

CABCN members:

- **Republic of Korea**
- Korea National Arboretum
- Baekdudaegan National Arboretum
- **Republic of Kazakhstan**
- Institute of Botany and Phytointroduction of the Committee of Science, Ministry of Education and Science
- Almaty branch Scientific Research Institute of Forestry and Agroforestry Limited Liability Corporation (LLC) of the Ministry of Agriculture
- **Kyrgyz Republic**
- Department of Forest Ecosystems Development of the State Agency on Environment Protection and Forestry
- Scientific Research Institute Gareev Botanical Garden of the National Academy of Sciences
- **Republic of Uzbekistan**
- Institute of Botany of the Academy of Sciences.
- Botanical Garden named after acad. Rusanov F.N of the Institute of Botany of the Academy of Sciences.
- **Republic of Tajikistan**
- National Biodiversity and Biosafety Centre of the Committee for Environmental Protection under the Government of the Republic of Tajikistan
- Pamir Biological Institute named after Yusufbekov Kh. of the Academy of Sciences

Baekdudaegan Global Seed Vault newsletter in cooperation with CABCN



Greetings from Director of the Baekdudaegan Global Seed Vault (BGSV)

Dear colleagues and friends!

It is much honor to greet you within the Second issue of the Newsletter. As you are well aware, the Baekdudaegan National Arboretum and the Baekdudaegan Global Seed Vault were officially launched in May, 2018. Our work is directed at conservation of the wild plants genetic resources through storage of the seeds based on short and long term conditions. Our plan is to store 120,000 accessions until 2030. The main goal is to conserve the most of biodiversity of wild plants and to deliver them to our future generations.

The successful fulfillment of our work is only possible with the united efforts of our partners at national and global levels. We are very proud with our cooperation with the prominent Central Asian academic Institutions and Forestry organizations. We hope to strengthen our partnership based on mutual trust and benefit.

The global mission of the BGSV is to store seed samples from the world's most diverse ecoregions and natural communities, and by this way, to harbor the most of the Earth flora biodiversity, which will be potential to survive in the events of natural disasters and anthropogenic catastrophes.

We rely on cooperation and good will of our partners from Central Asia and we do hope to unite our efforts in conservation of the valuable resources of the plants for our future generations. I personally wish to all partners of the BGSV good health, success and new achievements in our difficult but very important work.

Kang Gi Ho

Baekdudaegan Global Seed Vault
Director, Ph.D.



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2019 Forum on Wild Plants' Seeds Conservation 22 February 2019, Seoul, Republic of Korea

Baekdudaegan National Arboretum and Hankyung National University will hold International Forum on Plants' Seeds Conservation and Utilization on the 22th February, 2019.


The main purpose of the Forum is to bring attention of the scientific community to seed research, its problems and perspectives. The Forum will be held at the National assembly (Seoul) and hosted by Mr. Jeong Wunchon, a member of the National Assembly.

The main directions of the Forum are:


- Importance of conservation of wild plants' seeds.
- Developing of the strategies for new industries to use wild plants' seeds, which will be the driving force of the 4th industrial revolution.
- Developing of 'the virtuous cycle industry ecosystem' through increasing the quality of the seeds.

Baekdudaegan Global Seed Vault 2018 New depositors

 Institute of Seed Library of Republic of Korea

 Dae-a Garden

 Forest Resource Institute of Chungnam

 Andong Agricultural Technology Center

 National Development Institute of Korean Medicine

 Korea Forest Service

 Hankyung National University

Private Donation



Institute of Botany and Phytointroduction, Republic of Kazakhstan **Collections status of the SEED BANK, Almaty**

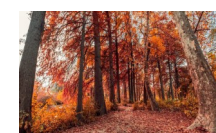
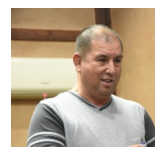


The Seed bank of the Institute of Botany and Phytointroduction of the Committee of Science of the Ministry of Education and Science is the first Seed Bank in Central Asia. The Director General of the Institute, academic Siptayeva G. pays much attention to the development of seed research at the Institute. The head of the Seed bank is Dr. Murtazayeva T. More than 3,000 seed accessions from the flora of Kazakhstan are available in Seed Bank. In 2018, more than 282 accessions were stored in Seed bank from Chu-Illi Mountains, Kungey Alatau, Dzungarian Alatau, and others. Seed of 8 Red Data species were stored in 2018: *Allium aflatumense* B. Fedtsch, *Allium suworowii* Regel, *Ikonnikovia kaufmanniana* (Regel) Lincz., *Paeonia anomala* L., *Tulipa ostrowskiana* Regel, *Tulipa kolpakowskiana* Regel., *Taraxacum kok-saghyz* L.E.Rodin, *Rhinactinidia limoniifolia* (Less.) Botsch.

Tashkent Botanical Garden named after F.N. Rusanov of the Academy of Sciences, Republic of Uzbekistan

Ex-situ conservation of plants in Tashkent Botanical Garden

Tashkent Botanical garden *ex situ* collection of plants includes more than 2,000 species: flora of Central Asia (12 ha), Europe Crimea and Caucasus (4.5 ha), North America (9 ha), East Asia (9ha), and Far East (4 ha). Seeds from the sites are being collected by the staff of the Botanical Garden and stored in seed laboratory. Since 2000, the Tashkent Botanical Garden exchanges 15, 000 seeds annually with 75 Botanical gardens in the world. The seeds are not only conserved, but seed research are being conducted by scientists of the Tashkent Botanical Garden. The Director, Dr. Abdinazarov S., pays much attention to the young scientists and actively supports their research and activities. Index seminum is available upon request from botanika-t@mail.ru.





