Introduction to Neuroscience: Behavioral Neuroscience

Weizmann Institute of Science

2021-2022, 2nd semester

Coordinator: Nachum Ulanovsky
Core courses at the Weizmann Institute in Brain Sciences: Systems, Computational and Behavioral Neuroscience

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<th>Levels of Analysis of the Nervous System</th>
<th>Four Core Courses in Neuroscience</th>
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<td>Introduction to Neuroscience: Molecular Neuroscience - Genes to Behavior</td>
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Course coordinator: **Nachum Ulanovsky**
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**Course Website** *(will include ALL the presentations):*
www.weizmann.ac.il/brain-sciences/labs/ulanovsky/courses

All lectures will be delivered Physically – unless notified otherwise.

No Video recording of lectures is possible.
Course syllabus (by week)

Characteristics of this course:

• No classical structure to courses in Behavioral Neuroscience (unlike the course in Cellular and synaptic Physiology) – as there is no Grand Theory of Behavior.

• We structured the course based on the Tradeoff between two approaches:
  The Neuroethological approach and the Neuropsychological approach.

(Go over the syllabus)

www.weizmann.ac.il/brain-sciences/labs/ulanovsky/courses
Formalities

• **Grading:** 100% - Final exam (*open material*). NO compulsory reading.
  
  → This year in the exam we will have (i) new sets of questions, and (ii) less choice of questions than in previous years.

• **Bibliography:**

  We will use three main textbooks in this course:

  - *Behavioral Neurobiology*, Carew J. (Sinauer, 2000)
  - *Learning and Behavior*, Bouton M. (Sinauer, 2007)

  Additional material for some of the lectures is covered in the following books:

  - *Sensory Ecology*, Dusenbery D. (Freeman, 1992)