



## Παραγωγή νέων ποικιλιών ντομάτας με χρήση ομικών τεχνολογιών

ΕΝΙΑΙΑ ΔΡΑΣΗ ΚΡΑΤΙΚΩΝ ΕΝΙΣΧΥΣΕΩΝ ΕΤΑΚ  
ΕΡΕΥΝΩ – ΔΗΜΙΟΥΡΓΩ – ΚΑΙΝΟΤΟΜΩ  
[www.eyed-etak.gr](http://www.eyed-etak.gr)



ΕΠΑνεΚ 2014-2020  
ΕΠΙΧΕΙΡΗΣΙΑΚΟ ΠΡΟΓΡΑΜΜΑ  
ΑΝΤΑΓΩΝΙΣΤΙΚΟΤΗΤΑ  
ΕΠΙΧΕΙΡΗΜΑΤΙΚΟΤΗΤΑ  
ΚΑΙΝΟΤΟΜΙΑ



Με τη συγχρηματοδότηση της Ελλάδας και της Ευρωπαϊκής Ένωσης



**ΕΠΑνεΚ 2014-2020**  
**ΕΠΙΧΕΙΡΗΣΙΑΚΟ ΠΡΟΓΡΑΜΜΑ**  
**ΑΝΤΑΓΩΝΙΣΤΙΚΟΤΗΤΑ • ΕΠΙΧΕΙΡΗΜΑΤΙΚΟΤΗΤΑ • ΚΑΙΝΟΤΟΜΙΑ**

Operational Program “Competitiveness, Entrepreneurship, and  
Innovation”  
RESEARCH-CREATE-INNOVATE

**Title: Development of new tomato cultivars by using omics  
technologies**

**Acronym: N-TOMATOMICS**

Project code: T2EDK-01332

N-Tomatomics plans to use new high-throughput technologies for biomolecular analysis (omics) to produce new Greek tomato varieties, either in the form of hybrids or inbred lines, to improve post-harvest behavior, nutritional value and productivity.

### *Actions*

- Use genotype by sequencing and omics technologies such as genomics, transcriptomics, glycoproteomics, metabolomics and phenomics

- Characterize and utilize the traditional Greek tomato varieties (landraces) and the existing genetic material, at various stages of breeding

### *Goals*

- Improve the nutritional value, productivity, shelf-life and quality of traditional tomato varieties
- Use genomic approaches to incorporate resistance to diseases
- Offer distinct varieties of local origin with differentiated flavor, shape and size
- Create a science-based online platform enriched with research data
- Increase the income of farmers and related businesses

### **Partners**

**Mediterranean Agronomic Institute of Chania**, Department of Horticultural Genetics & Biotechnology (Project Coordinator)

**Aristotle University of Thessaloniki**

**-Laboratory of Food Chemistry and Biochemistry, Department of Food Science and Technology, School of Agriculture**

-Laboratory of Pharmacognosy, Department of Pharmaceutical Sciences

-Laboratory of Genetics and Plant Breeding, Department of Genetics, Development and Molecular Biology, School of Agriculture

**Institute of Chemical Engineering Sciences- FORTH** (Foundation for Research and Technology, Hellas) (Patra, Greece)

**Institute of Plant Breeding and Genetic Resources-Hellenic Agricultural Organization -Demeter** (Thessaloniki, Greece)

**Institute of Plant Breeding and Genetic Resources-Genebank-Hellenic Agricultural Organization -Demeter** (Thessaloniki, Greece)

**Thrace Greenhouses SA** (Xanthi, Greece)

**Iakovos Greenhouses** (Chania, Greece)



Co-financed by Greek national funds and the European Union (European Regional Development Fund)