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JUNE 6-7 2023
Virtual Annual Meeting

Abridged
PROGRAM

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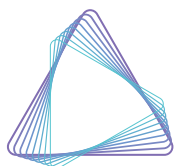


WATCH OUR WORKSHOP

Challenges in Logistics: How to Keep Sample Integrity on the Road

Shipping logistics - from remote areas to a central biobanking location or the movement of entire collections - can present significant challenges. In this plenary you will hear from our panelists to learn how they overcame specific challenges and key considerations in sample logistics.

Visit Azenta Life Sciences in the Exhibit Hall



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Vision

To be the leading network in the global biobanking and biorepository community.

Mission

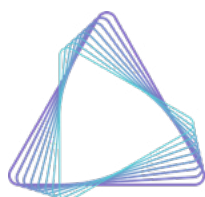
ISBER advances the expertise and quality of biorepositories and biobanking science worldwide.



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MESSAGE FROM THE ISBER PRESIDENT

Dear colleagues and friends,

On behalf of the International Society for Biological and Environmental Repositories (ISBER) Board of Directors, I extend you a warm welcome to the 2023 ISBER Annual Meeting, in person on 3-6 May 2023 in Seattle, Washington, USA, and virtually on 6-7 June 2023.

Under the leadership of our Scientific Program Co-Chairs, Drs. Anusha Hettiaratchi (Australia), Birendra Kumar Yadav (India), and Dayong Gao (USA), and supported by a creative and hard-working Program Planning Task Force, this year's theme is "Come as you are: Building Biobanking Bridges". For the engineers among us, building bridges might be a familiar way of life. The events of recent years have necessitated many more bridge builders to fill the growing and evolving needs. These bridges would now create both physical and virtual communities and communications networks, joint research or clinical entities, and more. The concept of neighbor has evolved and expanded as ease of access to entities is no longer solely dependent on physical proximity.

During your time at the meeting, we encourage you to build and/or cross a few bridges of your own...to stronger and broader networks and knowledge. With great thanks to our invited speakers, guests, workshop presenters, and roundtable leaders, there are many opportunities on the ISBER program—without you, there can be no bridge building. These are just a few possibilities: join a session on novel technology and methods; understand some of the updates coming to the ISBER *Best Practices* 5th Edition; learn about how biobanks are working with Pharma; hear the latest on biobanking research; participate in an education workshop on specimen sharing or be a part of a roundtable on the Biobank Assessment Tool (BAT), or data management.

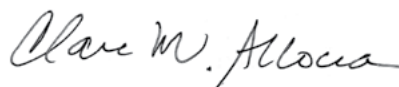
Thank you to our sponsors, who have continually supported both ISBER and biobanking. I am delighted to say that we have a full exhibit hall with opportunities for learning that complement our scientific program. I encourage you to speak with our vendors and participate in corporate sessions. Visit the exhibit hall to talk to our sponsors and vendors, see the latest technology and equipment, and learn about many of the tools and resources available to biobankers.

They provide a gateway to many of the advancements in biobanking.

Thank you to our ISBER Head Office Staff, who have supported us throughout the year on all aspects of this endeavor. In particular, thank you to Samantha Wale for navigating us so adeptly through the intricacies of developing a hybrid conference.

Last and certainly not least, thank you to our members and visitors to this meeting. Without you, none of this is possible. I hope that you will use this meeting to build your own bridges.

Sincerely,



Clare M. Allocca

ISBER President 2022-2023
National Institute of Standards & Technology (NIST)
USA

MESSAGE FROM THE SCIENTIFIC PROGRAM TASK FORCE CO-CHAIRS

Dear colleagues and friends,

On behalf of the International Society for Biological and Environmental Repositories (ISBER) Program Planning Task Force of the 2023 Annual Meeting and Exhibits, we welcome you to the meeting!.

Partially channelling one of Seattle's best known and loved musical exports, the theme for this year's conference "Come as you are: Building Biobanking Bridges" has been realised by a Program Planning Task Force which has itself bridged time zones between Australia, Austria, Canada, Côte d'Ivoire, Egypt, Germany, India, Nigeria, Poland and the United States. Biobanking has always existed as a conduit between industry, academia, technology, research, policy, regulation, and ethics, while operating across varying economic, religious, cultural and social spectrums; this meeting aims to showcase not just the breadth of biobanking activities current and emerging, but common solutions to roadblocks, to bring together ideas, industries, technologies and of course the biobanking professionals themselves.

The symposia this year offer a variety of topics that explore the meeting theme, include invited speakers from around the globe, and encompass a wide variety of professions. Symposium 1 explores the different measurable impacts, health and economic for example, bridged by biobanks, and explores their importance including those in LMIC. Symposium 1 will also feature our keynote speaker Dr. Jairam Lingappa from the International Clinical Research Centre. Symposium 2A examines boundaries such as diversity, equity and inclusion to overcome in biobanking and Symposium 2B bridges biobanking science with practice. Symposium 3A focuses on the collaboration between biobanks and pharma, while Symposium 3B has a focus on biobanking and data. The last, Symposium 4 aptly titled 'as you are, as you were, as you want to be', looks at evidence based biobanking research ('as you are' and 'as you were') and how biobanking can promote more sustainable biobanking investment ('as you

want to be').

This year's meeting will feature opportunities to learn and discuss at round table discussions, contributed paper sessions, workshops and a session on ISBER *Best Practices* 5th Edition. There are opportunities to engage with our vendors and sponsors not just in the exhibit hall but within the meeting program during the corporate sessions and the innovative technologies session.

We were pleased to receive 165 abstract submissions along with 27 late breaking submissions. A selection of these were chosen for the contributed paper sessions and delegates are able to view the remaining accepted abstracts as poster presentations. We received workshop proposals spanning a range of topics, those selected including biospecimen requests, best practice, funding, biospecimen sharing, effective biospecimen utilization and bridging biobanks with next generation technologies. Thank you to all our Program Planning Task Force and Workshop Review Task Force members who took the time to carefully review and score the abstract and workshop session submissions.

To our corporate sponsors thank you for your support of ISBER's annual meeting. From all the co-chairs, thank you to the ISBER Head Office staff for their guidance and support throughout this year as we put together our program. To all our meeting delegates we hope you are able to use this year's conference to its full potential to learn, network, and bridge new biobanking frontiers.

Dayong Gao

University of Washington,
Seattle, USA

Anusha Hettiaratchi

University of New South Wales,
Sydney, Australia

Birendra Kumar Yadav

National Liver Disease Biobank,
New Delhi, India

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Vice-Chair: Samantha Higgins
Victorian Cancer Biobank
Melbourne, Australia

ISBER AWARDS

ISBER Award for Outstanding Achievement in Biobanking

The ISBER Award for Outstanding Achievement in Biobanking, sponsored by ABS Bio, is designed to recognize individuals who have made outstanding contributions to the field of biobanking. The award can be given for a single outstanding achievement or a lifetime body of outstanding work in the field.

