VIRTUAL PROGRAM

Dreaming Beyond Barriers: The Future of Biobanking

#ISBER #ISBER2024
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Vision

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

Mission

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

Goals

- Disseminate information on repository management issues
- Educate and share information and tools within the society and with stakeholders
- Act as the voice for repositories to influence regulations and policy
- Develop best practice guidelines
- Provide centralized information about existing repositories
- Bring members together to work on emerging issues
MESSAGE FROM THE ISBER PRESIDENT-OF-THE-BOARD

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 2024 ISBER Annual Meeting, in person on April 9-12, 2024 in Melbourne, Australia, and virtually on May 28-29, 2024.

Under the leadership of our Scientific Program Co-Chairs, Cassandra Griffin (Australia), Gregory Grossman (USA), and Amanda Moors (USA), and supported by an excellent Program Planning Task Force, this year’s theme is “Dreaming Beyond Barriers: The Future of Biobanking”. The future of biobanking is in our hands and it is an exciting, albeit challenging, time to be at the forefront of medical (human and animal), biodiversity and environmental research. This is the time to be ambitious, think big and break down those barriers, and during this meeting we will hear how the global biobanking community is doing just that.

Huge thanks go to our invited speakers, workshop presenters, roundtable leaders, corporate session leaders and oral and poster abstract presenters – the subject matter you have put forward has created a great program, wonderfully shaped by the Program Planning Task Force. There are many opportunities for networking and creating new collaborations and friendships across the four days, as well as space to learn about how ISBER and its tools can support you in your daily work.

Thank you to our sponsors, who continue to show unwavering support for ISBER and biobanking. Do take time to visit the exhibition hall and speak with the vendors to discover the exciting new developments in technologies, tools, and equipment. Our vendors and their products are fundamental to the future of biobanking so take the opportunity to interact with them, either in the exhibit hall or at one of the corporate sessions.

During your time in Melbourne, you will have the opportunity to visit local biobanks – three internationally renowned biobanks will generously support tours to their facilities the day before the conference program starts. You can also join us for a 5k Fun Run along the Yarra River and help to celebrate ISBER’s 25th anniversary at our Silver Celebration at Cargo Hall, overlooking the river – remember to bring a dash of silver for the occasion! ISBER’s 25th anniversary will be celebrated throughout the conference, with two dedicated sessions looking back, and forward, with ISBER’s perspective on the evolution of biobanking.

Thank you to our ISBER Head Office Staff, who have supported us throughout the year on all aspects of this endeavor.

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 find the meeting educational, valuable and fun. Together, let’s turn the dream into reality and make biobanking flourish in the future!

Sincerely,

Alison Parry-Jones
ISBER President-of-the-Board 2023-2024
Wales Cancer Biobank, Cardiff University, UK
MESSAGE FROM THE PROGRAM PLANNING CO-CHAIRS

25 years of ISBER, a Silver Anniversary! ISBER’s reach and impact today are testament to the dedication of its leaders and members, past and present. Over the past 25 years, we have grown significantly and are now recognized as the leader in international biospecimen science and biobanking excellence. Our meetings have become truly global events, where professionals from around the world convene to advance biobanking. This year we will look back to honor ISBER’s legacy and look ahead to ISBER’s bright future.

ISBER’s 2024 Annual Meeting ‘Dreaming Beyond Barriers: The Future of Biobanking’ is an opportunity to celebrate this momentous occasion, connect and collaborate with colleagues old and new, learn from global experts, share our experiences, reflect on the legacy of our organization and collectively envision the future of biobanking and biospecimen science.

We have been truly privileged to work with two powerhouse task forces, the Program Planning Task Force and Local Planning Task Force to bring you this seminal and inclusive event. With delegates spanning over 30 countries and representing disciplines from ecological preservation, human behaviors, technological innovation and biomedical advances – the event will explore topics pertinent to all repositories, at all stages of operations from inception to implementation and management. We are delighted to deliver you a robust and science-packed program that interweaves formative opportunities to network and collaborate. We are honored that you have joined as a delegate, bringing your acumen, enthusiasm and diverse experiences to this event. You are the essential ingredient which makes this meeting not only possible but enjoyable – full of camaraderie, unity, connection and growth.

In Indigenous Australian Culture, the Dreaming is the source of all things and the lore from which concepts of custodianship, mutual respect and collaboration are grounded. In an age of globalization, changes in practice, virtual models of biobanking and quantum leaps in technology, we can find ourselves with enthusiasm for these emerging opportunities yet concern at the uncertainty they bring. In dreaming beyond these barriers, we as a community can collectively discuss the hurdles we face, harmonize and align practices, mitigate risks while leveraging opportunities to envision a sustainable path forward.

Through the broad range of engagement activities present at the meeting, we will form and shape the future of biobanking. Along with our program and local task forces, we’d also like to convey our sincerest thanks to our corporate sponsors and exhibitors without whom these events would not be possible. Likewise, warmest thanks to ISBER Head Office and the Board of Directors for your input, guidance and support throughout this process and for entrusting us to co-chair such a milestone event.

On behalf of all who have made this possible, and who are attending this conference, we welcome you to stunning Melbourne, Australia and to ISBER’s 25th Anniversary Annual Meeting – and we know the best is yet to come!

Gregory Grossman, PhD, BCMAS, CCRP, CEBT
ISBER 2024 Annual Meeting Co-Chair
Advancing Sight Network
USA

Amanda Moors, BS
ISBER 2024 Annual Meeting Co-Chair
National Institute of Standards and Technology
USA

Cassandra Griffin, BA, BiomedSci and MPH
ISBER 2024 Annual Meeting Co-Chair
University of Newcastle – NSW Regional Biospecimen Services
Australia
ISBER BOARD OF DIRECTORS, COMMUNITIES OF PRACTICE CHAIRS, AND PROGRAM TASK FORCE

ISBER BOARD MEMBERS

Alison Parry-Jones, PhD, MA, MRSC
PRESIDENT-OF-THE-BOARD
May 2023 – May 2024
Wales Cancer Bank - Cardiff University
South Glamorgan, United Kingdom

Clare M. Allocca, MS, PMP
PAST PRESIDENT-OF-THE-BOARD
May 2023 – May 2024
National Institute of Standards & Technology
Maryland, United States

Dayong Gao, PhD, BSc
PRESIDENT ELECT-OF-THE-BOARD
May 2023 – May 2024
University of Washington
Washington, United States

