

# EXPANDING MINDS

THE ALLEN INSTITUTE CONFERENCE  
ON HUMAN BRAIN EVOLUTION

Wednesday, April 1, 2020

8:30-9:00am	Registration and continental breakfast
9:00-9:10am	<b>Christopher A. Walsh, Michael Greenberg and David Reich</b> , <i>Allen Discovery Center for Human Brain Evolution</i> , Expanding Minds Meeting Chairs Welcome and introductory remarks
9:10-10:10am	<b>Christof Koch</b> , <i>Allen Institute for Brain Science</i> Keynote: "An adversarial collaboration to explore human consciousness"
10:10-10:40am	<b>Liran Carmel</b> , <i>The Hebrew University of Jerusalem</i> "Paleo-epigenetics: The use of ancient DNA methylation patterns to study human evolution"
10:40-11:00am	Networking and coffee break
11:00-11:30am	<b>Fenna Krienen</b> , <i>Harvard Medical School</i> "Innovations in primate neuronal repertoires"
11:30am-12:00pm	<b>Sarah Tishkoff</b> , <i>University of Pennsylvania</i> "Human evolution and adaptation in Africa"
12:00-12:20pm	<b>Swapan Mallick</b> , <i>Harvard Medical School</i> "The Ancient Genome Diversity Project"
12:20-12:25pm	<b>David Reich</b> , <i>Harvard Medical School</i> Introduction to brainstorm session #1 - "Studying and using ancient DNA"
12:25-2:05pm	Networking Lunch in Atrium (provided) 1:00-2:00pm: "Studying and using ancient DNA" brainstorm session, 2nd floor
2:05-2:35pm	<b>Michael Greenberg</b> , <i>Harvard Medical School</i> "How nature and nurture conspire to control brain development and function"
2:35-3:05pm	<b>Rebecca Hodge</b> , <i>Allen Institute for Brain Science</i> "Cell type diversity in human cerebral cortex"
3:05-3:25pm	<b>Andrew Halley</b> , <i>University of California, Davis</i> "Paws, wings, and hands: the coevolution of motor cortex and mammalian forelimb morphology"
3:25-3:45pm	Networking and coffee break
3:45-4:45pm	<b>Panel discussion, moderated by Liran Carmel</b> - "What are uniquely human features?" Panelists include: Patricia Churchland, Christof Koch, Fenna Krienen, Hongkui Zeng, Michael Greenberg, Erin Hecht
4:45-6:45pm	Poster session and happy hour reception
7:00-9:00pm	Social reception and dinner at Dockside by Dukes, 1111 Fairview Ave N, Seattle, WA 98109

Thursday, April 2, 2020

8:30-9:00am	Registration and continental breakfast
9:00-9:30am	<b>Philipp Gunz</b> , <i>Max Planck Institute for Evolutionary Anthropology</i> "Neandertal introgression sheds light on brain evolution"
9:30-10:00am	<b>Erin Hecht</b> , <i>Harvard University</i> "Domestication as a natural experiment in brain-behavior evolution"
10:00-10:30am	<b>Mark Harnett</b> , <i>Massachusetts Institute of Technology</i> "Cortical neuron structure-function relationships across mammalian species"
10:30-10:50am	Networking and coffee break
10:50-11:20am	<b>Hongkui Zeng</b> , <i>Allen Institute for Brain Science</i> "Cell type classification and circuit mapping in the mouse brain"
11:20-11:50am	<b>Alex Pollen</b> , <i>University of California, San Francisco</i> "Establishing great ape organoid models to study genomic events contributing to human brain evolution"
11:50am-12:10pm	<b>Maria Carolina Marchetto</b> , <i>Salk Institute for Biological Studies</i> "Species-specific maturation profiles and transcriptional signatures of human and nonhuman primate neural cells"
12:10-12:15pm	<b>Christopher A. Walsh</b> , <i>Harvard Medical School</i> Introduction to brainstorm session #2 - "Technical gaps in human brain evolution studies"
12:15-1:55pm	Networking Lunch in Atrium (provided) 12:50-1:50pm: "Technical gaps in human brain evolution studies" brainstorm session, 2nd floor
1:55-2:25pm	<b>Flora Vaccarino</b> , <i>Yale School of Medicine</i> "Cell fate trajectories in cortical organoids in development and disease"
2:25-2:45pm	<b>Nicolas Wigganhauser</b> , <i>Stony Brook University</i> "The macroevolutionary history of cortical folding in mammals "
2:45-3:45pm	<b>Panel discussion, moderated by Mark Harnett</b> - "How should we study human brain evolution?" Panelists include: Rebecca Hodge, Alex Pollen, Sarah Tishkoff, Philipp Gunz, Flora Vaccarino
3:45-4:05pm	Networking and coffee break
4:05-5:05pm	<b>Patricia Churchland</b> , <i>University of California, San Diego</i> Keynote: "The neurobiological platform of moral conscience"
5:05-5:15pm	<b>Christopher A. Walsh, Michael Greenberg and David Reich</b> , <i>Allen Discovery Center for Human Brain Evolution</i> , Expanding Minds Meeting Chairs Brainstorm Session Themes and Summary Remarks