Application of U.S. Strategic Roadmap ... and How the North American 3R's Collaborative May Help

SCIENTIFIC ADVISORY COMMITTEE ON ALTERNATIVE TOXICOLOGICAL METHODS

National Institutes of Health, Bethesda, MD

September 18-19, 2017

Norman C Peterson, DVM, PhD, DACLAM secratary@na3rsc.org

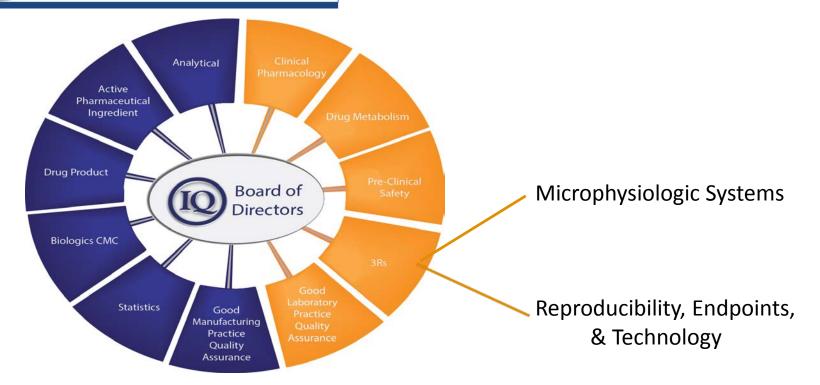
3Rs Organizations in NA Can Help – Refinement & Communication

 Roadmap is heavy on Reduction and Replacement, but what about Refinement?



 Strategic Road Map Outline - "Develop mechanisms to improve communication between end-users and researchers."

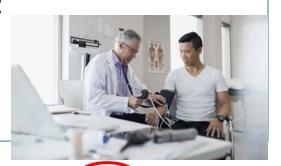
THE NORTH AMERICAN
3RS COLLABORATIVE



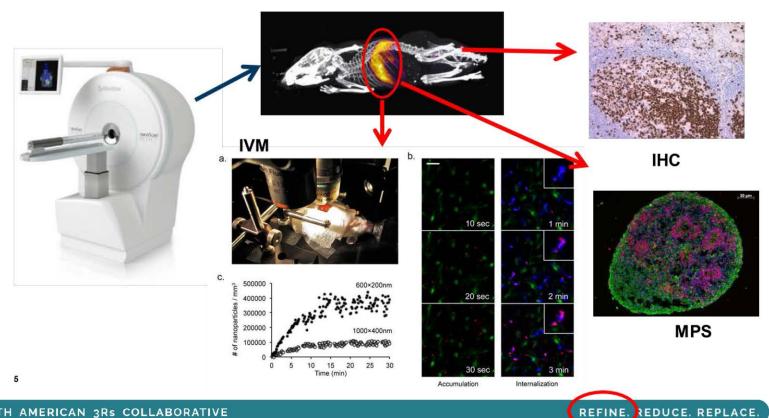
Refinement's Place in the Roadmap to New Approaches in Toxicology Research and Studies

- Depression / Morbidity / Death
- Clinical Pathology (Liver Enzymes, Renal Chemistry, Hematology)
- Limited Physiologic Parameters (EKG, Ophthalmology)

- Better or Surrogate Endpoints = Refinement
 - Biomarkers
 - Behavior
 - Physiology



New Approaches In Toxicology



Strategic Road Map Outline

"Develop mechanisms to improve communication between end-users and researchers."

THE NORTH AMERICAN 3Rs COLLABORATIVE

REFINE. REDUCE. REPLACE.

ADVANCING SCIENCE, INNOVATION AND WELFARE THROUGH SHARING

What is the NA3RsC?

Mission/Statement of Purpose

- The mission of the NA3RsC is to advance the science of the 3Rs replacing, reducing and refining the use of animals in research.
- Our strategy includes:
 - Raising awareness of current 3Rs technologies and approaches
 - Fostering networks and collaborations focused on the 3Rs
 - Acting as a clearinghouse for information on the 3Rs
- To do this we work across the scientific community with researchers from academia and industry, veterinarians and animal care staff, policy makers, regulators and funders.

