

Laboratory Animal Models - Conceptual Study

Experiment 2 - Practical Notes

Name: _____ Roll no.: _____ Date: _____

Aim

To understand and record the stated experimental-pharmacology concept.

Principle

Species and model characteristics affect the interpretation of experimental results; this activity uses pictures and virtual records.

Key Points

- Identify mouse, rat, guinea pig and rabbit from teaching images.
- Record species, model objective and limits of extrapolation to humans.
- No animals are used for these student experiment activities.

Activity Procedure

1. Identify

Label the four species in the supplied picture set.

2. Compare

Discuss size, general biological characteristics and model selection at a conceptual level.

3. Review ethics

Identify why alternatives, welfare and experimental validity matter.

4. Record

Complete a comparison chart and explain a model limitation.

Record and Observations

Field	Teaching record
Model / instrument / route	_____
Endpoint / units	_____
Relevant control	_____
Interpretation / limitation	_____

Result

The concept was explained and the teaching record completed. Key finding: _____. Limitation: _____.

Viva Questions and Answers

1. Does a model predict every human response?

No; species and experimental conditions affect transferability.

2. Why choose a model carefully?

Its measurable endpoint must fit the scientific question.

3. What material is used here?

Images, software and supplied records.

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