



On April 29, 2026, in Almaty, as part of the international conference "**Innovations and Medical Technologies - the Path to Public Health**", dedicated to the 35th anniversary of Kazakhstan's Independence and the tenth anniversary of the activities of the Scientific Research International Institute of Postgraduate Education, a master class will be held on the topic: "**Laboratory diagnostics of HIV, viral hepatitis and STIs in the HIV service: best practices, challenges and prospects**", aimed at improving the professional competencies of laboratory specialists of AIDS prevention and control centers on the implementation of modern molecular genetic technologies and improving the quality control system for PCR studies.

The master class program explores modern diagnostic solutions based on the Existation system, including practical exercises on PCR diagnostics for HIV, viral hepatitis B and C, and sexually transmitted infections. The practical format of the event will help laboratory specialists master key stages of the laboratory process and improve the quality of PCR testing.

Particular attention is paid to internal quality control and the elimination of common errors when working with diagnostic platforms, which contributes to increased reliability and reproducibility of laboratory test results.

#### **Prospects for HIV Services**

Implementation of this measure will:

- Improve the quality and standardization of PCR diagnostics and associated infections;
- Expand laboratory capacity for diagnosing STIs and viral hepatitis among key populations;
- Improve internal quality control and laboratory error investigation systems;
- Promote the implementation of modern international approaches and technologies in HIV laboratory practice in the Republic of Kazakhstan.

### **Master Class Program for AIDS Laboratory Specialists**

**Conference Format:** Offline

**Official Conference Languages:** Kazakh, Russian, English

**Date:** April 29, 2026

**Venue:** Best Western Plus Atakent Park Hotel, Kumbel Hall, 42 Timiryazev Street, Building 10, Almaty, Kazakhstan

Moderators:

- Mason Sim, Head of Applications Group, Bioneer Corporation, South Korea
- Tazhibaeva Galiya Khadzhimuratovna, Head of Laboratory, Kazakh Scientific Center for Dermatology and Infectious Diseases, Ministry of Health of the Republic of Kazakhstan (KSCDID), Almaty, Kazakhstan

April 29, 2026		
Time		
10:00-10:15	Registration	Organizers
10:15-10:30	Welcome address. Opening of the training, introduction of presentations and objectives.	1. Doctor of Medical Sciences <b>Doskozhaeva Saule Temirbulatovna</b> , rector of IRIPE LLP 2. <b>Tazhibaeva Galiya Khadzhimuratovna</b> , head of the laboratory of the KSCDID
10:30-10:45	Introduction of participants	<b>Tazhibaeva Galiya Khadzhimuratovna</b> , head of the laboratory of the KSCDID
10:45-11:45	Existation: Next-Generation Systems, Modern Diagnostic Solutions. Discussion, Questions, and Answers	<b>Mason Sim</b> , Head of Applications Group, Bioneer Corporation
11:45-13:00	Joint project of Bioneer and the KSCDID on the development of a new kit for the detection of HIV proviral DNA (qualitative HIV-1 test), including training and a practical component.	<b>Tazhibaeva Galiya Khadzhimuratovna</b> , head of the laboratory of the KSCDID <b>Mason Sim</b> , Head of Applications Group, Bioneer Corporation
13:00-14:00	<b>Lunch</b>	
14:00-15:00	PCR diagnostics of sexually transmitted infections (STIs): training and practical component.	<b>Mason Sim</b> , Head of Applications Group, Bioneer Corporation
15:00-16:00	PCR diagnostics of hepatitis B and C: training and practical component. Discussion, Q&A.	<b>Mason Sim</b> , Head of Applications Group, Bioneer Corporation
16:00-16:45	Quality control of the Existation system: troubleshooting, root cause analysis (common errors), results and solutions. Discussion, Q&A.	<b>Mason Sim</b> , Head of Applications Group, Bioneer Corporation
16:45-17:00	Closing	<b>1 Tazhibaeva Galiya Khadzhimuratovna</b> , head of the laboratory of the KSCDID <b>2 2. Toksanbaeva Bekzat Takeshovna</b> , head of the international department of Lifemed Holding LLC.

## PROGRAM

**International Conference on the topic “Innovations and Medical Technologies – The Path to Public Health Improvement,” dedicated to the 35th anniversary of Kazakhstan's Independence and the tenth anniversary of the activities of the Scientific Research International Institute of Postgraduate Education**

Almaty, Kazakhstan

**Organizer:**

LPP International Research Institute Of Postgraduate Education.

