

ZOO 321: NEUROPHYSIOLOGY (CLUSTER B: LIFE PROCESSES)

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Dr. Shanti N. Dessai

Announcements

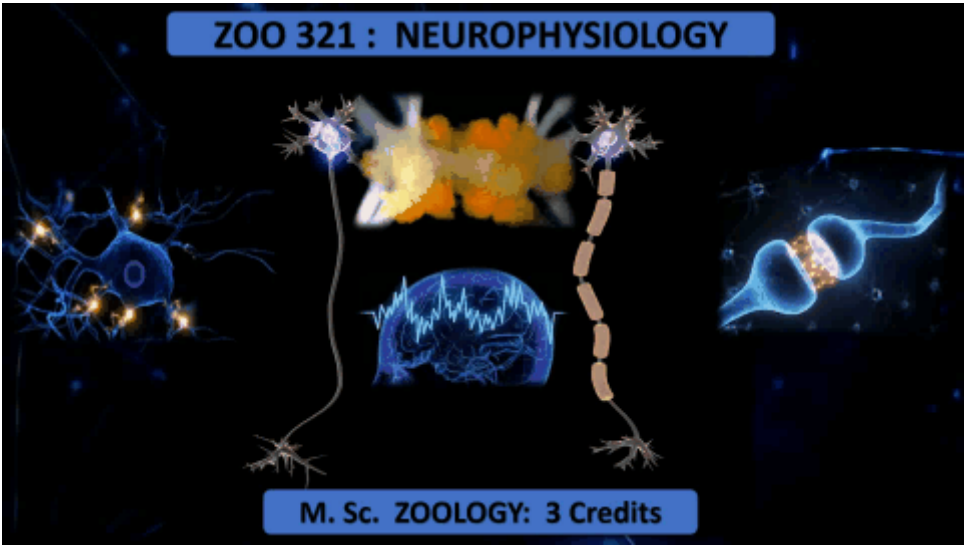
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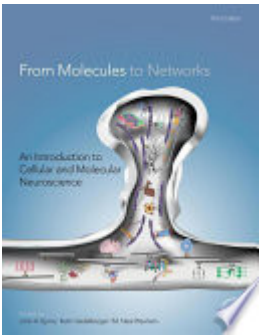
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 [BOOKS](#)

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 [From Molecules to Networks: An Introduction to Cellular and Molecular ... edited by John H. Byrne, Ruth Heidelberg, M. Neal Waxham](#) 

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 [Neuroscience, 2nd edition Editors: Dale Purves, George J Augustine, David Fitzpatrick, Lawrence C Katz, Anthony-Samuel LaMantia, James O McNamara, and S Mark Williams.](#) 

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 [Neuroscience books folder](#) 

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[Module 1](#)

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Review of classification of neurons and their functions. Blood brain barrier and its physiological importance, CSF composition, formation and drainage. Physiological characteristics of neuronal cell membrane components for impulse conduction. Electrophysiology of neuron. Comparison of action potentials of Giant axon of Squid and mammalian neuron, Voltage and Cell-Patch Clamp Techniques. Myelin ultrastructure and Nodes of Ranvier, Nerve impulse conduction in Myelinated and Unmyelinated neurons.

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Review of classification of neurons and their functions.

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Blood brain barrier and its physiological importance, CSF composition, formation and drainage.

- [Lecture 2 video Part 3 continued with lecture 3 video part 1](#)
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Physiological characteristics of neuronal cell membrane components for impulse conduction.

- [Lecture 3 video part 4 continued with lecture 4 part 1](#)
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- [Lecture 4 video part 2](#)
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- [Lecture 5 part 1](#)
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Electrophysiology of Neuron

- [Lecture 5 part 1](#)
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- [Lecture 5 part 2](#)
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Comparison of action potentials of Giant axon of Squid and mammalian neuron

- [Lecture 5 part 2](#)
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Voltage and Cell-Patch Clamp Techniques

- [Lecture 6 video part 1](#)
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[Module 2](#)

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Types of synaptic connection and their conduction physiology: Axosomatic, axodendritic, Dendro-dendritic and Axo-axonal synapses. Chemical and electrical synapse. Axonal impulse conduction-excitatory and inhibitory synaptic transmission. Properties of Synapse. Effect of Acidosis & Alkalosis, Effect of Hypoxia on Synaptic Transmission, Effect of Narcotic drugs on Synaptic Transmission. Basic concept of Neural integration: Diverging, Converging and Reverberating circuits.

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[Module 3](#)

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Learning and Memory types and its Neural and Cellular basis in Aplysia, Drosophila, Honey bee and Humans. Cognition and its major domains. Mechanoreception, Photoreception, Chemoreception. Neurophysiology of Balance and Posture.

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[Experiment 1 learning and memory_pdf 1 on snail experiment](#)
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