



DUARTE

TREES & VINES

Duarte Olive Program

Introduction

John Duarte
President

Duarte Olive Program

- Licensed IRTA propagator
- DNI is a leader in containerized tree and vine production
- DNI is a leader in clean plant research
- Olives are a promising crop for CA growers



Duarte New Crop Approach

- Starts with outstanding genetics
- Clean Plants
- Grower oriented product formats
- Nursery methods development
- Stock improvement research
- Field support / Industry involvement



Defining Clean Plants

- Virus free
- Agrobacterium (crown gall) free
- Fungus free
- Pest and nematode free
- Elite Genetics
- Well developed and containerized
- Vigorously established



Joan Tous from IRTA

- Existing Clonal Varieties
- New Variety Development
- Rootstocks
- Moderate Density Plantings
- Harvesting Techniques



Dr. Maher Al Rwahnin from FPS at UC Davis

- International perspective on olive viruses



Javier Castellon PhD.

**Director of Research
Duarte Nursery**



Sourcing and Creating High-Health Plant Material

- Partnering with Academia / Industry
 - Foundation Plant Services
 - IRTA
 - University of California
- Micropropagation
- In-Vitro Virus Elimination



Clean Plant Technology- Micropropagation

- Advantages
 - Clean, disease-free plants
 - Protected environment
 - Alternative clonal propagation method for difficult to propagate plants
 - Quicker response to grower demand



Clean Plant Project- Virus Elimination

- Thermotherapy/Meristem Culture
- Bright's Hybrid 5 almond rootstock
- Grape Heritage Varieties
- Various selections of fig
- New and established Olive varieties