Cathy Seiler, PhD
TREASURER
May 2023 – May 2026
AstraZeneca
Massachusetts, United States

Rebecca Pugh, MS
SECRETARY
May 2023 – May 2026
National Institute of Standards and Technology
South Carolina, United States

William Schleif, PhD
DIRECTOR-AT-LARGE - Americas
May 2023 – May 2026
Johns Hopkins All Children’s Pediatric Biorepository
Florida, United States

Xun Xu, PhD
DIRECTOR-AT-LARGE - China
May 2021 – May 2024
China National GeneBank
Guangdong, China

Engela Conradie, PhD, Pr.Sci.Nat
DIRECTOR-AT-LARGE - Europe, Middle East, Africa
May 2022 – May 2025
Centre for Human Metabolics
Pretoria/ Pretoria, South Africa

Wayne Ng, PhD
DIRECTOR-AT-LARGE - Indo-Pacific Rim
May 2023 – May 2027
Victorian Cancer Biobank
Melbourne, Australia

Dana Cooper, MBA, BKin, CAE
EXECUTIVE DIRECTOR
Ottawa, Canada

Communities of Practice Chairs

Education and Training
Tamsin Tarling, BSc, Msc
EDUCATION AND TRAINING COMMITTEE CHAIR
Post COVID Recovery Clinic
British Columbia, Canada

Science Policy
Helen Morrin, MA
SCIENCE POLICY COMMITTEE CHAIR
University of Otago Christchurch
Christchurch, New Zealand

Standards Policy
Annemieke De Wilde, MSc
STANDARDS COMMITTEE CHAIR
Belgian Cancer Registry/BBMRI.be
Brussels, Belgium

2024 Program Planning Task Force

Co-Chairs
Cassandra Griffin, University of Newcastle - NSW Regional Biospecimen Services, Australia
Gregory Grossman, Advancing Sight Network, USA
Amanda Moors, National Institute of Standards and Technology, USA

Lori Campbell, Analytical Biological Services, Inc., USA
Daniel Catchpoole, The Children’s Hospital at Westmead, Australia
Koh Furuta, Chiba Medical Center, Japan
Debra Leiolani Garcia, Independent Consultant, USA
Marianne Henderson, National Cancer Institute, Maryland, USA
Anusha Hettiaratchi, University of New South Wales, Australia
Kouame Ambroise Kintossou, Institut Pasteur Côte d'Ivoire, Côte d'Ivoire
Anna Michalska-Falowska, Medical University of Bialystok, Poland; Medical University of Graz, Austria, Poland

Sandra Nanyonga, Universite Côte d’Azur, France
Karena Pryce, The Westmead Institute for Medical Research, Australia
V Krishnan Ramanujan, Cedars Sinai, USA
Georget Reaiche-Miller, The University of Adelaide, Australia
Rosy Singh, Barrow Neurological Institute, USA
Yan Ru Su, Vanderbilt University Medical Center, USA
Lalita Wadhwa, Texas Children’s Hospital, USA
Cynthia Weyant, Precision For Medicine, USA
JOIN ISBER TODAY!

RECEIVE THESE BENEFITS WITH YOUR MEMBERSHIP:

- Free or discounted access to ISBER educational resources
- Opportunity to connect with a global group of professionals in biobanking through the ISBER Members-only Forum
- Discounted access to Biopreservation and Biobanking (BIO), ISBER's official journal
- Reduced registration rates to ISBER meetings

ISBER is the only global forum that addresses harmonization of scientific, technical, legal, and ethical issues relevant to repositories of biological and environmental specimens.

Connect to a global group of professionals in biobanking.

NEW ISBER MEMBERS RECEIVE 15% OFF THEIR FIRST-YEAR OF MEMBERSHIP!

READY TO JOIN?

VISIT WWW.ISBER.ORG
ISBER AWARD RECIPIENTS

ISBER Award for Outstanding Achievement in Biobanking
The ISBER Award for Outstanding Achievement in Biobanking is designed to recognize individuals who have made outstanding, indisputable contributions to the field of biobanking. The winning individual is not required to be an ISBER member. Their contributions may include: advancing the science of biobanking, creating depth of knowledge, demonstrating world-class expertise, making remarkable discoveries, bringing the field into further prominence.

Marta Castelhano
Cornell University, USA
Award sponsored by Analytical Biological Services Inc.

Diane McGarvey
University of Pennsylvania, USA
Award sponsored by MVE Biological Solutions

ISBER Leadership Award
The ISBER Leadership 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. ISBER recognizes contributors who have played critical roles in developing and executing ISBER’s vision and mission.

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.

Koh Furuta
Chiba Medical Center, Japan

Rocío Aguilar-Quesada
Biobanco del Sistema Sanitario Público de Andalucía, Spain
THANK YOU TO OUR 2024 SPONSORS & EXHIBITORS

**Gold Sponsor**

![Thermo Fisher Scientific](image)

**Silver Sponsor**

![Azenta Life Sciences](image)

**Bronze Sponsors**

![bio-strategy](image)

![Hamilton](image)

![MVE Biological Solutions](image)

**Exhibitors**

300K Solutions, ACRYO Australia and Stirling Cryogenics, Antidote Biomedical, Askion GmbH, Autoscribe Informatics, Azenta Life Sciences, Bio-Strategy Pty Limited + pHcbi, Bluechip, CRYO BIO SYSTEM, Cryotherm GmbH & Co KG, Freezerworks, Genepoint Technologies, Haier Biomedical, Hamilton Storage, In Vitro Technologies, ISBER, LabVantage Solutions PTY LTD, Liconic US, LVL technologies GmbH & Co. KG, MGI Tech Co., Ltd, MVE Biological Solutions, National Association of Testing Authorities (NATA), Novogene, Olink Proteomics, Origincell, Paragon Care Group, phasetwo, Qatar Precision Health Institute (formerly Qatar Biobank and Qatar Genome Program), TECAN, ThermoFisher Scientific
Where biobanking is a mindset
And breakthroughs are born

Like you, the scientists at Thermo Fisher Scientific see things differently. We are dedicated to helping you realize your vision and change lives.

Our cutting-edge portfolio of biobanking products and services can support every stage of your workflow, giving you the power to secure and preserve samples, track inventory, streamline productivity, and meet your toughest laboratory challenges on the way to discovering your next breakthrough.

