



*Zebrafish is a popular laboratory animal choice for genetic studies, developmental biology, and disease modeling.*

Worksheet

5

# Advances in Hematology

Name: \_\_\_\_\_

Class/Period: \_\_\_\_\_

## Instructions:

1. Conduct research on the use of model organisms in biology. Use the suggested references below, your course textbook, and any additional resources you find.
2. Answer the questions below based on your research.

## Analysis Questions:

1. What is a model organism?
2. What characteristics are most useful in a model organism?
3. For what processes do scientists specifically use zebrafish as models?
4. What processes are similar between humans and zebrafish?
5. What model organisms are used most commonly for studies of human immunity? Why?
6. How is it possible for organisms as diverse as yeast, zebrafish, worms, and mice to be used as models of human functions and diseases? Explain.

## Suggested References:

[www.bio.miami.edu/~cmallery/150/special/model\\_organisms.htm](http://www.bio.miami.edu/~cmallery/150/special/model_organisms.htm)

[www.bio.miami.edu/~cmallery/150/special/scientist.models.pdf](http://www.bio.miami.edu/~cmallery/150/special/scientist.models.pdf)