

ALLEN FRONTIERS SYMPOSIUM

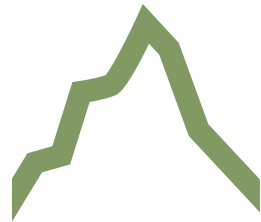
Wednesday, October 16, 2019

8:30-9:00am	Breakfast - The Joseph B. Martin Conference Center Amphitheater Lobby
9:00-9:10am	Kathy Richmond, The Paul G. Allen Frontiers Group <i>Welcome and opening remarks</i>
9:10-9:55am	Carl Zimmer, New York Times <i>Braided History: Reporting on Human Origins</i>
9:55-10:10am	New Allen Distinguished Investigators <i>Introductions</i>
10:10-10:40am	Shayn Peirce-Cottler, University of Virginia <i>Allen Discovery Center for Systems Modeling of Infection</i>
10:40-11:00am	Break
11:00-11:20am	Steve Horvath, University of California, Los Angeles <i>Universal Epigenetic Aging Clock</i>
11:20-11:40am	Rachel Whitaker, University of Illinois <i>Real Time Evolution and Gene Flows</i>
11:40am-12:00pm	Suneel Apte, Cleveland Clinic American Heart Association Allen Distinguished Investigator <i>Forward and reverse degradomics of cardiovascular extracellular matrix</i>
12:00-12:20pm	Jeffrey Holmes, University of Virginia American Heart Association Allen Distinguished Investigator <i>Information storage and retrieval in the cardiac extracellular matrix</i>
12:20-1:30pm	Lunch - Lobby
1:30-1:55pm	Rusty Gage, Salk Institute AHA-Allen Initiative Team Lead <i>Understanding the cell biological drivers of aging as risk factors for cognitive impairment</i>
1:55-2:20pm	Tony Wyss-Coray, Stanford University AHA-Allen Initiative Team Lead <i>Immunomodulation to promote cerebrovascular and cognitive health</i>



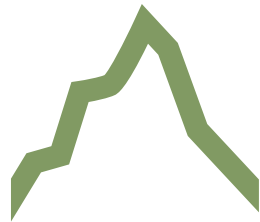
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2:20-2:45pm	Mukesh Jain, University Hospitals Cleveland Medical Center AHA-Allen Initiative Team Lead <i>Optimizing the function of a redefined neurovascular unit to prevent age-related dementia</i>
2:45-3:05pm	Baljit Khakh, University of California, Los Angeles <i>Unmasking and Exploiting Astrocyte Biology</i>
3:05-3:25pm	Break
3:25-3:55pm	Jay Shendure, University of Washington and Michael Elowitz, Caltech <i>Allen Discovery Center for Cell Lineage Tracing</i>
3:55-4:15pm	Michael Rosen, UT Southwestern Medical Center <i>Nuclear Organization Through Phase Separation: Mechanisms, Functions and Disease</i>
4:15-4:35pm	Clodagh O'Shea, Salk Institute <i>Cracking the Nuclear Codes: Finding Order in Chaos</i>
4:35-4:40pm	Kathy Richmond, The Paul G. Allen Frontiers Group <i>Closing remarks</i>



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9:05-9:50am	Regina Barzilay, Massachusetts Institute of Technology and Jonathan M. Stokes, Broad Institute of MIT and Harvard <i>Learning to discover novel antibiotics from vast chemical spaces</i>
9:50-10:20am	Christopher Walsh, Boston Children's Hospital <i>Allen Discovery Center for Human Brain Evolution</i>
10:20-10:40am	Marc Kirschner, Harvard Medical School <i>Reverse engineering of biological circuits underlying aging and development</i>
10:40-11:00am	Break
11:00-11:20am	Fei Chen & Jason Buenrostro, Broad Institute of MIT and Harvard <i>Multi-modal Visualization of the Dynamic Epigenome</i>
11:20-11:40am	Ralf Jungmann, Max Planck Institute of Biochemistry & Jan Ellenberg*, European Molecular Biology Laboratory <i>Systematic mapping of epigenetic marks to the 3D architecture of the human genome in single cells.</i>
11:40am- 12:00pm	Charles Gersbach, Duke University <i>Epigenome Editing Technologies for Cell Programming</i>
12:00-12:20pm	Chenghua Gu, Harvard Medical School <i>Brain vasculature at the neuro-immune interface</i>
12:20-1:30pm	Lunch - Lobby



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1:30-1:50pm	Matthias Stephan, Fred Hutchinson Cancer Research Center <i>Developing in situ programming of CAR T-cells for clinical use in lymphoma patients</i>
1:50-2:10pm	David Weinstock, Dana-Farber Cancer Institute & Scott Manalis, MIT <i>Defining Vulnerabilities of MRD</i>
2:10-2:30pm	Christian Steidl, University of British Columbia <i>Multi-modal Visualization of the Dynamic Epigenome</i>
2:30-3:00pm	Michael Levin, Tufts University <i>Allen Discovery Center - Reading and Writing the Morphogenetic Code</i>
3:00-3:05pm	Kathy Richmond, The Paul G. Allen Frontiers Group <i>Closing remarks</i>

* Not attending

ABOUT THE PAUL G. ALLEN FRONTIERS GROUP

The Paul G. Allen Frontiers Group takes our Founder's enduring quest to understand the mysteries of bioscience to a global scale—beyond the science happening within the labs of the Allen Institute—by directing funding to researchers conducting cutting-edge science around the world. Our team is in continuous dialogue with scientists and visionaries in all areas of bioscience, constantly seeking the novel ideas and emerging fields where an early investment could have the power to make a difference for humankind.