

## General Biology Exercise 1b

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Prepare an answer to the following question before the next class. Be able to discuss this question both in a small group and with the entire class.

Over the past ten years, some people have suggested that certain germs cause obesity. Imagine that you have isolated a bacterium (we'll call it *Biologia misericordia*) that you believe causes obesity. Design an experiment to determine if your observations have been correct. For the purposes of this experiment, let's assume that the bacteria grows inside rats.

In other words, tell me your question, your testable hypothesis, and your prediction. Describe the control and experimental groups in the experiment and how they vary. Finally, describe **at least three** possible outcomes of the experiment and whether they falsify or support your hypothesis.