



## MEDIGENE

**Project reference:** 279171

**Funded under:** [FP7-HEALTH](#)

### Genetic and environmental factors of insulin resistance syndrome and its long-term complications in immigrant Mediterranean populations

From 2012-01-01 to 2015-12-31, ongoing project | [MEDIGENE Website](#)

#### Project details

<p><b>Total cost:</b></p> <p>EUR 4 320 349,8</p> <p><b>EU contribution:</b></p> <p>EUR 2 996 907</p> <p><b>Coordinated in:</b></p> <p>France</p>	<p><b>Topic(s):</b></p> <ul style="list-style-type: none"><li>• <a href="#">HEALTH.2011.2.4.3-4 - Genetic and environmental factors in obesity and/or diabetes in specific populations</a></li></ul> <p><b>Call for proposal:</b></p> <p>FP7-HEALTH-2011-two-stage</p> <p><b>Funding scheme:</b></p> <p>CP-FP-SICA - Small/medium-scale focused research project for specific cooperation actions dedicated to international cooperation partner countries(SICA)</p>
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#### Objective

"MEDIGENE project will study genetic and environmental (G x E) determinants of the metabolic syndrome (MetS) in recent immigrants in Europe by a novel approach integrating ancestry of Mediterranean populations in epidemiology, locus refining and Genome Wide Association Studies (GWAS). West Mediterranean shores are place of pre-historical termini of population expansion from Southern Europe and North Africa. Archaeogenetic studies in Europe indicated that Y chromosome and mitochondrial DNA patterns or Ancestry Informative Markers (AIMs) revealed a close relationship between genetic and geographic distances able to locate an individual DNA within few hundred kilometers. The project will use this information in mapping the genetic basis of insulin resistance, cardiovascular and metabolic complications in immigrants (Albanians, Romanians, Turkish, Tunisians, Algerians and Morocco) in host countries France, Spain, Italy and Greece. Ancestry markers and studies on ancient DNA from Roman historical migration in Catalonia will help to give a better picture of the genetic landscape of Europe and North Africa. Genes for MetS will be studied in existing samples from host and home countries by GWAS, locus refining by next-generation sequencing and haplotype mapping. Informative filtered SNPs will be then used in epidemiology and novel DNA samples to reveal G x E interactions and specificities of the pathogenesis of MetS. Genetic findings will be replicated in home countries (Anatolia and North Africa) in the goal to develop markers ethnic specific and significant at a clinical scale. Major impact is expected from dissemination of our findings to prevent the occurrence of MetS and obesity in children and adolescents or in descendants of modern immigration, understanding variability clinical manifestations of MetS in the context of malnutrition and from the novel approach of GWAS strategies by ameliorating the association signal and bursting R&D activities of SMEs."

## Related information

### Report Summaries

- [Periodic Report Summary 1 - MEDIGENE \(Genetic and environmental factors of insulin resistance syndrome and its long-term complications in immigrant Mediterranean populations\)](#)

## Coordinator

UNIVERSITE MONTPELLIER I  
BOULEVARD HENRI IV 5  
MONTPELLIER, France

France

**EU contribution:** EUR 911 829

Administrative contact: Christophe Normand  
Tel.: +33411759895  
Fax: +33467542731  
[E-mail](#)

## Participants

UNIVERSITE CLAUDE BERNARD LYON 1  
43 BOULEVARD DU 11 NOVEMBRE 1918  
VILLEURBANNE, France

France

**EU contribution:** EUR 84 000

Administrative contact: Javier Olaiz  
Tel.: +33472697600  
Fax: +33472697609  
[E-mail](#)

CENTRO DE INVESTIGACION BIOMEDICA EN RED DE DIABETES Y ENFERMEDADES METABOLICAS  
Mallorca 183  
Barcelona, Spain

Spain

**EU contribution:** EUR 278 733

Administrative contact: Ana Bosch  
Tel.: +34 934170785  
Fax: +34 93 211 02 14  
[E-mail](#)

Institut Català d'Arqueologia Clàssica  
Plaça Rovellat s/n  
Tarragona, Spain

Spain

**EU contribution:** EUR 110 940

Administrative contact: Josep Maria Macias Sole  
Tel.: +34977249133  
[E-mail](#)

UNIVERSITATEA DE MEDICINA SI FARMACIE 'CAROL DAVILA' DIN BUCURESTI  
Dionisie Lupu 37  
BUCHAREST, Romania

Romania

**EU contribution:** EUR 132 614

Administrative contact: Mihail Coculescu  
Tel.: +40213198718  
Fax: +40213198718  
[E-mail](#)

