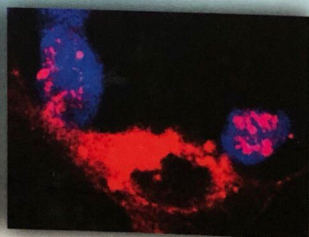
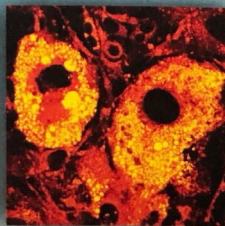
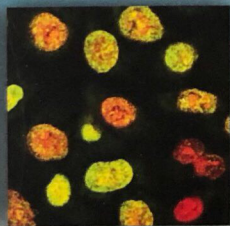
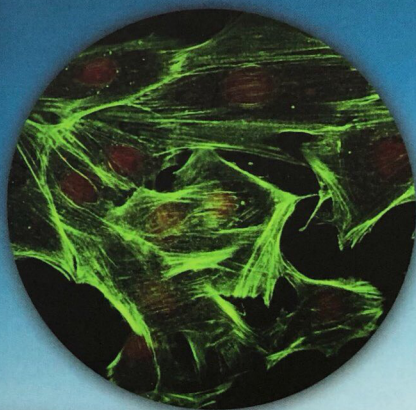
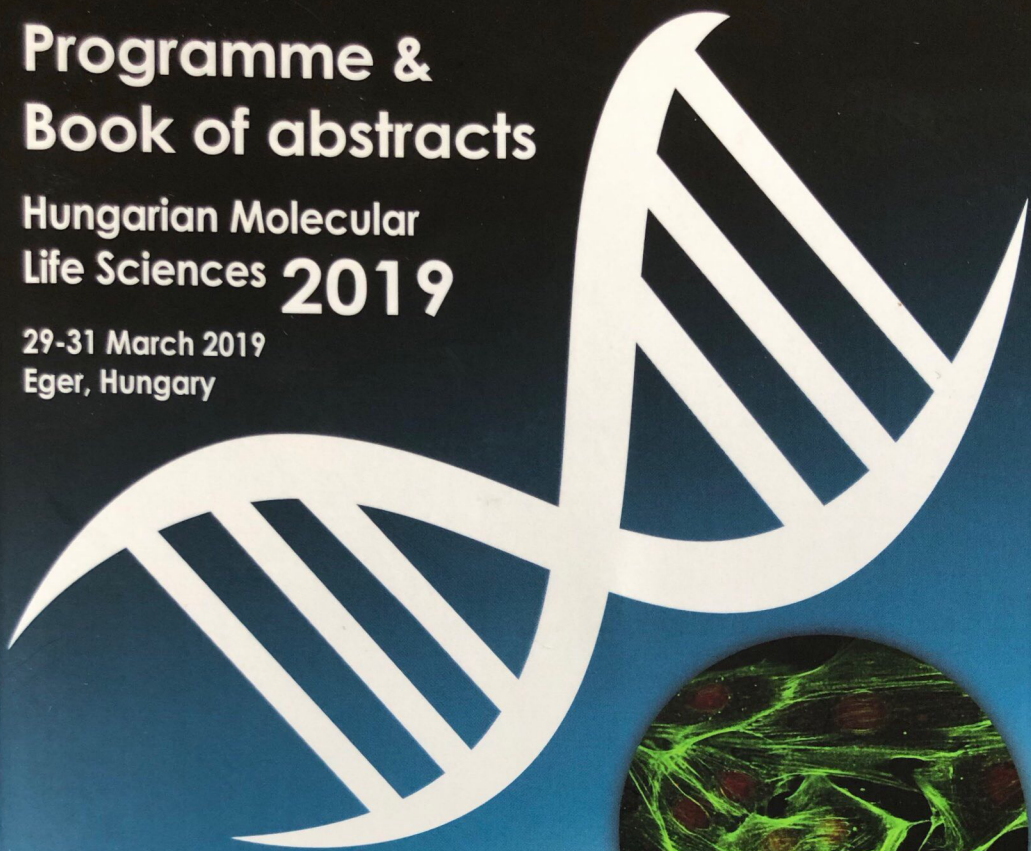


Programme & Book of abstracts

Hungarian Molecular
Life Sciences **2019**

29-31 March 2019
Eger, Hungary




Hungarian
Biochemical
Society



MAGE

Hungarian Genetics Society



identify pharmacological chaperones that promote plasma membrane delivery of ABCG2 variants with trafficking defect, opening new perspectives to the treatment of gout patients (PMID: 28128123).

This work has been supported by the National Research, Development and Innovation Office (OTKA-128123).

Keywords: ABCG2, cellular trafficking, RUSH, gout, polymorphism

P-050

Characterization of Trehalose-6-phosphate synthase and Na⁺/H⁺ antiporter genes in Turkish endemic plant species *V. turcica*

Dilek Tekdal

Department of Biotechnology, Faculty of Science and Letters, Mersin University, Mersin, Turkey

V. turcica is an endemic to Turkey and endangered plant species. Although this species was discovered in 1983, since genomic knowledge is not known, molecular studies have been few till now. As in the rest of the world, abiotic stress factors in our country seriously affect production. Salt stress, which is one of the abiotic stress factors, affects the photosynthesis and physiological functions of plants negatively and causes crop loss. Trehalose-6-phosphate synthase and vacuolar Na⁺/H⁺ antiporter genes are known to be useful in salt tolerance. In this study, the *TPS* and *NHX* – like genes in *V. turcica* plant is also salt tolerant. In this study, the *TPS* and *NHX* – like genes in *V. turcica* were partially sequenced and submitted to the NCBI database (accession numbers MK120983 and MH757417, respectively), and gene profiles of identified *TPS* and *NHX* were investigated. According to literature, this is the first attempt to identify the genes such as *TPS* and *NHX* in *V. turcica*.

Acknowledgments: This study was funded by Scientific Research Projects Coordination Unit of Mersin University (Project Code: 2018-2-AP3-2961)

Keywords: Characterization, *NHX*, Salt tolerance, *TPS*, *Vuralia turcica*