



## Biospecimen Science Discussion Session

**OBBR** Office of Biorepositories  
and Biospecimen Research

### Discussants

#### **Richard G. Hegele, M.D., FRCPC, Ph.D.**

Professor and Head

Department of Pathology and Laboratory Medicine

University of British Columbia

#### **Beatrice Knudsen, M.D., Ph.D.**

Assistant Member

Public Health Sciences

Fred Hutchinson Cancer Research Center

#### **Lawrence D. True, M.D.**

Professor

Department of Pathology

University of Washington School of Medicine



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### **Objectives**

- **How can biospecimen science be used to inform the NCI Best Practices?**
- **Next steps for NCI and the community**



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- **Biospecimen Pre-analytical Heterogeneity**
  - **Pre-acquisition**
    - **Diet**
    - **Ischemia time**
  - **Post-acquisition**
    - **Tissue processing and fixation**
    - **Inter-SPORE Prostate Biomarker Study (IPBS)**
- **Tools to Advance Biospecimen Science**
  - **BC BioLibrary**
    - **A collection of biospecimens organized to provide physical, bibliographic and intellectual access to *biobanks, clinical trials and research studies***
    - **“...create a framework that promotes appropriate standards of quality, security, ethics, and privacy “**
    - **<http://bcbiolibrary.icapture.ubc.ca/>**



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- **More Tools to Advance Biospecimen Science**
  - **MISFISHIE: Minimum Information Specification For In Situ Hybridization and Immunohistochemistry Experiments**
  - <http://scgap.systemsbiology.net/standards/misfishie/>



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### Discussion

Where is the biggest need for critical data that will improve the quality of banked tissues ?

What are the obstacles to generate and implement protocols of high quality tissue collection ?