio State Neurological Institute Associate Dean, Neuroscience

Keynote Speakers



Deepak Chopra, MD Pioneer and Advocate in Integrative Medicine



Dan Buettner
National Geographic
Fellow,
Author of "Thrive",
"The Blue Zones" and
"The Blue Zones
Solution"



Nathan Price, PhD Institute for Systems Biology (ISB), 100K Wellness Project



J.D. Vance, JD Author, "Hillbilly Elegy"

Stanley D. and Joan H. Ross Center for Brain Health and Performance **Summit Planning Committee**



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Professor, Physical Medicine and Rehabilitation Division Director, Rehabilitation Psychology Vice-Chair of Research and Academic Affairs



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Associate Athletic Director, Department of Athletics



JESSICA BUSKIRK, MBA

Director of Operations Ross Center for Brain Health and Performance



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Professor, Neurology, Physical Medicine and Rehabilitation and Neuroscience



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Director, Knowledge Translation, Ross Center for Brain Health and Performance Emeritus Professor, Physical Medicine and Rehabilitation Director, Ohio Valley Center for Brain Injury and Prevention



ULYSSES MAGALANG, MD

ioral Medicine Research

Professor, Pulmonary, Allergy, Critical Care and Sleep Medicine and Neuroscience Director, Sleep Disorders Program



PER SEDERBERG, PhD

Chief Scientist, Ross Center for Brain Health and Performance Associate Professor, Psychology, Cognitive Area



SCOTT GALSTER, PhD

Senior Advisor, Ross Center for Brain Health and Performance Lead, Outreach and Collaboration Programs, Senior International Focal Point, Airman Systems Directorate, Air Force Research Laboratory, Wright-Patterson Air Force Base



DIPANJAN "DJ" NAG, PhD,

The Ohio State University Associate Vice President Technology Commercialization



KYLE TRAVER, MS

Director, Research and Development, Ross Center for Brain Health and Performance Program Manager, Applied Neuroscience Branch, Airman Systems Directorate, 711 Human Performance Wing, Air Force Research Laboratory, Wright-Patterson Air Force Base



RANDY NELSON, PhD

Distinguished Professor, Psychology and Neuroscience Chair, Department of Neuroscience Co-Director, Neuroscience Research Institute



TONI HARE, MBA Director, Neurological Institute Marketing



Plenary & Featured Speakers

Keynote, plenary and breakout sessions will feature top scientists from academia, industry and government to discuss innovations in research and development designed to enhance brain health and human performance.



JEREMY ABBATEScientific American,
Publisher



PETE EDWARDS JR., MD Columbus Crew, Team Physician

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WALTER GREENLEAF, PhD Pear Therapeutics Chief Science Officer



MICHAEL APUZZO, MD Yale University Distinguished Adjunct Professor of Neurosurgery



NAOMI EISENBERGER, PhD University of California, Professor Social Psychology



BRUNO HERBELIN, PhDSwiss Federal Institute
of Technology,
Deputy Director for
Neuroprosthetics



MOSHE BAR, PhD Bar-llan University, Harvard University, Israel Brain Technologies



IGOR ELMAN, MDWright State University
Chair, Department of
Psychiatry



JOSH HAGEN, PhDAir Force Research
Laboratory, Head of
STRONG Team



ERIC BROWN, PhDIBM Watson Healthcare, Director of Foundational Innovation



GREG FIORE, MDFiore Healthcare
Advisors
Founder and CEO



JON HAMILTON NPR, Science Correspondent



JOHN CAMPO, MD
The Ohio State University
Wexner Medical Center
Chair, Department of
Psychiatry and Behavioral
Health



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Co-Founder and Chief
Scientific Officer



ADAM HANINA, MBA AiCure CEO and Co-Founder



CHRISTOPHER COBURN, MPA Partners HealthCare, Chief Innovation Officer



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Columbus Fire
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WeFund Health



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ABBY LEVY, MBA Thrive Global, President



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ANDREW MILLER, MD Emory University, Director, Adult Outpatient Psychiatry



VICTOR MIRANDA, MD GE Healthcare, Chief Medical Officer-Neurology



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JAMES OLDS, PhD National Science Foundation, Assistant Director for the Directorate for Biological Science



RUCHIKA PRAKASH, PhD The Ohio State University, Professor of Psychology



HARALD PRUESS, MD Charité -Universitätsmedizin, Campus Mitte Berlin, Neurology-Attending



