

# Advanced Studies on Improving Sheep Fertility by Using Artificial Means of Reproduction

## Fact Sheet

### Project Information

**SheepRep**

Grant agreement ID: 295137

**Status**

Closed project

**Start date**

1 January 2012


**End date**

31 July 2014

**Funded under**  
FP7-PEOPLE

**Overall budget**  
€ 197 700

**EU contribution**  
€ 197 700

**Coordinated by**  
UNIVERSITATEA DE STIINTE  
AGRONOMICE SI MEDICINA  
VETERINARA DIN BUCURESTI  
 Romania

## Objective

Artificial insemination (AI) in livestock has made it possible to optimize reproduction efficiency. AI is undoubtedly the management technique that has most contributed to the genetic improvement of livestock in modern animal production. By comparison to the other currently available preservation methods of semen, cryopreservation is an established industry used worldwide for performing AI, as it can preserve cells life indefinitely. The main disadvantage of semen cryopreservation is that freezing and thawing induce several forms of cellular lesions, which reduce dramatically the quality and subsequent fertilizing ability of the semen. Sperm motility, viability, membrane integrity and biochemical parameters are all routinely used tests to

assess the quality of frozen-thawed semen. However, acceptable motility and viability of spermatozoa do not necessarily lead to acceptable conception rates. By this research project, we aim at increasing the conception rate in ewes following AI, by using frozen-thawed semen. In order to achieve this goal, we have the following objectives: to improve the freezing technologies, to evaluate the cytological and cryobiological indexes of the spermatozoa, to obtain accurate biochemical and electronmicroscopical profiles of the cryopreserved cells, and to test in vivo the efficiency of different preserving and AI technologies, on the cryobiological parameters and reproduction indexes.

## Field of science

/social sciences/sociology/demography/fertility

## Programme(s)

## Topic(s)

## Call for proposal

FP7-PEOPLE-2011-IRSES

## Funding Scheme

MC-IRSES - International research staff exchange scheme (IRSES)

## Coordinator



**UNIVERSITATEA DE STIINTE AGRONOMICE SI MEDICINA VETERINARA DIN BUCURESTI**

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[Website](#)

Administrative Contact

**Laura Daniela Urdes (Dr.)**

Activity type

**Higher or Secondary  
Education Establishments**

[Contact the organisation](#)

EU contribution

**€ 24 400**

## Participants (3)

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### UNIVERSITATEA DE MEDICINA SI FARMACIE CAROL DAVILA DIN BUCURESTI

 Romania

EU contribution

**€ 29 400**

Address

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Activity type

**Higher or Secondary  
Education Establishments**

[Contact the organisation](#)

Administrative Contact

**Tudor Savopol (Mr.)**

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### UNIVERSITATEA OVIDIUS DIN CONSTANTA

 Romania

EU contribution

**€ 114 500**

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Activity type

**Higher or Secondary  
Education Establishments**

[Contact the organisation](#)

Administrative Contact

**Stela Filofteia Zamfirescu  
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### UNIVERSITA DEGLI STUDI DEL MOLISE

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EU contribution

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Activity type

**Higher or Secondary  
Education Establishments**

Administrative Contact

**Salvatore Passarella (Prof.)**

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**Record number:** 101618

**Permalink:** <https://cordis.europa.eu/project/id/295137>

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