

WIN (Weizmann Institute Neuroscience) Research

Neuroscience research at the Weizmann Institute employs various cutting-edge disciplines, including molecular, computation, systems, cellular, and cognition. Many of the labs combine several approaches into a multidisciplinary research. Please visit individual labs for more information.

List of labs:

[Ehud Ahissar Dept. of Brain Sciences](#)

Neural mechanisms of adaptive perception

[Shabtai Barash, Dept. of Brain Sciences](#)

Mind-Brain: Neurophysiology

[Alon Chen, Dept. of Brain Sciences](#)

Neurobiology of stress

[Yarden Cohen, Dept. of Brain Sciences](#)

The Neural Language of Song

[Mike Fainzilber, Dept. of Biomolecular Sciences](#)

Molecular neurobiology

[Ofar Feinerman, Department of Physics of Complex Systems](#)

Ant collective behavior

[Tamar Flash, Department of Computer Science And Applied Mathematics](#)

Motor control in humans and robotic systems

[Eran Hornstein, Dept. of Molecular Genetics](#)

Regulation of cellular processes by miRNAs

[Takashi Kawashima, Dept of Brain Sciences](#)

Whole-brain deconstruction of behavioral mechanisms

[Tali Kimchi, Dept. of Brain Sciences](#)

Neuronal basis of sexually dimorphic behaviors

[Ilan Lampl, Dept. of Brain Sciences](#)

Processing of sensory information in the cerebral cortex

[Gil Levkowitz, Dept. of Molecular Cell Biology](#)

Development and function of the hypothalamus.

[Yoav Livneh, Dept. of Brain Sciences](#)

Neuroscience of brain-body communication

[Elisha Moses, Department of Physics of Complex Systems](#)
Physics of biological computation

[Meital Oren, Dept. of Brain Sciences](#)
The synaptic basis of sexually dimorphic behaviors

[Rony Paz, Dept. of Brain Sciences](#)
Neural mechanisms of learning

[Elior Peles, Dept. of Molecular Cell Biology](#)
The development of myelinated nerves

[Michal Ramot, Dept. of Brain Sciences](#)
Integration across large scale networks and behaviour in humans

[Orly Reiner, Dept. of Molecular Genetics](#)
Forming the Cortex-translating environmental cues to cellular responses

[Michal Rivlin, Dept. of Brain Sciences](#)
Dynamic computations in the retina

[Eitan Reuveny, Dept. of Biomolecular Sciences](#)
Ion channel – signaling Physiology and biophysics

[Rita Schmidt, Dept. of Brain Sciences](#)
Imaging the human brain: ultra-high field MRI and new biomarkers for brain function

[Elad Schneidman, Dept. of Brain Sciences](#)
Neural computation, learning, and collective behavior

[Michal Schwartz, Dept. of Brain Sciences](#)
The laboratory of the immunology of the mind in health and disease

[Oren Schuldiner, Dept. of Molecular Cell Biology](#)
Molecular mechanisms of neuronal remodeling

[Noam Sobel, Dept. of Brain Sciences](#)
Olfaction

[Ivo Spiegel, Dept. of Brain Sciences](#)
How experience regulates brain function

[Assaf Tal, Dept of Chemical Physics](#)
Imaging brain neurochemistry in humans

[Michail Tsodyks, Dept. of Brain Sciences](#)
Models of brain function

Nachum Ulanovsky, Dept. of Brain Sciences

Hippocampal neural activity in freely moving echolocating bats

Igor Ulitsky, Dept. of Biological Regulation

Regulatory roles of noncoding RNAs in the nervous system

Shimon Ullman, Department of Computer Science and Applied Mathematics

Vision

Avraham Yaron, Dept. of Biomolecular Sciences

Neuronal wiring

Ofer Yizhar, Dept. of Brain Sciences

Synaptic organization in neural circuits

Yaniv Ziv, Dept. of Brain Sciences

Neural coding of long-term memory