Visit us at Booth #18/19
UNRIVALED SAMPLE EXPLORATION AND MANAGEMENT

Sample management, analysis, and automation solutions

Azenta Life Sciences is dedicated to enabling faster scientific breakthroughs, supporting your journey one sample at a time. Recognizing the mission-critical nature of each sample, we deliver unparalleled solutions for sample exploration and management. Well-positioned in key global life science markets, Azenta provides industry-leading support and services throughout the entire lifecycle of a sample.

ATTEND OUR WORKSHOP AT THE ISBER 2024 ANNUAL MEETING:
Mastering Sample Management with Limfinity® Biobanking LIMS
APRIL 10, 2024 | 1:15PM - 2:15PM AEST

EMPOWER YOUR WORKFLOW.
Learn More at Booths 37 & 38
GENERAL CONFERENCE INFORMATION

Virtual Meeting Platform

The ISBER 2024 Virtual Annual Meeting is delivered through the virtual meeting platform, Pheedloop. You may log into the platform to:

- **ENGAGE IN LIVE WORKSHOPS AND LIVE ROUNDTABLE DISCUSSIONS**
- **WATCH RECORDED SESSIONS ON-DEMAND**
- **ACCESS POSTERS AND DISCUSS WITH AUTHORS**
- **VISIT EXHIBITORS AND BROADEN YOUR KNOWLEDGE**
- **NETWORK WITH INDUSTRY LEADERS AND PEERS**

Follow the instructions below to download the Meeting Platform:

1. Scan the below QR code with your mobile camera
2. Select “Access Virtual Web Portal”
3. Log in using the login information sent to you via email
   a. Username: your email address (be sure to login using the same email address you used to register for the meeting.)
   b. Password: use “forgot password” to set your password

Exhibits & Posters

The Exhibit Hall and Poster Gallery are available for you to peruse at your leisure. Exhibitors and poster presenters will be available within their virtual booths / at their virtual posters to answer your questions at the following times:

**TUESDAY, MAY 28:**

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**WEDNESDAY, MAY 29:**

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Poster Presentation Information

All abstract posters are available for you to view within the virtual platform – this includes all posters that were presented in Melbourne, Australia, and those that are being presented virtually only.
Engage with Industry Leaders, Poster Authors, and Peers

Through the virtual platform, there are many options to connect with other virtual delegates:

- Send a private message
- Join a video call
- Request information to exhibitors
- Join live presentations from exhibitors

The networking section allows to filter your search and start conversation by:

- Replying to the matchmaking survey, to be matched with peers of similar interests
- Connecting with those “Online Now”
- Searching for “Poster Presenters”, “Workshop Presenters”, and “Exhibitors”
- Starting group discussions

If a delegate is online, their picture will be circled in green: “Start chat” and connect live!

Certificates of Attendance

All attendees will receive a certificate of attendance electronically upon completing the post-conference delegate evaluation. Distributed via email following the meeting.

Scan the QR code to make the most of your virtual meeting:
## Live Program

### Tuesday, May 28, 2024 / Wednesday, May 29, 2024

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<tr>
<td>Live Welcome Address from the ISBER Past President</td>
<td>Alison Parry-Jones, Wales Cancer Bank – Cardiff University South Glamorgan, United Kingdom</td>
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<td>Featured Video Entitled “Celebration of the 25th Anniversary of ISBER: Honoring Our Past &amp; Envisioning Our Bright Future”</td>
<td>ISBER President, Dayong Gao, University of Washington, USA</td>
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<td>Live Welcome Remarks from the 2024 Annual Meeting Program Chairs</td>
<td>Cassandra Griffin, University of Newcastle – NSW Regional Biospecimen Services, Australia; Gregory Grossman, Advancing Sight Network, USA; Amanda Moors, National Institute of Standards and Technology, USA</td>
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<td>ISBER Mentoring Program</td>
<td>Lori Campbell, Analytical Biological Services, USA; Marianne Henderson, National Cancer Institute, USA; Judith Giri, Independent Consultant, USA; Shonali Paul, CloudLIMS.com, USA</td>
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<td>ISO20387 Systematic Review</td>
<td>Clare Allocca, National Institute of Standards &amp; Technology, Maryland, USA</td>
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<td>Elevating Biobanking: Crafting International Standards, Competencies, and Visibility through Education</td>
<td>Marta Ambrozewicz, Eastern Virginia Medical School Biorepository, USA; Naghmeh Rastegar, University Health Network, Canada; Tiiu Sildva, University Health Network, Canada</td>
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<td>The ISBER/ASCP BOC Qualification in Biorepository Science (QBRS) Exam</td>
<td>Brent Schacter, CancerCare Manitoba/University of Manitoba, Canada</td>
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<td>Participatory Bio Banking: What Does It Look Like?</td>
<td>Amrita Nanda, Aapti Institute, India</td>
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E&T WORKSHOP: CHARTING THE COURSE: INNOVATIONS IN BIOBANKING EDUCATION FOR THE FUTURE

“Charting the Course: Innovations in Biobanking Education for the Future” is a dynamic workshop exploring the evolving world of biobanking. Participants delve into trends shaping the sector, laying the groundwork for understanding their impact on education. The workshop embraces technology, data management, and experiential learning, preparing the next generation of professionals. Engaging discussions, real-world case studies, and practical activities led by international experts enriches the experience. Addressing the fluid nature of biobanking, the workshop fosters collaboration through interactive sessions. This workshop empowers individuals to actively contribute to biobanking education transformation, shaping the sector’s future collaboratively.

Presenters:
Anna Michalska-Falkowska, Medical University of Bialystok, Poland
Karine Sargsyan, Medical University of Graz, Austria, Cedars-Sinai Medical Center, California, USA

E&T WORKSHOP: WHAT’S YOUR SHOE SIZE? A WORKSHOP ON ASSESSING ENVIRONMENTAL FOOTPRINT IN BIOREPOSITORY PRACTICES

This workshop aims to foster awareness and provide practical guidance on integrating green biobanking practices within repositories. Participants will gain an understanding of green biobanking principles, learn practical information about environmentally sustainable strategies and implementation challenges. Attendees will also acquire knowledge of the tools available to conduct a preliminary assessment of carbon footprint in biobanking and engage in exercises to assess and mitigate their biobank’s environmental impact.