Peter Watson,
BC Cancer Agency,
Canada

Sponsored by:



ISBER Distinguished Leadership and Service Award

The ISBER Distinguished Leadership and Service Award is designed to honor ISBER members who have demonstrated exceptional leadership to further the mission and goals of the society and/or significant, long-standing contributions to the society.

Monique Albert
Centre for Biodiversity Genomics,
University of Guelph,
Canada

Sponsored by:



ISBER Special Services Awards

The ISBER Special Service Awards recognize individuals who have made exceptional contributions towards the goals of the Society through the performance of a special service or act on behalf of the organization.

Annemieke De Wilde,
Belgian Cancer Registry/BBMRI.be,
Belgium

Helen Morrin,
University of Otago,
New Zealand

Emma Snapes,
BioConsulting
Ireland

Rita Lawlor,
ARC - NET Centre for
Applied Research on Cancer,
Italy

Tamsin Tarling,
University of British Columbia,
Canada

GENERAL CONFERENCE INFORMATION

Virtual Meeting Platform

Access the virtual meeting platform:

- Desktop: <https://pheedloop.com/ISBER2023>
- Mobile App: Download "Pheedloop Go" from your app store

Username: your email address*

Password: use "forgot password" to set your password

**be sure to login using the same email address you used to register for the meeting.*



Exhibits:

The exhibit hall is available for you to peruse at your leisure.

Exhibitors will be available within their booths to answer your questions at the following time:

Tuesday, June 6:

- NA Pacific Time: 7:45am – 8:45am and 5:00pm – 6:00pm
- NA Eastern Time: 10:45am – 11:45am and 8:00pm – 9:00pm
- Central European Time: 4:45pm – 5:45pm
- China Standard Time: 10:45pm – 11:45pm

Wednesday, June 7:

- China Standard Time: 8:00am – 9:00am
- Australian Eastern Time: 10:00am – 11:00am

Registration Rates (Prices in USD)

	Regular Rate	On-Site Rate (After June 2)
ISBER Member	\$515	\$615
Non-ISBER Member	\$640	\$740
Technician/Student Member	\$330	\$380
Technician/Student Non-Member	\$430	\$480

Certificates of Attendance

All attendees will receive a certificate of attendance electronically upon completing the post-conference delegate evaluation. This will be distributed via email on June 8, NA Pacific Time.

Poster Presentation Information:

All abstract posters are available for you to view within the mobile app – this includes all posters that were presented in Seattle, USA, and those that are being presented virtually only.



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LIVE SESSION PROGRAM

TUESDAY, JUNE 6 (WESTERN HEMISPHERE) TUESDAY, JUNE 6/WEDNESDAY, JUNE 7 (EASTERN HEMISPHERE)	
6:00am – 6:15am NA Pacific 9:00am – 9:15am NA Eastern 3:00pm – 3:15pm Central Europe 9:00pm – 9:15pm China Standard 11:00pm – 11:15pm Australian Eastern	Welcome Remarks Alison Parry Jones, <i>ISBER President 2023-2024</i> Anusha Hettiaratchi, Dayong Gao, Birendra Kumar Yadav, <i>2023 Program Planning Task Force Co-Chairs</i>
(CONCURRENT) 6:30am – 7:30am NA Pacific 9:30am – 10:30am NA Eastern 3:30pm – 4:30pm Central Europe 9:30pm – 10:30pm China Standard 11:30pm – 12:30am Australian Eastern	ROUNDTABLE DISCUSSION
	Using the BAT to hit a Homerun for your Biobank Annemieke De Wilde, <i>BBMRI.be, Belgium</i>
	Network to benefit the Biobanking Community: Create or Enhance an ISBER Community of Practice, Working Group or Special Interest Group Clare Allocca, <i>National Institute of Standards and Technology, USA</i>
	Children's Health, Research, and Biobanking – How Do We Juggle it All with Less? Billy Schleif, <i>Johns Hopkins All Children's Pediatric Biorepository, USA</i> , Rania Labib, <i>Boston Children's Hospital, USA</i> , Daniel Catchpoole, <i>The Children's Hospital at Westmead, Australia</i>
	The Considerations and Barriers to Implementation of 5th Ed. Best Practices: Real World Discussion of Information Management BPs Marianne Henderson, <i>National Cancer Institute, USA</i>
	The ISBER/ASCPBOC Qualification in Biorepository Science (QBRs) Exam Brent Schacter, <i>CancerCare Manitoba/University of Manitoba, Canada</i>
7:30am – 8:30am NA Pacific 10:30am – 11:30am NA Eastern 4:30pm – 5:30pm Central Europe 10:30pm – 11:30pm China Standard (June 7) 12:30am – 1:30am Australian Eastern	Visit with Exhibitors The exhibitors will be available within their booths during this time to interact and ask questions.
(CONCURRENT) 8:30am – 10:30am NA Pacific 11:30am – 1:30pm NA Eastern 5:30pm – 7:30pm Central Europe 11:30pm – 1:30am China Standard (June 7) 1:30am – 3:30am Australian Eastern	Educational Workshop: Navigating the Needs of Our Researchers; Working Through Demanding Biospecimen Requests Katy McCortney, <i>Nervous System Tumor Bank; Northwestern University, USA</i>
	Educational Workshop: From Human Microbiome to Strain Collections: Technical, Molecular and Regulatory Aspects Fay Betsou, Dominique Clermont, Raquel Hurtado-Ortiz, Federica Palma, <i>Institut Pasteur, France</i>

