

**Cooperative Programme
of the Agreement on Scientific Cooperation
between
The National Research Council of Italy (CNR)
and
The Centre National pour la Recherche Scientifique et Technique of
Morocco (CNRST)**

In accordance with the provision of Article VI of the Agreement between the National Research Council of Italy and the Centre National pour la Recherche Scientifique et Technique of Morocco (hereinafter referred to as CNR and CNRST respectively), both Parties have agreed on the following Cooperative Programme.

Article 1. Forms of Cooperation

The Parties will promote the cooperation between Moroccan and Italian researchers and research centres through the following forms of cooperation:

- Joint research projects
- Joint workshops

Article 2. Joint Projects

This mode of cooperation will be conducted as follows:

- 2.1 Both parties will support up to 8 joint research projects every year implemented on specific subjects with the participation of scientists from each Country and will be mutually agreed in advance by both sides. The duration of a joint research project will normally be two years.
- 2.2 The call for proposals of joint research projects will be announced by each party in May/June every two years. The first call for proposals will be announced in May/June 2011 with a deadline of 30 September 2011.
- 2.3 The joint research projects will be expected to start in January 2012.
- 2.4 Both parties, CNR and CNRST, will a) gather all the applications from their respective sides, b) review them separately, and c) exchange prioritized lists by the beginning of December every two years.

- 2.5 The list of joint research projects mutually approved (those best evaluated by each Party) shall be annexed to this Cooperation Programme.

Article 3. Joint workshops

- 3.1 Joint scientific workshops may be mutually agreed and organised, in the framework of the joint research projects, with the participation of scientists from each Country.

Article 4. Financial Support

The financial conditions for the approved joint research projects shall be as follows:

- 4.1 The Parties agree to contribute on an equal basis to the financing of the Programme, subject to the availability of the Parties' funds.
- 4.2 For each project, CNRST will provide annually up to 25 000, 00 Dhs to the Moroccan team, and CNR will provide up to 2.000,00 € to the Italian team.
- 4.3 Travel (international and domestic) and accommodation expenses for the participants shall be borne by the sending Party.
- 4.4 The support given by the Parties to the research teams shall complement the proper resources of each team, and is intended to subsidize the general costs linked to the international nature of the projects, the costs of international travel (mainly transportation and per-diem expenses). Each research team may apply for complementary support from other institutions.
- 4.5 Both Parties shall re-evaluate the amount of the allowances in relation to inflation and in accordance with the provisions existing in each Country.
- 4.6 In case of joint workshops, the receiving Party will cover the logistic costs related.

Article 5. Medical insurance

The visitor should have insurance entitling the holder to free emergency medical treatment in the host Country. The responsibility for the provision of adequate insurance against accidents that may occur during the stay in the host Country will rest with the sending Party.

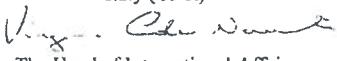
The receiving Party will provide the visitor with all indispensable organisational assistance in situations requiring such steps.

Article 6. Duration and Termination

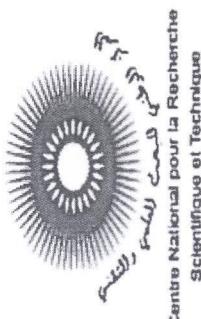
Amendments to this CNR - CNRST Cooperation Programme may be proposed by either CNR or CNRST. Such amendments will become effective when CNR and CNRST have mutually agreed upon them.

The present CNR- CNRST Cooperation Programme remains valid during the effective duration of the Agreement on Scientific Cooperation signed by and between CNR and CNRST.

Signed in two originals in English language.

For The National Research Council of Italy (CNR) 	For The Centre National pour la Recherche Scientifique et Technique (CNRST) 
The Head of International Affairs Dr. Virginia Coda Nunziante	The Head of International Affairs Dr. Leila El-Kadiri

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Final Report of the Joint Bilateral Agreement CNR/CNRST

Biennial Programme 2018-2019

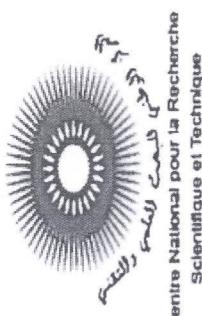
Considering the General Agreement signed on 10 June, 2011 and the joint call for the bilateral project programme launched on 5 May, 2017

At the deadline foreseen by the call 50 proposals have been submitted to both parties

