

DETECTION OF A HEIGHT GROWTH LOCUS IN  
AN F2 MAPPING POPULATION OF *Prunus persica*

J. X. Chaparro<sup>1</sup>, D. J. Werner<sup>2</sup>, and R. R. Sederoff<sup>1</sup>  
Departments of Forestry<sup>1</sup>, and Horticulture<sup>2</sup>,  
North Carolina State University

An F2 mapping population was generated by self-pollinating the *Prunus persica* clone 'Georgia Belle'. The F2 population generated was segregating for several morphological traits and the isozyme malate dehydrogenase (*Mdh1*). Linkage between the *Mdh1* locus and a locus controlling height growth was detected. Homozygous *Mdh1-2* trees were significantly taller than *Mdh1-1* homozygotes after one year of growth. Fine structure mapping around the *Mdh1* and height growth loci will be performed using the bulked segregant analysis technique and RAPD markers.