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Natural Antimicrobials For Innovative and Safe Packaging

Fact Sheet

Project Information

NAFISPACK

Grant agreement ID: 212544

[Project website](#) 

Project closed

Start date

1 November 2008

End date

31 December 2011

Funded under

Specific Programme "Cooperation": Food, Agriculture and Biotechnology

Total cost

€ 3 967 279,00

EU contribution

€ 2 971 360,00

Coordinated by

INSTITUTO TECNOLOGICO DEL
EMBALAJE, TRANSPORTE Y
LOGISTICA



Spain

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Objective

The main objective of the present project is to develop novel packaging technologies that will avoid/reduce and detect the growth of pathogens and spoilage microorganism responsible for product lost in perishable food products of interest: fresh fish, fresh chicken and minimally processed vegetables (MPVs). The target foods were selected among many, for different reasons: the consumption of MPVs is hugely increasing in all European countries and therefore, it is important to heighten the vigilance around that products; it is necessary to rebuild a consumers' confidence for chicken; fish is probably the most perishable product. Anyway, any of them is an increasing area of consumption and interest. The new technologies will improve food quality and extend the relatively short life of these fresh food products. The concern about synthetic preservatives is steadily rising, due to a limited documentation on safety and tolerance. Instead, Natural Antimicrobials (NAs), which occur abundantly in environment where they evolved as host defence mechanisms, are generally considered as safer and better tolerable. Though NAs will be used in the active material development, a systematic and scientific based work will be carried out in order to fully assess the safety of the new packages developed. Thus, along three years, NAFISPACK will develop novel food packaging technologies and novel tools for risk-benefit assessment of these technologies (basis for a risk management tool and address policy needs in the area of food contact materials): i) Active packaging technologies based on natural antimicrobials ii) Intelligent packaging technologies based on monitoring of quality indicating metabolites iii) Combination of both antimicrobial and intelligent packaging technologies aimed to increase safety and quality of fresh food products during longer periods of time.

Fields of science (EuroSciVoc)

[agricultural sciences](#) > [agriculture, forestry, and fisheries](#) > [agriculture](#) > [horticulture](#) > [vegetable growing](#)

[social sciences](#) > [sociology](#) > [governance](#) > **[crisis management](#)**

[engineering and technology](#) > [other engineering and technologies](#) > [food technology](#) > **[food packaging](#)**



Keywords

[Packaging](#)

[active](#)

[antimicrobials](#)

[chicken](#)

[fish](#)

[food contact materials](#)

[freshness indicators](#)

[intelligent](#)

[migration](#)

[minimally processed vegetables](#)

[recyclability](#)

[safety](#)

[shelf life](#)

[toxicology](#)

Programme(s)

[FP7-KBBE - Specific Programme "Cooperation": Food, Agriculture and Biotechnology](#)

Topic(s)

[KBBE-2007-2-4-04 - Innovative and safe packaging](#)

Call for proposal

FP7-KBBE-2007-1

[See other projects for this call](#)

Funding Scheme

[CP-FP - Small or medium-scale focused research project](#)

Coordinator



INSTITUTO TECNOLÓGICO DEL EMBALAJE, TRANSPORTE Y LOGÍSTICA

EU contribution

€ 405 790,00

Total cost

No data

Address

**CALLE ALBERT EINSTEIN 1 PARQUE TECNOLOGICO DE VALENCIA
46980 Paterna**

 **Spain** 

Region

Este > Comunitat Valenciana > Valencia/València

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Participants (16)



