



# The Adaptive Brain

## Inaugural Weizmann-Columbia Brain Symposium

Monday-Thursday, January 25-28, 2021

EST 9:00 AM-01:30 PM / IL 04:00 PM-08:30 PM / CET 03:00 PM-07:30 PM

### Monday, January 25

- EST 09:00 AM **Welcoming Remarks**  
IL 04:00 PM **Rui Costa, Director**  
Columbia University, Zuckerman Inst.  
**Alon Chen, President**  
Weizmann Institute of Science  
**James S. Gertler, Trustee**  
Columbia | Zuckerman Inst.
- EST 09:30 AM **Sarah Woolley**  
IL 04:30 PM Columbia | Zuckerman Inst.  
*Learning to Listen: tuning the auditory system for social communication*
- EST 10:15 AM **Meital Oren**  
IL 05:15 PM Weizmann Institute of Science  
*Sex and the circuitry: The development of sexually-dimorphic neuronal circuits*
- EST 11:00 AM **Coffee Break**  
IL 06:00 PM
- EST 11:30 AM **Randy Bruno**  
IL 06:30 PM Columbia | Zuckerman Inst.  
*The many layers of touch*
- EST 12:15 PM **Michal Schwarz**  
IL 07:15 PM Weizmann Institute of Science  
*The immune system holds the key to beat Alzheimer's disease and age-related dementia*

### Tuesday, January 26

- EST 09:00 AM **Takashi Kawashima**  
IL 04:00 PM Weizmann Institute of Science  
*Serotonergic mechanisms of motor learning in zebrafish*
- EST 09:45 AM **Nate Sawtell**  
IL 04:45 PM Columbia | Zuckerman Inst.  
*Neural mechanisms for predicting the sensory consequences of action*
- EST 10:30 AM **Coffee Break**  
IL 05:30 PM
- EST 11:00 AM **Michal Rivlin**  
IL 06:00 PM Weizmann Institute of Science  
*Mechanisms underlying dynamic computations in retinal circuits*
- EST 11:45 AM **Rudy Behnia**  
IL 06:45 PM Columbia | Zuckerman Inst.  
*An evolutionarily convergent circuit for color vision in Drosophila*
- EST 12:30 PM **Ivo Spiegel**  
IL 07:30 PM Weizmann Institute of Science  
*State-dependent regulation of sensory processing and plasticity in cortical circuits*

### Wednesday, January 27

- EST 09:00 AM **Rafi Malach**  
IL 04:00 PM Weizmann Institute of Science  
*A structuralist perspective on brain mechanisms of human perception and memory*
- EST 09:45 AM **Michael Shadlen**  
IL 04:45 PM Columbia | Zuckerman Inst.  
*A cortical-subcortical circuit for forming and terminating a decision*
- EST 10:30 AM **Coffee Break**  
IL 05:30 PM
- EST 11:00 AM **Stefano Fusi**  
IL 06:00 PM Columbia | Zuckerman Inst.  
*The geometry of neural representations in biological and artificial neural networks*
- EST 11:45 AM **Elad Schneidman**  
IL 06:45 PM Weizmann Institute of Science  
*Learning probabilistic representations with randomly connected neural circuits*
- EST 12:30 PM **Elizabeth Hillman**  
IL 07:30 PM Columbia | Zuckerman Inst.  
*Real-time imaging of whole-brain activity*

### Thursday, January 28

- EST 09:15 AM **Bianca J. Marlin**  
IL 04:15 PM Columbia | Zuckerman Inst.  
*Transgenerational epigenetic inheritance of ancestral trauma*
- EST 10:00 AM **Nachum Ulanovsky**  
IL 05:00 PM Weizmann Institute of Science  
*Neural codes for natural behaviors in flying bats*
- EST 10:45 AM **Coffee Break**  
IL 05:45 PM
- EST 11:15 AM **Yaniv Ziv**  
IL 06:15 PM Weizmann Institute of Science  
*Stability and dynamics of hippocampal neural codes for long-term memory*
- EST 12:00 PM **Dmitriy Aronov**  
IL 07:00 PM Columbia | Zuckerman Inst.  
*Using food-caching birds to study the neuroscience of episodic memory*
- EST 12:45 PM **Concluding Remarks**  
IL 07:45 PM **Daphna Shohamy**  
Columbia | Zuckerman Inst.  
**Rony Paz**  
Weizmann Institute of Science

### Organizers

- Rony Paz**  
Weizmann Institute of Science
- Alon Chen, President**  
Weizmann Institute of Science
- Lina Deshilton**  
Zuckerman Institute
- Daphna Shohamy**  
Columbia University,  
Zuckerman Institute
- Rui Costa, Director**  
Columbia University,  
Zuckerman Institute



**For Registration**  
[bit.ly/2Ua5ACA](https://bit.ly/2Ua5ACA)

Supported By **ZUCKERMAN INSTITUTE**