

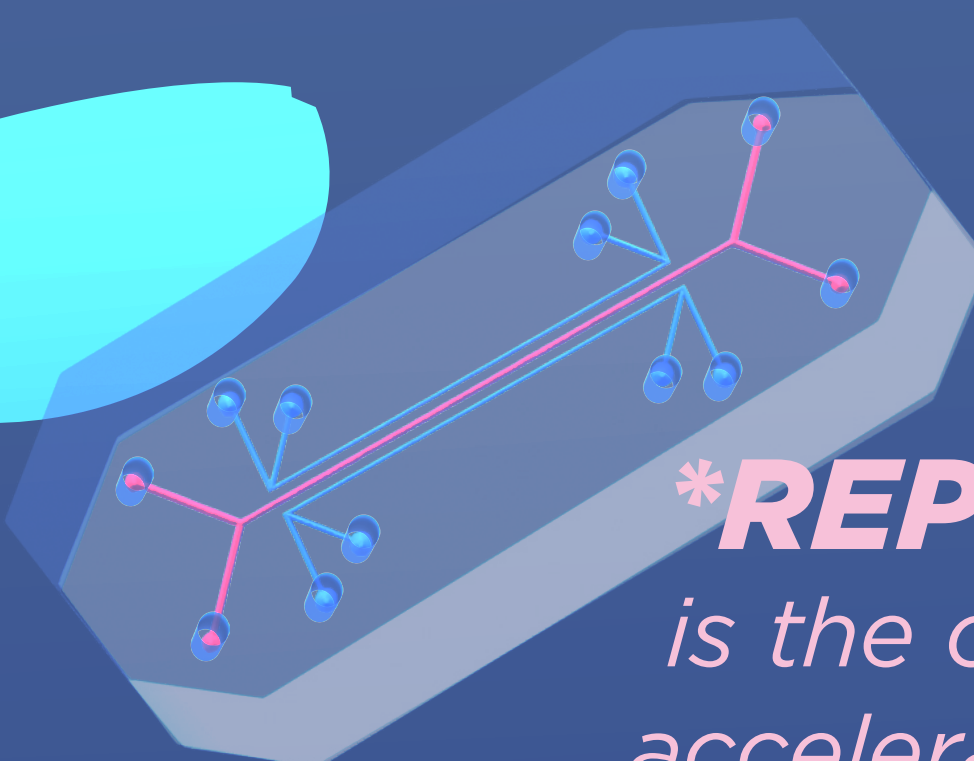


NIH ANIMAL AWARENESS

THE 3RS

*Concepts
Guiding
the Ethical
Use of
Animals in
Research*

REPLACEMENT* • REDUCTION • REFINEMENT



***REPLACEMENT**

is the concept of accelerating the development and use of technologies such as organoids, microorganisms, and microphysiological systems (like the organ-on-a-chip, depicted) that have the potential to replace or complement the use of animals in research.



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