**Target audience:** oncologists, oncogynecologists, obstetricians-gynecologists, phthysiologists, AIDS center specialists, laboratory technicians, cytologists, healthcare managers, and teachers of higher medical educational institutions.

**Conference format:** offline, online

**Официальные языки конференции:** казахский, русский, английский

**Date:** April 30, 2026

**Venue:** г. Almaty st. Timiryazeva 42, Bakshasaray Reception House.

April 30, 2026		
08:00 – 09:00	Registration of guests and conference participants	
<b>Opening of the conference, welcome address</b>		
09:00 - 09:15	Welcome address	<ol style="list-style-type: none"><li>1. <b>MD, MPH Edilbaev Askar</b>, TB Unit Lead Joint TB, HIV and viral hepatitis Programme (JTH), Division of Country Health Programmes (CHP)</li><li>2. <b>Amanzholova Zauresh Dzhumanalievna</b>, Doctor of Medical Sciences, Professor, Chairman of the Board of Directors of JSC «Scientific Center for Obstetrics, Gynecology and Perinatology»</li><li>3. <b>Hasan Kemal Kuşçu</b>, Director of the International department of Hisar Clinic</li><li>4. <b>Dr. Lee Chan Hyo</b>, Head of Diagnostics, Bioneer Corporation Doctor of Medical Sciences</li></ol>

		<b>5. Doskozhaeva Saule Temirbulatovna,</b> rector of IRIPE LLP	
09:15-09:35	Awarding of the titles of Honorary Professors of IRIPE	<b>Doctor of Medical Sciences Doskozhaeva Saule Temirbulatovna,</b> rector of IRIPE LLP	
09:35-10:00	Awarding ceremony for specialists who contributed to the establishment of IRIPE, presentation of commemorative badges and anniversary gifts.		
<b>Plenary session 1 (Girey Khan Hall)</b>			
<b>Facilitators: Edilbaev Askar, Doskozhaeva Saule Temirbulatovna, Mamyrbekova Saltanat Apbasovna, Amanzholova Zauresh Dzhumanalievna, Karaseva Larisa Arkadyevna</b>			
10:00 – 10:20	Latest recommendations for the prevention, diagnosis, and treatment of TB and DR-TB	<b>MD, MPH Edilbaev Askar,</b> TB Unit Lead Joint TB, HIV and viral hepatitis Programmes (JTH), Division of Country Health Programmes (CHP)	
10:20 – 10:40	Genomics in the fight against drug-resistant tuberculosis	<b>Prof. Dr. Stefan Niemann</b> Head Molecular and Experimental Mycobacteriology Group Head Nat. Reference Center for Mycobacteria	
10:40 – 11:00	From medical technologies to population health: Management and Educational Decisions	<b>Mamyrbekova Saltanat Abbasovna,</b> PhD, Associate Professor, President of the National Medical Association, Director of the Institute of Continuing and Professional Education of the Kazakh National Medical University named after S.D. Asfendiyarov	
11:00 – 11:30	Coffee break		
11:30 – 11:50	Standardized Application and Clinical Value of Digital Pathology and AI in Cervical Screening: The Chinese Experience	<b>Kaixuan Yang,</b> Professor, Chief Physician, Professor, and Master's Supervisor at West China Second Hospital, Sichuan University, China	
11:50 – 12:10	How to make cervical screening effective: Key characteristics, goals, objectives, and planning in the context of a specific country	<b>Diana Valutsa,</b> MD, MPH, Head of the Coordination center for the implementation of cervical screening in the Republic of Moldova, chairperson of the International Commission on Cervical Screening of the UNFPA Alliance Region	

