1. What is the difference between a transgenic rodent and a knockout rodent?
2. “Recently, the mouse and rat genomes were \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. This achievement promises to significantly advance biomedicine.”
3. SCID mice are born without which structure(s)? What does this help us study?
4. What is now being tested as a result of studies regarding Alzheimer’s Disease?
5. Cancer-resistant mice have been genetically altered to not allow what protein, which is typically found in high amounts with patients with breast cancer?
6. What is cystic fibrosis?
7. Why are dogs used when studying diabetes?
8. What is narcolepsy?
9. What have scientists found in their research on blindness in dogs?
10. Why is the rabbit model so important for studying the effects of anthrax inhalation?
11. Why are woodchucks being used to study Hepatitis B?
12. In addition to cardiac research, what other process is studied in pigs because of the similar nature to human response?
13. Name 4 types of orthopedic research that has been done on sheep
14. What marine animals are used in neurobiological studies?
15. What causes human malaria?
16. What group of animals is great for studying the connection between oral infection and systemic disease?
17. What impact have long-term studies on calorie restriction had in macaques?
18. Scientists have shown that grafting modified cells that produce what substance enhances the survival and function of cholinergic nerve cells? This research has also been extended to human trials in an attempt to limit memory loss associated with what disease?
19. Recently, scientists have discovered a new method to deliver a gene that produces GLNF directly into the brains of monkeys. What was the result of this research?