TUESDAY, JUNE 6 (WESTERN HEMISPHERE)**TUESDAY, JUNE 6/WEDNESDAY, JUNE 7 (EASTERN HEMISPHERE)**

(CONCURRENT) 3:00pm – 4:00pm NA Pacific 6:00pm – 7:00pm NA Eastern (June 7) 12:00am – 1:00am Central Europe (June 7) 6:00am – 7:00am China Standard (June 7) 8:00am – 9:00am Australian Eastern	ROUNDTABLE DISCUSSION
	Understanding the New NIH Data Management and Sharing Requirements James McNally, <i>University of Michigan, USA</i>
	Biobanking 101 Workshop debrief Debra Leiolani Garcia, <i>Independent Consultant, USA</i> , Marianne Henderson, <i>National Cancer Institute, USA</i> , Diane McGarvey, <i>CHTN Eastern Division, University of Pennsylvania, USA</i>
	Universal Consent for Biobanking Sara Bowen, <i>Barrow Neurological Institute, USA</i>
4:00pm – 5:00pm NA Pacific 7:00pm – 8:00pm NA Eastern (June 7) 1:00am – 2:00am Central Europe (June 7) 7:00am – 8:00am China Standard (June 7) 9:00am – 10:00am Australian Eastern	Visit with Exhibitors The exhibitors will be available within their booths during this time to interact and ask questions.
WEDNESDAY, JUNE 7 (WESTERN HEMISPHERE) THURSDAY, JUNE 8 (EASTERN HEMISPHERE)	
10:30am – 11:00am NA Pacific 1:30pm – 2:00pm NA Eastern 7:30pm – 8:00pm Central Europe (June 8) 1:30am – 2:00am China Standard (June 8) 3:30am – 4:00am Australian Eastern	Live Q&A with the Keynote Speaker Jairam Lingappa, <i>University of Washington, USA</i>
(CONCURRENT) 3:00pm – 5:00pm NA Pacific 6:00pm – 8:00pm NA Eastern (June 8) 12:00am – 2:00am Central Europe (June 8) 6:00am – 8:00am China Standard (June 8) 8:00am – 10:00am Australian Eastern	Educational Workshop: Sustaining Best Practices of Biobanks During Pandemics Karen Meagher, <i>Mayo Clinic, USA</i> , Subhashini Chandrasekharan, <i>National Institutes of Health, USA</i> , Aaron Goldenberg, <i>Case Reserve University, USA</i>
	Educational Workshop: Building Bridges: Towards An International Framework for Specimen Sharing Marianna Bledsoe, <i>Biopreservation and Biobanking, USA</i> , Mark Barnes, <i>Ropes & Gray, USA</i> , Annette Schmid, <i>Takeda Pharmaceutical Company Limited, USA</i> , Rita Lawlor, <i>ARC - NET Centre for Applied Research on Cancer, Italy</i> , Helen Morrin, <i>University of Otago, New Zealand</i>

ON DEMAND SESSIONS

Symposia

SYMPOSIUM 1: MEASURING BIOBANK IMPACT – SCIENTIFIC RESEARCH, HEALTH, AND GLOBAL ECONOMY

Chairs: Wayne Ng, Anusha Hettiaratchi, Birendra Kumar Yadav and Dayong Gao

It is generally agreed that biobanks make significant impacts on the progression of medical research, and increasingly to other areas, such as agriculture and rare species conservation. However, it is often challenging to identify and quantify these impacts due to diverse biobank functionalities and complex governance. Defining and measuring the impact of biobanking is critical for business value proposition and sustainability. Such measurements can provide biobank stakeholders (e.g. funders, policy makers and the broader population) with the ability to better assess biobank value, and allow biobanks to develop their strategic direction.

This symposium explores the different types of measurable impacts (e.g. health and economy) that can be created by biobanks, and considers the importance of these impacts for research and innovation sectors, funders and governments. Consideration will be given to the types of impacts generated and their importance for emerging biobanks (e.g. biobanks in lower- and middle-income countries).

ISBER Welcome Address

Clare Allocca, *ISBER President-of-the-Board 2022-2023*

Scientific Program Co-Chair Welcome Remarks

Dayong Gao, Anusha Hettiaratchi, Birendra Kumar Yadav, *Scientific Program Task Force Co-Chairs*

KEYNOTE – The International Clinical Research Center (ICRC) Specimen Repository: A History of Contributing to Challenging Public Health and Translation Research

Jairam Lingappa, *University of Washington, USA*

Game on Biobanks, Time to Step Up

Eng Chon Boon, *National University Health System, Singapore*

Operationalizing Precision Medicine through Industrialization of Human BioAsset and Digital Asset Management

Brenda Yanak, *Clinical Transformation Partners LLC, USA*

Quantifying the Impact of the Victorian Cancer Biobank through Gains on Wellbeing

Zanfina Ademi, *Monash University, Faculty of Pharmacy and Pharmaceutical Sciences, Australia*

The Emerging Biobanks in Africa for Genomic Studies

Segun Fatumo, *London School of Hygiene and Tropical Medicine, United Kingdom*

Banking on Impact – Building a Bridge Between Your Stakeholders and Your Biobank

Debra Jaramilla, *Cornell Veterinary Biobank, USA*

SYMPOSIUM 2A: PRIORITIZING DIVERSITY, EQUITY, AND INCLUSION IN BIOBANKING

Community engagement for biobanking should not be an afterthought, but instead should be prioritized and considered before the study plan is finalized. Thought and planning in defining the “communities” is needed, and study staff need to make an extra effort to include minority participants and other typically underserved participants. Participants in biobanking studies want to be seen and heard and more often, want to “get something back” from their participation. This may be individual results, or general study updates. Community engagement is a sign of respect and garners trust with potential participants, without whom we could not do research.

A Participant Perspective on Biobanking

Janet Freeman-Daily, *The ROS1ders, USA*

African American Representation in Biobanking and Tumor Sequencing Studies: Experience at Washington University in St Louis

Graham Colditz, *Washington University School of Medicine, USA*

Community Engagement in Biobanking: Public Perspectives, Challenges and Need of the Hour

Bushra Rakha, *Pir Mehr Ali Shah Arid, Agriculture University Rawalpindi, Pakistan*

Necessary, but Not Sufficient: The Limitations of Inclusion as an End Goal for Addressing Equity in Biobanking

Aaron Goldenberg, *Case Western University, USA*

Diversity, Equity, and Access: Achieving Equity in Research Participation

Nadine Barrett, *Center for Equity in Research; Duke Clinical and Translational Science Institute, USA*

SYMPOSIUM 2B: BRIDGING SCIENCE AND PRACTICE – NOVEL TECHNOLOGY AND METHODS FOR BIOBANKING

Over the past 30 years, biobanking has become indispensable for promoting and generating great advances and breakthroughs in biological research spanning human disease, conservation efforts, ecology, microbiology and zoology. Notable highlights include advances in clinical diagnosis and treatments such as gene/cellular therapy and stem cell/tissue transplantation as well as re-population of critically endangered species and botanical crops. Biobanks are critical bio-resource suppliers, making measurable impacts on the research and development in regenerative medicine, tissue engineering, personalized medicine, new vaccine or drug development, disease screening, in vitro fertilization, bio-technology development, and conservation of endangered species. This symposium focuses on the research and development of pioneering technology and methods for use in biobanking practice to ensure the biospecimen quality, security, and useability. Key areas of focus will range from optimal techniques for biospecimen collection in challenging environments such as remote locations or emergency settings to the novel technology, instruments, and tools for biospecimen cryopreservation based on solid scientific foundations and emerging data.

