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Reporting Scientific Data

You will be provided a copy of the following journal article:

Tweeten, Kay A., and Amy Anderson. 2008. Analysis of cell proliferation and migration during regeneration in *Lumbriculus variegatus* (Clitellata: Lumbriculidae). *Bios* 79(4):183-190

Read the article carefully and answer the questions below. *Your answers must be in your own words.* Do not copy text word-for-word from the article in order to complete this assignment.

Introduction

What is the **question** being asked by the investigators?

Why is this question important?

According to the authors, what makes this study unique?

What hypotheses are being tested?

Why was BrdU used to stain the cells?

Methods

The researchers applied several chemicals to observe the effects on regenerating worms. For each chemical used, list the associated prediction:

Mitosis blockers:

- Colchicine

- Vinblastine

Cell migration blockers:

- Locostatin

- Laturunculin B

What are the independent variables in this study?

What are the dependent (response) variables?

What was the sample size for each treatment?

Results

What were the effects of colchicine and vinblastine on regeneration?

What were the effects of locostatin and latrunculin on regeneration?

Discussion

Which hypotheses and predictions were supported by the results?

What do the authors conclude about regeneration in *Lumbriculus variegatus*?

How are the results of this paper related to other studies?

Provide at least one question that was either generated or left unanswered by this study.