

«Расширение сотрудничества между Центрами передового опыта ЦВЕ и Центральной Азии для устранения основных причин утраты биоразнообразия и поддержания здоровья людей, сельскохозяйственных культур и домашнего скота»

“Enhancing Collaboration between the CEE and Central Asia’s Centres of Excellence to Address the Key Drivers of Biodiversity Loss and Maintain Human, Crop and Livestock Health”



Plan of the Event 2

5 Days Theoretical and Practical Training Workshop on Laboratory Identification of Species, Screening of Living Modified Organisms and Detection of Plant Pathogens

February 12-16, 2024

Academicheskaya 27, the Institute of Genetics and Cytology of the National Academy of Sciences of Belarus (IGC)

Minsk, Republic of Belarus

Day 1

Session	Time	Activities	Room	Speaker	Responsible for event
1	9:00-9:30	Gathering of participants, registration	Assembly hall of the IGC	-	Head of the National Coordination Biosafety Centre (NCBC) IGC Mozgova G.V.
2	9:30-10:00	Welcoming speech	Assembly hall of the IGC	Ministry of Natural Resources and Environmental Protection of the Republic of Belarus, Morozik Pavel Mikhailovich, Director of the IGC	Head of the NCBC IGC Mozgova G.V.
3	10:00-10:30	Coffee-break			
4	10:30-10:50	Introductory briefing to theoretical and practical training	Assembly hall of the IGC	Mozgova G.V., Head of the NCBC IGC	Drobot N.I., researcher of the NCBC, IGC

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Session	Time	Activities	Room	Speaker	Responsible for event
5	10:50-11:10	Detection of hereditary diseases and identification of animal species	Assembly hall of the IGC	Mikhailova M. E., Head of the Laboratory of Animal Genetics, IGC	Head of the NCBC IGC Mozgova G.V.
6	11:10-11:30	Identification of fish species and seafood	Assembly hall of the IGC	Lemesh V.A., Head of the Laboratory of Genetic and Cellular Engineering, IGC Tsar N.I., Junior Researcher of the Laboratory of Genetic and Cellular Engineering, IGC	Drobot N.I., researcher of the NCBC, IGC
7	11:30-12:00	Laboratory identification of animal species in raw materials, food products and feed – theoretical training	Assembly hall of the IGC	Drobot N.I., researcher of the NCBC, IGC	Drobot N.I., researcher of the NCBC, IGC
8	12:00-14:00	Laboratory identification of animal species - DNA extraction (laboratory training)	Shareable Core Facilities «Genome» (SCF «Genome»)	-	Researcher of the NCBC IGC Drobot N.I., Head of the NCBC IGC Mozgova G.V., junior researcher at the NCBC IGC Ostapchik V.S., junior researcher at the NCBC IGC Krivetskaya A.M.
9	14:00-15:00	Lunch break			
10	15:00-17:00	Laboratory identification of animal species - polymerase chain reaction (laboratory training)	SCF «Genome»	-	Researcher of the NCBC IGC Drobot N.I, Head of the NCBC IGC Mozgova G.V.,

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					junior researcher of the NCBC IGC Ostapchik V.S., junior researcher of the NCBC IGC Krivetskaya A.M.
11	17:00-17:30	Analysis and interpretation of results	SCF «Genome»	-	Researcher of the NCBC IGC Drobot N.I., Head of the NCBC IGC Mozgova G.V., junior researcher of the NCBC IGC Ostapchik V.S., junior researcher of the NCBC IGC Krivetskaya A.M.
12	17:30-18:00	Summary of the day, plans of the next day	Assembly hall of the IGC	-	Researcher of the NCBC IGC Drobot N.I.,

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Day 2

Session	Time	Activities	Room	Speaker	Responsible for event
1	9:00-9:30	Gathering of participants, registration	Assembly hall of the IGC	-	Head of the NCBC IGC Mozgova G.V.
2	9:30-10:00	Introductory briefing to theoretical and practical training	Assembly hall of the IGC	Mozgova G.V. Head of the NCBC IGC	Head of the NCBC IGC Mozgova G.V.
3	10.00 - 10.30	Sampling issues in the field of laboratory detection - theoretical training	Assembly hall of the IGC	Krivetskaya A.M., Junior researcher of the NCBC IGC	Researcher of the NCBC IGC Drobot N.I
4	10:30 - 11:00	Coffee-break			
5	11:00 - 12:00	Screening and identification of living modified organisms (LMOs) – theoretical training	Assembly hall of the IGC	Mojca Milavec, Scientific Consultant, the Department of Biotechnology and Systems Biology, the National Institute of Biology of Slovenia	Head of the NCBC IGC Mozgova G.V.
6	12:00 - 14:00	Screening of LMOs – DNA extraction (laboratory training)	SCF «Genome»	-	Mojca Milavec, Scientific Consultant, the Department of Biotechnology and Systems Biology, the National Institute of Biology of Slovenia, researcher of the NCBC IGC Drobot N.I Head of the NCBC IGC Mozgova G.V., junior researcher of the NCBC Ostapchik V.S., junior researcher of the NCBC Krivetskaya A.M.