Biobanking as a Tool for Integrative Conservation: One Piece of the Puzzle

Rose Upton, *University of Newcastle, Australia*

Fundamental and Applied Cryobiology Research for Biopreservation and Biobanking: Translating Science into Practice

Zhiqian Shu, *University of Washington, USA*

Biobanking in Rough Waters

Amanda Moors, *National Institute of Standards and Technology, USA*

Advances in the Low Temperature Stabilization of Cells and Tissues

Jason Acker, *University of Alberta, Canada*

Challenges and Opportunities in Neurobiobanking in Resource-Limited Settings: Experience from West Africa

Rufus Akinyemi, *University of Ibadan, Nigeria*

Cryopreserved Innate Cell Product Enables Off-the-Shelf Allogeneic Cell Therapy Development

Yana Wang, *Takeda, USA*

Innovative Technologies

An Analytical Method to Determine Quality of Fixation Using Vibrational Spectroscopy and Machine Learning

David Chafin, *Roche Diagnostics International AG, USA*

Electromagnetic Heating Technology for the Fast and Uniform Rewarming of Cryopreserved Large Volume Samples

Ziyuan Wang, *University of Washington, USA*

OMICS-QC: Integrative Model of Quality Control of Plasma and Serum Samples for Multi-Omics Approach

Anna Michalska-Falkowska, *Medical University of Bialystok, Poland*

Spa Biobank: A New Type of Biobank

Judita Kinkorová, *University Hospital Pilsen, Czech Republic*

AI and the Metaverse as the Drivers of Change for Biorepositories

Jean Fallacara, *inTEST Thermal Solutions, USA*

Bridging the Gap Between Biobanks and Industry

Maria Menikou, *Scientist.com, United Kingdom*

Biobanking as a Foundational Component of NIH Research: Sampled Provides a Critical Resource for Research into the Genetics and Epigenetics of Substance Abuse in Humans through its National Institute of Drug Abuse (NIDA) Centers

Michael Sheldon, *Sampled, USA*

Two-for-One: Optimizing Histologic Quality Control of Fresh Tissue Disbursement and Simultaneously Banking for Future Use

Elizabeth Howington, *Duke University School of Medicine, USA*

SYMPOSIUM 3A: JOINT ACTIONS OF BIOBANKS AND PHARMA FOR A BETTER FUTURE

Knowledge about biobanking in the pharmaceutical sector and understanding of principles of collaboration between academia and pharma is limited. This session intends to familiarize academics and public sector biobankers with requirements, opportunities, and challenges of the private-public partnership. This includes informed consent, intellectual property rights, and obstacles in international biobanking. Although academia and pharma share the same biobanking aims, there are some major discrepancies in both sectors which will be highlighted to help understand challenges the pharmaceutical sector is facing.

Attendees will hear about biobanking standards and principles that the industry follows and in turn understand requirements of biobank partners in order to facilitate effective, future collaboration with pharmaceutical companies.

Industry-Academia Collaboration – It Can work!

Alison Parry-Jones, *Wales Cancer Biobank, United Kingdom*

The Key Consent Considerations for Industry

Razan Humeida, *AstraZeneca, United Kingdom*

Intellectual Property: Can We Share It or Not?

Kerry Powers, *Roche Diagnostic Solutions, USA*

Importance and Opportunity of Translational Study Leveraging Resource from Biobank and Hospital in China

Andy Wang, Yunxin Chen, *Bayer Healthcare, China*

SYMPOSIUM 3B: DATA AND BIOSPECIMENS – GREATER THAN THE SUM OF ITS PARTS

The data that accompanies biospecimens is equally important as the material in the vial. In fact, only the data may be shared with researchers. But it can't be just data; in order to bring value, the data must be relevant, complete, accurate and reliable. Collecting, managing, storing, and sharing high quality data requires resources, careful planning, and regular attention and review. In biobanking of human samples, participant privacy and confidentiality must be protected, while also making the data as useful and available as possible.

Connecting Specimen Records and Data Accessibility in the United States Department of Agriculture – Agricultural Research Service (USDA-ARS) Culture Collection

Kirk Broders, *USDA ARS, USA*

Integration of Information in the Brain Bank

Andres Villegas-Lanau, *Neurobanco - Grupo de Neurociencias de Antioquia - Universidad de Antioquia, Colombia*

Data Management for NCI's Cancer Moonshot Biobank – A Case Study

Anita Mohandas, *Frederick National Laboratory for Cancer Research (FNLCR), USA*, Veena Gopalakrishnan, *National Institutes of Health – National Cancer Institute (NIH-NCI), USA*

Large Scale Data and Data Analytics in Biobanking: Mapping Issues to Achieve Success

Gabrielle Samuel, *King's College London / University of Oxford, United Kingdom*

SYMPOSIUM 4: BIOBANKING RESEARCH – “AS YOU ARE, AS YOU WERE, AS I WANT YOU TO BE”
Chairs: Lalita Wadhwa, Krishnan Ramanujan

Biobanking research provides evidence about how biobanks support research and innovation in different real-world settings. Evidence from biobanking research (“as you are, as you were”) could promote more sustainable biobanking investments that also deliver better research and other societal benefits (“as I want you to be”). The biobanking research symposium will showcase the current state of international biobanking research through invited presentations from biobanking research experts. The symposium will also feature presentations selected from submitted abstracts, with a focus on showcasing biobanking research undertaken by early career researchers.

The Rise and Fall of a Research Infrastructure – How a Promising Harmonisation Endeavour for Biobanking in Sweden Would Fail

Anthony Larsson, *Stockholm Chamber of Commerce, Sweden*

Towards What? Addressing Neglected Issues and Concerns in Contemporary Biobanking for Biomedical Research: A Social Sciences Approach

Violeta Argudo-Portal, *University of Barcelona, Spain*

When the Decision to Close a Repository is Reversed: The Ontario Tumour Bank Experience

Ilinca Lungu, *Ontario Institute for Cancer Research, Canada*

SYMPOSIUM 5: RISING STARS – NEXT GENERATION OF BIOBANKERS

The Rising Stars session was created to reach out globally to the next generation of biobankers to get a better understanding of their needs. The goal is to highlight the successful work of new up and coming biobankers to share their achievements and challenges and to encourage them in their progress. This year, we will hear about biobanking in Vietnam, Mali, and Armenia. Furthermore, we will honor the work of Dr. Sameera Ezzat who passed away earlier this year, showcasing the work she had done in promoting her biobank.

