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**Achieving GSPC Objective 1: Herbarium NGBB of the
Nezahat Gökyiğit Botanic Garden
(İstanbul, Türkiye)**

Burçin Çingay - Rasim Murat Aydınkal

Achieving GSPC Objective 1: Herbarium NGBB of the Nezahat Gökyiğit Botanic Garden (İstanbul, Türkiye) ¶

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¶

Herbarium NGBB of the Nezahat Gökyiğit Botanic Garden is the youngest registered herbarium in Turkey. Currently the collection has estimated from 7.500 to 10.000 herbarium sheets of vascular plants, especially rich in specimens from the Central Anatolian, Black Sea Region territories and East Mediterranean areas. Currently the NGBB collection has 1721 plant taxa and covers 13% of Turkey national flora. The families with the largest number of herbarium specimens are Asteraceae, Amaryllidaceae and Iridaceae. A total of 512 herbarium sheets are digitalised and are accessible online throughout NGBB Herbarium database <http://herbarium.ngbb.org.tr/en>. The particular interest of NGBB collection are 56 type specimens of recently described new taxa to science from Turkey. Of important value in NGBB herbarium are specimens of rare and endemic plants (511 sheets) out of which 221 belong to endemic taxa, which is 18% of total recorded Turkey endemic taxa. In total 1254 sheets of ethnobotanical specimens and 31 invasive species are stored in herbarium. NGBB collection contains more than 54 sheets of different specimens of agricultural important traditional cultivars. ¶

Keywords: Conservation, Collections, Digitalization, Herbarium specimens ¶



NEZAHAT GÖKYİĞİT BOTANIC GARDEN (NGBB)

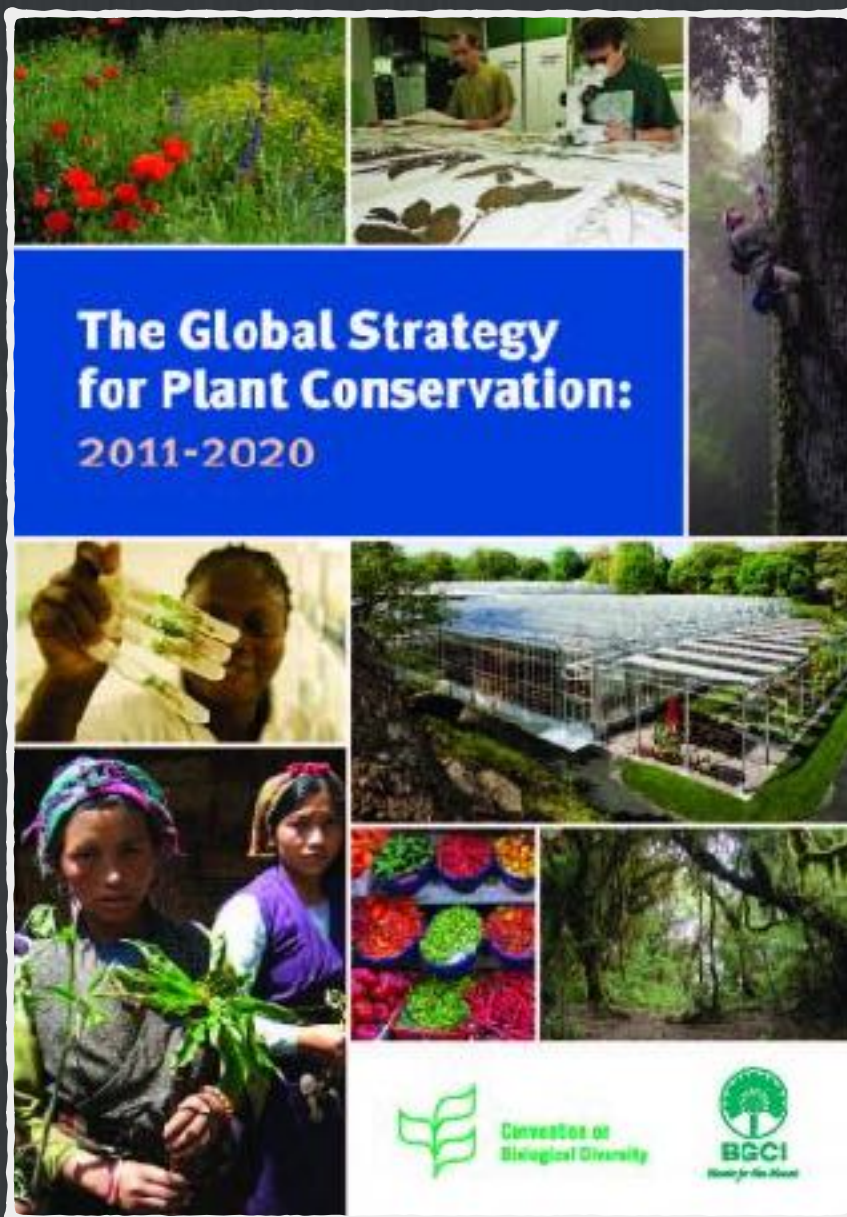
**is the first and only botanic garden to be established a
motorway intersection.**



