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	<b>Safety and Operator Training</b> Location: Preclinical Imaging Research Centre, Room 3232	

## 1. Introduction

- 1.1. Robarts Preclinical Imaging Research Centre (“PIRC”), located on the third floor of the Robarts Research Institute, houses specialized Micro-Ultrasound (Micro-US), IVIS Bioluminescence (BLI) and Fluorescence imaging system, and Micro-Computed Tomography (Micro-CT) equipment for high resolution ex vivo imaging of biological specimens, and in vivo imaging of small animals. This core Robarts Facility was designed for use by Robarts scientists, collaborating investigators and key industry partners.
- 1.2. X-Ray equipment, if not properly used, may cause injury. The GE eXplore Locus, Locus SP and Locus Ultra imaging systems utilize radiation emitting x-ray sources and comply with US and Canadian x-ray standards.
- 1.3. Use of the Locus, Locus RS, and Locus Ultra scanners are restricted to individuals that have had documented safety, operation, and maintenance training of the scanner by the CT Facility Manager.
- 1.4. Due to the shared nature of this facility, and the many safety-risks present, all those wishing to obtain security access are required to follow the procedures specified below in Section 2. All operators of either the Micro-CT equipment or the Micro-US equipment must be authorized by the facility and are required to follow the procedures specified below in Sections 2 and 3.


## 2. Training for Individuals with PIRC Security Access

- 2.1. Individuals wishing to obtain security access to the facility are required to read PIRC-POL-205.2 (PIRC Card Access Policy) and produce their signature declaring that they have read, understood, and plan to follow all of the guidelines set in place by the SOPs.
- 2.2. It is required that all individuals with PIRC Access complete the PIRC hazard awareness form: PIRC-FORM- 300A.02 (New Protocol Hazard Assessment Form-Live Animals). The contents of this form will be determined periodically by the PIRC Operating Committee and the Director.

## 3. Operator Training

- 3.1. Operators of the imaging equipment in the PIRC are required to read all PIRC-POL-205.2 (PIRC Card Access Policy) and produce their signature declaring that they have read, understood, and plan to follow all of the guidelines set in place by the SOPs.
- 3.2. It is required that all PIRC users complete the following three training:
  - 3.2.1. Biosafety<sup>1</sup>
  - 3.2.2. WHMIS (Workplace Hazardous Management Information System)<sup>2</sup>

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### 3.2.3. Animal Handling<sup>3</sup>

- 3.3. In addition, all Operators of the PIRC's Micro-CT X-ray equipment are required to have completed the approved X-ray Safety Training<sup>4</sup> and have completed onsite equipment operation training from the CT Facility Manager.
- 3.4. All Operators of the PIRC's Micro-Ultrasound equipment are required to have completed the approved X-ray Safety Training<sup>4</sup> and have completed the onsite equipment operation training.
- 3.5. All Operators of the PIRC's IVIS equipment are required to have completed the approved X-ray Safety Training<sup>4</sup> and have completed the onsite equipment operation training.
- 3.6. All relevant documentation and information pertaining to Operator status will be kept with the Facility Manager.


## 4. Revision History

Version Number	Date	Changes	Author
SOP#200	June 15, 2011	Initial version	Hemanth Varghese, PhD
PIRC-SOP-200.02	Oct 15, 2024	Included: PIRC-POL-205.2, user training requirements, etc.	Joseph Umoh, PhD

## 5. References

- Western University Biosafety Training.  
Online <https://owl.uwo.ca/portal/site/3ad1c651-acd7-4ba6-ba2d-d456ccf6adfd>.  
Sign-in required. Cited 09 Oct 2024.
- Western University WHMIS Training.  
Online <https://owl.uwo.ca/portal/site/d246eda4-3817-479a-8d1e-f2e062c28ecb>.  
Sign-in required. Cited 09 Oct 2024.
- Western University Animal Care and Use.  
Online <https://owl.uwo.ca/portal/site/e13980f0-54ef-4bab-b114-58799191b799>.  
Sign-in required. Cited 09 Oct 2024.
- Western University X-ray Safety Training.  
Online <https://owl.uwo.ca/portal/site/b69c5bb6-29d5-49f2-97ef-74793565e25e>.

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