Sameera Ezzat: A Rising Star that Vanished

Ahmed Samir Abdelhafiz, *National Cancer Institute, Cairo University, Egypt*

Tissue Bank in Vietnam: Characteristics and Development Opportunities

Duong Cong Nguyen, *Viet Duc Hospital, Vietnam*

Project to Establish Human Biobank Center in Mali: Opportunity, Strategy and Perspectives

Saidou Balam, *University of Science, and Technology of Bamako (USTTB), Mali*

ARICE: Twinning for the Armenian Research Infrastructure on Cancer Research

Karine Sargsyan, *Cedars-Sinai Medical Center, USA*

Corporate Symposia

Corporate Workshop 1: Leveraging Freezerworks Information Management Software to Achieve Compliance

Mandy Riffel, Cheryl Michels, *Freezerworks, USA*



Corporate Workshop 2: Alternative Storage and Shipping Options for Cryopreservation

Kevin Gilliland, *MVE Biological Solutions, USA*



Corporate Workshop 3: Empowering Genomics and Biomarker Discovery with Proteomics

Aparna Vasanthakumar, *AbbVie GenomeResearch Center, USA*, Andrea O'Hara, *Azenta Life Sciences, USA*, Cindy Lawley, *Olink Proteomics, Inc., USA*



Corporate Workshop 4: Flexibility in Freezing and Storage Applications to Safeguard Equipment Performance and Ensure Sample Integrity

Sylvain Riendeau, *FARRAR / Trane Technologies, USA*



Corporate Workshop 5: OpenSpecimen - Highly Configurable Biobanking LIMS

Srikanth Adiga, Poornima Govindrao, *OpenSpecimen, India*



Corporate Workshop 6: Emerging Technological Changes and Challenges to Ultra-Low Freezer Storage

Joe Laporte, Hans Brok, Hadar Aharoni, *PHC Corporation of North America, USA*



Corporate Workshop 7: Best Practices to Successfully Scale Your Biobank

Amy Armstrong, Wilfredo Marin, Tom LaSota, *Thermo Fisher Scientific, USA*



Corporate Workshop 8: Addressing Challenges in Logistics: How to Keep Sample Integrity on the Right Path

Chair: Vanessa Tumilasci, *Azenta Life Sciences*

Speakers: Dr. Rogers Kamulegeya Vicotr, *Makerere University, IBRH3AU*, Dr. Kashif Asghar, *Shaukat Khanum Memorial Cancer Hospital & Research Centre*, Mr. Raja Rao, *B Medical Systems*



Contributed Paper Session

Accelerating Translational Research by Enabling Access to Specimens and Datasets

Snehal Joshi, Fred Hutchinson Cancer Research Center, USA

Power of Consortium Shared Resources when External Threats Occur

Susan Hume, Victorian Cancer Biobank Consortium; Eastern Health, Australia

A New Tool to Match Organ, Tissue and Eye Post-Mortem Donors to Research Project Criteria

Kaitlyn Kunkle, Advancing Sight Network, USA

Determining Pre-Analytical Variables and Molecular Determinants to Ensure High Quality of Luxor Biobank

Nashwa Kordy, Shefa Al Orman Hospital, Egypt

Biobanking During War: Experience of Audubon Bioscience

Alexandra Giardina, Audubon Bioscience, USA

Survey of Adolescents Regarding Their Opinion of Research and Vaccination During the COVID-19 Pandemic

Qudrat Aujla, BC Children's Hospital, Canada

MIRRI-ERIC: A Pan-European Research Infrastructure for Making Microbial Science and Innovation Happen

Raquel Hurtado-Ortiz, MIRRI-ERIC, France

Developing Genomic and Biomaterials Resources for Establishing Non-human Primate Models of Human Disease

Eric Vallender, The University of Mississippi Medical Center; Tulane National Primate Research Center, USA

AI in Medicine Based on Biobank Data - New Opportunities and (Not) Known Risks

Karine Sargsyan, Cedars-Sinai Medical Center, USA

Challenges and Opportunities for mBRCs in the Era of Regulated Access Policies

Raquel Hurtado-Ortiz, Institut Pasteur, France

How Can and Should Biobanking Governance Structures Respond to (Inter)national Political Contexts?

Rachel Thompson, University of Oxford, United Kingdom

Costs and Publication Outputs of an Academic Cancer Biobank Cohort

Amanda Rush, The University of Sydney Faculty of Medicine and Health, Australia

The Qualification in Biorepository Science (QBRs) Examination: Progress Report on its Global Reach

Brent Schacter, CancerCare Manitoba; University of Manitoba, Canada

Tissue Microarrays: Turning Hidden Resources into Research Gems

Daniel Catchpoole, The Children's Hospital at Westmead, Australia

Genomic Taxonomy of Bacterial Strains in a Microbial Biorepository: The Instance of the Collection of Institut Pasteur (CIP)

Martin Boutroux, Institut Pasteur, France

Reassessing Historical Collections: Finding Novel Uses for Archived Specimens

Debra Ellisor, National Institute of Standards and Technology, USA

Surveying the Biobanking Landscape

Alison Parry-Jones, Wales Cancer Biobank, Cardiff University, United Kingdom

Evolution of Risk Management in Qatar Biobank (QBB)

Wilma Lobo, Qatar Foundation, Qatar

POSTER SESSIONS

ID	Title	Presenter	Country
PA-01	Design and Implementation of Nasopharyngeal Specimen Storage in Straws during the Covid 19 Pandemic in Ivory Coast	Rita Bouagnon	Côte d'Ivoire
PA-02	Conducting an Internal Audit Using ISO/IEC 20387	Cory Arant	United States
PA-03	How Qatar Biobank is Engaging Young Minds and Supporting Future Biobankers	Linda Hannigan	Qatar
PA-04	Successful Customer Satisfaction Indices as a Biobank Metric	Zachery von Menchhofen	United States
PA-05	A Robust Quality Management System is Essential for High-quality Tissue Acquisition in Biobanking	Aurora Mejia	Canada
PA-06	Evidence-Based Biobanking: Hit the Ground Running with NCI's Biospecimen Evidence-Based Practices	Kelly Engel	United States
PA-07	Evaluation of Collections for Automated Sample Handling and Storage in a Biobank with Diverse Sample Sets	Kathi Shea	United States
PA-08	Comparison of Spectrophotometric and Fluorometric Findings on DNA Isolated from Shefa Al Orman Biobank Blood Samples	Aisha Gamal	Egypt
PA-09	Cost Recovery at The Medical Research Council/Uganda Virus Research Institute and London School of Hygiene & Tropical Medicine Uganda Research Unit Biobank	Phillis Babirye	Uganda
PA-10	Quality Management Framework of Biobank-Raising the Standards for Cancer Research	Archana Sharma	India
PA-11	Maintaining Manual Laboratory Skills in a World of Automation - The Qatar Biobank Perspective	Linda Hannigan	Qatar
PA-12	Utilizing Strategic Communications and Social Media to Drive Qatar Biobank's Public Recruitment	Mohammed Aldosari	Qatar
PA-13	Towards Virtual SSPA Biobank: New Functionalities Integrated and Tools Developed to Improve Communication with Stakeholders	Ana Sánchez-López	Spain
PA-14	Introducing Scientific and Student Communities to the World of Biobanks Through a Massive Open Online Course. The Experience of the Institut Pasteur.	Raquel Hurtado-Ortiz	France
PA-15	Quality Assurance Through Biobanking Standards	Tafadzwa Maranjisi	Zimbabwe
PA-16	To Examine Unapproached/ Refusal Metrics Against Self-Reported Ethnic Diversity of Participants of the McCain GU Biobank	Leda Weiss	Canada
PA-17	Prior-Knowledge Assessment of Biobank Science Among South African Health Sciences Postgraduate and Senior Medical Students: Integration of Knowledge in Instructional Design and Curriculum Planning	Mandile Thobela	South Africa
PA-18	Biorepositories and Risk Assessment: Incorporating a Novel Tool of Combining Risk Strategies. A Proactive Approach.	Dianne Peterson	United States
PB-01	BC COVID-19 Biobank Network; Critical Infrastructure to Support Provincial Research	Tamsin Tarling	Canada
PB-02	The Busselton Health Study Biobank	Jennie Hui	Australia
PB-04	Value of Biobank Non-Cancer Samples	Marwa Saady	Egypt
PB-05	Integration and Synergies of Scientific Core Facilities – a Place for Biobanking? The Westmead Experience	Karena Pryce	Australia
PB-06	A Biospecimen and Biomarker Program of the National Biobank of Korea: An Application to the Korea National Health and Nutrition Examination Survey	Jae-Pil Jeon	South Korea
PB-07	Biobank Mississippi – A Biobank Enriched For African Americans	Gouri Mahajan	United States
PB-08	The Aswan Heart Centre Biobank: A powerful resource for Precision Medicine in Cardiovascular Science and Practice.	Basma Shenouda	Egypt
PB-09	University of Mississippi Medical Center Biobank- Growing Biorepository For Collaborative Research	Gouri Mahajan	United States
PB-10	The Regional Prospective Observational Research in Tuberculosis (RePORT) Brazil Biorepository and its Role in Tuberculosis Research	Pedro Borba	Brazil

