



Connecting Scientific research with Business ideas

### PROJECT TITLE

# A Simple Post-Harvest Way to Increase the Antioxidants in Walnut **Kernels**

### **CLIENT**

Food & pharmaceutical industry, nut suppliers, farmers & growers

# **OBJECTIVES / OPPORTUNITIES**

Production of fresh or dry walnuts using a simple, low cost, safe and environmental friendly technique

## **SOLUTION**

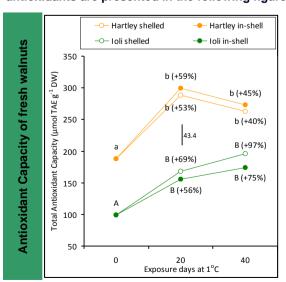
Exploitation of natural response of plant tissues exposed to abiotic stress conditions

**Enhancement of Phenyl-propanoid pathway** 

Exposure of fresh harvested, de-hulled nuts to low temperature

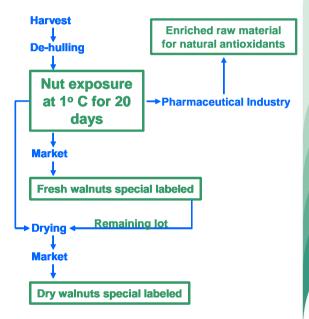
# **RESULTS**

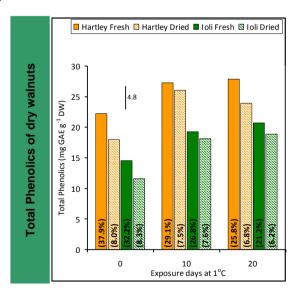
Increase in concentration of essential phenolics such us ellagic and vanillic acids (quantified by HPLC). The total antioxidants are presented in the following figures.



**OUR TEAM** 

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