Word Search created by Zara Salem and Halle Salem

W B I J N E Y S G V F X K Q N W A O V I
Z U W F R D W D E L D F S Z A V G G P Z
F H D T Z D L N H I O W C S O R I N U D
T H G I L S I S U D L W Z X T F E M T I
L F K C L P I E E F L F W F P U P O I E
P C H Y W F H I M S L Q E O C F H P Z O
N K N K Y U I W A Y D X T R R M R D V F
U D K L H K Z U H A J A U I I M J N Z Z
Z F L Q X O T L O T A S G P O F Y V X O
L E A N Q U P E S Z C D U V R D Q O A S
J C H E M I S T R Y E O L D E P Z L U L
O M K N X B J Z N F W C U S D D H L N L
D V X W K R T N A F P A B B K I A I I U
F H B W Q K T B L V R R C K P H G P N W
A W K C X R D W X W E T A B Z E H Y Z R
A T O R T L A C M W D S L C T O G X C W
E S A R E F I C U L A O U S T R G J Y H
A U D T U X J K D K T N C O Q M W U S Y
P G L R D Z S Z E H O Q N P H B E U T D
A L K K S Y B A E V R Z W C W P E C L N

CHEMISTRY
FIREFLIES
GLOWWORM
JELLYFISH
LIGHT
LUCIFERASE
OSTRACODS
PHOTON
PREDATOR

Ant ~ 5 mm

P. fusiformis ~ 0.8 mm

L. polyedra ~ 0.05 mm

Dinoflagellates are tiny!

bioluminescencehub.org
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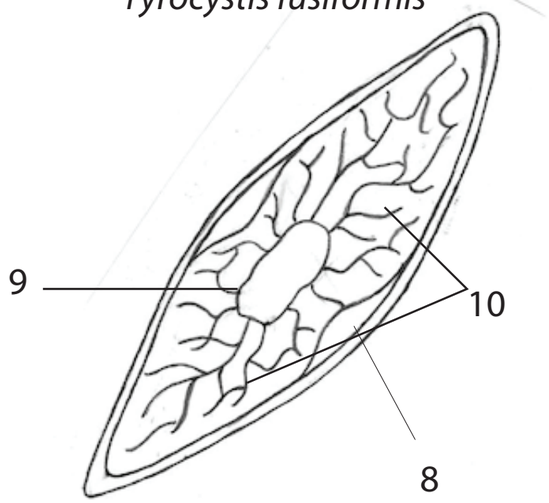
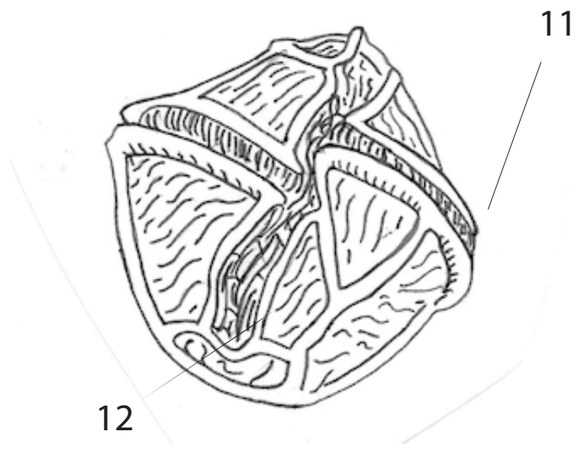
Pyrocystis fusiformis



Lingulodinium polyedra



The professor _____ walked into the lab. His _____ called _____, _____, and _____
Adverb **Plural noun** **Name 1** **Name 2** **Name 3**

scurried about their _____ cage upon his arrival. He _____ed over to them smiling. "Today is
Adjective **Verb**

the day we make your _____ brains glow _____! You won't _____ a _____!" The construct
Adjective **Color** **Verb** **Noun**

prepared beforehand was _____ ready for injection. "I'm ready,"_____ said, "I want to _____ my
Adverb **Name 1** **Verb**

brain glow _____!" Professor Moore held _____ in his hand, and gently injected the luciferin. "Now we
Color **Name 1**

wait!" the professor said to _____ and _____, watching in _____. " _____!" said
Name 3 **Name 2** **Emotion** **Exclamation**