UNIVERSITA DEGLI STUDI DI MILANO

 **Italy**

EU contribution

€ 250 120,00

Address

**Via Festa Del Perdono 7
20122 Milano** 

Region

Nord-Ovest > Lombardia > Milano

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

No data



RISE INNVENTIA AB

 Sweden

EU contribution

€ 336 036,00

Address

DROTTNING KRISTINAS VAG 61

114 86 Stockholm 

Region

Östra Sverige > Stockholm > Stockholms län

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

No data



AGENCIA ESTATAL CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS

 Spain

EU contribution

€ 318 465,00

Address

CALLE SERRANO 117

28006 Madrid 

Region

Comunidad de Madrid > Comunidad de Madrid > Madrid

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

No data



SIK - INSTITUTET FOER LIVSMEDEL OCH BIOTEKNIK AB

 Sweden

EU contribution

€ 242 403,00

Address

BOX 5401

402 29 GOETEBORG 

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

No data



NOFIMA AS

 Norway

EU contribution

€ 239 650,00

Address

MUNINBAKKEN 9-13

9291 Tromso 

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

No data



TEKNOLOGIAN TUTKIMUSKESKUS VTT

 Finland

EU contribution

€ 305 708,00

Address

TEKNIIKANTIE 4 A

02044 VTT ESPOO 

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

No data



UNIVERSIDAD DE ZARAGOZA

 Spain

EU contribution

€ 269 684,00

Address

CALLE PEDRO CERBUNA 12

50009 Zaragoza 

Region

Noreste > Aragón > Zaragoza

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

No data



VEREIN ZUR FORDERUNG DES TECHNOLOGIETRANSFERS AN DER HOCHSCHULE BREMERHAVEN EV

 Germany

EU contribution

€ 199 225,00

Address

AM LUNEDEICH 12
27572 Bremerhaven 

Region

Bremen > Bremen > Bremerhaven, Kreisfreie Stadt

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

No data



DUPONT NUTRITION BIOSCIENCES APS

 Denmark

EU contribution

€ 32 000,00

Address

Langebrogade 1
1001 Copenhagen K 

Region

Danmark > Hovedstaden > Byen København

Activity type

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

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

No data



METALVUOTO S.P.A.

 Italy

EU contribution

€ 32 720,00

Address

PIAZZA SANTA MARIA BELTRADE 1
20123 MILANO 

Activity type

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

Links

- [Contact the organisation](#) 
- [Participation in EU R&I programmes](#) 
- [HORIZON collaboration network](#) 

Total cost

No data



ARTIBAL S.A.

 Spain

EU contribution

€ 125 173,00

Address

CAÑADA REAL
22600 Sabinanigo 

Region

Noreste > Aragón > Huesca

Activity type

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

Links

- [Contact the organisation](#) 
- [Participation in EU R&I programmes](#) 
- [HORIZON collaboration network](#) 

Total cost

No data



ENVAFLEX SA

Spain

EU contribution

€ 58 760,00

Address

CALLE PORTUGAL NAVES 15-20
50180 UTEBO

Activity type

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

Links

- [Contact the organisation](#)
- [Participation in EU R&I programmes](#)
- [HORIZON collaboration network](#)

Total cost

No data



NORDISCHES LACHSKONTOR GMBH

Germany

EU contribution

€ 35 586,00

Address

AM LUNEDEICH 108
27572 BREMERHAVEN

Activity type

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

Links

- [Contact the organisation](#) [Website](#)
- [Participation in EU R&I programmes](#)
- [HORIZON collaboration network](#)

Total cost

No data



VERDIFRESH SL

Spain

EU contribution

€ 12 800,00

Address

CALLE BALEARES PARCELA A3

46394 RIBA ROJA DEL TURIA

Activity type

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

Links

[Contact the organisation](#)

[Participation in EU R&I programmes](#)

[HORIZON collaboration network](#)

Total cost

No data



TOMMEN GRAM FOLIE AS

Norway

EU contribution

€ 53 720,00

Address

Halsanveien 3-11

7600 Levanger

Region

Norge > Trøndelag > Trøndelag

Activity type

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

Links

[Contact the organisation](#)

[Participation in EU R&I programmes](#)

[HORIZON collaboration network](#)

Total cost

No data



NUTRECO SERVICIOS,S.A.

 Spain

EU contribution

€ 53 520,00

Address

RONDA DE PONIENTE 9

28760 MADRID 

Activity type

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

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

No data

Last update: 16 July 2019

Permalink: <https://cordis.europa.eu/project/id/212544>

European Union, 2025