Pamir Botanical Garden of the Academy of Sciences, Republic of Tajikistan

Seed exchange status of the Pamir Botanical Garden



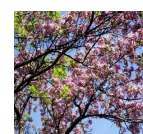
Pamir Botanical Garden (PBG) of Academy of Sciences was organized in 1940. PBG is located in 2320 m a.s.l. in 5km from center of Gorniy Badakhshan Autonomuos Okrug - Khorog town. The territory of the garden is 90 ha. The protected part consists of 624 ha. PBG belongs to the Pamir Biological Institute (PBI) named after Yusufbekov Kh. The Director of the PBI is Doctor of biological sciences Navruzshoev D. and Director of the PBG is Dr. Khudjamova G. PBI has 6 experimental stations: 1. Chechektin station in Eastern Pamir (3860 m.a.s.l.), 2. Jelondin station (3600 m.a.s.l.), 3. Ishkamir station (2600 m.a.s.l.), 4. Khorog station (2320 m.a.s.l.), 5. Vandj station (1600 m.a.s.l.), and 6. Rogak station (1150 m.a.s.l.). PBG has plant expositions from the flora of the North America, Europe, Crimea and Caucasus, East Asia, Central Asia, Himalaya and Hindukush. PBG is actively involved into international seed exchange program. Annually the garden sends the seeds to 65 world botanical gardens. Index seminum is available upon request from dovutsho@mail.ru.

Scientific Research Institute Gareev Botanical Garden, Kyrgyz Republic

Seed exchange status of the Gareev Botanical Garden



Gareev Botanical Garden is proud with extensive seed exchange network they have. Gareev Botanical Garden is the member of IPEN (International Plant Exchange Network) since 2018. It disseminates its Index Seminum since 2006. The seeds of the tree, bush and grass species is listed in Index Seminum. The seed are being collected by the staff of three laboratories of the Gareev Botanical Garden: laboratory of tree and brush species, laboratory of decorative plant species, and laboratory of experimental botany. The seeds are usually stored during two years in seed laboratory. The garden exchanges seeds with 105 botanic gardens and arboretums from 31 countries. Index seminum is available upon request from gulbutak@yandex.ru.



National Biodiversity and Biosafety Centre of the Committee for Environmental Protection under the Government of the Republic of Tajikistan.

Cooperation for plants biodiversity conservation.

National Biodiversity and Biosafety Centre of the Committee on Environmental Protection under the Government of the Republic of Tajikistan is a leading organization in biodiversity conservation in Tajikistan. The head of the Center is Doctor of biological sciences, Safarov N. Main activities of the National Center are: coordination of implementation of the National Biodiversity Strategy and Action Plan, creation of information database, data bank on diversity of the flora, fauna, and ecosystems, coordination of activities on creation of mechanisms on sustainable conservation and use of biodiversity, development and implementation of international projects on biodiversity conservation in cooperation with international organizations and many others. One of the main outputs is developing of strong network with National and International partners. In cooperation with Korean partners, the scientists of the National Center conduct annual expeditions on flora research and seed collection for further conservation.



Contact information and announcements

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Global mission of Baekdudaegan Global Seed Vault is to store seed samples from the world's most diverse ecoregions and natural communities, and by this way, to harbor the most of the Earth flora biodiversity, which will be potential to survive in the events of natural disasters and anthropogenic catastrophes not only to human being, but animals, birds, insects and other creatures.

Announcements

Incoming Conference and Workshop events.

1. Bishkek, Kyrgyz Republic. September, 2019. International conference devoted to 100th anniversary of professor Tkachenko V.I. "The role of the Gareev Botanical Garden in enrichment and conservation of the natural and cultural flora of Kyrgyzstan".

Organized by Gareev Botanical Garden, Kyrgyz Republic. Additional information is available upon request from nazgulvictorovna@gmail.com

2. Republic of Korea. 17-20 October, 2019. Symposium and short term training course within "1st Central Asia Green Road project"

3. International conference in Astana, Kazakhstan. (information will be available later)

About CABCN

Central Asia Biodiversity Conservation Network (CABCN) is an initiation of Korea Forest Service (KFS) and Korea National Arboretum (KNA). The network serves as platform for flora research and biodiversity conservation projects based on comprehensive Agreement between the Republic of Korea and Central Asian countries concerted during the 7th Korea-Central Asia Cooperation Forum held in Bishkek in 2013, and 8th Korea-Central Asia Cooperation Forum in Seoul in 2014.

The KNA and Central Asian Forestry and scientific-research prominent organizations strengthened their efforts in biodiversity conservation through the "Central Asian Green Road" and "Research of the Tien Shan flora" projects.

The projects also contribute to biodiversity conservation activities at global level through trainings and education programs, knowledge and expertise sharing.

CABCN welcomes new organizations to the network and their valuable contribution into biodiversity conservation and hope our cooperation will be beneficial not only for our organizations and countries, but for nature conservation as well.

CABCN member organizations:

Korea National Arboretum

Director General: LEE You Me

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Institute of Botany and Phytointroduction, Republic of Kazakhstan

Director General: SITPAYEVA Gulnara (sitpaeva@mail.ru)

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Almaty branch Scientific Research Institute of Forestry and Agroforestry, Republic of Kazakhstan

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National Biodiversity and Biosafety Centre of the Committee for Environmental Protection under the Government of the Republic of Tajikistan

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Pamir Biological Institute named after Yusufbekov Kh., Republic of Tajikistan

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