

Fig Research Institute



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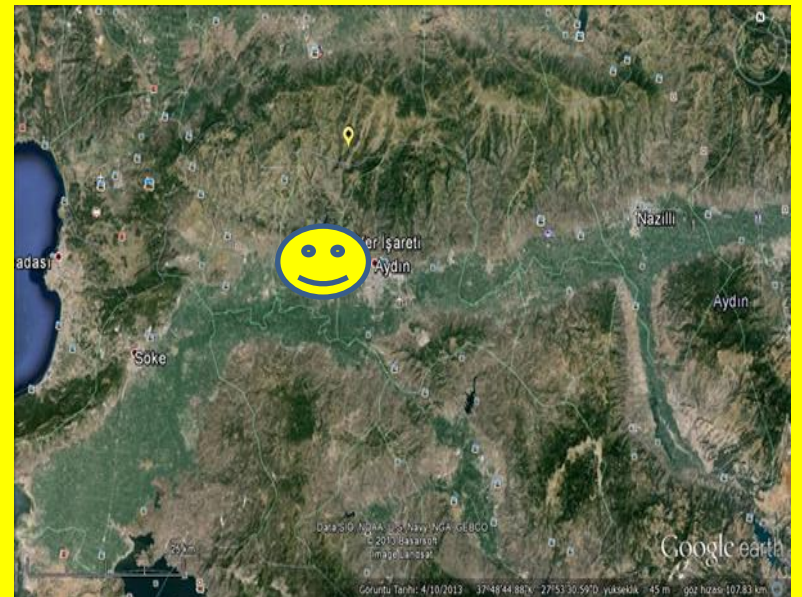
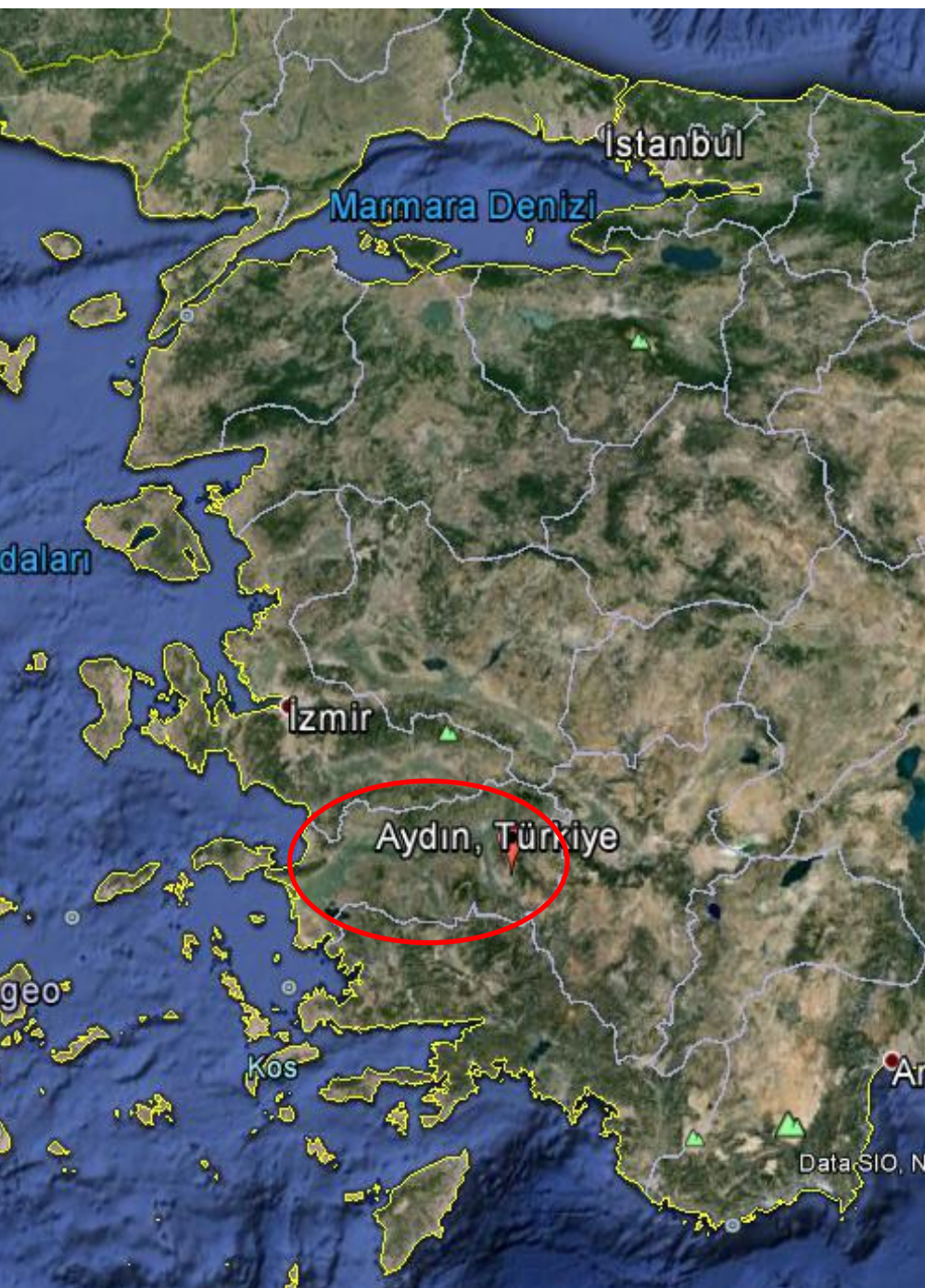
Fig Research Institute