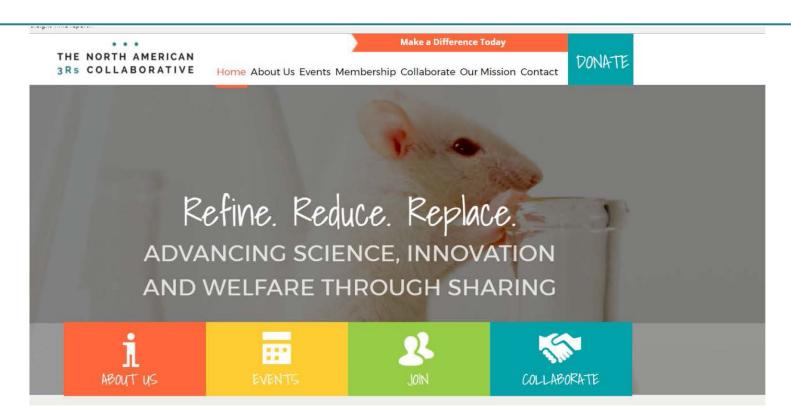
Collaborative not Competitive!

Building a virtual 3Rs community...

A Dynamic, Interactive, and Evolving Community

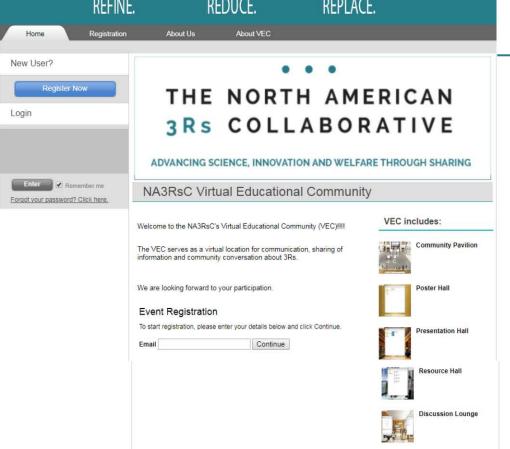
- Theater to present educational symposiums live
- 3Rs community pavilion
 - (a resource hub / portal to all North American 3Rs communities who participate)
 - Links to useful information
- Platform to discuss and solve topical issues

