Objective

Currently there is a lack of methodologies for the conservation of modern and contemporary artworks, many of which will not be accessible in very short time due to extremely fast degradation processes. The challenge of NANORESTART (NANOMaterials for the RESToration of works of ART) will be to address this issue within a new framework with respect to the state of the art of conservation science. NANORESTART is devoted to the development of nanomaterials to ensure long term protection and security of modern/contemporary cultural heritage, taking into account environmental and human risks, feasibility and materials costs. The market for conservation of this heritage is estimated at some €5 billion per year, and could
increase by a significant factor in the next years due to the wider use of nanomaterials. The new tools and materials developed will represent a breakthrough in cultural heritage and conservation science and will focus on: (i) tools for controlled cleaning, such as highly-retentive gels for the confinement of enzymes and nanostructured fluids based on green surfactants; (ii) the strengthening and protection of surfaces by using nanocontainers, nanoparticles and supramolecular systems/assemblies; (iii) nanostructured substrates and sensors for enhanced molecules detection; (iv) evaluation of the environmental impact and the development of security measures for long lasting conservation of cultural heritage. Within the project the industrial scalability of the developed materials will be demonstrated.

NANORESTART gathers centres of excellence in the field of synthesis and characterization of nanomaterials, world leading chemical Industries and SMEs operating in R&D, and International and European centres for conservation, education and museums. Such centres will assess the new materials on modern/contemporary artefacts in urgent need of conservation, and disseminate the knowledge and the new nanomaterials among conservators on a worldwide perspective.

Fields of science

Programme(s)

Topic(s)

Call for proposal

H2020-NMP-2014-two-stage

Funding Scheme

Coordinator
CONSORZIO INTERUNIVERSITARIO PER LO SVILUPPO DEI SISTEMI A GRANDE INTERFASE

Address
Via Della Lastruccia 3
50019 Firenze
Italy

Activity type
Research Organisations

EU contribution
€ 1 144 902,25

Website
Contact the organisation

Participants (27)

CHALMERS TEKNISKA HOEGSKOLA AB

Address
- 41296 Goeteborg

Activity type
Higher or Secondary Education Establishments

EU contribution
€ 450 437,50

Website
Contact the organisation

MIRABILE ANTONIO

Address
1 Avenue Paul Doumer
75116 Paris

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

EU contribution
€ 161 875

Website
Contact the organisation

NATIONALMUSEET

Address
Frederiksholms Kanal 12
1220 Kobenhavn

Activity type
Research Organisations

EU contribution
€ 150 000

Website
Contact the organisation
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THE ART INSTITUTE OF CHICAGO

United States

EU contribution

€ 0

Address

111 South Michigan Ave
60603 Chicago Illinois

Activity type

Other

MINISTERIO DE EDUCACION, CULTURA Y DEPORTE

Spain

EU contribution

€ 175 869,35

Address

Plaza Del Rey 1
28071 Madrid

Activity type

Public bodies (excluding Research Organisations and Secondary or Higher Education Establishments)

STICHTING HET RIJKSMUSEUM

Netherlands

EU contribution

€ 250 000

Address

Hobbemastraat 20
1071 ZC Amsterdam

Activity type

Other

UNIVERSITEIT VAN AMSTERDAM

Netherlands

EU contribution

€ 50 000

Address

Spui 21
1012WX Amsterdam

Activity type

Higher or Secondary Education Establishments
UNIVERSIDADE FEDERAL DO RIO DE JANEIRO
Brazil
EU contribution
€ 0
Address
Av Brigadeiro Trompowski Sn 2
21941 590 Rio De Janeiro

ACCADEMIA DI BELLE ARTI DI BRERA
Italy
EU contribution
€ 143 125
Address
Via Brera 28
20121 Milano

SOLOMON R GUGGENHEIM FOUNDATION
United States
EU contribution
€ 70 000
Address
1071 Fifth Avenue
10128 New York Ny

MINISTERIO DE CULTURA Y DEPORTE
Spain
EU contribution
€ 24 130,65
Address
Plaza Del Rey 1
28004 Madrid