

ŽIVČANI SUSTAV I PONAŠANJE ŽIVOTINJA (Neuroetologija)

Predavanje ([mkv](#) format)

Predavanje ([pdf](#) - otvara se u "full screen" modalitetu)

Dodatak: Topografske osjetilne karte i receptivna polja osjetilnih neurona ([mkv](#), [pdf](#))

Za učenje:

1. Poglavlje "Physiological Analysis: Nerve Cells and Behavior" udžbenika: J. Goodenough, B. McGuire, E. Jakob: "*Perspectives on Animal Behavior, 3rd ed.*" (J. Wiley & Sons, 2010, ISBN 9780470045176)
2. Poglavlje "Neurobiology and Endocrinology for Animal Behaviorists" udžbenika: M. D. Breed, J. Moore: "*Animal Behavior, 2nd ed.*" (Elsevier/Academic Press, 2016, ISBN 9780128015322)
3. Poglavlje „Hormones and Neurobiology“ udžbenika: L. A. Dugatkin: „*Principles of Animal Behavior, 4th ed.*“ (University of Chicago Press, 2020, ISBN 9780393922332)

Radovi:

"Neuroethology Survival Kit" može se skinuti [odavde](#).

Neke istraživačke skupine:

Kenneth Catania - <https://as.vanderbilt.edu/biosci/bio/kenneth-catania>

William Conner - <http://biology.wfu.edu/faculty-research/william-conner/>

Michael Yartsev - <https://www.michaelyartsev.com/>

Cynthia Moss - <https://pbs.jhu.edu/directory/cynthia-moss/>

Michael Markham - <http://www.ou.edu/cas/biology/people/faculty/michael-markham>

Gallant Jason - <https://integrativebiology.natsci.msu.edu/about/directory/gallant-jason/>

Bruce Carlson - <https://artsci.wustl.edu/faculty-staff/bruce-carlson>

Andrew Bass - <https://nbb.cornell.edu/andrew-bass>

Manfred Gahr - https://www.orn.mpg.de/2542/Department_Gahr

Malcolm Burrows - <https://www.zoo.cam.ac.uk/research/neurobiology-biomechanics-and-behaviour/insect-neurobiology>

Pojmovi s predavanja:

<https://en.wikipedia.org/wiki/Neuroethology>

https://en.wikipedia.org/wiki/Primary_somatosensory_cortex

https://en.wikipedia.org/wiki/Sensory_maps

https://en.wikipedia.org/wiki/Cortical_homunculus

https://en.wikipedia.org/wiki/Receptive_field

<https://en.wikipedia.org/wiki/Electroreception>

https://en.wikipedia.org/wiki/Ampullae_of_Lorenzini

[https://en.wikipedia.org/wiki/Electric_organ_\(biology\)](https://en.wikipedia.org/wiki/Electric_organ_(biology))

https://en.wikipedia.org/wiki/Animal_echolocation

https://en.wikipedia.org/wiki/Echolocation_jamming

https://en.wikipedia.org/wiki/Sound_localization

https://en.wikipedia.org/wiki/Coincidence_detection_in_neurobiology

Životinje spomenute u predavanju:

https://en.wikipedia.org/wiki/Star-nosed_mole
https://en.wikipedia.org/wiki/Naked_mole-rat
<https://en.wikipedia.org/wiki/Aplysia>
https://en.wikipedia.org/wiki/California_sea_hare
https://en.wikipedia.org/wiki/Electric_fish
https://en.wikipedia.org/wiki/Marbled_electric_ray
https://en.wikipedia.org/wiki/Electric_catfish
https://en.wikipedia.org/wiki/Electric_eel
https://en.wikipedia.org/wiki/Astroscopus_guttatus
https://en.wikipedia.org/wiki/Peters%27_elephantnose_fish
https://en.wikipedia.org/wiki/Blue_shark
https://en.wikipedia.org/wiki/Great_white_shark
https://en.wikipedia.org/wiki/Tiger_shark
https://en.wikipedia.org/wiki/Small-spotted_catshark
https://en.wikipedia.org/wiki/Little_skate
<https://en.wikipedia.org/wiki/Platypus>
https://en.wikipedia.org/wiki/Common_toad
https://en.wikipedia.org/wiki/Greater_horseshoe_bat
https://en.wikipedia.org/wiki/Bertholdia_trigona
https://en.wikipedia.org/wiki/Barn_owl

Edukacijski filmovi:

1. „Image Processing in the Visual system in the Common Toad“ ([avi](#))
2. „Gestalt Perception in the Common Toad - 1. Innate Prey Recognition“ ([avi](#))
3. „Gestalt Perception in the Common Toad - 2. Modification of Prey Recognition by Learning“ ([avi](#))

Za one koji žele znati više:

G. K. H. Zupanc: "Behavioral Neurobiology: An Integrative Approach, 3rd ed.", Oxford University Press, 2018, ISBN: 9780198738725 ([poveznica](#)) (pristupljeno 4.4.2021.)

P. Simmons: "Nerve Cells and Animal Behaviour, 3rd ed.", Cambridge University Press, 2010, ISBN: 9780521728485 ([poveznica](#)) (pristupljeno 4.4.2021.)

T. J. Carew: "Behavioral Neurobiology", Sinauer Associates, 2005, ISBN: 9780878930845 ([poveznica](#)) (pristupljeno 4.4.2021.)

K. D. Roeder: "Nerve Cells and Insect Behavior", Harvard University Press, 1998, ISBN: 9780674608016 ([poveznica](#)) (pristupljeno 4.4.2021.)

Upozorenje: Razumijevanje neuroetologije, zahtjeva dobro znanje iz opće i osjetilne neurofiziologije!