ID	Title	Presenter	Country
PB-11	Predict, Prevent, Reverse, Cure – The Benaroya Research Institute Biorepository	Megan Smithmyer	United States
PC-01	The Role and Challenges for Office of Bio-Resources Planning at the Cluster of Biological Resource Centers	Tae-Eun Jin	South Korea
PC-02	Biobank Networks in Korea	Kwang Hoon Cho	South Korea
PC-03	A Non-Traditional Approach to Biobanking: When a Non-Profit Meets a Large Pediatric Medical Center	Michael Pauciulo	United States
PC-04	Nuts and Bolts of a Cancer Moonshot Biobank for Precision Medicine	Lokesh Agrawal	United States
PC-05	MBRIO Project: Identification of Technical and Non Technical Needs to Implement Biobanking Practise for Health Research in Indonesia	Jajah fachiroh	Indonesia
PC-06	Qatar Biobank Connecting Nodes Building Networks in the Pursuit of Precision Health	Eleni Fthenou	Qatar
PC-07	One-Stop Shopping: Aligning Biobank and Clinical Laboratory Tissue Services to Optimize Quality, Efficiency and Investigator Experience	Alexis Pifer	United States
PC-08	Overview of Strategic Planning and Progress of Korea Biobank Project (KBP4.0)	Hye-Young Nam	South Korea
PC-09	Implementation and Continual Enhancement of a Biospecimen Information Management System at an Academic Medical Center	Julie Oetinger	United States
PD-01	The First Biobank Internship in Egypt: Focusing on Undergraduates' Hands-on Experience in LIMCs	Amr Ragab	Egypt
PD-02	Biorepository Capacity for Emerging Infectious Disease Outbreak Research	Megan Averill	United States
PD-03	Epicatechin Affects Sperm Cryopacitation through Changes in the Levels of Reactive Oxygen Species	Eva Tvrdá	Slovakia
PD-04	The STAMP Egg Collection at the NIST Biorepository	Jennifer Hoguet	United States
PD-05	Implementing the ISO 20387: the Animal Resource Bank Experience, Transition from the ISO 9001 to ISO 20387	Se-Hee Choe	South Korea
PD-06	Role of Reduced Glutathione in Extender for Liquid Storage of Ring-Necked Pheasant Semen	Bushra Rakha	Pakistan
PD-07	The MARS PETCARE BIOBANK: Establishing a Longitudinal Study of Health and Disease in Dogs and Cats	Janet Alexander	United Kingdom
PD-09	Sclerochronology Applications in Sea Turtle Scutes Sourced from Historical Archives	Kyle Van Houten	United States
PE-01	ONCOPassport Diagnostic Service for the Improvement of Lung Cancer Targeted Therapy	Anna Michalska-Falkowska	Poland
PE-03	Preliminary Study for SNP Array Analysis of DNA Derived from Blood Smears Stored for More Than 50 Years	Tomonori Hayashi	Japan
PE-04	Cost Assessment of Cryogenic Preservation of Biocollections During the COVID Pandemic at CeReB 2020-2021	Aka Edwige	Côte d'Ivoire
PE-05	Plasma miRNA Profile in High Risk of Preterm Birth during Early and Mid-Pregnancy	Roman Illarionov	Russian Federation
PE-06	The Mathison Centre Neurogenetics Biobank and Advancing in Precision Mental Health	S-M Shaheen	Canada
PE-07	Precision Medicine in Childhood Cancer: from Tiny Biospecimen to Big Possibilities!	Thomas Sontag	Canada
PE-08	Quality Analysis of Residual Genome DNA in Red Blood Cell Samples from Anticoagulated Whole Blood	Yuan Zhu	China
PE-10	Assessment of the Stability of Metabolic Parameters for Creation of Pre-Analytical Guidelines for Metabolomics	Alexander Funk	Germany
PE-11	Method Validation for PBMC Isolation and Cryopreservation: Old and New Preanalytical Variables	Raquel Hurtado-Ortiz	France
PE-12	Characterization of Process for Isolation of Peripheral Blood Mononuclear Cell (PBMC) using a Custom Layering Tool and a Custom Hourglass Tube	Danel Granda	United States
PE-14	Impact of Serum Indices on Serum Metabolite Profiles and its Association with Pre-Analytical Variables of Biobanked Samples	Juyoung Lee	South Korea
PE-15	Biobanking in the COVID-19 Times: Research on Serum Cytokine Profile and Tumor Biomarkers in Relation to Disease Severity Prognosis	Marie Karlikova	Czechia
PE-16	Long-Term Stability and Qualification of an Historical Fungal Collection	Adriana Chiarelli	France

