

## **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 Neurobiology](#)

*Neural mechanisms of adaptive perception*

[Amos Arieli, Dept. of Neurobiology](#)

[Shabtai Barash, Dept. of Neurobiology](#)

*Mind-Brain: Neurophysiology*

[Alon Chen, Dept. of Neurobiology](#)

*Neurobiology of stress*

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

*Molecular neurobiology*

[Ofer 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*

[Tali Kimchi, Dept. of Neurobiology](#)

*Neuronal basis of sexually dimorphic behaviors*

[Ilan Lampl, Dept. of Neurobiology](#)

*Processing of sensory information in the cerebral cortex*

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

*Development and function of the hypothalamus.*

[Rafi Malach, Dept. of Neurobiology](#)

*Vision and the human brain*

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

*Physics of biological computation*

[Meital Oren, Dept. of Neurobiology](#)

*The synaptic basis of sexually dimorphic behaviors*

[Rony Paz, Dept. of Neurobiology](#)

*Neural mechanisms of learning*

[Elior Peles, Dept. of Molecular Cell Biology](#)

*The development of myelinated nerves*

[Orly Reiner, Dept. of Molecular Genetics](#)

*Forming the Cortex-translating environmental cues to cellular responses*

[Michal Rivlin, Dept. of Neurobiology](#)

*Dynamic computations in the retina*

[Eitan Reuveny, Dept. of Biomolecular Sciences](#)

*Ion channel – signaling Physiology and biophysics*

[Dov Sagi, Dept. of Neurobiology](#)

*From images to visual perception*

[Rita Schmidt, Dept. of Neurobiology](#)

*Imaging the human brain: ultra-high field MRI and new biomarkers for brain function*

[Elad Schneidman, Dept. of Neurobiology](#)

*Neural computation, learning, and collective behavior*

[Michal Schwartz, Dept. of Neurobiology](#)

*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 Neurobiology](#)

*Olfaction*

[Ivo Spiegel, Dept. of Neurobiology](#)

*How experience regulates brain function*

[Michail Tsodyks, Dept. of Neurobiology](#)

*Models of brain function*

[Nachum Ulanovsky, Dept. of Neurobiology](#)

*Hippocampal neural activity in freely moving echolocating bats*

[Shimon Ullman, Department of Computer Science And Applied Mathematics](#)

*Vision*

[Avraham Yaron, Dept. of Biomolecular Sciences](#)

*Neuronal wiring*

[Ofer Yizhar, Dept. of Neurobiology](#)

*Synaptic organization in neural circuits*

[Yaniv Ziv, Dept. of Neurobiology](#)

*Neural coding of long-term memory*