



Ben-Gurion University of the Negev

Jacob Blaustein Institutes for Desert Research

The Swiss Institute for Dryland Environmental and Energy Research

Mitrani Department of Desert Ecology

Seminar

Mark Shein-Idelson

The George S. Wise Faculty of Life Sciences,
Tel Aviv University

Tuesday, November 20, 2018, 12:00

Seminar Room, Old Administration Building

Participants are invited to meet the seminar speaker at the MDDE meeting room immediately after the seminar (~ 13:00). Please bring your lunch; snacks will be provided.

From Dragons' Sleep to Sliders' Sight: An Evolutionary Perspective on the Cortex

Throughout the history of neuroscience, a large set of model systems has been used for studying a large variety of neuro-physiological questions. These model systems were frequently chosen for their unique experimental advantages, but studying them also provided a wider perspective on basic questions: By examining the manifestation of a given biological phenomenon across different species, one could separate the salient or fundamental from the transient or variable. In my talk I will focus on how studying reptilian forebrains can shed light on cortical computations and on the evolution of these computations. In particular, I will show what we can learn from turtles about the structure-function relations in neural circuits and what lizards can tell us about the organization of collective neuronal dynamics during sleep and across brain states.