1.8. = THE BOTANICAL GARDEN "BERNARDINO DA UCRIA" IN THE NATURAL PARK OF THE NEBRODI (SICILY) AND ITS MISSION TO CONSERVE, EXPLOIT AND SPREAD LOCAL AGROBIODIVERTITY AND OFFICINAL PLANTS

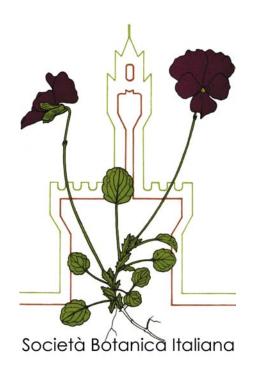
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In Sicily, the academic botanical gardens of Catania, Messina and Palermo have been historically exerting a multiplicity of activities ranging from maintenance of ex situ collections to plant conservation policy, practice and ecological restoration, along with more traditional functions related to education and academic research. In the last decade's, two new botanical gardens the "Nuova Gussonea" and the "Bernardino da Ucria", were created in Sicily, with the aim to play more delimited, yet modern and complementary roles. The garden "Nuova Gussonea", within the Etna Natural Park, is mostly devoted to collect and preserve the native flora of the Mount Etna, with a special focus on endemic and rare plants and their promotion to a wider public. The garden "Bernardino da Ucria", in the Nebrodi Natural Park, is mainly specialized in promoting the local culture and to collect and preserve the agro-biodiversity of officinal plants of the Nebrodi territory. It is located in the homonymous village in the Messina district where the famous "demonstrator of plants" and co-founder of the Botanical Garden of Palermo University was born. Noteworthy, within Sicily the Nebrodi area is undoubtedly the widest and richest in traditional activities regarding agriculture, sheep farming and sylviculture, which produced an agrobiodiversity heritage often representative of individual community cultures. Initially promoted by Palermo University and sustained by the Nebrodi Regional Park, this garden comprises the "Banca vivente del Germoplasma vegetale dei Nebrodi". Accessions conserved in vivo so far include cultivars of crops (Corylus, Pyrus, Malus, Prunus sp. pl., Ficus, Juglans), vegetables (Phaseolus and Lycopersicum) and officinal plants, that are in part representative of local agricultural practices. Among crops, the collections of Ficus, Pyrus and Corylus are remarkable; while among vegetables, the beans (Phaseolus) are represented by over 65 distinct cultivars, comprising 57 climbing and 8 dwarf species (1). Additionally, the garden's bank hosts several botanical collections unrelated to the local flora, representative of officinal and ornamental genera, such as Salvia, Helleborus, Paeonia and Camellia. The cryopreserved accessions so far encompass the bean cultivars, mainly found within the Nebrodi Park area. The aim of this particular collection is to further exploit the local agricultural and food heritage by recovering and spreading among local farmers of autochthonous cultivars under extinction risk. Moreover, the garden has recently been equipped with a molecular biology laboratory, performing studies on the genetic diversity of the accessions, as well as activities instrumental to the creation of a related DNA bank, interconnected with the Palermo Botanical garden bank (HBP-Bank). In 2011, the botanical garden of Ucria hosted the Summer School "Knowledge, conservation and management of plant biodiversity of the Mediterranean mountain systems", organized by Palermo University together with OPTIMA, and financially supported by the Nebrodi Park. Similarly, the Summer School "Management of plant biodiversity in the Mediterranean: ex situ conservation and germplasm banks" will be held in 2016. The activities of the new Ucria botanical garden and its germplasm bank, is supported by a dedicated Consortium, established by the Nebrodi Park together with Palermo University. The botanical garden "Bernardino da Ucria" is open to public in the spring and summer period. It is also offering didactic visits for educational purposes to several schools.

1) A. Messina, A. Scialabba, C, Salmeri, F.M. Raimondo (2016) Abstracts XI Convegno Nazionale sulla Biodiversità, Matera 9-10 giugno 2016



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