1638 RS of Animal Research

Promoting Animal Welfare and Guiding Scientists in the Ethical Conduct of Research

EPLACEMENT

Replacing conscious, living vertebrates with cell or tissue cultures, computer models, simulation models, and/or less-developed animal species.

Examples: Replacing rodents with zebrafish or fruit flies to study the effects of genetic mutation; learning a surgical technique using a simulator.

EDUCTION

Using the fewest number of animals possible in a research project to gain valid results.

Examples: Searching the literature and consulting with colleagues to ensure that experiments are not duplicated; relying on statistics to use neither too many, nor too few, animals in a study.

EFINEMENT

Using any technique or procedure that minimizes distress or enriches the life of an animal used in research.

Examples: Providing appropriate nesting materials and environmental enrichment for caged mice; using non-invasive methods when possible; knowing and using the best type of post-surgery medicines for a particular animal.

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