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Pioneering Biotechnological Works on *Hordeum vulgare* L. cvs Performed in Collaboration with
the İstanbul University Biology Department and the TÜBİTAK Research Institute for Genetic
Engineering and Biotechnology

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Abstract: *Hordeum vulgare* L. (barley) is an important cereal crop and is also an excellent model organism for biochemists, physiologists, geneticists and molecular biologists. *H. vulgare* cvs. have been used as a model system for almost 30 years at the Biology Department of İstanbul University, İstanbul-Turkey. The first studies on experimental mutagenesis were followed by tissue culture, gene transfers, DNA marker applications and finally DNA arrays which, progressed further after the 1990 when collaboration was established with the Plant Biotechnology group at the TÜBİTAK Research Institute for Genetic Engineering and Biotechnology in Gebze, Kocaeli-Turkey. This review article outlines the results of original research into Turkish barley cultivars and wild types with the intention of contributing to barley-breeding programmes with recent biotechnological techniques.

Key Words: barley, mutation, tissue culture, gene transfer, DNA array

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