

## TopHat Question Formats

### WHAT IS TOPHAT?

TopHat is our Audience Response System (ARS). Students can answer questions live in the classroom or remotely from wherever they are watching. The questions administered to students via TopHat are referred to as ARS questions.

### HOW DO WE ADD TOPHAT QUESTIONS FOR OUR COURSE?

We will take care of putting your questions into the TopHat system. You can put your questions into your PowerPoint where they would naturally occur during your session (answers should be put in the *notes section*, not on the slide). Indicate which slides have ARS questions when you send materials to the coordinator. Please allow sufficient time to enter questions into TopHat!

### QUESTION FORMATS:

*Multiple Choice Question* – normal multiple-choice question. Consider using a different format!

Include question stem and option choices.

Example: Which component of a neuron typically releases neurotransmitters?

- A. Axon
- B. Axon terminal
- C. Dendrite
- D. Nissl body
- E. Soma

*Word Answer* – students enter 1-2 words in response to a free-response question. Answers are displayed as a bar graph or as a word cloud where the more frequent a response, the larger the word appears.

Ask a question that can be answered in 1-2 words (or a very short phrase)

Example: Which component of a neuron typically releases neurotransmitters?

Answer: student types in “axon terminal”

*Fill in the Blank* – students enter words to complete a sentence. May have multiple blanks.

Write a sentence for completion, incorporating one or more blanks.

Example: Action potentials are carried down the length of the \_\_\_\_\_, ultimately signaling release of neurotransmitters from the \_\_\_\_\_.

Answer: axon; axon terminal

**Matching** – Match items in one category with items in another category

Provide basic directions. Have several components in each category. Indicate which components should be matched with which other component (ie please indicate correct pairings).

*Example: Match the part of a neuron with its function*

<u>Part of Neuron</u>		<u>Function</u>
Axon	---	conduct action potentials away from cell body
Dendrite	---	typically receptive site of synapse
Initial segment	---	location where action potential is generated
Axon terminal	---	often site of neurotransmitter release

**Click on Target** – identify part of an image. Students tap on a part of an image (sometimes referred to as “hot spot” questions). Great for histology, pathology, radiology!

Include the image you want students to use for identification. Prompt them to click on something in particular. Include circles around correct spots. Student answers will be displayed as a heat map, where commonly selected areas are more red and less common areas are more blue.

*Example: Radiograph following an injury. “Identify (tap on) the site of fracture in this image”*

**Sorting** – this type of question has students rank, sort, or put concepts in order. Great for reviewing stages in a multi-step process!

Include steps to be sorted, please put in the correct order or indicate the correct order in the notes section of the slide (TopHat will shuffle them for the students).

*Example: How does a red blood cell get from the left ventricle of the heart to the spleen?*

*Answer: Thoracic aorta -->  
Abdominal Aorta -->  
Celiac trunk -->  
Splenic a. -->  
Spleen*