Presenters:
Naghmeh Rastegar, UHN Biospecimen Services, Canada
Tiiu Sildva, UHN Biospecimen Services, Canada

E&T WORKSHOP: BEYOND DREAMING: OVERCOMING PUBLICATION BARRIERS TO SUCCESSFUL, HIGH-QUALITY BIOBANKING MANUSCRIPTS AND SECTIONS

Biobanking manuscripts can be rejected for a variety of reasons. These include inappropriate choice of a target journal, lack of innovation, poor writing, missing or unclear hypothesis, statistical and data issues, and statements or conclusions not supported by the data. Often, a manuscript may require several rounds of review to address peer reviewer comments. This workshop will help attendees identify the steps in the process and potential challenges to manuscript publication. It will also provide advice on writing a successful, high-quality manuscript for timely publication in Biopreservation & Biobanking (BIO) or other relevant journals. The process for organizing special features, sections, or issues of BIO will also be discussed.

Presenters:
Marianna Bledsoe, Biopreservation and Biobanking, Colorado Springs, USA
Marianne Henderson, National Cancer Institute, USA
Zisis Kozlakidis, IARC/WHO Lyon, France
Amanda Rush, Menzies Centre for Health Policy and Economics, The University of Sydney, Australia (Video)
### TUESDAY, MAY 28, 2024 / WEDNESDAY, MAY 29, 2024

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**KEYNOTE LECTURE MODULE**

*13:00 – 14:00 [Watch on demand]*

**KEYNOTE LECTURE: Bringing Back the Past to Protect our Future**

Andrew Pask, The University of Melbourne, Australia

*14:00 – 14:30* Live Q&A with Andrew Pask, The University of Melbourne, Australia

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**Visit Exhibitors**

### WEDNESDAY, MAY 29, 2024 / THURSDAY, MAY 30, 2024

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**E&T WORKSHOP: ACHIEVING BIOLOGICAL MATERIAL QUALITY HARMONIZATION OUTCOMES**

The reputation of a biobank can be built on a foundation of quality. The perception of quality interpretation can oscillate from biobank to biobank resulting in variable biological material outcomes. In this workshop, we will focus on quality requirements for biological materials and their lifecycle from pre-analytical through to post-analytical phases, bust quality control fears, discuss challenges, share our experience and offer practical approaches to how these quality requirements can be documented and used to build a compliant quality report per ISO Biobanking standard 20387:2018

**Presenters:**

Monika Markovic Bordoski, Qatar Foundation, Qatar
Eiman Al Khayat, Qatar Biobank, Qatar
E&T WORKSHOP: THE FUTURE OF BIOBANKING: PARTICIPATORY GOVERNANCE

In increasing global research, understanding of disease and potential improvements in health are accompanied by the reproduction and exacerbation of systemic inequities and biases. Biobanks can respond to such challenges by working with the impacted communities to demonstrate trustworthiness, maintain legitimacy, and ensure sustainability. Workshop attendees will engage with the discourse around participatory governance for building inclusive and just biobanks and draw from our research to co-create recommendations for operationalising context specific participatory methods reflecting human-centric values.

Presenters:
Nanda Amrita, Aapti Institute, India
Rattanmeek Kaur, Aapti Institute, India
Rachel Thompson, Nuffield Department of Medicine, University of Oxford, United Kingdom

Visit Exhibitors

BREAK

COMMUNITIES OF PRACTICE MEETING + AFFILIATES

Are you interested in learning more about ISBER’s Education & Training, Science Policy and Standards Communities of Practice? We invite all interested affiliates to join this session and learn more about the impactful work these CoPs do each year, meet the steering committees, and learn about opportunities to be involved.
### WEDNESDAY, MAY 29, 2024 / THURSDAY, MAY 30, 2024

#### ROUNDTABLE DISCUSSIONS

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<th>Time</th>
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<tr>
<td>2:00pm – 3:00pm</td>
<td>5:00pm – 6:00pm</td>
<td>11:00pm – 12:00am</td>
<td>5:00am – 6:00am</td>
<td>7:00am – 8:00am</td>
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</tbody>
</table>
| Ethical Principles for International Biospecimen and Data Sharing | Mark Barnes, Ropes & Gray LLP and the Multi-Regional Clinical Trials Center of Brigham and Women’s Hospital and Harvard, USA  
Marianna Bledsoe, Biopreservation and Biobanking, USA  
Mayumi Kusunose, RIKEN Centre for Integrative Medical Sciences, Japan  
Rita Lawlor, ARC-NET Centre for Applied Research on Cancer and Department of Engineering for Innovative Medicine, University of Verona, Italy  
Annette Schmid, Takeda Pharmaceutical Company Limited, USA | Challenges and Solutions for Clinical Sites Engaged in Cancer Biobanking | Helen Moore, NCI/NIH BBRB, USA  
Helena Ellis, NCI/NIH, USA | Striking the Balance: Tissue Triage of Rare Diseases to Balance the Biospecimen Demands of Clinical Care, Molecular Trials and Discovery Research | Dan Catchpoole, Kids Research, The Children’s Hospital at Westmead, Australia  
Louise Ludlow, Murdoch Children’s Research Institute, Australia | Biobanking as an Informatics Problem | Dan Catchpoole, Kids Research, The Children’s Hospital at Westmead, Westmead, NSW, Australia  
Hanh Vu, Vinmec Healthcare System, Vietnam |
| 3:00pm – 4:00pm    | 6:00pm – 7:00pm     | 12:00am – 1:00am   | 6:00am – 7:00am | 8:00am – 9:00am |
| Biobanking as an Informatics Problem | Dan Catchpoole, Kids Research, The Children’s Hospital at Westmead, Westmead, NSW, Australia  
Hanh Vu, Vinmec Healthcare System, Vietnam |
Environmental biobanking, commonly known as Enviro-Bio, involves the collection, storage, and analysis of veterinary, botanical, agricultural and geological resources. These samples hold infinite research potential for the discovery of new compounds, conservation science, marine science food security, and public health. On the other side of the coin, in a world where global warming and climate change are ever-present concerns, the role that biobanking plays in affecting our natural environment is of growing concern, increasing the profile of topics such as decarbonisation and microplastic pollution. This session looks at the current state of Enviro-Bio biobanking and the opportunities it affords research and then examines associated barriers and challenges to provide a balanced view of the value and impact of biobanking. By stepping back and looking at environmental risk/benefit, we can work to move beyond the barriers posed by biobanking infrastructure and activities towards a productive and environmentally sustainable ‘one health’ approach.

