Working with biohazardous materials in an accelerator laboratory; developing a lab to achieve compliance in the US

Robin Broussard(a), Naresh Deoli(b), Armin de Vera(b) and Harry J. Whitlow(b)

(a)Office of the Vice President for Research Innovation and Economic Development
University of Louisiana at Lafayette,
PO Box
Lafayette LA 70504, USA

(b)Louisiana Accelerator Center and Department of Physics
University of Louisiana at Lafayette,
PO Box
Lafayette LA 70504, USA

Corresponding author: Robin Broussard

e-mail robin.schneider-broussard@louisiana.edu

There is an increasing application of accelerators that were previously used for materials and nuclear science into agricultural, archeological, biological and biomedical fields. This extension brings with it the need to deal not just with the physical needs such as laminar-flow biosafety workstations to protect samples from infection but also ensure compliance with ethical rules and regulations, as well as, keeping personnel safe.

Accelerator facilities expanding to include work utilizing animals, tissues, cell lines, bacteria or viruses need to carefully consider the needs of live research items, the inherent risks, and the regulatory requirements. An overview of these items from a US perspective will be discussed and lists of resources will be provided to assist with identifying the resources and needed approvals in your institutions.