

EXECUTIVE PROGRAMME OF SCIENTIFIC AND TECHNOLOGICAL COOPERATION BETWEEN ITALY AND EGYPT FOR THE YEARS 2008-2010

Within the framework of the Scientific and Technical Co-operation Agreement between the Government of the Italian Republic and the Government of the Arab Republic of Egypt, which was signed in Cairo on April 29, 1975, a meeting of the Italian-Egyptian Joint Committee was held in Rome on July 24, 2008 to examine the present state and further development of scientific and technological cooperation between the two Countries and define the new Programme for the years 2008-2010.

The Italian delegation was led by Min. Plen. Elio Menzione, Deputy Director General for Cultural Promotion and Co-operation, Ministry of Foreign Affairs;

The Egyptian delegation was led by prof. Maged Al-Sherbiny, Assistant Minister for Scientific Research.

The members of the two delegations are listed in **Annex 1**.

The following agenda was adopted:

1. Present state of scientific and technological cooperation;
2. New Programme of cooperation;
3. Planning of future meetings.

The institutions in charge of the co-ordination and the realisation of the present Programme are:

for the Italian Party: Ministry of Foreign Affairs, Directorate General for Cultural Promotion and Cooperation;

for the Egyptian Party: Ministry of State for Scientific Research.

1. Present state of scientific and technological cooperation

The two Parties acknowledged the growing importance of science and technology for the economical, social and cultural development of the two Countries.

The two Parties, considering the good relationships between the two Countries, have stressed the need to develop and further strengthen the cooperation in the fields of science and technology.

2. New Programme of cooperation

2.1 Joint research projects

In order to enhance the scientific and technological cooperation between Italian and Egyptian institutions, research centres and universities, a Call for proposals was launched

in the period 15 September – 15 November 2007 to collect joint research projects in the following priority areas:

- Basic Sciences
- Bio sciences (including Health and Biotechnology);
- Environment and energy;
- Information and Communication Technology (I.C.T)
- Nano-technology;
- New materials and ecologically sustainable technologies;
- Technology transfer and innovation;
- Space and remote sensing technologies
- Technological transfer to SMEs;
- Technologies applied to cultural heritage.

The Parties have decided to take into consideration n. 54 research project proposals for the exchange of researchers and n. 32 research project proposals for the implementation of significant scientific initiatives. The two Parties, in deciding which projects should be given priority for financial support, have agreed on the following criteria:

1. qualifications and experience of research teams;
2. methodology, approach, strategy, structure, and documentation;
3. sufficiency of existing and proposed research infrastructure;
4. level of originality and innovation;
5. social and developmental added value for Italy and Egypt;
6. purpose of cooperation among the research teams;
7. exploitation of results;
8. dissemination of results.

Based upon these criteria, n. **25** projects have been selected for the award of financial support for the exchange of researchers. The list of the selected projects is given in **Annex 2**.

The general administrative and financial provisions for the implementation of the Programme are given in **Annex 3**.

The Italian Party may award a financial contribution to n. **8** significant bilateral research projects. A list of such projects is given in **Annex 4**. These financial contributions are intended to partly cover the research activities of the projects. Financial support will be granted to the Italian partners of the joint project upon evaluation of the applications to be submitted according to indications that will be given by the Italian side.

The Egyptian Party is willing to match the contribution of the Italian Party for **4** significant bilateral research projects out of the 8 projects selected by the Italian Party. These 4 projects selected by the Egyptian Party are listed in **Annex 5**.

3. Planning of future meetings

The two Parties have agreed that the next session of the Joint Committee will be held in Cairo, at a date to be agreed upon through diplomatic channels.

The present Programme is valid for the years 2008-2010 and will remain in force until the signature of the next one, but no longer than one year after its expiration.

Any amendment to the text of this Programme has to be authorised by the competent Ministries in both countries and has to be carried out through diplomatic channels.

All initiatives foreseen in this Programme shall be carried out within the limits of the budgets and according to the rules prevailing in each Country.

The present document, including the Annexes 1, 2, 3, 4 and 5, which are an integral part of it, was drafted in Rome, on July 24, 2008, in the English language, in two originals, both being equally authentic.

