

Gennaro Fazio

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Overview

Gennaro Fazio is a plant breeder and research geneticist with the USDA-ARS Plant Genetic Resources Unit in Geneva, NY. The focus of his research is to develop new apple rootstocks that are more productive than current commercially available varieties and are resistant to devastating diseases like fire blight (caused by *Erwinia amylovora*) and replant disease. Part of his research focus is directed toward developing marker assisted breeding protocols for the breeding program, therefore he conducts basic and applied research on apple genetics, particularly in the area of disease resistance, root and tree architecture, rootstock mediated plant nutrition and dwarfing mechanisms of apple rootstocks. His research also aims to expand use of genetic resources within the National Malus Collection for apple rootstock improvement.

Education

Ph.D. Plant Breeding and Genetics, 2001, University of Wisconsin-Madison Department of Plant Breeding and Plant Genetics. Area of study: Application of molecular markers for breeding, quantitative genetics, plant variety identification,

M.S. Agronomy-Molecular Biology, 1997, Brigham Young University, Provo, Utah. Area of study: Identification of molecular markers linked to crown rot resistance in tomato.

B.S. Molecular Biology and Agronomy, Chemistry minor, 1995, Brigham Young University, Provo, Utah.

Professional Experience

Current Position: Research Geneticist, 2001-present, Plant Genetic Resources Unit, USDA-ARS, Geneva NY.

Adjunct Associate Professor, 2001-present, Horticultural Sciences Dept. Cornell University, Geneva NY.

Research Assistant, 1997-2001, University of Wisconsin-Madison.

Consultant, 1997, Animal Science Department, Brigham Young University.

Publications

Dr. Fazio has produced 151 publications with 2,075 citations.