**KEYNOTE LECTURE: Bringing Back the Past to Protect our Future**
Andrew Pask, The University of Melbourne, Australia

**Ex situ Conservation of Australia’s Plant Biodiversity**
David Merrit, Department of Biodiversity, Conservation and Attractions, Australia

**The Role of Natural History Museums in Fighting the Illegal Wildlife Trade. Introducing ShellBank: A Global DNA Database for Marine Turtles**
Greta Frankham, Australian Museum, Australia

**Breakthroughs by Biobanking – Discovering Research Tools from Arthropod Venoms**
Volker Herzig, University of Sunshine Coast, Australia

**South Africa as a Megadiverse Country: Biodiversity Banking Benefits**
Kim Labuschagne, South African National Biodiversity Institute, South Africa

**When Plastic is not Fantastic: The Biobanking of Marine Debris as an Emerging Contaminant of Concern**
Katherine Shaw, National Institute of Standards and Technology, USA

**Driving to Net Zero in Biobanking- Best Practice Paths and Solutions**
Scott Masiella, Trane Technologies, USA

**SYMPOSIUM 2A: Transforming Biobanking and Research with AI: A New Era of Discovery and Innovation**

Artificial Intelligence (AI), including large language models (LLM) and machine learning (ML), neural networks, and deep learning are transforming biobanking and biospecimen science by enabling new possibilities for medical research and drug development. AI can also help biobanks integrate genomic data with existing health information and provide a way of understanding the impact of genetic variation on human and animal health. Integration of environmental data through AI will help us learn the various causes of regional stresses (fires, extinctions, drought, etc.). Using techniques to derive simulated or synthetic data offers researchers several benefits, such as the ability to test hypotheses, evaluate algorithms, and conduct experiments in controlled environments. Simulations allow for the exploration of complex scenarios that might be costly, unethical, or impractical to generate in real life. They also facilitate rapid iteration and fine-tuning of experimental setups, enabling researchers to gain insights more efficiently and rapidly. Blockchain has been proposed to provide data security and privacy protections. The symposium will explore all these topics and include an interactive discussion with the speakers and audience participation. It will also discuss ethical risks, bias, lack of democratization, and transparency with these technologies.

**Introduction**
Dan Catchpoole, The Children’s Hospital at Westmead, Australia

**From Sample to Cloud: How Digitisation and AI Can Unlock New Value of Biobanks**
Stefan Harrer, CSIRO, Australia
### The AI Revolution in Life Sciences: From Interacting Molecules to Public Health Modeling
Jerome Baudry, The University of Alabama in Huntsville, USA

### Developing Computational Pathology Approaches from Biobanked Breast Cancer Specimens (Video)
Gavin Harris, Health New Zealand, New Zealand

### An Introduction to Blockchain Biobanking and Decentralized AI
Caspar Barnes, AminoChain, USA

### Demystifying AI Ethics: Why Transparency, Accountability, Equity and Inclusion Matter in Enabling AI Innovation
Jeannie Marie Patterson, University of Melbourne, Australia

### Panel Discussion & Closing Remarks

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### SYMPOSIUM 2B: A BioBank Blueprint: Human-Centered Design & Improvement

Human factor engineering is an applied field of study that examines human abilities, limitations, behaviours, and processes in order to inform human-centered designs. The study of human factors can be applied to processes in any organization, influencing infrastructure development and structural designs. Biobanks are organized infrastructures, many with common human-centred processes including enrolling patients through informed consent, obtaining biospecimens from patient donors evaluating the outcomes of researcher projects and determining the impact of biobanks. Whatever the goal, biobanking workflows epitomize a complex interplay of various processes requiring different human skillsets – yet the value of human factors and process design remain as a peripheral influence. Additionally, within busy institutions – hospitals, research centers, universities – biobanks often struggle to be noticed and are seldom consulted early during research initiatives. Raising awareness of biobanks through engagement with different stakeholders (aka humans!) finding mutual benefit and consensus is therefore increasingly crucial. This symposium will explore the interplay between biobanks and those actors within an expansive biobanking community, drawing attention to the power of human factors research to enhance success. Furthermore, welcoming cross-pollination of ideas and building a strong change growth mindset can expand organizational success.

### Introductions
Samantha Higgins, Victorian Cancer Biobank, Australia

How Innovation and Design can Support the Creation of Better Services, Strategies and Ecosystems for Biobanking
Alex Garrett, NSW Health Pathology, Australia

Digital Change: The When, How, What Not and Benefits
Gerry McKiernan, Increment4 Pty Ltd, Australia

Spatial Multi-Omics Analyses Reveal Markers of Disease Progression in Non-Small Cell Lung Cancer
Marie-Liesse Asselin-Labat, Walter and Eliza Hall Institute of Medical Research, Australia

Unlocking Potential: A Social Engineering Approach to Biobank Awareness in India
Birendra Kumar-Yadav, Biobank India Foundation (BBIF), India

Cultivating Trust for Advancement of Biobanking in LMICs
Hanh Vu, Vinmec Healthcare System, Vietnam

Challenges in Cancer Biobanking – A Lived Experience Perspective
Naveena Nekkalapudi, Consumer Representative, Australia
**SYMPOSIUM 3A: The Power of Biobanks in the Era of Precision Medicine**

In an era marked by astounding advancements in medical science, biobanking is enabling the practices of precision medicine and overcoming its challenges, and this convergence has emerged as a transformative force in healthcare. Biobanks are revolutionizing patient care by enabling tailored treatments, predictive diagnostics, and breakthrough therapies through engagement with clinical teams in the pharmaceutical industry, with biotech, with living biobanks, and in data management. Recent advances in the field, such as organoids and novel cell technologies or new data-mining techniques, allow for the democratization of precision medicine, leading to individualized healthcare to become the norm in the near future. Indeed, good biobanks create opportunities to pose new hypotheses, are essential to elucidate the mechanisms of diseases, and enable scientific discoveries to be made possible through facilitated access to biospecimens. High standards and best practices of biobanking are the first steps for successful precision medicine clinical trials. Ultimately, biobanking creates the link between the patients themselves and the ability to deliver precision medicine. This symposium will explore the dynamic interplay between biobanking and personalized medicine by bringing together experts who have developed best practices for managing biobanks to support precision medicine, presenting the latest success stories.