ASHISH RAJ, PhD Cornell University, Assistant Professor of Neuroscience / BrainWire, CEO



DAN RIZZUTO, PhD University of Pennsylvania, Director of Cognitive Neuromodulation



LT. COL. STEPHEN **SAVELL** Air Force Research Laboratory, Commander, 350 TS



ANDREA SERINO, PhD MindMaze, Head Scientist / Swiss Federal Institute of Technology in Lausanne



GAURAV SHARMA, PhD Battelle, Senior Research Scientist, Medical Devices & Neuromodulation



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JEFFREY WADSWORTH, PhD Battelle, CEO



KEVIN WASSERSTEIN, MS. MBA Neurotechnology Innovations Translator (NIT), Co-Founder



CAROL WHITACRE, PhD The Ohio State University, Senior Vice President for Research



BRETT WINGEIER, PhD Halo Neuroscience, Chief Technology Officer



PHYLLIS ZEE, MD, PhD Northwestern University, Professor / Associate Director, Center for Sleep and Circadian Biology



AGENDA

To learn more and register visit **go.osu.edu/brainhealth.**

Thursday, April 27

Special Symposium: Opioid Addiction and the Brain: Crisis in the Heartland George Bellows Ballroom ABCD

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Moderators: John Campo, MD, The Ohio State University and Liel Leibovitz, PhD		
11:30 a.m.	Lunch Served	
11:40 a.m.	Welcome	Ali Rezai, MD, The Ohio State University
11:45 a.m.	Keynote Introduction	John Campo, MD, The Ohio State University
11:50 a.m.	Socioeconomic Underpinnings	JD Vance, JD Author, "Hillbilly Elegy: A Memoir of a Family and Culture in Crisis"
12:15 p.m.	Panel Discussion: The Public Health Impact Moderator: Liel Leibovitz, PhD Thunder11	JD Vance, JD Mark Hurst, MD Ohio Department of Mental Health and Addiction Services William Martin II, MD The Ohio State University, College of Public Health James Davis Columbus Fire Department
12:45 p.m.		Break
1 p.m.	The Scope of the Problem	Mark Hurst, MD Ohio Department of Mental Health and Addiction Services
1:15 p.m.	The Neuroscience of Opioid Addiction	Igor Elman, MD Wright State University
1:30 p.m.	Challenges in the Management of Opioid Addiction	John Campo, MD The Ohio State University
1:45 p.m.	West Virginia's Developing Model to Address Opioid Addiction	Clay Marsh, MD West Virginia University
2 p.m.	Technological Innovations: Seeking Game Changers	Greg Fiore, MD Fiore Healthcare Advisors Ali Rezai, MD The Ohio State University
2:20 p.m.	Panel Discussion	Moderators: John Campo, MD and Liel Leibovitz, PhD

Thursday, April 27

Plenary Session 1: The Global Ecosystem of Brain Health George Bellows Ballroom ABCD

Moderator: Jeremy Abbate, Scientific American			
4 p.m.	Opening Address	Ali Rezai, MD The Ohio State University Neurological Institute, Director	
4:15 p.m.	Roundtable Discussion: What is Brain Health? Moderator: Jeremy Abbate Scientific American, Publisher No CME	Moshe Bar, PhD Bar-llan University Christopher Coburn, MPA Partners HealthCare Richard Friedman, PhD Cornell University Sarah Lenz Lock, JD AARP James Olds, PhD National Science Foundation	
5:15 p.m.	Keynote Introduction	Clay Marsh, MD West Virginia University	
5:20 p.m.	KEYNOTE: Population Studies: Applications to Brain Health	Nathan Price, PhD Institute for Systems Biology (ISB)	
5:45 p.m.	Roundtable Discussion: Population Brain Health Studies Moderator: Jon Hamilton NPR	Amir Kalali, MD QuintilesIMS Clay Marsh, MD West Virginia University	Nathan Price, PhD Institute for Systems Biology (ISB) Victor Miranda, MD GE Healthcare
6:15 p.m.	Brain Health Hero Award	Presented by Carole Whitacre, PhD, The Ohio State University, with Stanley D. and Joan H. Ross	
6:30 p.m.	Openin	Opening Reception: Emerson Burkhart AB	