Website

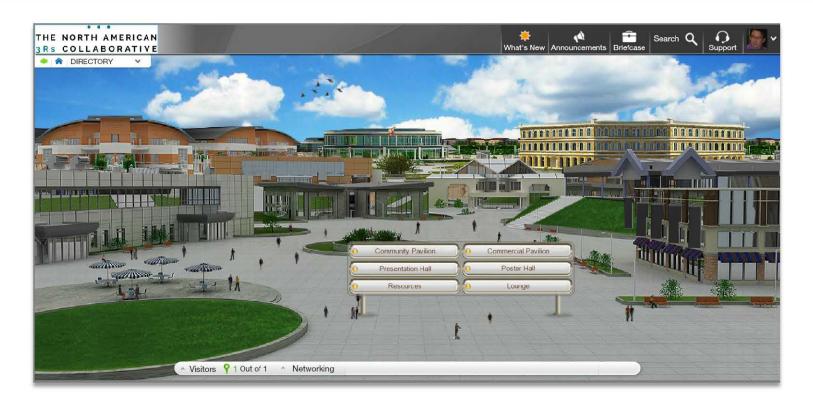




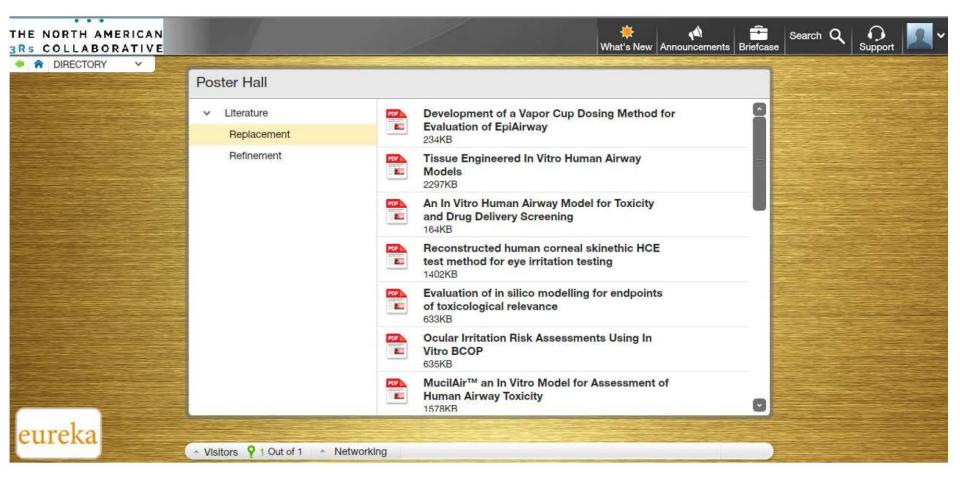
Virtual Education Community

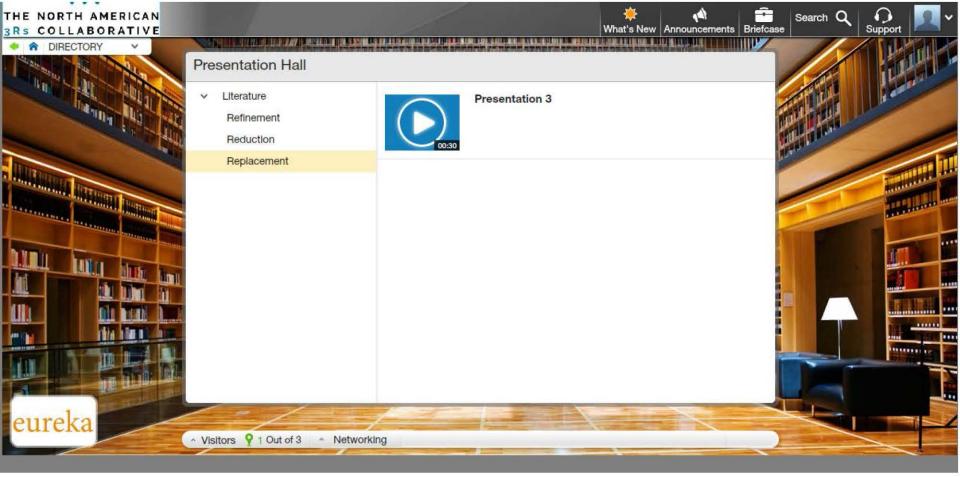


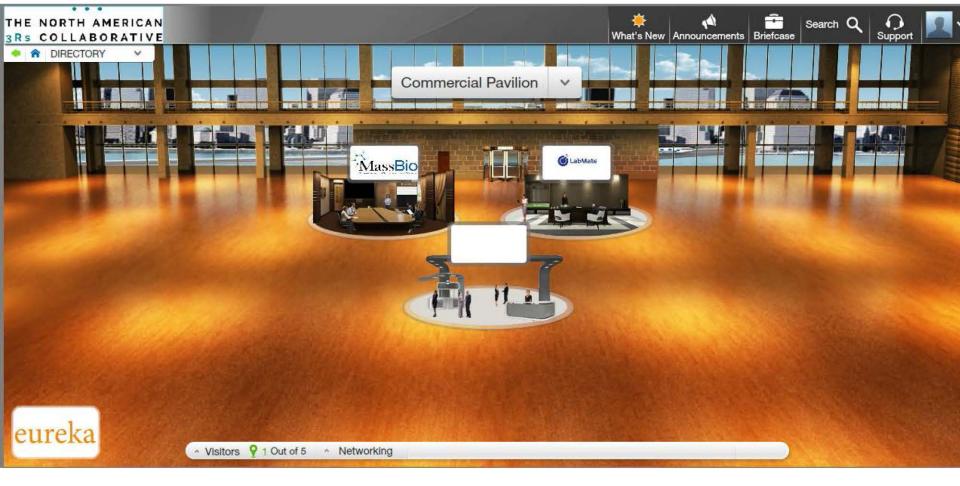
Welcome to our community...











THE NORTH AMERICAN 3Rs COLLABORATIVE

REFINE. REDUCE. REPLACE.

ADVANCING SCIENCE, INNOVATION AND WELFARE THROUGH SHARING

http://www.na3rsc.org/ secretary@na3rsc.org