**Introductions**

Yan Ru Su, Vanderbilt University Medical Center, USA

**Patient-Directed Biobanking to Power Precision Oncology**

Marshall Thompson, The Rare Cancer Research Foundation, USA

**Intersecting Biobanking with a Multi-Omics Systems Biology Approach to Understand Vascular Disease: The DEFINE FMD Study**

Jason Kovacic, Victor Chang Cardiac Research Institute, Australia

**Brain Banking – Three Decades On**

Anita Mahadevan, National Institute of Mental Health & Neurosciences, India

**Biobanking as Part of a Personalised Medicine Service in Vietnam**

Xuan-Hung Nguyen, Hi-Tech Center, Vinmec Healthcare System, Vietnam

**Solving Tomorrow’s Food Crisis Today: The Role of Bio-banking in Cultured Meat**

Victoria Prior, Vow, Australia

**Unlocking the Potential: Exploring the Synergy of Phage Bioprospecting, Biobanking, and Phage Therapy in the Era of Precision Medicine**

Ruby Lin, The Westmead Institute for Medical Research, Australia

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**SYMPOSIUM 3B: The Power of Specimen and Data Banking – DNA the Hidden Gem!**

Going back to basics. There are numerous areas of Biobanking where DNA has been and will continue to be the key contributor. DNA and DNA databases have helped diversify the field of Biobanking by including ground breaking discoveries in areas such as human, veterinary, marine, zoological and environmental research. Underpinning the access and use of DNA for wide ranging research protocols is the central precept of consent. Consent takes many forms and raises a multitude of ethical considerations relative to the nature of DNA collection and analysis undertaken. In this session we will explore the use of DNA in major crime investigation including missing persons and cold cases. We’ll then consider the parallels and variations of environmental surveillance including key concepts from native animal species and waste water surveillance, concluding by discussing key concepts of consent relevant to each and novel approaches being considered to address the unique ethical and legal components.

**Introductions**

Georget Reaiche-Miller, The University of Adelaide, Australia & Anusha Hettiaratchi, University of New South Wales, Australia

**Impulsive Behaviour – Special Considerations for the Study of Sensitive Populations Outside of the Normal Health Care Environment**

Rodney Scott, University of Newcastle, Australia

**DNA – Identifying the Unidentified (Video)**

Louise Newell, National Crime Agency, United Kingdom
Human Genetic Research in Wallacea and Sahul
Gludhug Purnomo, Australian Centre for Ancient DNA, Australia

Opportunistic Sampling and Citizen Science Enables Research and Conservation in Egg-laying Mammals
Frank Grutzner, The University of Adelaide, Australia

Wastewater Banking: Proof of Concept as an Archival Record of Population-Level Infectious Disease Prevalence
Masaaki Kitajima, Hokkaido University, Japan

Wastewater Based Epidemiology and ELSI
Ayuko Nemoto, Aquaxis Law Office, Japan

**SYMPOSIUM 4: Rising Stars: Next Generation Biobankers**

The Rising Stars: Next Generation Biobankers session’s focus is to showcase upcoming stars and/or early biobanks and their achievements in biobanking (technology, organization, data management, etc.). The speakers will highlight their milestones, achievements, advancements in new biobanking techniques along with the challenges and barriers they overcame to establish their biobanks. The session will conclude with a panel discussion to allow the audience the opportunity to ask questions. This session can provide opportunities to network with more seasoned biobankers, encourage mentoring, and provide possible partner collaborations.

**Introductions**
Sandra Nanyonga, Universite Cote D’Azur, France

The MRC/UVRI and LSHTM biobank; the Past, Present and the Future
Esther Nabanoba, Medical Research Council-Uganda, Uganda

Benchmark for Establishment of Organoids from Gastrointestinal Epithelium and Cancer
Yingyan Yu, Ruijin Hospital, Shanghai Jiaotong University School of Medicine, China

Strengthening Biobanks Development in Developing Countries
Io Hong “Jacky” Cheong, School of Public Health, Shanghai Jiao Tong University School of Medicine, China

Human Repository: A Malaysian’s Panorama
Subasri Armon, Hospital Kuala Lumpur, Malaysia

**Corporate Workshops**

Corporate Workshop #1 by ThermoFisher Scientific
End-to-End Digital Solution for the Complete Biological Sample Workflow (A LIMS Purpose-Built for Biobanks)
Effat Selim, Digital Science Solutions, ANZ, Australia

Corporate Workshop #2 by MVE Biological Solutions
Navigating Challenges: Innovative Approaches to Storage and Shipping of Biological Samples in Remote and Resource-Limited Environments
Buzz Bies, MVE Biological Solutions, USA

Corporate Workshop #3 by Azenta Life Sciences
Mastering Sample Management with Limfinity Biobanking LIMS
Kathi Shea, Azenta Life Sciences, USA, Scott Baker, Azenta Life Sciences, USA, Richard Peck, Azenta Life Sciences, United Kingdom

Corporate Workshop #4 by Olink Proteomics
Olink® Explore Data Stories from UK Biobank Pharma Proteomics Project: Transform biobank samples into actionable insights
Cindy Lawley, Olink Proteomics, USA, Slavé Petrovski, AstraZeneca, United Kingdom, Brenton Short, Olink Proteomics, Australia
### Contributed Paper Sessions

#### Innovative Technology Papers

**Co-Chairs:** Marianne Henderson, National Cancer Institute, USA & Anna Michalska-Falkowska, Medical University of Bialystok, Poland; Medical University of Graz, Austria

**Novel Dry Technology for Stabilization and Room Temperature Storage of Tissue Sections for Genomic Studies**

Pablo Péñalosa, 300K Solutions, Spain

**Leveraging Biobanks for Identifying Pan-Cancer Proteomic Signatures using Next-Generation Sequencing as a Read-Out**

Cindy Lawley, Olink Proteomics, Canada

**Proteomics as a Bridge Between Genomics and Human Health: Adding Value to Pharma Initiatives in Large Population Biobanks**

Cindy Lawley, Olink Proteomics, USA

**Ambient Temperature Preservation of Human FFPE Tumor-Derived Nucleic Acids with Encapsulation Technology**

Lee Organick, Cache DNA, USA & Farnoosh Abbas Aghababazabeh, University Health Network, Canada

