**VIDEO GUIDE FOR BOZEMAN BIOLOGY – EVOLUTIONARY SIGNIFICANCE OF CELL COMMUNICATION**

1. Explain the relationship between the bobtail squid and the *Vibrio fischeri* bacteria (what is the benefit for each species?)
2. Generally, unicellular organisms use cell signaling to sense their \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, while multicellular organisms use it for cell \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. However, the signal transduction pathways are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. Explain how quorum sensing in bacteria use cell signaling to produce a glow.
4. How does the release of epinephrine induce the fight or flight response in the liver?
5. How are the signaling pathways in #3 and #4 similar?