Development of innovative biodegradable packaging system to improve shelf life, quality and safety of high-value sensitive horticultural fresh produce

Fact Sheet

Project Information

- **HORTIBIOPACK**
- **Grant agreement ID:** 232551
- **Status:** Closed project
- **Start date:** 1 November 2009
- **End date:** 30 April 2012
- **Funded under:** FP7-SME
- **Overall budget:** € 1 510 276
- **EU contribution:** € 1 131 807
- **Coordinated by:** GEOPONIKO PANEPISTIMION ATHINON
- **Greece**

Objective

Modified atmosphere packaging (MAP) is increasingly used with minimally processed fresh produce. Equilibrium Modified Atmosphere Packaging (EMAP) of Fresh Produce is also increasingly used to extend shelf-life of fresh produce. Increased MAP and EMAP usage coupled with negative environmental views associated with nondegradable synthetic packaging materials creates a societal and SMEs need for biodegradable films. Several research efforts have been carried out and work is in progress aimed at developing biodegradable packaging materials for various applications, including food packaging. A limited portion of this research effort is dedicated to MAP packaging systems. The development of biodegradable films that are based on renewable raw materials and designed for EMAP systems for fresh produce, meeting the design criteria of water vapour and gas barrier properties,
ensuring safety of the produce while maintaining the original quality, firmness and colour of the fresh produce is still at the very early stages of research and development. The proposed project aims at developing innovative and safe biodegradable Equilibrium Modified Atmosphere Packaging film systems based mainly on the use of environmental friendly biodegradable raw materials and aimed at the improvement of the shelf life, quality and safety of specific high value sensitive horticultural fresh produce.

Field of science

/ engineering and technology / materials engineering / coating and films
/ humanities / arts / modern and contemporary art / film
/ engineering and technology / environmental engineering / energy and fuels / fossil energy / gas
/ engineering and technology / other engineering and technologies / food and beverages / food packaging

Programme(s)

Topic(s)

Call for proposal

FP7-SME-2008-1

Funding Scheme

BSG-SME - Research for SMEs

Coordinator

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Greece

Activity type

Higher or Secondary Education Establishments

EU contribution

€ 20 000

Website

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Participants (9)
**MACH S.R.L.**

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EU contribution € 210 391

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Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)

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EU contribution € 30 180

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EU contribution € 173 500

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EU contribution

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EU contribution

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EU contribution

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