ALMA MATER STUDIORUM-UNIVERSITA DI BOLOGNA  
Via Zamboni 33  
BOLOGNA, Italy

Italy

**EU contribution:** EUR 161 940

Administrative contact: Renato Pasquali  
Tel.: +390516364147  
[E-mail](#)

UNIVERSITA DEGLI STUDI MAGNA GRAECIA DI CATANZARO  
VIALE EUROPA LOCALITA GERMANETO  
CATANZARO, Italy

Italy

**EU contribution:** EUR 96 912

Administrative contact: Giorgio Sesti  
Tel.: +3909613647204  
[E-mail](#)

FONDAZIONE CASA SOLLIEVO DELLA SOFFERENZA  
VIALE CAPPUCCINI SC  
SAN GIOVANNI ROTONDO FG, Italy

Italy

**EU contribution:** EUR 114 000

Administrative contact: Michele Giuliani  
Tel.: +39882410931  
Fax: +39882410346  
[E-mail](#)

UNIVERSITA DEGLI STUDI DI ROMA TOR VERGATA  
VIA ORAZIO RAIMONDO 18  
ROMA, Italy

Italy

**EU contribution:** EUR 150 000

Administrative contact: Davide Lauro  
Tel.: +390672596931  
Fax: +390672596934  
[E-mail](#)

UNIVERSITY OF IOANNINA  
"LEOFOROS STAVROS S NIARCHOS, PANEPISTIMIOUPOLI IOANNINON"  
IOANNINA, Greece

Greece

**EU contribution:** EUR 190 800

Administrative contact: Georgios Detsikas  
Tel.: +302651007134  
Fax: +302651007940  
[E-mail](#)

"INSTITUTE OF BIOCHEMISTRY AND GENETICS, UFA SCIENTIFIC CENTRE OF RAS"  
Prospekt Oktyabrya 71  
UFA, Russia

Russia

**EU contribution:** EUR 87 705

Administrative contact: Elza Khusnutdinova  
Tel.: +73472356100  
Fax: +73472356100  
[E-mail](#)

INSTITUT PASTEUR DE TUNIS

Tunisia

Place Pasteur 13  
TUNIS, Tunisia

**EU contribution:** EUR 203 280

Administrative contact: Sonia Abdelhak  
Tel.: +21671843755572  
Fax: +21671791833  
[E-mail](#)

UNIVERSITE D'ALGER 1  
RUE DIDOUCHE MOURAD 02  
ALGER, Algeria

Algeria

**EU contribution:** EUR 75 750

Administrative contact: Mahmoud Benali Abdallah  
Tel.: +21321632710  
Fax: +21321632710  
[E-mail](#)

Institut Pasteur Du Maroc  
Place Louis Pasteur 1  
Casablanca, Morocco

Morocco

**EU contribution:** EUR 81 195

Administrative contact: Abdelhamid Barakat  
Tel.: +212522434450  
Fax: +212522260957  
[E-mail](#)

UNIVERSITETI I TIRANES  
BOULEVARD ZOGUI  
TIRANA, Albania

Albania

**EU contribution:** EUR 45 900


Administrative contact: Agron Ylli  
Tel.: +35542349549  
Fax: +3554229764  
[E-mail](#)

BIOCOMPUTING PLATFORMS LTD OY  
TEKNIKANTIE 14  
ESPOO, Finland

Finland

**EU contribution:** EUR 133 854

Administrative contact: Timo Kanninen  
Tel.: +358925177340  
[E-mail](#)

*PERSONMED KFT*  *Participation ended*  
MORA FERENC UTCA 50 1 EM  
PECS, Hungary

Hungary

Administrative contact: Robert Hermann  
Tel.: +3672953053  
[E-mail](#)

ISTANBUL UNIVERSITY  
ISTANBUL UNIVERSITESI CENTER CAMPUS  
ISTANBUL, Turkey

Turkey

**EU contribution:** EUR 71 635

Administrative contact: Yildiz Tutuncu  
Tel.: +902125335306  
Fax: +902125335306  
[E-mail](#)

Intactile SAS  
20 RUE DU CARRE DU ROI  
MONTPELLIER, France

France

**EU contribution:** EUR 50 880

Administrative contact: Louis Ollagnon  
Tel.: +33 467528851  
[E-mail](#)

INSTITUT ZA ANTROPOLOGIJU  
LJUDEVITA GAJA 32  
ZAGREB, Croatia

Croatia

**EU contribution:** EUR 14 940

Administrative contact: Morana Jarec  
Tel.: +385 01 55 35 147  
[E-mail](#)

## Subjects

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[Life Sciences](#)

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