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Session	Time	Activities	Room	Speaker	Responsible for event
7	14:00 - 15:00	Lunch break			
8	15:00 - 17:00	Screening of LMOs – polymerase chain reaction (laboratory training)	SCF «Genome»	-	Mojca Milavec, Scientific Consultant, the Department of Biotechnology and Systems Biology, the National Institute of Biology of Slovenia, Researcher of the NCBC IGC Drobot N.I, Head of the NCBC IGC Mozgova G.V., junior researcher of the NCBC IGC Ostapchik V.S., junior researcher of the NCBC IGC Krivetskaya A.M.
9	17:00 - 17:30	Analysis and interpretation of results	SCF «Genome»	-	Mojca Milavec, Scientific Consultant, the Department of Biotechnology and Systems Biology, the National Institute of Biology of Slovenia, Researcher of the NCBC IGC Drobot N.I, Head of the NCBC IGC Mozgova G.V., junior researcher of the NCBC IGC Ostapchik V.S., junior researcher of the NCBC IGC Krivetskaya A.M.
10	17:30 - 18:00	Summary of the day, plans of the next day	Assembly hall of the IGC	-	Researcher of the NCBC IGC Drobot N.I
11	19:00 - 21:00	Dinner at the restaurant of the Minsk Hotel			

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Day 3



Convention on
Biological Diversity



Session	Time	Activities	Room	Speaker	Responsible for event
1	9:00-9:30	Gathering of participants, registration	Assembly hall of the IGC	-	Head of the NCBC, IGC Mozgova G.V.
2	09:30 – 10:00	Conservation of endemic honey bees	Assembly hall of the IGC	Guzenko E.V, Deputy Director for Science and Innovation of the Institute of Genetics and Cytology, NAS of Belarus	Head of the NCBC, IGC Mozgova G.V.
3	10:00 - 10:30	Coffee-break			
4	10:30 - 10:50	Introductory briefing to theoretical and practical training	Assembly hall of the IGC	Head of the NCBC, IGC Mozgova G.V.	Head of the NCBC, IGC Mozgova G.V.
5	10:50 - 11:30	Quantitative determination of living modified organisms, including new types of LMOs. Calculation and measurement uncertainty - theoretical training	Assembly hall of the IGC	Mojca Milavec, Scientific Consultant, the Department of Biotechnology and Systems Biology, the National Institute of Biology of Slovenia	Researcher of the NCBC IGC Drobot N.I

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Convention on
Biological Diversity



Session	Time	Activities	Room	Speaker	Responsible for event
6	11:30 - 13:30	Quantitative determination of LMOs – quantitative polymerase chain reaction (laboratory training)	SCF «Genome»	-	Mojca Milavec, Scientific Consultant, the Department of Biotechnology and Systems Biology, the National Institute of Biology of Slovenia , researcher of the NCBC IGC Drobot N.I, Head of the NCBC IGC Mozgova G.V., junior researcher of the NCBC IGC Ostapchik V.S., junior researcher of the NCBC IGC Krivetskaya A.M.
7	13:30 - 14:30	Lunch break			
8	14:30 - 15:00	Detection of genetic resistance of plants to pathogens	Assembly hall of the IGC	Olga Babak, Leading Researcher of the Environmental Genetics and Biotechnology the IGC	Researcher of the NCBC IGC Drobot N.I

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Session	Time	Activities	Room	Speaker	Responsible for event
9	15:00 - 15.30	Determination of environmental DNA (eDNA) in the environment	Assembly hall of the IGC	Bojana Mičić, Research assistant of the Institute for Biological Research „Siniša Stanković“ University of Belgrade	Researcher of the NCBC IGC Drobot N.I
10	15.30 - 16.00	Materials and data of the Biosafety Clearing-House to the Cartagena Protocol on Biosafety and its key role in supporting laboratory detection	Online and Assembly hall of the IGC	Austein McLoughlin, Biosafety Division of the Secretariate of the Convention on Biological Diversity	Head of the NCBC, IGC Mozgova G.V.
11	16.00 - 16.30	Cartagena Protocol on Biosafety and National Legislation in support to the laboratory detection of LMOs	Assembly hall of the IGC	Tatsiana Zhialiaznova, Consultant of the Ministry of Natural Resources and Environmental Protection of the Republic of Belarus	Head of the NCBC, IGC Mozgova G.V.
12	16:30 - 17:00	Analysis and interpretation of results	SCF «Genome»	-	Mojca Milavec, Scientific Consultant, the Department of Biotechnology and Systems Biology, the National Institute of Biology of Slovenia, researcher of the NCBC Drobot.N.I, Head of the NCBC IGC Mozgova G.V.