ID	Title	Presenter	Country
PE-17	Supporting Diagnostic Research and Development with Biobanking Activities for Infectious Diseases Endemic in Low- and Middle-income Countries	Imane El Idrissi	Switzerland
PE-18	Functional DNA Quality Control Implementation in Qatar Biobank Laboratories	Nesrin Hacine	Qatar
PE-19	Automatic and Robust Extraction of Genomic DNA from Various Leftover Blood Samples	Jianlan You	United States
PE-20	A Case Study: Extending Downstream Applications for a Stabilized Whole Blood Collection Tube.	Olga Kofanova	Luxembourg
PE-21	Discovery Through Biospecimen Sharing: The NASA Biological Institutional Scientific Collection (NBISC)	Joseph Varelas	United States
PE-22	Enhancing RNA Quality from FFPE Tissue through Ultrasonication	Sharmeela Kaushal	United States
PE-23	Pre-Implementation Qualification Study of Blood-Based Biomarker Assay Precision to Establish Consistent and Reliable Data Return	Kristen Russ	United States
PE-24	A Multispectral Fluorescence Lifetime Imaging (FLIM) System For Rapid Biochemical Assessment Of Fresh And Frozen Tissue Specimens In Biobank Settings	V Krishnan Ramanujan	United States
PE-25	Role of Biospecimen Science in Cancer Biomarkers: A Funding Opportunity for Basic and Clinical Researchers	Lokesh Agrawal	United States
PE-26	Effect of Different Cryopreservation Temperatures on Recovery of Postmortem Goat Skin Derived Fibroblast Cell Populations	Mahipal Singh	United States
PE-27	The Need for Standardized Cryoprocessing on Preservation Outcomes	Lukas Underwood	United States
PE-28	The Value of a Gift – Understanding the Perceived Value of Post-Mortem Brain Donation For Research	Cassandra Griffin	Australia
PE-29	Assessing the Quality of Plasma Obtained from Blood Plasma Separation Microdevice for Liquid Biopsy Application	Maayla Siddiqi	India
PE-30	ΔS-Cys-Albumin As a Biomarker of Pediatric Biospecimen Integrity	Schuyler Kremer	United States
PF-01	Oversight of Tissue Banking Activity in Clinical Trials by SingHealth Tissue Repository	Kenneth Chang Tou En, Ei Ei Thit	Singapore
PF-02	Incorporating Equity, Diversity, and Inclusion into a Canadian Biobank	Tamsin Tarling	Canada
PF-03	Efforts to Scale Return of Research Results in the Mayo Clinic Biobank	Nicole Larson	United States
PF-04	A Multi-Prong Operating Model for Balanced Application of Ethical & Religious Directives, Federal Regulations, and Virtual Biobank Operations at CHRISTUS Virtual Biobank	Pukar Ratti	United States
PF-06	A Successful Minority Outreach Model for Biobanking	Sharmeela Kaushal	United States
PF-07	Biobank-Specific Regulatory Requirements and How to Address Them	Leda Weiss	Canada
PF-08	Differences and Similarities Between Local and Global Genetic Information Law and Regulatory Considerations	Leda Weiss	Canada
PF-09	What Egyptians Think! Knowledge, Perceptions and Attitude of Egyptian Stakeholders towards Biobanking	Ahmed Abdelhafiz	Egypt
PF-10	Consent Tools for Pediatric Research Involving Databases and Biobanks	Dimitri Patrinos	Canada
PG-01	The Importance and the Specific Method of Education and Training in Biobanking	Karine Sargsyan	Austria
PG-04	Pre and Post-COVID-19 Biospecimens Trend at Princess Margaret Cancer Biobank	Aurora Mejia-Benitez	Canada
PG-05	The Medical Research Council/Uganda Virus Research Institute and London School of Hygiene & Tropical Medicine Uganda Research Unit Biobank Experience and Continuation during Corona Virus Disease of 2019 in Uganda	Phillis Babirye	Uganda
PG-06	Harmonization of Electronic Medical Records Diagnoses Between Hamad Medical Corporation and Qatar Biobank	Kawthar Al-Dabhani	Qatar
PG-07	Biospecimen and Data Resources from the Cancer Moonshot Biobank	Ping Guan	United States
PG-08	What Happens to Recruitment Rates at a Biobank when Healthcare Goes Virtual?	Leda Weiss	Canada
PG-10	Rationale for a Hybridized Consent Workflow in a Biobank Adapting to Virtual Health Care	Andrea Tyler	Canada
PG-11	Refining Approach Strategies Using Pre- and Post-Covid Consent Metrics at the McCain GU Biobank	Leda Weiss	Canada

ID	Title	Presenter	Country
PG-12	Lessons Learned from the COVID-19 Pandemic: The Need for Flexible Biobanking of Healthy Control Samples	Leda Weiss	Canada
PG-13	Whole Community Living Microbiome Biobanking	Darya Chernikhova	Iceland
PH-01	Synergizing Biobanking Processes Between Academia And Commercial Biobanks.	Chon Boon Eng	Singapore
PH-02	Biobanking in East and Central Africa: A Case of the Integrated Biorepository of H3Africa Uganda	Gideon Nsubuga	Uganda
PH-03	Audit of Biospecimens at Medical Research Council/Uganda Virus Research Institute and London School of Hygiene and Tropical Medicine Biobank in Uganda	Esther Nabanoba	Uganda
PH-04	Overview of Shefa Al Orman Hospital Biobank in Upper Egypt	Rehab Mohamed	Egypt
PH-05	An Experience of Organizing and Maintaining the First National Tumour Tissue Repository (NTTR) in India	Sangeeta Desai	India
PH-06	To Keep or Not to Keep – Minimizing Biohoarding in a Resource Limited Setting.	juhi tayal	India
PH-07	Recruitment Strategies for a Non-Hospital Based Academic Biobank in South Africa: the Journey of the CHM Biobank	Engela Conradie	South Africa
PH-08	Evaluating the Efficacy of Density Gradient Centrifugation for the Biobanking of Malignant Cells in Patients with Hematological Disorders	Olga Bigun	Canada
PH-09	Ensuring Sustainability for Clinical Laboratory Support of Biospecimen Procurement	Megan Griffin	United States
PH-10	Van Andel Institute's Biospecimen Core Resource for the NCI Cancer Moonshot Biobank	Scott Jewell	United States
PH-11	Rapid Establishment of a Biospecimen Resource to Study the Global Impact of Covid-19 Vaccines	Karen Berliner	United States
PH-12	Translational-ANZGOG (TR-ANZGOG): Enhancing Translational Research Capacity in Gynaecological Cancer Clinical Trials to Optimize Research Impact	Claire Davies	Australia
PH-13	Effective Biobanking of Tissue Biopsies through Vaccum Sealing Method	Sindhu Govindan	India
PH-14	Cancer Screening and Biobanking: Insights from Community Wellness Initiative in India	Ruma Pengal	India
PH-15	Biobank at Indus Hospital & Health Network, Pakistan	Hanya Hussein Mohamed	Pakistan
PI-01	Implementing Natural Language Processing Technology in the Department of Pathology and Biorepository Using the eLearning for Staff Training	Galina Khramtsova	United States
PI-02	Application of Natural Language Processing in the Current and Future Work in the Department of Pathology and Institutional Biorepository	Galina Khramtsova	United States
PI-03	SIMBIOX, an In-House Data Management System for Biobanks in Indonesia	Ery Dwianingsih	Indonesia
PI-04	pccm_db: A Sophisticated High Granularity Breast Disease Dataset Created Utilizing a Easily Implementable Data Entry Too	Devaki Kelkar	India
PI-06	A Review of COVID-19 Lockdown Across Different Countries During 2020: Characterization of Risk Factors and Severity of COVID-19 in Egyptian Patients	Hanya Sayed	Egypt
PI-05	Data Profiling of HuBIS_Sam SPREC data of the Korea Biobank Network	Byeong Mun Heo	South Korea
PJ-01	Investigating the Labeling Workflow and Incorporation of Automation for Increased Collaborations	Amy Armstrong	United States
PJ-02	An Analytical Method to Determine Quality of Fixation Using Vibrational Spectroscopy and Machine Learning	David Chafin	United States
PJ-03	Sensitive Internal Thermal Monitoring Provides an Indication of Tank Health and Advance Alert for Impending Tank Failure	Michael Rusnack	United States
PJ-04	A New Cohort Study Management Application: Improvements to Efficiency and Morale in the Two Months Following Adoption	Rose Martin	United States
PJ-05	Fully Automated, Non-Destructive Processing and Imaging of Intact Tissue Samples	Michael Levene	United States
PJ-06	Justifying an Automated Biobank in Your Business Plan	Cory Tiller	United States