#### Contributed Paper Sessions 1

**Co-Chairs:** Louise Ludlow, Murdoch Children’s Research Institute, Australia & Lori Campbell, Analytical Biological Services, USA

**Incorporating Digital Pathology into Routine Pathology and Biobank Operations: A Bridge to Enhanced Biomedical Research and Precision Medicine**

Anna Michalska-Falkowska, Medical University of Bialystok, Poland; Medical University of Graz, Austria

**Frozen Tissue Microarray (TMA) of Desmoplastic Small Round Cell Tumor (DSRCT): Innovation in TMA Technology**

Umesh Bhanot, Memorial Sloan Kettering Cancer Center, USA

**South Africa’s Hidden Treasure: A National Fish Collection and Linked Aquatic Biobank**

Seshnee Reddy, South African Institute for Aquatic Biodiversity, South Africa

**Working with Clinicians to Return Research Results from the Laboratory to the Clinic – the Role of the Biobank**

Catherine Kennedy, Westmead Hospital; The University of Melbourne Department of Microbiology and Immunology, Australia

**Evaluation of Semen Characteristics of Common Quail (Coturnix coturnix) for its Potential for Biobanking**

Bushra Rakha, PMAS-Arid Agriculture University Rawalpindi, Pakistan

**The Necessity of SOP Regarding Translation of ISBER Best Practice into Other Languages**

Kazuyuki Matsuhashita, Chiba University Hospital, Japan

#### Contributed Paper Sessions 2

**Co-Chairs:** Deb Leiolani Garcia, Independent Consultant, USA & Katherine Woods, St Vincent’s Institute / National Serology Reference Lab, Australia

**Accurate Authentication of Freeze-Dried-Conserved Bacteria by MALDI-TOF MS can be Achieved Without Prior Culturing**

Mariana Ferrari, Pasteur Institute, France

**Australian Donation and Transplantation Biobank: A Research Biobank Integrated Within a Deceased Organ and Tissue Donation Program**

Claire Gordon, Austin Health; The University of Melbourne Department of Microbiology and Immunology, Australia

**Fostering Diverse Research Applications: Establishing an Imaging Repository for the International Spinal Cord Injury Biobank**

Adam Velenosi, International Collaboration on Repair Discoveries (ICORD), University of British Columbia; Praxis Spinal Cord Institute, Canada

**Automation in Biobanking: Challenges and Achievements at the NSW Health Statewide Biobank**

Beth Caruana, New South Wales Health Pathology, Australia

**Sporadic ALS Australia Systems Genomics Consortium: SALSA-SGC**

Anjali Henders, The University of Queensland, Australia

**Quality Assessment Tools Developed to Evaluate Collection, Cryopreservation, Revitalization, and Downstream Applications of Musculoskeletal Biospecimens in the CURE Biobank**

Ruth McCarrick-Walmsley, University of Colorado Anschutz Medical Campus, USA
### Contributed Paper Session 3

**Co-Chairs:** Anusha Hettiaratchi, University of New South Wales, Australia & Yan Ru Su, Vanderbilt University Medical Center, USA

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<th>Title</th>
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<td>Modern Cancer Biobanking: More Than Just Preserving Tumour Tissue</td>
<td>Rebecca Ormsby</td>
<td>Flinders University, Australia</td>
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<td>Perceptions of Brain Donation for Research in Australia</td>
<td>Julia Stevens</td>
<td>The University of Sydney Faculty of Medicine and Health, Australia</td>
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<td>Biobanks: Fueling the Multi-Omics-Based Practice of Personalised Oncomedicine and Cancer Biomarker Discovery</td>
<td>Abhishek Mohanty</td>
<td>HealthCare Global Enterprises Ltd, India</td>
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<td>The Children’s Cancer Centre Biobank – 10 Years of Meaningful Impact</td>
<td>Louise Ludlow</td>
<td>Murdoch Children’s Research Institute, Australia</td>
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### Contributed Paper Session 4

**Co-Chairs:** Sandra Nanyonga, Universite Cote D’Azur, France & Lori Campbell, Analytical Biological Services, USA

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<td>Rare Disease Capacity Building in Africa</td>
<td>Engela Conradie</td>
<td>North-West University, South Africa</td>
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<td>Communal Ethics And Ubuntu – Thinking Outside the Individual Box</td>
<td>Elizabeth Mayne</td>
<td>University of Cape Town Faculty of Health Sciences; National Health Laboratory Service, South Africa</td>
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<td>It Takes a Village: Planning for Biobank Automation from Tube to Downstream Assay</td>
<td>Marianne Henderson</td>
<td>Division of Cancer Epidemiology and Genetics, National Cancer Institute, USA</td>
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<td>Establishing QC Scientific Testing Program to determine Fit-For-Purpose of Long-Term Stored Samples across a Consortium of Five Tissue Banks</td>
<td>Milon Pang</td>
<td>Cancer Council Victoria, Australia</td>
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### Key ISBER Sessions

**Getting to Know ISBER**

Engela Conradie, Centre for Human Metabolics Potchefstroom, South Africa

William Schleif, Johns Hopkins All Children’s Pediatric Biorepository, Florida, USA

**25th Anniversary of ISBER – Part 1**

Chair: Alison Parry-Jones, Wales Cancer Bank – Cardiff University South Glamorgan, United Kingdom

‘25 for 25’

Alison Parry-Jones, Wales Cancer Bank - Cardiff University South Glamorgan, United Kingdom

**Past President from the first 10 years of ISBER**

Marianna Bledsoe, Biopreservation and Biobanking, Colorado Springs, USA

**Past President from the last 10 years of ISBER**

Dan Catchpoole, The Children’s Hospital at Westmead, Australia

Presenters:

Naghmeh Rastegar, UHN Biospecimen Services, Canada

Tiiu Sildva, UHN Biospecimen Services, Canada

**25th Anniversary of ISBER – Part 2 & Closing Remarks + Presentation of ISBER 2025**

Featured Video entitled “Celebration of the 25th Anniversary of ISBER: honoring our past & envisioning our bright future”

Incoming ISBER President, Dayong Gao, University of Washington, USA

Introducing ISBER Leadership Members and ISBER (MMI) Executive Director, Managers, and Staff

ISBER Executive Director Presentation, Dana Cooper
Incoming ISBER President-Elect Presentation

Announcing the 2025 ISBER Annual Meeting and the Closing Remarks
Dayong Gao, University of Washington, USA

Biobanking Mastery: Insights from ISBER’s Latest Best Practices

Embark on a journey of repository mastery as we explore “Insights from ISBER’s Latest Best Practices.” Join us as we navigate through the wealth of insights encapsulated in the 5th Edition of “ISBER Best Practices: Recommendations for Repositories”. This comprehensive compendium is designed to be used by all types of biobanks around the world, providing clear guidance on how to recognize and fulfill responsibilities with respect to specimens and data. The presentation unveils distinctive features and invaluable guidance within the latest edition, offering keys to elevate your repository’s planning, operations and management with an overall aim of resilience in mind. Discover how to optimize processes and unlock the treasures of ISBER’s authoritative resource. You’re invited to download this valuable guide from the ISBER website and chart your course toward repository excellence.

