

Riunioni scientifiche  
Società Botanica Italiana onlus



**2° Conference of Young Botanists  
Book of Abstracts**

(a cura del Comitato Organizzatore)

9-10 February 2023, Bolzen



**Organizing Committee**

Miriam Bazzicalupo (University of Genoa); Gianmaria Bonari (Free University of Bozen-Bolzano); Jacopo Calevo (University of Naples - Federico II); Cristina Danna (University of Genoa); Luca Di Nuzzo (University of Florence); Maria Guerrina (University of Genoa); Carmelo Macrì (University of Genoa); Michele Mugnai (University of Florence); Luca Pegoraro (Swiss Federal Institute for Forest, Snow and Landscape Research); Giovanni Riviaccio (University of Sassari); Francesco Rota (Free University of Bozen-Bolzano); Damiano Spagnuolo (University of Messina); Chiara Vallese (University of Bologna); Lucia Varaldo (University of Genoa); Camilla Wellstein (Free University of Bozen-Bolzano)

**Scientific Committee**

Gianmaria Bonari (Free University of Bozen-Bolzano); Florian Boucher (University of Grenoble); Marta Carboni (University of Rome - Roma Tre); Gabriele Casazza (University of Genoa); Matteo Chialva (University of Turin); Ilaria Colzi (University of Florence); Andrea Copetta (Council for Agricultural Research and Agricultural Economy Analysis); Daniele De Luca (University of Naples - Federico II); Michele Di Musciano (University of L'Aquila); Simone Di Piazza (University of Genoa); Steven Dodsworth (University of Portsmouth); Karl Duffy (University of Naples - Federico II); Gabriele Gheza (University of Bologna); Claudia Giuliani (University of Milan - Statale); Andrew Helmstetter (French Foundation for Biodiversity Research); Chiara Montagnani (University of Milan - Bicocca); Enrica Roccotiello (University of Genoa); Antonella Smeriglio (University of Messina); Camilla Wellstein (Free University of Bozen-Bolzano)

---

## Two Botanic Gardens to preserve the traditional bio-cultural heritage in Valmalenco (SO, Italy): an Open Science strategy

M. Bottoni, F. Milani, L. Colombo, P.S. Colombo, P. Bruschi, C. Giuliani, G. Fico

**Keywords:** botanic garden, ethnobotany, local bio-cultural heritage, open science

Ethnobotany of mountain regions is receiving increased interest due to the impact of global warming on the local biodiversity. The preservation of plant's traditional know-how represents an alternative strategy for their sustainable development, in accordance with the "cultural tourism" plans. Within the European Interreg Italy-Switzerland B-ICE project (2019-2022), an ethnobotanical survey was conducted in Valmalenco (Sondrio, Lombardy, Italy) through semi-structured interviews. 401 informants were interviewed, providing information on 227 species, belonging to 77 families, and referring to 12 fields of use. To preserve this "bio-cultural landscape" the project provided the realization of two Botanic Gardens in Caspoggio. The "Didactic Botanic Garden" was designed for children to offer educational paths: 30 species were selected paying attention to their tradition, *habitus* and display of flashy flowers and fruits, useful in the interactive labs. *Ad hoc* botanic labels and illustrative panels were realized. The "High-rise Botanic Garden" was conceptualized to share a scientific approach to the selected 40 *taxa*, arranged into 8 flowerbeds, each linked to a different field of use. The primary data, extension area, maximum height, floral display, flowering period, habitat, and any incompatibility among the species were considered and a high-level interpretative apparatuses were achieved. Still, under an Open Science perspective, a two-days event was organized. The return of the scientific results to the study area represented a challenge to make people participate in the research progress, with the main goal to create awareness about the values of the traditions, with positive effects on the tourist attractiveness of the territory.

### AUTHORS

Martina Bottoni<sup>1,2</sup>, Fabrizia Milani<sup>1,2</sup>, Lorenzo Colombo<sup>1,2</sup>, Paola Sira Colombo<sup>1,2</sup>, Piero Bruschi<sup>3</sup>, Claudia Giuliani<sup>1,2</sup>, Gelsomina Fico<sup>1,2</sup>

<sup>1</sup> Department of Pharmaceutical Sciences, University of Milan, Via Mangiagalli 25, 20133 Milan, Italy

<sup>2</sup> Ghirardi Botanic Garden, Department of Pharmaceutical Sciences, University of Milan, Via Religione 25, 25088 Toscolano Maderno (Brescia), Italy

<sup>3</sup> Department of Agricultural, Environmental, Food and Forestry Science and Technology, University of Florence, Piazzale delle Cascine 18, 50144 Firenze, Italy

Corresponding author: Martina Bottoni (martina.bottoni@unimi.it)