_____ while chewing on a piece of _____. "I hope it works!" _____ said while
Name 2 **Noun** **Name 3**

_____ing his cheese. The professor _____ed the electrode. "_____! The luciferin seems to
Verb **Verb** **Exclamation**

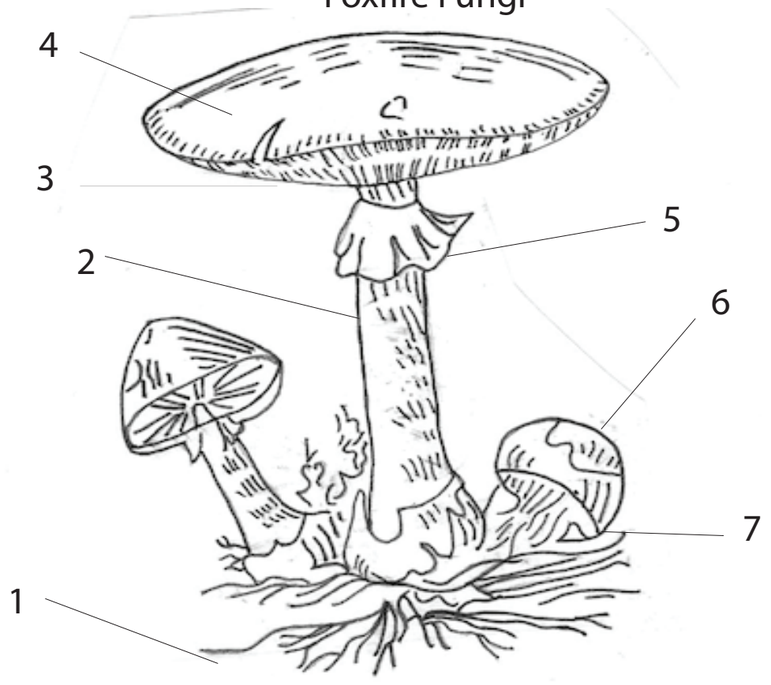
have found the target luciferase! The _____ brain, it glows _____!" Next, using electrophysiology,
Adjective **Color**

the _____ professor noticed a particular neuron was _____ing more than usual. "This is
Adjective **Verb**

_____! This construct might cause excitation in your _____ brains!" the professor said to his
Adjective **Adjective**

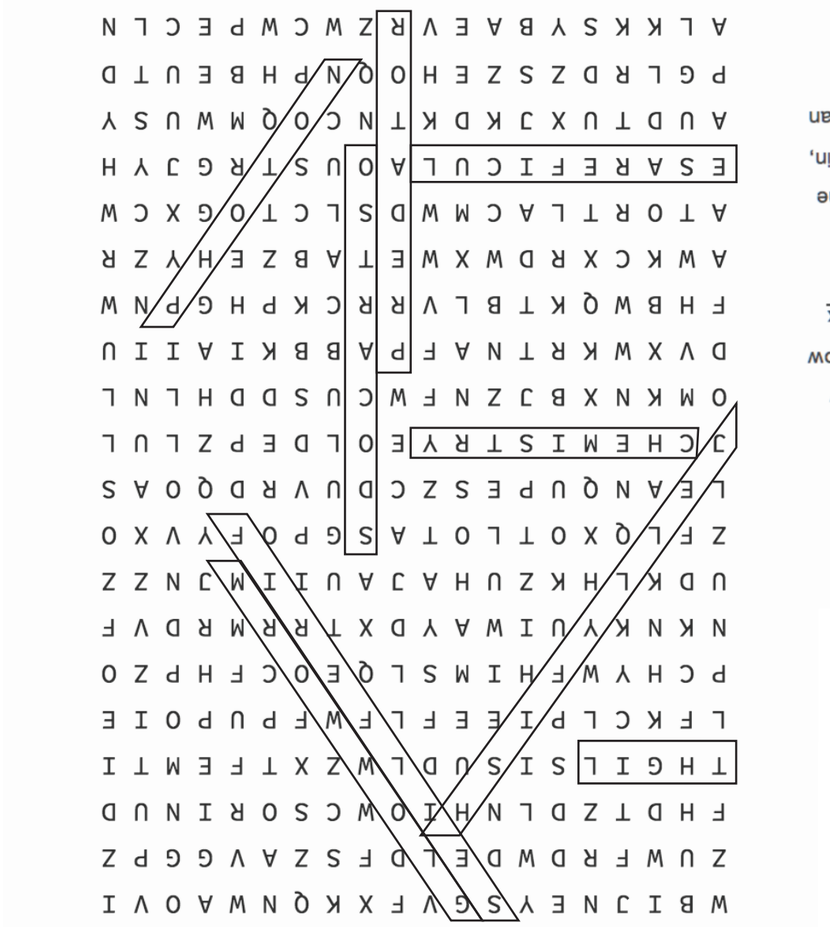
_____. "Eureka!"
Plural Noun

Foxfire Fungi



1. Mycelium
2. Stem
3. Gills
4. Cap
5. Ring
6. Veil
7. Volva (sack)
8. Cytoplasm
9. Nucleus
10. Mass (Net)
11. Cingulum
12. Sulcus