OUTLINE

- ☐ **NGBB and Global Strategy for Plant Conservation (GSPC)**
- ☐ **Understanding and documenting plant diversity**
 - ☐ **Herbarium of NGBB**
 - ☐ **OTOBUR / Virtual Herbarium Database**

NGBB and Global Strategy for Plant Conservation (GSPC)



The Global Strategy for Plant Conservation

Without plants there is no life.
The functioning of the planet, and our survival, depends on plants.
The GSPC seeks to halt the continuing loss of plant diversity.

The GSPPC has 5 main objectives:

- ☐ **Plant diversity is well understood, documented and recognized.**
- ☐ **Plant diversity is urgently and effectively conserved.**
- ☐ **Plant diversity is used in a sustainable and equitable manner.**
- ☐ **Education and awareness about plant diversity, its role in sustainable livelihoods and importance to all life on Earth is promoted.**
- ☐ **The capacities and public engagement necessary to implement the strategy have been developed.**

How NGBB is contributing towards attaining these Targets for 2020.



GSPC objective (a) Understanding and documenting plant diversity (GSPC Targets 1-3)

- **The Herbarium established at NGBB documents and facilitates the study and research of plant species.**
- **The OTOBUR plant database system provides a valuable source for accessing plant data and for processing the information on an interactive platform.**
- **NGBB fully supports the ambitious project to prepare a new illustrated Flora of Turkey and e-flora of written by Turkish scientists and produced in Turkish.**



NGBB of HERBARIUM

**The NGBB Herbarium
started in 2004 and
recorded to Herbarium
Index at March 2010.**

The collection has from 7.500 to 10.000 herbarium specimens of vascular plants, especially rich in specimens from the Mediterranean and the Black Sea Region areas of Turkey.