Presenters:
Emma Snapes, BioConsulting; Editor-In-Chief, ISBER Best Practices 5th Edition with members of the Editorial Board
Gregory Grossman, Advancing Sight Network, USA

Global Partnerships Session: Global Collective Solutions to Challenges in Biobanking

In this session, representatives from an array of global biobanking organizations will look forward into the future possibilities for biobanking. Following an aspirational introductory presentation, panel members will present their organizations’ perspectives and participate in a panel discussion, involving a Q&A from the audience, to identify common approaches towards global collective solutions to realize these visions.

Future of Biobanking
Cassandra Griffin, University of Newcastle - NSW Regional Biospecimen Services, Australia
Gregory Grossman, Advancing Sight Network, USA
Amanda Moors, National Institute of Standards and Technology, USA

Panel Organizations
Australasian Biospecimen Network Association (ABNA) - Georget Reaiche-Miller, The University of Adelaide, Australia
Australian & New Zealand Childrens Haematology/Oncology Group Biobanking Network (ANZCHOG-BN) - Louise Ludlow, Murdoch Children’s Research Institute, Australia
Australian Seed Bank Partnership - David Merritt, Department of Biodiversity, Conservation and Attractions, Australia
Biobank India Foundation (BBIF) - Birendra Kumar-Yadav, Biobank India Foundation (BBIF), India
China National GeneBank (CNGB) - Jason Chen, China National GeneBank, China
Council for Industrial use of Biological and Environmental Repositories (CIBER) - Hiroki Nakae, Council for Industrial User of Biological and Environmental Repositories (CIBER), Japan
Global Genome Biodiversity Network (GGBN) - Kim Labuschagne, South African National Biodiversity Institute, South Africa
POSTER SESSIONS

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<td>Metrological Traceability In ISO 20387:2018 And Accreditation Programs</td>
<td>Cory Arant</td>
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<td>Plasma Collection Centrifugation Temperature of EDTA Tubes for Optimal Plasma Yield for cfMeDIP-seq</td>
<td>Kaethe Leonard</td>
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<td>PA-03</td>
<td>Leveraging the Capabilities of a Global Integrated Analytical Biorepository in Support of Cancer Immunotherapy: The SAMPLLED Vector Copy Number Assay</td>
<td>Azadeh Jadali</td>
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<td>PA-04</td>
<td>NCI's Biospecimen Evidence-Based Practices for Analysis of Cell-Free miRNA in Blood Specimens</td>
<td>Helen Moore</td>
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<td>PA-05</td>
<td>Establishing a Proficiency Testing Program for the Quality Control of Human Biosamples in the National Biobank of Korea</td>
<td>Hye Ryun Kim</td>
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<td>PA-06</td>
<td>Current Status and Support KS J ISO 20387(General Requirements for Biobanking) in South Korea</td>
<td>Kyoungsoo Ha</td>
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<td>PB-01</td>
<td>The Journey of Establishing the Westmead Biobank</td>
<td>Karena Pryce</td>
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<td>PB-02</td>
<td>Navigating the Biobank Odyssey: Evolution of Cancer Repository at RGCIIRC, India</td>
<td>Deepak Sharma</td>
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<td>PB-03</td>
<td>The CDC and FDA Antimicrobial Resistance Isolate Bank: A Freely, Available Resource to Combat the Threat of Antimicrobial Resistance</td>
<td>Maria Machado</td>
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<td>PB-04</td>
<td>Creation of a Heart Institute Biorepository (HIBR)</td>
<td>Lindsay Fist</td>
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<td>PARANOMICs– Discovering the Economy of Parasites and Developing Parasite Biobank in Bangladesh</td>
<td>Tilak Chandra Nath</td>
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<td>PB-07</td>
<td>TBRI Biobank for Liver Diseases: Research Translation and Precision Medicine in Hepatology</td>
<td>Iman El-ahwany</td>
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<td>PB-08</td>
<td>Joint Efforts to Establish a Future-proof Pediatric Oncology Biobank in Hungary - The SCOPEDIS Biobank Story</td>
<td>Eszter Tuboly</td>
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<td>PB-09</td>
<td>Abnormal ECG Associated with T2D and CVD Conditions at Qatar Biobank Population</td>
<td>Fatima Qafoud</td>
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<td>PB-10</td>
<td>Familial Atrial Fibrillation (AF) Cohort Study: Middle East Population-specific Gene Variants</td>
<td>Fatima Qafoud</td>
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<td>Maximizing the Potential of Biorepositories in Clinical Trials: A Collaborative Model</td>
<td>Gouri Mahajan</td>
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<td>PB-12</td>
<td>The National Serology Reference Laboratory Plasma Sample Repository</td>
<td>Katherine Woods</td>
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<td>Cedars-Sinai Cancer’s OncoBiobank Shared Resource: A New Tool for Cancer-Based Research</td>
<td>Karine Sargsyan</td>
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<td>PC-01</td>
<td>Beyond the Bank: A Collaborative Model for Research Project and Clinical Trial Processing</td>
<td>Angela Mountain</td>
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<td>PC-02</td>
<td>Biobank Network Development for Female Breast &amp; Genital Disease Supporting Microbiome Studies</td>
<td>Eun-Young Kim</td>
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<td>PC-03</td>
<td>Prospective Procurement – A Research Model Since 1987 for The Cooperative Human Tissue Network (CHTN) and the Midwestern Division</td>
<td>Randal Mandt</td>
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