

Title: Large-scale design of primers for genes from atypical plants

Authors: Imen Riani¹, Youssef Trifa² and Alia BenKahla¹

¹ Institut Pasteur de Tunis

² Institut National Agronomique de Tunis

Abstract: Salinity is one of the principal barriers in the intensification of the cultivation of cereals in Tunisia. Currently several genes involved in the tolerance with salinity were characterized in *Arabidopsis*, whereas little is known about these genes in cereals and other monocotyledons because of the lack of sequence data. We propose here the protocol for systematic bioinformatic analysis of the orthologs of *Arabidopsis thaliana*, *Oryza sativa* (abundantly studied) and *Populus trichocarpa* genes in Tunisian plants (maize, tomato, citrus, olives, and dates), and to store the results in a database freely available via the Web.

Keywords: atypical plants, orthology, primers design, large-scale