

 Content archived on 2024-06-17



# Environment-friendly packaging solutions for enhanced storage and quality of southern africa's fruit and nut exports

## Fact Sheet

### Project Information

#### ENVIROPAK

Grant agreement ID: ICA4-CT-2001-10062

Project closed

#### Start date

1 January 2002

#### End date

31 December 2004

#### Funded under

Programme for research, technological development and demonstration on "Confirming the international role of Community research, 1998-2002"

#### Total cost

€ 1 332 872,00

#### EU contribution

€ 919 933,00

#### Coordinated by

SWEDISH INSTITUTE FOR FOOD RESEARCH AND BIOTECHNOLOGY AB



Sweden

## Objective

The primary aim of this project is to develop and manufacture novel high value edible coatings and films to improve the shelf-life quality of southern Africa's fruits and

peanuts to enhance the growth of these important export industries. An inexpensive, renewable raw material, sorghum bran, from southern Africa's indigenous sorghum cereal industry will be used to extract the protein, which is water insoluble, non-allergenic, and expected to have good gas barrier and mechanical properties, i.e. it would make excellent edible barrier coatings. We will develop extraction and coating procedures and modifications of the protein, thermoplastic processing, sensory evaluation of coated fruits and peanuts and controlled release of preservatives from coatings to products, all through a multi-disciplinary approach in co-operation with the fruit export industry.

## Fields of science (EuroSciVoc)

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

[natural sciences](#) > [biological sciences](#) > [biochemistry](#) > [biomolecules](#) > **[proteins](#)**

[engineering and technology](#) > [materials engineering](#) > **[coating and films](#)**

[agricultural sciences](#) > [agriculture, forestry, and fisheries](#) > [agriculture](#) > [grains and oilseeds](#) > **[cereals](#)**



## Programme(s)

[FP5-INCO 2 - Programme for research, technological development and demonstration on "Confirming the international role of Community research, 1998-2002"](#)

## Topic(s)

Data not available

## Call for proposal

Data not available

## Funding Scheme

[CSC - Cost-sharing contracts](#)

# Coordinator



## SWEDISH INSTITUTE FOR FOOD RESEARCH AND BIOTECHNOLOGY AB

EU contribution

No data

Total cost

No data

Address

Frans Perssons Vaeg 6  
402 29 GOETEBORG  
 Sweden 

# Participants (6)



## CSIR - COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH

 South Africa

EU contribution

No data

Address

Meiring Naude Road  
0001 PRETORIA 

Total cost

No data




## INSTITUTE OF FOOD RESEARCH

 United Kingdom

EU contribution

No data

Address

Norwich Research Park, Colney  
NR4 7UA NORWICH 

Total cost

No data

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NATIONAL RESEARCH COUNCIL OF ITALY

 Italy

EU contribution

No data

Address

Piazzale Aldo Moro 7  
80125 NAPOLI 


Total cost

No data

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UNIVERSIDADE EDUARDO MONDLANE

 Mozambique

EU contribution

No data

Address

Av. de Mocambique KM 1,4  
MAPUTO 


Total cost

No data

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UNIVERSITY OF MAURITIUS

 Mauritius

EU contribution

No data

Address

REDUIT 

Total cost

No data



UNIVERSITY OF PRETORIA

 South Africa

EU contribution

No data

Address

Lynnwood Road  
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Total cost

No data

Last update: 12 April 2005

Permalink: <https://cordis.europa.eu/project/id/ICA4-CT-2001-10062>

European Union, 2025