- Fig Research Institute (FRI) was founded in 1938
- General Directorate of Agricultural Research and Policies
- Ministry of Food Agriculture and Livestock



*Ficus **carica***, its name from "Caria" , the antic settlement in the Aegean Region





- ❑ The fig (*Ficus carica* L.) is one of the oldest cultivated fruits and it is widely grown in sub-tropical and mild temperate zones of the world.
- ❑ It is an economically important fruit species in the Western Aegean region, especially in the Small and Big Menderes Valleys in Turkey.
- ❑ Sarilop variety, is well known for its superior dried fruit quality all over the world.





Ficus carica var.
Sarilop





60% of the world production (120 000 tonne) of dried figs supplied from Turkey (55-60 000 tonne) and 85% of it from Aydın



30 thousand grovers, (small scale family farming)



Production in Aydın, 50 thousand hectare 10 million fig trees



\$ 240 million exports value (dried fig)



The suitability of ecological conditions
Perfect adaptation



Extraordinary dried fruit quality



Eco-friendly production (very limited use
of chemicals, growing in dry and slopy
areas)



Reliable and safe food, functional content

- **FRI consist of six departments:**

- Growing Techniques
- Plant Breeding
- Plant Health
- Food Technology
- Agricultural Economics



- R&D Studying in 325 Decare Area
- Fig Processing Plant
- 2 Greenhouses
- 4 Laboratories



Food Technology Laboratory



Tissue Culture Laboratory



Plant Health Laboratory



Plant Physiology Laboratory

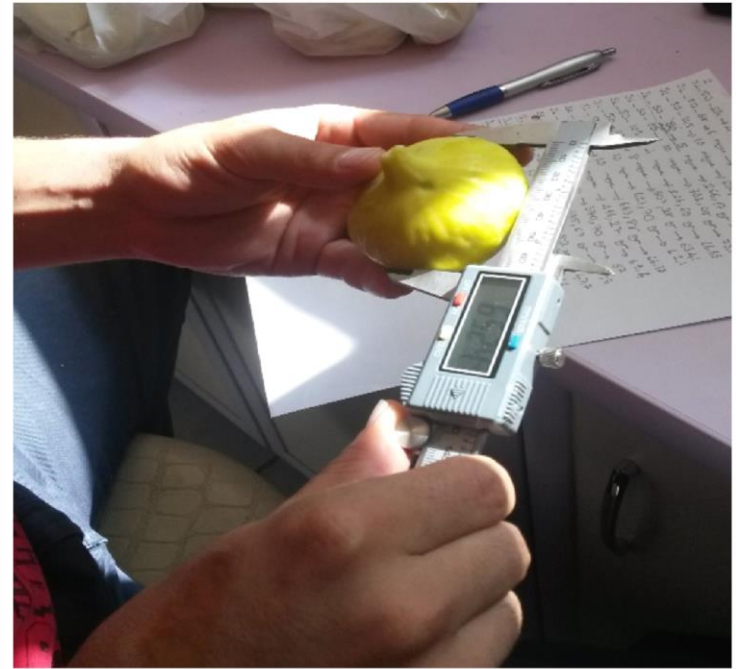


Fig Research Institute

- Collect and evaluate data about the fresh and dried fig on the country-wide base
- Collect the genetic resources of fig cultivars and to evaluate them as germplasm



Fig Genetic Collection (273 female and 58 male varieties from different region of Turkey)



Fig Research Institute

- Carry out basic and strategic researches
- Develop the infrastructure for the research and collaborate with the other research organizations in relation to these facilities





Fig Research Institute

- Obtain the scientific literatures, organize the training activities, prepare and distribute the publication.





