University of Genova

Department of Earth, Environmental and Life Sciences

Doctorate Course in Earth and Environmental Science and Technology

Università degli Studi di Genova

Dottorato in Scienze e Tecnologie per l'Ambiente e il Territorio

Curriculum in biology applied to agriculture and the environment

Research Theme n. 3

Titolo: **Conservazione di specie endemiche della flora vascolare minacciate, comprese nell'Allegato 2 della direttiva 43/92** Title: **Conservation of endemic species of endangered vascular flora, included in Annex 2 of Directive 43/92**
Tutor and co-tutor: Mauro Mariotti m.mariotti@unige.it, Gabriele Casazza gabriele.casazza@unige.it
Program description including the formation program abroad: To improve the conservation status of endemic endangered species is one of the main goals of the European Habitat Directive (CEE 43/92). This objective requires skills related: - to assess and improve the quality of habitats so that they can support a viable population of target species through different and appropriate techniques according to international standards; - to collect target species germplasm, without affecting the natural reproductive potential of the donor population, process and store it for long-term conservation; - to propagate target species, using seed germination laboratories and nurseries; - to (re)introduce/reinforce the populations of target species as appropriate; - to monitor and maintain optimal conditions for the survival of the translocated material. These activities can also make it possible: - to develop protocols and guidelines for the management of Natura 2000 sites to ensure conditions favorable to the long-term survival of each target species; - to boost economic development in the plant production sector introducing native species as garden plants. The PhD theme is dedicated to the development of activities and training within the LIFE Seedforce project, with particular regard to the target species of Ligurian vascular flora included in Annex 2 of the European directive 43/92. Techniques: study of habitats, population genetics, plant propagation, plant translocation, conservation of threatened plant species.
Financial support Tema di ricerca cofinanziato da DISTAV nell'ambito del progetto LIFE Seedforce Research topic co-financed by DISTAV within the LIFE Seedforce project
Tutor's and/or co-tutor publications: Nicoletti F. De Benedetti L., Airò M., Ruffoni B., Mercuri A., Minuto L., Casazza G., 2012 – Spatial genetic structure of *Campanula sabatia* a threatened narrow endemic species of the Mediterranean basin. Folia Geobot. 47: 249-262 Marsili, S., Barberis, G., Mariotti, M.G., Casazza, G. & Minuto, L. 2013. *Campanula sabatia*. The IUCN Red List of Threatened Species 2013: e.T162077A5529367. http://dx.doi.org/10.2305/IUCN.UK.2011-1.RLTS.T162077A5529367.en Mascarello C, Sacco E, Zappa E, Suffia GI, Mariotti MG, Ruffoni B. 2013. Osservazioni morfologiche e valutazione della germinazione dei semi di alcune specie liguri. Informatore Botanico Italiano 45: 27-34