ID	Title	Presenter	Country
PK-01	Brain Tumor Biobanking in the Postmortem Setting	Katy McCortney	United States
PK-02	Implementing Technology to Enhance Sample Quality and Expedite Workflows at the National Centralized Repository for Alzheimer's Disease and Related Dementias (NCRAD)	Michael Edler	United States
PK-03	Increased Requests for Fresh Samples Impact the Workflow for The Cooperative Human Tissue Network (CHTN) Midwestern Division.	Randal Mandt	United States
PK-04	A Robust, Inexpensive Solution for Alarm Monitoring of Freezers, Incubators, and Other Biobank Equipment Based on Readily Available, Easy to Deploy Home Alarm Equipment	Jonathan Katz	United States
PK-05	Satellite Lab Concept to Reduce Processing Turnaround Time	Gary Welch	United States
PK-06	An Inside Look into Biobank Sustainability at UHN Biospecimen Services	Aurora Mejia	Canada
PK-07	The Utilization of Sample Confirmation Testing (SCT) in Improving Quality Assurance and Quality Control in the eyeGENE Biorepository	Ranya Al Rawi	United States
PK-08	Communication with Participants: From the Report of the 3rd Biobank Open Forum "Biobank and Participation" Held in Japan	Junko Ikeda	Japan
PK-09	Fuelling Local Cancer Research by Establishing Biorepository Best Practices for Quality Samples at the University of Texas at El Paso	Shonali Paul	United States
PK-10	Evacuation of the Cryobank During of Military Aggression	Maryna Petrushko	Ukraine
PK-11	Risk Management of Total Inventory and Operations Transfer to a New Biobanking Space: A Case Study	Razan Humeida	United States
PK-12	Data Management Pipeline Implementation as a Tool to Foster 3.0 Biobanking	Teresa Botta	Spain
PK-13	Alessandria Biobank. Creation of Breast Cancer Collection	Giulia Oliveri	Italy
PK-14	Utilization of Study Specific Workflows in Conjunction with Standard Operating Procedures and/or Study Specific Laboratory Manuals to Manage Multiple Studies in a GCLP Biorepository	Robyn Osborne	United States
PK-15	Intraoperative Collection of Neurosurgical Biorepository Tissue	Beth Hermes	United States
PK-16	A Collaborative Communication Model to Support Quality Culture	Annemieke De Wilde	Belgium
PK-17	A Ten-Year Review of a Prospective Procurement Biospecimen IRB and the Influence on Specimen Procurement and Distribution at the Cooperative Human Tissue Network (CHTN) Midwestern Division.	Shelly Belcher	United States
PK-18	The Development and Implementation of an Overhauled Biospecimen Collection Database Within a Mature Biobank	Leda Weiss	Canada
PK-19	Moving the Duke Human Vaccine Institute (DHVI) Accessioning Unit and Biorepository During the COVID-19 Pandemic	Thaddeus Gurley	United States
PK-20	Metamorphosis in an Online Era: Migration of Consent Collections to a Paperless System by Digitization of Information	Aurora Mejia	Canada
PK-21	Exhuming Forgotten Treasures: Digitizing Archived Samples for the Future Generation	Aurora Mejia	Canada
PK-22	Building a Better Biorepository, Block by Block	Kristina Peterman	United States
PK-24	Use of The College of American Pathologists Competency Assessment Program to Maintain and Document Staff Training	Angela Butler	United States
PL-01	Qatar Biobank's (QBB) Journey for ISO 20387:2018 Accreditation	Wilma Lobo	Qatar
PL-02	High Quality BioBanking in Belgium: the Road towards ISO20387 Accreditation (B3-ISO)	Annemieke De Wilde	Belgium
PL-03	Biorepository Processing Data Standards and Data Validation As an indicator of Standard Operating Procedure Compliance and Biospecimen Quality	MaryBeth Joshi	United States
PL-04	The National Institute of Diabetes and Digestive and Kidney Diseases Central Repository Resources for Research (NIDDK-CR R4R): Enabling FAIRness and TRUSTworthiness with Data & Specimen Standards	Michael Keller	United States



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**QUALIFICATION in
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Contributors

Ahmed Samir Abdelhafiz
Rocio Aguilar Quesada
Christopher Battiston
Marianna Bledsoe
Marta Castelhan
Dianne Chadwick
Nilay Chakraborty
Michael Edler
Helena Ellis
Sarah Furlong
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Debra Leiolani Garcia

Lyn Healy
Marianne Henderson
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Anna Michalska-Falkowska
Cheryl Michels
Amanda Moors
Hellen Nansumba
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Adelina Ovcharenko
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Jae Pil Jeon
Ian Pope
Rebecca Pugh
Dean Rainbolt
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Ole Seberg
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Tatsuaki Tsuruyama
Rose Upton
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Craig Willers
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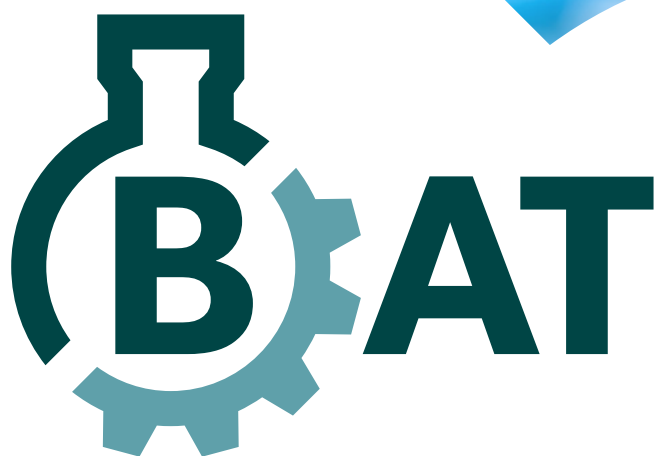
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