❑ Develop New Cultivar

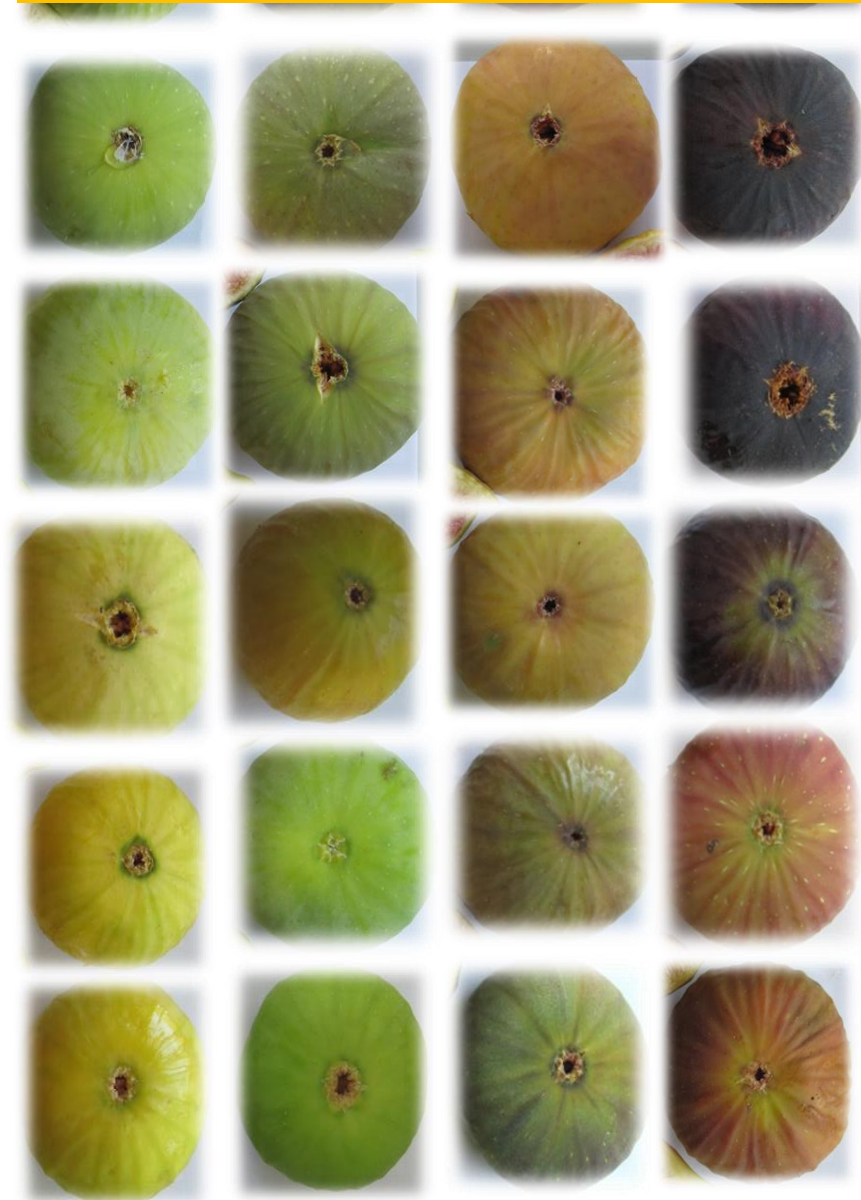
Fig breeding by hybridization and mutation

Selection of male cultivar for polination

Evaluate new varieties for fresh and dried fig consumption



Research Activities



Research Activities

Increase of Fruit Yield and Quality

- Irrigation, fertilization and yield interaction
- Intensive planting and canopy management
- Alternative tillage methods
- Climate change and fig quality
- Postharvest physiology and techniques
- Organic fig production
- Plant propagation





Research Activities

Processing Techniques and Mycotoxins

- Mycotoxins studies different fig processing stage
- Self life, storage and packing studies
- Evaluation alternative fig products



Research Activities

Plant Protection Activities

- ☐ Fig endosepsis and healthy caprifig fruits
- ☐ Fig pest management
- ☐ Rosellinia root rot



Research Activities

Base material production
and propagation via tissue
culture

Biotechnological studies in
figs



Forthcoming Research Activities

- Breeding new male and female cutivars
- Research on fig latex, seed and leaf
- Studies on food security and mycotoxin
- Employment possibilities on fig sector
- Alternative packaging methots and selflife
- Determination of internal and foreing market demands
- Drought and stress phsiology
- Determination of environmental and industrial effect on fig production
- Fig pest and disease

**Many thanks
for your attention....**