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Day 4



Convention on Biological Diversity



Session	Time	Activities	Room	Speaker	Responsible for event
1	9:00-9:30	Gathering of participants, registration	Assembly hall of the IGC	-	Head of the NCBC, IGC Mozgova G.V.
2	09:30-09:50	Introductory briefing to theoretical and practical training	Assembly hall of the IGC	Head of the NCBC, IGC Mozgova G.V.	Head of the NCBC, IGC Mozgova G.V.
3	09:50-10:20	Detection of plant pathogens using real-time PCR with reverse transcription - theoretical training	Assembly hall of the IGC	junior researcher at the NCBC Ostapchik V.S	Researcher of the NCBC IGC Drobot N.I
4	10.20-10:40	Coffee-break			
5	10:40-13:00	Detection of plant pathogens using real-time PCR with reverse transcription - RNA extraction (laboratory training)	SCF «Genome»	-	Head of the NCBC Mozgova G.V., researcher of the NCBC Drobot N.I, junior researcher of the NCBC Ostapchik V.S., junior researcher of the NCBC Krivetskaya A.M.
6	13:00-14:00	Lunch break			
7	14:00-16:00	Detection of plant pathogens using real-time PCR with reverse transcription - polymerase chain reaction (laboratory training)	SCF «Genome»	-	Head of the NCBC Mozgova G.V., researcher of the NCBC Drobot N.I, junior researcher of the NCBC Ostapchik V.S., junior researcher of the NCBC Krivetskaya A.M.

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8	16:00-16:30	Analysis and interpretation of results	SCF «Genome»	-	Head of the NCBC Mozgova G.V., researcher at the NCBC Drobot N.I, junior researcher of the NCBC Ostapchik V.S., junior researcher of the NCBC Krivetskaya A.M.
9	16:30-17:00	Summary of the day, plans of the next day	Assembly hall of the IGC	-	Head of the NCBC, IGC Mozgova G.V.

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Day 5



Convention on Biological Diversity



Session	Time	Activities	Room	Speaker	Responsible for event
1	9:00-9:30	Gathering of participants, registration	Assembly hall of the IGC	-	Head of the NCBC, IGC Mozhgova G.V.
2	9.30-10.00	Discussion of the results of laboratory detection during 4 training days: question and answer session	Assembly hall of the IGC	Head of the NCBC, IGC Mozhgova G.V., Mojca Milavec, Scientific Consultant, the Department of Biotechnology and Systems Biology, the National Institute of Biology of Slovenia, researcher of the NCBC Drobot N.I.	Researcher of the NCBC IGC Drobot N.I
3	10.00 - 10.20	Coffee-break			
4	10.20 - 10.40	Discussion and comparison of TNLA and the most effective approaches, methods and protocols for laboratory detection of factors of biodiversity loss using molecular genetic methods	Assembly hall of the IGC	Head of the NCBC, IGC Mozhgova G.V., Mojca Milavec, Scientific Consultant, the Department of Biotechnology and Systems Biology, the National Institute of Biology of Slovenia, researcher of the NCBC Drobot N.I.	Head of the NCBC, IGC Mozhgova G.V.

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Session	Time	Activities	Room	Speaker	Responsible for event
5	10.40 - 11.30	Discussion of the need to build capacity in selected molecular genetic methods for laboratory detection of factors of biodiversity loss	Assembly hall of the IGC	Head of the NCBC, IGC Mozgova G.V., Mojca Milavec, Scientific Consultant, the Department of Biotechnology and Systems Biology, the National Institute of Biology of Slovenia,	Head of the NCBC, IGC Mozgova G.V, Researcher of the NCBC IGC Drobot N.I
6	11.30 - 13.00	Discussion of long-term cooperation mechanisms for Centers of Excellence in laboratory detection	Assembly hall of the IGC	Director of the IGC Morozik P.M., Mojca Milavec, Scientific Consultant, the Department of Biotechnology and Systems Biology, the National Institute of Biology of Slovenia, Head of the NCBC, IGC Mozgova G.V.	Head of the NCBC, IGC Mozgova G.V., Researcher of the NCBC IGC Drobot N.I
7	13:00 - 14:00	Lunch break			
8	14:00 - 14:45	Planning further activities for the project.	Assembly hall of the IGC	Director of the IGC Morozik P.M., Mojca Milavec, Scientific Consultant, the Department of Biotechnology and Systems Biology, the National Institute of Biology of Slovenia, Head of the NCBC, IGC Mozgova G.V.	Head of the NCBC Mozgova G.V., researcher at the NCBC Drobot N.I.
9	14:45 - 15:00	Conclusion of the seminar. Awarding Certificates	Assembly hall of the IGC	Kristina Taboulchanas, Secretariate of the Convention on Biodiversity, Director of the IGC Morozik P.M.	Head of the NCBC Mozgova G.V., researcher at the NCBC Drobot N.I.