After the evaluation step performed independently by both Parties agreed on funding up to 8 projects in the framework of the future joint program. CNR and CNRST jointly agreed to choose the projects that received the highest scores (max. 3 projects which belong to the same scientific area)

Despite the large number of good proposals received, the Parties agreed on the following final ranking list of the financed proposals:

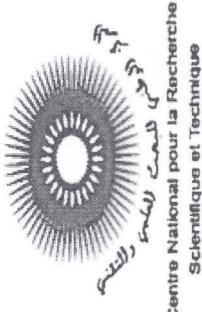
Joint Research Project	Italian Partner Coordinator Italian Institution	Moroccan Partner Coordinator Moroccan Institution
Photosynthetic algae and cost-effective carbon black nanomaterial in a joint combination to develop miniaturised electrochemical sensor for a sustainable monitoring of herbicide in surface water	Dr. SCOGNAMIGLIO Viviana CNR - Institute of Crystallography	Dr. AMINE AZIZ Faculté des Sciences et Techniques Université Hassan II Casablanca
Multidisciplinary study of the stone curlew, Burhinus oedicnemus (Aves: Chardriiformes: Burhinidae), in Morocco for estimating the effects of climate changes in the mediterranean biodiversity hotspot	Dr. BARATTI Mariella CNR - Institute of ecosystem study	Dr. AOURIR Mohamed Faculté des Sciences Université Ibn Zohr, Agadir



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Joint Research Project	Italian Partner Coordinator Italian Institution	Moroccan Partner Coordinator Moroccan Institution
Resilient vehicle geo localization system in a Smart City through low cost instrumentation and Machine Learning	Dr. LIBERATI Diego CNR - Institute of Electronics, Computer and Telecommunication Engineering	Dr. TAMENTAOUI Ahmed Institut National des Postes et Télécommunications (INPT) Rabat
Towards very low cost deposition of Chalcopyrite and Kesterite based thin film solar cells: CIGS ($\text{Cu}(\text{In},\text{Ga})\text{Se}_2$) and CZTS ($\text{Cu}_2\text{ZnSn}(\text{S},\text{Se})_4$)	Dr. GILLOLI Edmondo Institute of materials for electronics and magnetism	Dr. HILAL Ahmed Faculté des Sciences University Ibn Zohr Agadir
Traditional Moroccan Stabilizers for earthen Plasters: set up of experimental methods for the evaluation of the performances	Dr. MATTONE Manuela Institute for the Conservation and Promotion of Cultural Heritage	Dr. IBNOUSSINA Mounisif Faculté des Sciences Semlalia Université Cadi Ayyad, Marrakech
Monitoring tectonic, seismic- and landslide-related ground deformation with radar Interferometry : Al Hoceima case study in northern Rif (Morocco)	Dr. SANSOTII Eugenio Institute for electromagnetic sensing of the environment	Dr. TABYAOUI Hassan Faculté Polydisciplinaire de Taza Université Sidi Mohamed Ben Abdellah, Fès
Operational hydrodynamic model for the lagoon of Nador (Morocco)	Dr. UMGIESER Georg Marine science institute	Dr. HILMI Karim Institut National de Recherche Halieutique (INRH) Casablanca



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Joint Research Project	Italian Partner Coordinator Italian Institution	Moroccan Partner Coordinator Moroccan Institution
Use of antifungal lactic acid bacteria to combat the spoilage of post harvest fresh fruit from Morocco and Italy: rosaceae (apples, peaches and nectarines) and citrus fruits	Dr. BRASCA Milena Institute of sciences of food production	Dr. ASEHRAU Abdessam Faculté des Sciences Université Mohammed Premier, Oujda

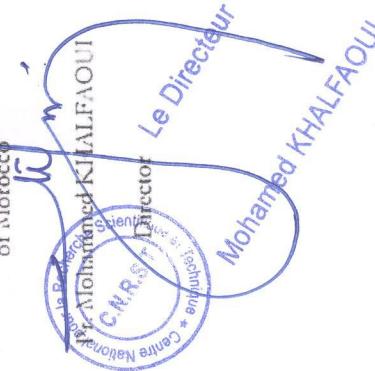
for the

National Research Council of Italy


Dr. Virginia Coda Nunziante

Head of International Relations Office

for the
Centre National pour la Recherche Scientifique et Technique (CNRST)
of Morocco


Mohamed KHALFAOUI
Le Directeur
Centre National pour la Recherche Scientifique et Technique (CNRST)
of Morocco

Date: