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Implemented the biological safety system for outside users' experimental safety at NSRRC

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The National Synchrotron Radiation Research Center (NSRRC) currently operates the TLS and TPS accelerators, along with approximately 40 end stations, about 10 of which are dedicated to biology-related experiments. These include the Protein Microcrystallography Beamline, which focuses on the analysis of 3D biostructures; the BioSAXS Beamline, designed to study non-crystalline structural transitions of macromolecules; the Soft X-ray Tomography Beamline, which enables imaging of frozen-hydrated biological specimens; and the IR Microscopy Beamline, capable of performing measurements on micron-sized samples.
In this paper, we aim to present the current biosafety management framework implemented for experimental safety at NSRRC. This framework is designed to guide users in easily classifying their samples, providing explanations, and submitting the necessary approval documents. We also hope that, during the submission process, users can identify the potential risks associated with their samples and provide comprehensive information for safety reviewers at NSRRC, thereby reducing concerns for experimental support staff whenever possible.

Footnotes

Paper preparation format

Region represented

Asia

Funding Agency

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