Pain Plasticity Research Group

Biography

Image of Dorsal Root Ganglion labelled by PainBow (Leibowich H., Binshtok Lab)

OUR GROUP IS SEEKING EXCELLENT STUDENTS AND POSTDOCS [1]

Honors and Prizes

2017 - Chair, Jacob and Lena Joels Memorial Foundation Senior Lectureship for Excellence in the Life and Medical Sciences

Research

We are studying the complex mechanisms that underlie the experience of pain with the hope that a better understanding can lead to more successful methods of control and treatment. Our research into the diversity of pain phenomena adopts a multidisciplinary approach; it incorporates novel imaging techniques and electrophysiological, histological and behavioral experiments, to study pain-related mechanisms at the molecular and cellular level, as well as the level of neuronal networks and behavior. It is anticipated that this integrative approach will yield a fundamental understanding of the multidimensional mechanisms involved in the unremitting suffering of pain experienced by so many people. New targets for the treatment of pain will be identified and lead to the development of new pain-specific anesthetic drugs which could eliminate the sensation of pain much more effectively than currently available painkillers.
Fundings

Jacob and Lena Joels Memorial Foundation Senior Lectureship for Excellence in the Life and Medical Sciences

UPCOMING EVENTS

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Studying at ELSC

Our Int'l Ph.D. program provides outstanding students with top-notch courses in computational neuroscience.

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The Building

The Jerusalem Brain Sciences Building will provide a state-of-the-art research and teaching facility for the Edmond and Lily Safra Center for Brain Sciences.

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