Cool Science Careers, Imagine Yourself: NEUROBIOLOGY

**Otto Loewi’s frog heart experiment (station on the right)**

1. List one example of a neurotransmitter:
   *Serotonin, dopamine, noradrenaline, or acetylcholine*

2. What is the name of the nerve that causes the heart to slow down?
   *Vagus nerve.*

3. What did the experiment demonstrate?
   *The experiment showed that nerve signals are both electrical and chemical.*

**Animal behavior experiment (station on the left)**

4. In this experiment, the mouse covers the electric prod with bedding material. What is the name of this behavior?
   *Burying behavior.*

5. After toluene exposure, was the burying behavior decreased or increased?
   *Decreased*

6. The average cumulative burying behavior for toluene-exposed mice was **29.2** sec.

**Career information (bulletin board)**

7. What characteristics of the nervous system might be of interest to a neurobiologist?
   *How it develops, which genes play a role in its development and maintenance, or what diseases affect it.*

8. In what setting do neurobiologists typically work?
   *In a laboratory.*

9. What skills do neurobiologists need to design new experiments?
   *Creativity and imagination.*

10. List one example career you can do with a degree in neurobiology:
    *Biological technician, technical writer, or neurobiology researcher*