12:10 – 12:30	HPV testing in the era of new vaccines: the importance of expanded genotyping	<b>Bayzet Gasanov</b> , strategic capabilities manager, BD, Russia	
12:30 – 12:50	Modern approaches to cervical cancer prevention in Almaty	<b>Bolatbekova Raikhan Olmeskhanovna</b> , PhD, Associate Professor	
12:50 – 13:10	Invasive methods of treating cancer pain - a fast and high-quality way for patients to recover	<b>Shashkin Chingiz Sakaevich</b> , PhD, director of the "Shashkin clinic"	
13:10 – 13:30	The role of the treating physician in the pharmacovigilance system: how to correctly identify and report adverse drug reactions (ADRs) in oncology practice	<b>Kanushina Marina Alekseevna</b> , Director of the AC Institute of International Education, PhD, MBA (Prague, Czech Republic)	
13:30 – 13:50	Postgraduate education of medical personnel: experience, innovation, and quality of medical care	<b>Karaseva Larisa Arkadyevna</b> , Head of the Department of Nursing, Director of the Institute of Nursing Education of the FSBEI of Higher Education Samara State Medical University of the Ministry of Health of the Russian Federation, Professor, Doctor of Medical Sciences	
13:50 – 14:00	Questions&Answers		
14:00-15:00	Dinner		
15:00 – 17:00	<b>Sectional sessions</b>		
	<b>Section 1 (Girey Khan Hall)</b>		
	<b>Topic: Innovation and digital technologies in maintaining the health of women and children</b>		
	<b>Facilitators: Ph.D. Sarmuldaeva Sholpan Kuanyshbekovna, Ph.D. Bishchekova Balzira Nagashibaevna</b>		
15:00 – 15:20	PGT-A in Kazakhstan: from the first aCGH to NGS – 10 years of evolution	<b>Aldiyar Malik</b> , Head of Embryology, Institute of Microbiology, Astana	
15:20– 15:40	Pregnancy and childbirth outcomes depending on the method of labor induction.	<b>Bishchekova Balzira Nagashibaevna</b> , MD, PhD, Professor, Department of Obstetrics and Gynecology, S. Asfendiyarov Kazakh National Medical University, Almaty.	
15:40 – 15:55	Obstetric and perinatal outcomes of thrombocytopenia during pregnancy.	<b>Begniyazova Zhanara Sovetzhanovna</b> , MD, PhD, Associate Professor, Department of Obstetrics and Gynecology, S. Asfendiyarov Kazakh National Medical University, Almaty.	
15:55 – 16:10	Menopausal syndrome: modern approaches to diagnosis and treatment.	<b>Ospanova Saule Tursyngalieva</b> , Master of Medicine, Assistant Professor, Department of Obstetrics and Gynecology, S. Asfendiyarov Kazakh National	

		Medical University	
16:10– 16:25	Preserving fertility through IVF	<b>Komogortsev Anatoly Nikolaevich</b> , Master of Public Health, Institute of reproductive medicine.	
16:25– 16:40	Artificial Intelligence Capabilities in the ART Lab	<b>Polumiskova Anastasia Olegovna</b> , Head of the ART Laboratory, ESHRE Certified Embryologist, Institute of reproductive medicine.	
16:40 – 17:00	Epidemiology and prevention of perinatal infections	<b>Ayapbergenov Kasenkhan Kabievich</b> , lecturer in the Department of Hygiene and Epidemiology at the Scientific Research International Institute of Postgraduate Education, epidemiologist	
<b>Section 2 (Pushkin Hall)</b>			
<b>Topic: Innovative solutions in oncology and rehabilitation</b>			
<b>Facilitators: Ph.D. Zhylkaidarova Alma Zhalelovna, Doctor of Medical Sciences Kashikova Khadisha Shagataevna, Doctor of Medical Sciences Baltabekov Nurlan Tursynovich</b>			
15:00 – 15:15	Key performance indicators of cancer screening programs. Kazakhstan's Experience: achievements and prospects	<b>Zhylkaidarova Alma Zhalelovna</b> , PhD, Chief Coordinator for Screening Programs of the State Institution "Healthcare Department of Almaty Region", Head of the Specialized Clinical and Administrative Department of the State Enterprise on the Right of Economic Management "Almaty Regional Multidisciplinary Clinic"	
15:15– 15:30	Innovations in early diagnosis of breast cancer	<b>Kashikova Khadisha Shagatayevna</b> , MD, Professor at Caspian University, International PhD Consultant, Senior Lecturer at IRIPE	
15:30 – 15:45	Ways to improve the efficiency of oncological care at the primary health care level by optimizing the work of mid-level medical personnel	<b>Baltabekov Nurlan Tursynovich</b> , MD, professor, oncologist, thoracic surgeon, member of ASCO (USA), chairman of the EAFO, head of the oncology department at the IRIPE	
15:45 – 16:00	Empowering Clinical Experience with Real-Time AI in Breast Imaging	<b>Kim Won Hwa</b> , professor, Department of Radiology Kyungpook National University Chilgok Hospital	
16:00– 16:15	Intelligent decision support for physicians: Evaluation of the accuracy of CAD AI in breast ultrasound diagnosis	<b>Saktashev Bolat Shakirovich</b> , Ph.D, Professor of the	

