Turkish Journal

of

Botany

Keywords
Authors

bot@tubitak.gov.tr

Scientific Journals Home Page

Turkish Journal of Botany

Isolation of Trichomes from Wheat and Other Species of Flowering Plants

Zaure G. AYTASHEVA[1], Elizaveta D. BOGDANOVA[2], Aitkali M. KALIMAGAMBETOV[1], Sergey V. CHEKALIN[3], Fatima A. POLIMBETOVA[2]

[1]Department of Genetics and Molecular Biology, al-Farabi Kazakh National University, 71 al-Farabi Ave., Almaty 50038, Republic of KAZAKHSTAN

[2]Institute of Plant Physiology, Genetics and Bioengineering, Ministry of Education and Science, Republic of KAZAKHSTAN

[3]Institute of Botany and Phytointroduction, Ministry of Education and Science, Republic of KAZAKHSTAN

Abstract: Plant hairiness or pubescence as a specific phenotypical feature related to dehydration tolerance and resistance to leaf vermin is considered in this paper. A method for the isolation of trichomes, earlier developed for Arabidopsis Heynh., was found to be appropriate for the separation of similar polarised cells from pubescent wheat, Triticum aestivum L., lines, as well as some other higher plant species. This procedure thus paves the way for the study of the molecular organisation of trichomes in wheat and other mono- and dicotyledoneous plants.

Key Words: Trichomes, leaf, wheat, Triticum aestivum L., resistance, vermin, Oulema melanopiis L.

Turk. J. Bot., **30**, (2006), 217-222.
Full text: pdf
Other articles published in the same issue: Turk. J. Bot.,vol.30,iss.3.