For the Italian Party

Min Plen. Elio Menzione

For the Egyptian Party

Prof. Maged Al-Sherbiny

Annex 1

Members of the two delegations

Italian delegation

Min. Plen. Elio Menzione
Head of Delegation
Deputy Director General for
Cultural Promotion and Co-
operation Ministry of Foreign
Affairs

Couns. Luciano Galli
Directorate General for Cultural
Promotion and Co-operation
Head of Division Science and
Technology (Office V)
Ministry of Foreign Affairs

Couns. Andrea Luca Lepore
Directorate General for Cultural
Promotion and Co-operation
Head of Office VI
Ministry of Foreign Affairs

Couns. Nicola Occhipinti
Directorate General for Cultural
Promotion and Co-operation
Office VI
Ministry of Foreign Affairs

Dr. Isabella Mazziotti
Scientific expert
Directorate General for Cultural
Promotion and Co-operation
Office V
Ministry of Foreign Affairs

Ms Paola A. De Angelis
Directorate General for Cultural
Promotion and Co-operation
Office V
Ministry of Foreign Affairs

Egyptian delegation

Prof. Maghed Al-Sherbiny
Head of Delegation
Assistant Minister for Scientific
Research

Dr. Nora Adel
Office Technical Manager
Ministry of Scientific Research

Prof. Rabie M. Salama
Cultural Attaché
Embassy of the Arab Republic of
Egypt in Italy

Annex 2

**Projects for the exchange of researchers
selected within the frame of the Executive Programme
of Scientific and Technological Cooperation
between Italy and Egypt for the years 2008-2010**

| Priority areas | | Selected projects |
|---|---------|-------------------|
| - Basic Sciences | BSc | 6 |
| - Bio sciences (including Health and Biotechnology) | Bio | 8 |
| - Environment and energy | Env | 6 |
| - Information and Communication Technology (I.C.T) | ICT | 1 |
| - New materials and ecologically sustainable technologies | NMat | 1 |
| - Technology transfer and innovation | Tech | 1 |
| - Space and remote sensing technologies | Space | 1 |
| - Technologies applied to cultural heritage. | CultHer | 1 |
| Total | | 25 |

| Project title | | Italian coordinator | Egyptian coordinator |
|---------------|------------|---|---|
| 1 | BSc | <p>Equilibrium, stability and dynamics of magnetically confined plasmas with flows.</p> <p>Francesco Pegoraro</p> <p>Università di Pisa Dipartimento di Fisica Pisa</p> <p>pegoraro@df.unipi.it tel. +30 050 2214844</p> | <p>Khater Ahmed</p> <p>Cairo University Beni Suef Dept. of Mathematics Beni Suef</p> <p>khater_ah@yahoo.com tel. +20 822327986</p> |
| 2 | BSc | <p>Fabrication and Characterization of Precise System for Generating Low-Level AC Voltage Signals.</p> <p>Umberto Pogliano</p> <p>Istituto Nazionale di Ricerca Metrologica (I.N.R.I.M.) Torino</p> <p>pogliano@inrim.it tel. +39 011 3919.433</p> | <p>Mamdouh Halawa</p> <p>National Institute for Standards (NIS) Giza</p> <p>mamdouh_halawa@yahoo.com tel. +20 105402742</p> |
| 3 | BSc | <p>Phase transitions and metastability of strongly pressurized molecular crystals.</p> <p>Lorenzo Ulivi</p> <p>Consiglio Nazionale delle Ricerche Centro di Responsabilità Scientifica di Primo Livello ex Istituto dei Sistemi Complessi Sesto Fiorentino</p> <p>lorenzo.ulivi@isc.cnr.it tel. +39 055 5226664</p> | <p>Salah El-Sheikh</p> <p>Cairo University Faculty of Engineering Physics Dept. Giza</p> <p>lsheikh@aucegypt.edu tel. +20 2 27975912</p> |
| 4 | BSc | <p>In-situ Synthesis and Sintering of ZrB₂-based Ultra High Temperature Ceramics for Structural Applications.</p> <p>Giacomo Cao</p> <p>University of Cagliari Cagliari</p> <p>cao@visnu.dicm.unica.it tel. +39 070 6755058</p> | <p>Zaki Ismail Zaki Mohamed</p> <p>Central Metallurgical R&D Institute (CMRDI) Helwan (Cairo)</p> <p>zakimohamed2000@yahoo.com tel. +20 (0) 11-3669401</p> |