		Department of oncology and radiology IRIPE	
16:15– 16:30	Innovative technologies for critical conditions in oncology	<b>Eralina Svetlana Nukashevna</b> , Doctor of Medical Sciences, Professor Institute of Further Professional Education of KazNMU named after S.D. Asfendiyarova	
16:30 – 16:45	Multimodal monitoring capabilities in oncology practice	<b>Ismailov Erkinbek Lesbekovich</b> , Doctor of Medical Sciences, Professor, Institute of Further Professional Education of KazNMU named after S.D. Asfendiyarova	
16:45 – 17:00	An adapted immunometabolic model of rehabilitation in gastrointestinal oncology: from overcoming chemotherapy toxicity to reducing One-year mortality or a new approach to onco-rehabilitation: from a macromodel to cellular technologies	<b>Panov Stanislav Aleksandrovich</b> , PhD, Professor at the IRIPE, Senior Resident of the Intensive Care Department of the Military Clinical Hospital of the Ministry of Defense of the Republic of Kazakhstan, Anesthesiologist-resuscitator, efferentologist.	
<b>Section 3 (Mariya Hall)</b>			
<b>Topik: Laboratory medicine in the age of high technology: experience and development prospects</b>			
<b>Facilitators: Dr. Stefan Niemann, Mishnik Alexander, Toksanbaeva Bekzat Takeshovna</b>			
15:00 – 15:25	National reference laboratory for mycobacteria. Overview of the supranational laboratory's activities.	<b>Mishnik Alexander</b> , MD, Professor, Medical Co-Director of the National Reference Laboratory for Mycobacteria, Borstel, Germany	
15:25– 15:40	The national reference laboratory of Kazakhstan as a key element of the quality control system for tuberculosis diagnostics	<b>Kaziyev Alibi Asetovich</b> Geneticist at the national reference laboratory of the National scientific center of phthisiopulmonology, Almaty, Republic of Kazakhstan	
15:40 – 15:55	HIV diagnostics: standardization, quality and reliability of results	<b>Tazhibaeva Galiya Khadzhimuratovna</b> Head of the Reference Laboratory, Kazakh Scientific Center for Dermatology and Infectious Diseases, Ministry of Health of the Republic of Kazakhstan	
15:55 – 16:10	Cytology in Kazakhstan: from practice to quality	<b>Yeleubaeva Zhanar Bolatovna</b> Cytopathologist, highest category, member of the FIAC (Fellow	

		International Academy of Cytology), Almaty, Republic of Kazakhstan	
16:10– 16:30	The CAP’s cytology EQA programs: a learning and procedural improvement experience	<b>Oliver Schnaedelbach, Ph.D., MBA, Commercial Leader Europe/Central Asia College of American Pathologists, Hattersheim, Germany (online)</b>	
16:30– 16:45	Preliminary evaluation of the performance of IRON-qPCR RFIA in detecting tuberculosis	<b>Adilova Gushem Magometzhanovna, Head of the Clinical and Bacteriological Laboratory of the Central Branch of the Health Care Department of Almaty</b>	
16:45– 17:00	Modern methods of molecular diagnostics research in science and laboratory science	<b>Gasanova Kenul Gasimkyzy, PhD, neurophysiologist, leading sales manager for equipment and services for scientific and clinical services in the CIS for molecular biological and genetic research at SESANA GENOMICS</b>	
<b>Plenary session 2</b>			
<b>Facilitators: Edilbaev Askar Bolatovich, Doctor of Medical Sciences Baltabekov Nurlan Tursynovich, Ph.D. Berikova Elmira Akhmetzhanovna</b>			
17:00 – 17:10	Submission of a recommendation from Section 1		
17:10 – 17:20	Submission of a recommendation from Section 2		
17:20 – 17:30	Submission of a recommendation from Section 3		
17:30 – 17:40	Summing up by facilitators		
17:40 – 17:50	Questions\$Answers		
17:50 – 18:00	Discussion of the conference resolution		
18:00	<b>Closing</b>	<b>Doctor of Medical Sciences Doskozhaeva Saule Temirbulatovna, rector of IRIPE LLP</b>	