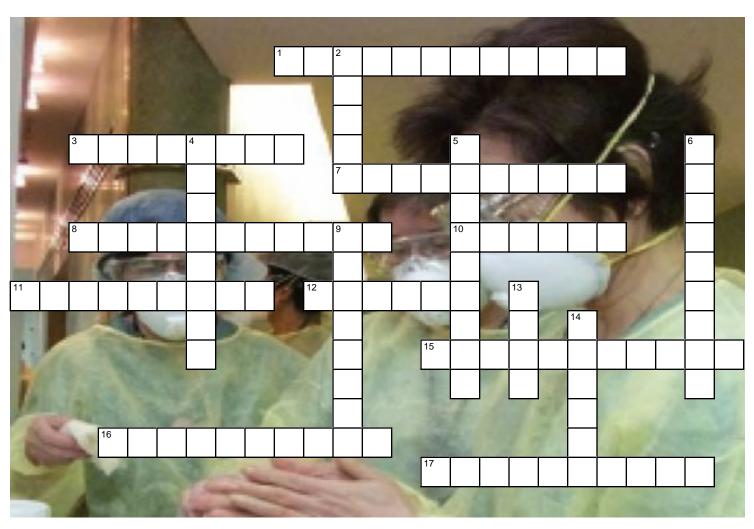
3.3 The Impact of Research in Cell Biology

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Across

- 1. Cell biologists continue to work to solve key problems relating to _____ the cells in spinal tissue that transmit nerve impulses.
- Some people feel that research testing on live animals is _____ and should be stopped.
- Damage that severs the _____ results in a loss of both information from the senses and the means of instructing the muscles to move.
- 8. Cell biologists have changed plants to increase their _____ value.
- 10. ____ cells are continually reproducing but are otherwise nonfunctional.
- 11. Human cells are not the most plentiful cells in your body, _____ cells are.
- 12. _____ is a disease related to the uncontrolled and rapid reproduction of cells through cell division.
- 15. As early as the 1500s, public officials tried to stop the spread of infectious disease through the use of _____, which are publicly enforced periods of isolation of individuals who had or might have had certain illnesses.
- 16. Improved understanding of cellular processes requires improved _____ for studying cells.
- 17. Researchers have found ways to modify plant cells in order to improve an organism's _____ to insects and the chemicals that are used to kill weeds, rodents and bugs.

Down

- 2. The bobtail squid _____ because a living colony of a special type of bacteria have nestled in its light organ.
- Some countries have banned the import of grains and other foods that have been _____ scientifically.
- Staphylococcus aureus is a common _____ that lives in many places including on human skin and in nostrils. It can cause serious infection if it enters the body.
- 6. If the spinal cord is severed in the neck area all four limbs can be
- The challenge for researchers in cell biology and in related fields is to know how bacteria and viruses are _____ to create new infectious diseases.
- 13. Once the transmission of the respiratory disease _____ was understood, staff treating these patients were given a variety of protective gear (seen in the puzzle background photograph) and they adopted practices in order to prevent the spread of the disease.
- 14. Researchers have recently solved some of the mysteries related to diseases such as West Nile virus and Lyme disease, which are transmitted to humans through _____ bites.