Organisation and Maintenance of the Collection

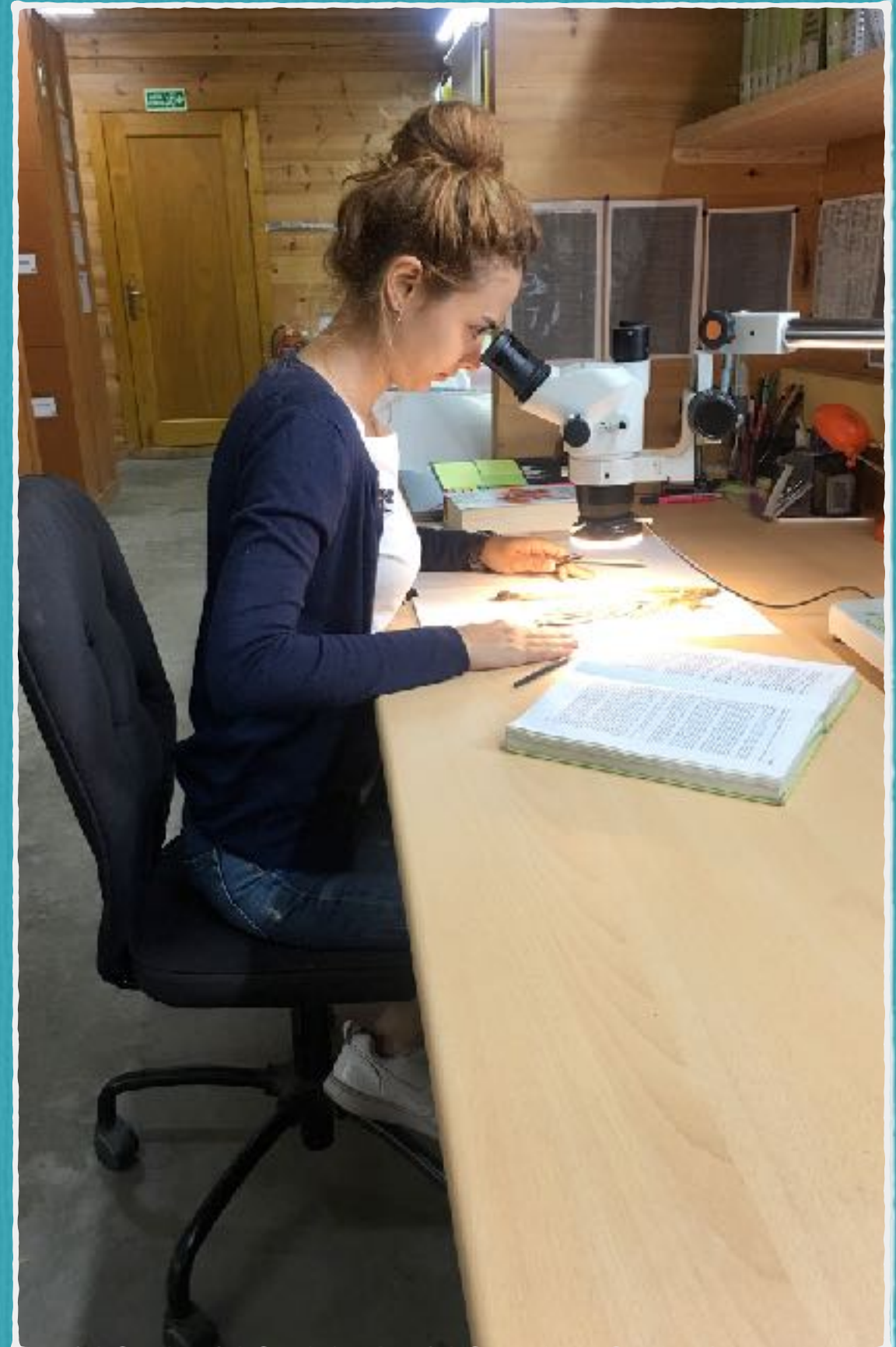
The collection is organized in alphabetical order of genera and within the herbarium shelves, the species folders (42.5 x 30.5 cm) are sorted also in alphabetical order of species for easier material handling.



Overview of Plant Material in NGBB

In a taxonomic way, 6912 herbarium sheets (data on June 20th, 2017) belong to taxa classified into 101 families and 488 genera. Currently, the NGBB collection covers approximately 25% of Turkey flora.

The families with the largest number of herbarium specimens are Asteraceae (597 sheets), Fabaceae (436 sheets), Iridaceae (407 sheets) and Lamiaceae (301 sheets), which reflects the influence of indigenous flora and bio-ecological characteristics of these families in Turkey.



Overview of Plant Material in NGBB

The particular interest of NGBB collection is 62 type specimens of recently described new taxa to science from Turkey.

Type specimens cannot be sent on loan but scanned images and photographs, as well as other herbarium specimens, are available for exchange and examination upon a request, and will be accessible throughout NGBB Virtual Herbarium database

<http://herbarium.ngbb.org.tr/en>.



Our collection contains specimens of agricultural important cultivars (over 650 sheets) such as different crop landraces, traditional and modern cultivars belonging to genera *Prunus*, *Pyrus*, *Malus*, *Vitis* and *Ficus*.

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Do you have any
questions? Thank you
for your attention

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