

Ex-Situ Conservation Of Some Qur'anic Plants Their Grown In The State Qatar

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Abstract

The Holy Quran and Hadith mentioned more than 50 plants, include wild plants, cultivated plants, annual plants, perennial plants, shrubs and trees. Qatari plant genetic resources facing with many challenges and risks, human activity, desertification, overgrazing, Climate change and global warming. Conservation of plant genetic resources has become the biggest challenge today, this paper focuses initially on ex-situ conservation of the Qur'anic plants is the method of conservation of all stages of biodiversity outside their natural habitats using different methods. The genetic resources department collection missions 2012, 2013 and 2014 in Qatar Peninsula, following the principals and guidelines of Plant genetic resources collections set by Biodiversity International, in this case we selected *Zizyphus spina-christi*, *Acacia tortilis*, *Salvadora persica*, and *Citrullus colocynthis* to conduct some ecophysiological studies. According the standard gene banks management and the international conservation rules, the staff of genetic resources department make a survey, collect plant genetic resources materials, characterization, documentation and preservation process, cleaning, drying, seed germination, viability test, packaging and storing were applied for seeds of some Qatari wild plants mentioned in the Holy Quran and Hadith they conserved in genetic resources department, ministry of environment for environmental sustainability for genetic resources. The final results reported the need to preserve these important Qur'anic plants species in the gene bank and it has been conserved the seeds of those species in storage units short-term, medium-term and long-term conservation. The herbarium specimens were conserving in the appropriate herbarium units, under international standards, and we have been sent a copy of the herbarium specimens to Kew Herbarium - Royal Botanic Gardens, Kew, UK to be Gift and confirm the scientific classification and DNA was extracted and stored in units equipped for this purpose.