Friday, April 28

Breakfast Symposium:Watson Cognitive Healthcare Elijah Pierce AB

7.00 d.m. Watson Cognitive recultificate	ic Brown, PhD M Watson Health
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Plenary Session 2: Technological Advances for Understanding Brain Health George Bellows Ballroom ABC

Moderator: Per Sederberg, PhD, The Ohio State University		
8:00 a.m.	Welcome	Michael Apuzzo, MD The Ohio State University
8:05 a.m.	Partnering in Cutting Edge Neurotechnology	Jeffrey Wadsworth, PhD Battelle
8:25 a.m.	Modeling Progression in Neurodegenerative Diseases Using Network Connectivity	Ashish Raj, PhD Cornell University
8:45 a.m.	Cortical Control of the Autonomic Nervous System	Scott Grafton, MD University of California at Santa Barbara
9:05 a.m.	The Proactive Brain	Moshe Bar, PhD Bar-llan University, Harvard University
9:25 a.m.	Plenary Panel Discussion	Moderator: Per Sederberg, PhD The Ohio State University
9:45 a.m.	Morning Break with Exhibitors	





Friday, April 28

Plenary Session 3: Brain-Body Connection and Physical Performance George Bellows Ballroom ABCD

10:10 a.m.	The Harry T. Mangurian, Jr. Foundation Lecture*: Athletic Applications		Josh Hagen, PhD Air Force Research Laboratory	
			William Kraemer, PhD The Ohio State University	
10:30 a.m.	Third Offset	Morley Stone, PhD Air Force Research Laboratory		
10:50 a.m.	State of the Science Military Applications	Lt. Col. Stephen Savell Air Force Research Laboratory		
11:10 a.m.	Performance Roundtable:	Josh Hagen, PhD Air Force Research Laboratory	Morley Stone, PhD Air Force Research Laboratory	
	Moderator: Scott Galster, PhD Air Force Research Laboratory	William Kraemer, PhD The Ohio State University	Steve Tashjian, MPT, CSCS Columbus Crew	
		Lt. Col. Stephen Savell Air Force Research Laboratory		
11:30 a.m.	Keynote Introduction	Gail Marsh The Ohio State University		
11:35 a.m.	KEYNOTE: Blue Zones: Secrets of a Long Life	Dan Buettner National Geographic		
12:15 p.m.	Lunch			
1 p.m.	Brain Health Commercialization Panel	Christopher Coburn, MPA Partners HealthCare	Brett Wingeier, PhD Halo Neuroscience	
	Moderator: Jeremy Abbate Scientific American	Abby Levy, MBA Thrive Global	Mark Kvamme Drive Capital, Partner	
	No CME	Kevin Wasserstein, MS, MBA Neurotechnology Innovations Translator (NIT)	Andrea Serino, PhD MindMaze, Swiss Federal Institute of Technology in Lausanne	
2 p.m.	Digitizing Neuroscience: Research & Development	Ellen Frank, PhD HealthRhythms	Walter Greenleaf, PhD Pear Therapeutics	
	Moderator: Amir Kalali, MD QuintilesIMS	Adam Hanina, MBA AiCure		
2:35 p.m.	Break with Exhibitors			

*The Harry T. Mangurian, Jr. Foundation, a Fort Lauderdale-based private foundation, supports medical and neurological research programs throughout the country, including The Ohio State University Wexner Medical Center Neurological Institute.



Friday, April 28

Sense, Assess & Augment Breakouts:

3 p.m. - 5:45 p.m.

Breakout sessions will be structured around the Sense, Assess and Augment framework with sessions dedicated to each element

- Sense: Examines current and emerging technologies which allow for detection of functional states
- Assess: Focuses on big data analytic approaches to extract meaningful information from the data gathered from "sensing" activities
- Augment: Showcases strategies, techniques and technology to optimize performance, health and readiness based on "sense" and "assess" findings

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Breakout Session 1: 3 - 4:15p.m.

	Sense George Bellows Ballroom E	Assess Emerson Burkhart A	Augment Emerson Burkhart B
	Moderators: Kyle Traver, MS, Air Force Research Lab Bart Barthelemy, PhD, Wright Brothers Institute	Moderators: Per Sederberg, PhD, The Ohio State University Scott Galster, PhD, Air Force Research Lab	Moderator: Ashwini Sharan, MD Thomas Jefferson University
3:00 p.m.	Advances in Sweat Sensing Jason Heikenfeld, PhD Eccrine Systems, Inc.	Artificial Neural Networks Kevin Durkee Aptima, Inc.	Virtual Reality: Neuroprosthetic Clinical Applications Bruno Herbelin, PhD Swiss Federal Institute of Technology in Lausanne
3:15 p.m.	Neuroprosthetic Body Awareness: Sensing through the Eyes of a Brain-Computer Interface Marcia Bockbrader, MD, PhD The Ohio State University	Extended Kalman Filtering Mingjun Zhang, PhD The Ohio State University	Neuroprosthetics-enabled Cortical Control of a Paralyzed Hand: From Restoring Individual Finger Movements to Functional Grasps Gaurav Sharma, PhD Battelle
3:30 p.m.	Big Data Challenges in Decoding Cortical Activity in a Human with Quadriplegia to Inform a Brain Computer Interface David Friedenberg, PhD Battelle	Endocrine-Brain Connections William Kraemer, PhD The Ohio State University	Examining Modifiable Factors to Prevent Post-op Cognitive Decline Michelle Humeidan, MD, PhD The Ohio State University
3:45 p.m.	Non-invasive Physio Sensing Technologies John Bell, PhD Michigan State University	Biomarkers of Stress and Performance: Special Operations Regina Shia, PhD Air Force Research Laboratory	Advances in Transcranial Direct Current Stimulation Andy McKinley, PhD Air Force Research Laboratory
4:00 p.m.	Noninvasive Monitoring of Intracranial Hemorrhage George Shaw, PhD Sense Diagnostics, LLC	Fused Model Approaches for Assessment Omid Dehzangi, PhD University of Michigan	DARPA RAM: Developing Neurostimulation Therapies for Patients with Memory Disorders Daniel Rizzuto, PhD University of Pennsylvania







Breakout Session 2: 4:30 - 5:45 p.m.

Special Lectures George Bellows Ballroom E Moderators: John Corrigan, PhD, The Ohio State University Chelsea Kane, PsyD, The Ohio State University		Assess Emerson Burkhart A Moderators: Kevin Durkee, Aptima Mingjun Zhang, PhD, DSc, The Ohio State University	Augment Emerson Burkhart B Moderator: Lee Shackelford, MD	
4:30 p.m.	Arts & Rehabilitation Roundtable Chronic Brain Injury Discovery Theme The Ohio State University Moderator: Lise Worthen-Chaudhari,	Concussion Spotting in Intercollegiate and Professional Athletics Jason Eckerle, ATC Air Force Research Laboratory	Mindfulness Meditation for Behavioral Disorders and Chronic Pain Stephanie Lopez, LISW-S Integrative Restoration Institute	
4:45 p.m.	MFA, MS, CSC Panelists: Jim Phelan, PhD, Jerry Mysiw, MD, Yune Lee, PhD, Eugenia Costa-Giomi, PhD, Kyle Sebastian	HRV Wearables and the Future of Healthcare Ron Gharbo, DO Eastern Virginia Medical School	Treating Military PTSD Stephanie Lopez, LISW-S Integrative Restoration Institute	
5:00 p.m.	Schulte Lecture* The Cognitive Revolution Per Sederberg, PhD The Ohio State University	Elaborate Interactions Between the Immune and Nervous Systems Jan Schwab, MD, PhD The Ohio State University	Sports Performance Roundtable Moderator: Janine Oman, MS, PT/AT The Ohio State University Moderator: Michael Apuzzo, MD The Ohio State University	
5:15 p.m.	Schulte Lecture* Consistent Variability in Motor Recovery Lynne Gauthier, PhD The Ohio State University	fMRI Modeling of Functional Brain Connectivity Scott Grafton, MD University of California Santa Barbara	Steve Tashjian, Josh Hagen, PhD MPT, CSCS Air Force Research Lab Columbus Crew Pete Edwards Jr., MD Don Moxley, MA	
5:30 p.m.	Schulte Lecture* Sleep & Light Uly Magalang, MD The Ohio State University	Cranial Cloud Pierre-Francois D'Haese, PhD Vanderbilt University	Columbus Crew The Ohio State University Jeff Volek, PhD The Ohio State University	

Poster Reception: 5:45 p.m. George Bellows Ballroom ABC

*The Rudi Schulte Research Institute (RSRI), a 501c(3) charitable foundation located in Santa Barbara, California, was founded in 1974 by its namesake whose many inventions included the shunt for hydrocephalus. RSI has a long history of promoting better treatment for hydrocephalus, as well as other groundbreaking research on the intersection of technology and brain function.



Saturday, April 29

Breakfast Panel: Data as the Next Frontier of Commercialization in Neuroscience Elijah Pierce AB

Commercializ Moderator:	Data as the Next Frontier of Commercialization in Neuroscience Moderator: Dipanjan "DJ" Nag, PhD, MBA	David Friedenberg, PhD Battelle Kevin Noonan, PhD	Sanmi Koyejo, PhD University of Illinois at Urbana-Champaign
	The Ohio State University No CME	McDonnell Boehnen Hulbert & Berghoff LLP	Michael DePalma WeFund Health

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Plenary Session 4: Inflammation and the Brain-Body Connection George Bellows Ballroom ABCD

Moderator: Janice Kiecolt-Glaser, PhD, The Ohio State University			
8:00 a.m.	Welcome	Scott Galster, PhD Air Force Research Laboratory	
8:05 a.m.	Depression, Inflammation and Cognition	Andrew Miller, MD Emory University	
8:25 a.m.	Immune Dysfunction and the Effects on Cognition	Harald Pruess, MD Charité – Universitätsmedizin, Campus Mitte – Berlin	
8:45 a.m.	The Effects of Inflammation on Social and Affective Experience	Naomi Eisenberger, PhD University of California Los Angeles	
9:05 a.m.	Plenary Panel Discussion	Moderator: Janice Kiecolt-Glaser, PhD The Ohio State University	
9:20 a.m.	Morning E	Morning Break with Exhibitors	





Saturday, April 29

Plenary Session 5: Lifestyle and Brain Health George Bellows Ballroom ABCD

Moderator: Ruchika Prakash, PhD, The Ohio State University		
9:40 a.m.	Exercise and Cognition	Arthur Kramer, PhD Northeastern University, Senior Vice Provost
10 a.m.	Nutrition and Brain Health No CME	Matt Kuchan, PhD Abbott
10:20 a.m.	Circadian Alignment and Sleep	Phyllis Zee, MD, PhD Northwestern University
10:40 a.m.	Meditation, Mindfulness and Augmentation	Ruchika Prakash, PhD The Ohio State University
11 a.m.	Plenary Panel Discussion	Moderator: Ruchika Prakash, PhD The Ohio State University
11:15 a.m.	KEYNOTE INTRODUCTION	Michael Drake, MD The Ohio State University, President
11:20 a.m.	KEYNOTE	Deepak Chopra, MD Integrative Medicine Pioneer
12 p.m.	Closing Discussion	Deepak Chopra, MD Integrative Medicine Pioneer
	Moderator: Ali Rezai, MD The Ohio State University	Ruchika Prakash, PhD The Ohio State University
12:15 p.m.	Summit Adjourns	

This activity has been planned and implemented in accordance with the Essential Areas and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of CME Outfitters, LLC and Ohio State University Stanley D. and Joan H. Ross Center for Brain Health and Performance. CME Outfitters, LLC is accredited by the ACCME to provide continuing medical education for physicians.

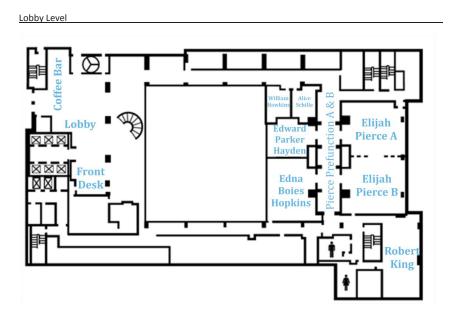
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Bellows Prefunction EAST

Bellows Ballroom

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EXPLORING THE LATEST DISCOVERIES AND INNOVATIONS: LINKING BRAIN HEALTH TO PERFORMANCE, RECOVERY, HEALING AND WELLNESS



Stanley D. and Joan H. Ross Center for Brain Health and Performance

This program is made possible because of the generous support of Stan and Jodi Ross and their funding of the Stanley D. and Joan H. Ross Center for Brain Health and Performance. The mission of the Ross Center for Brain Health and Performance is to optimize health and performance by revolutionizing the understanding of the brain.



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