Created by Rebecca Berger-Gutierrez



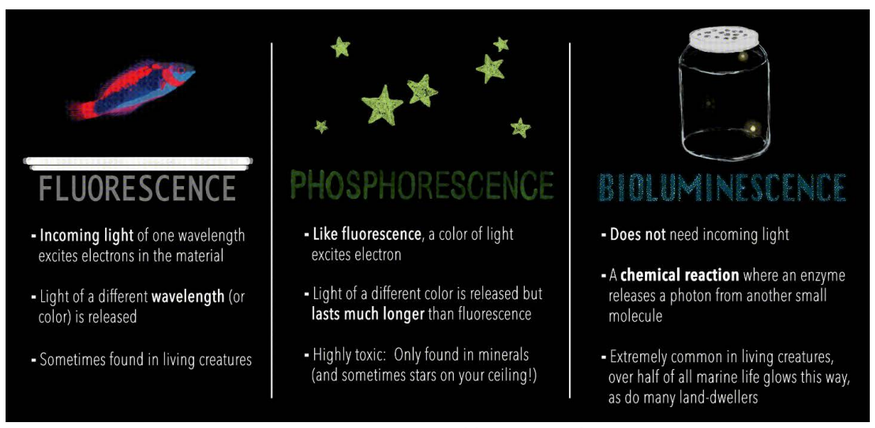


Figure created by Raisa Khan

Mad Lib Key

The Professor's Glowing Brains

The professor **happily** walked into the lab. The **mice** called **Max**, **Michelle**, and **Michael** scurried about their **cozy** cage upon his arrival. The professor **walked** over to them **smiling**. "Today is the day we make your **little** brains glow **blue**! You won't **feel** a **tingl**" The substrate prepared beforehand was **finally** ready for injection. "I'm ready," **Max** said, "I want to **see** my brain glow **blue**!" Professor Moore held **Max** in his hand, and gently injected the luciferin. "Now we wait!" the professor said to **Michael** and **Michelle**, watching in **disbelief**. "**Oh boy**!" said **Michael** while chewing on a piece of **wire**. "I hope it works!" **Michelle** said while **eating** some cheese. The professor **grabbed** the charge-coupled device camera. "**Wonderful**! The luciferin seems to have found the target luciferase! The **little** brain, it glows **blue**!" Next, using electrophysiology, the **thrilled** professor noticed a particular neuron was **firing** more than usual. "This is **amazing**! This construct might cause excitation in your **tiny** brains!" the professor said to his **mice**.

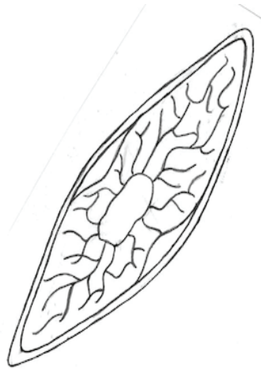
"Eureka!"

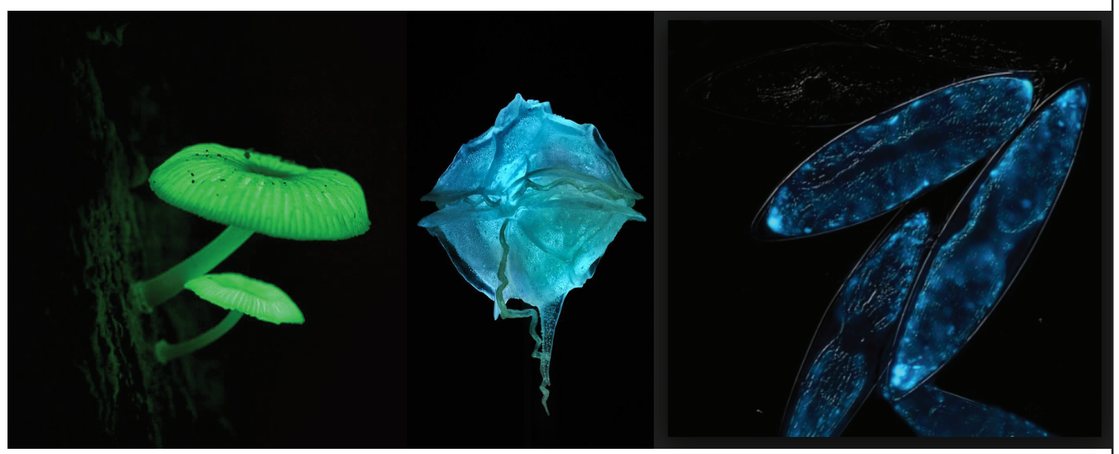
FOLD HERE

Which Part Glows?!

In the fungus you saw at our booth, the mycelium is the bioluminescent tissue (1). In some species, the fruiting body is bioluminescent (below).

Dinoflagellates produce bioluminescence in small structures called scintillions in their cytoplasm.





Adverb _____

Plural Noun _____

Name 1 _____

Name 2 _____

Name 3 _____

Adjective _____

Verb _____

Adjective _____

Color _____

Verb _____

Noun _____

Adverb _____

Verb _____

Color _____

Noun _____

Exclamation _____

Noun _____

Verb _____

Verb _____

Exclamation _____

Adjective _____

Color _____

Adjective _____

Verb _____

Adjective _____

Adjective _____

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