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|---|------------|---|--|--|
| 5 | BSc | Eco-bioactive marine compounds. | Angelo Fontana Consiglio Nazionale Ricerche Istituto di Chimica Biomolecolare Pozzuoli (Napoli) afontana@icb.cnr.it tel. +39 081 8675096 | Ahmed Hussein National Research Center Plant Biotechnology Dept. Cairo huss4@yahoo.com tel. +20 2 33357897 |
| 6 | BSc | Sponges and Octocorals diversity for reef health evaluation. | Carlo Cerrano Università di Genova Dipartimento per lo Studio del Territorio e delle sue Risorse Genova cerrano@dipteris.unige.it tel. +39 010 3538563 | Saad Zakaria Suez Canal University Marine Science Department Ismailia saadzakria@yahoo.com tel +20 64 3326803 |
| 7 | Bio | Analysis of Growth Hormone (GH) receptor functionality in idiopathic short stature children. | Mauro Bozzola Università di Pavia Dip. di Pediatria Pavia mauro.bozzola@unipv.it tel. +39 0382501270 | Mohamed el-Kholy University of Ain Shams Dept. of Pediatrics Cairo elkholy@link.com.eg tel. +20 105838888 |
| 8 | Bio | Systemic pathogens of fruit tree crops in Egypt: molecular investigation and development of control strategies. | Marina Barba CRA-Centro di Ricerca per la Patologia Vegetale Roma m.barba@ispave.it tel. +39 06-8207-0244 | Mazyad Hamed Agricultural Research Center, Plant Pathology Research Institute Giza hamedmazyad@yahoo.com tel. +20 2 5739229 |

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| 9 | Bio | New nano-polymeric carriers for enzyme immobilization and its application in bioremediation of waters polluted by endocrine disruptors. | Damiano Gustavo Mita Second University of Naples Department of Experimental Medicine Napoli mita@igb.cnr.it tel. +39 081 6132608 | Mohamed Mohyeldin Mubarak City for Scientific Research and Technology Application Advanced Technology and New Material Research Institute (ATNMRI) - Polymer materials Research Department Alexandria m.mohyeldin@mucsat.sci.eg tel. +20 3 4593414 |
| 10 | Bio | Viscoelastic and injection properties of injectable chitosan/calcium phosphates composites with antibacterial and antimicrobial functions. | Assunta Borzacchiello National Research Council Institute for Composite and Biomedical Materials Napoli bassunta@unina.it tel. +39 081 7682104 | Wafa Ismail Abdel-Fattah National Research Centre Biomaterial Department Cairo wafa_abdel_fattah@hotmail.com tel. +20 2 3371564 ext 1657 |
| 11 | Bio | Biomarkers of vitamin A status and insulin sensitivity. Effect of lycopene ingestion. | Sancia Gaetani National Research Institute on Food and Nutrition (INRAN) Roma gaetani@inran.it tel. +39 06 51494457 | Laila Hussein National Research Center Nutrition Department Giza egcairouw@yahoo.com tel. +20 2 33371499 ext 2333 |

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| 12 | Bio | The use of blocked mutants and co-metabolism fermentation techniques in the production of new antineoplastic anthracycline antibiotics. | Francesca Romana Patacchioli University of Rome "La Sapienza" 2nd Faculty of Medicine "S.Andrea" Roma francesca.patacchioli@uniroma1.it tel. +39 06 49912506 | Badria Farid A. Mansoura University Faculty of Pharmacy Mansoura faridbadria@yahoo.com tel. +20 123542193 |
| 13 | Bio | Fetal hemoglobin inducers for the treatment of beta-thalassemia | Roberto Gambari Ferrara University Department of Biochemistry and Molecular Biology Molecular Biology Section Ferrara gam@unife.it tel. +39 532 974443 | Amal El Beshlawy Cairo University El Monira University Hospital Pediatric Hematology Dept. Cairo amalebeshlawy@yahoo.com tel. +20 123124674 |
| 14 | Bio | Human Elastine-like Polypeptides (HELP)- based 3D scaffolds for mesenchymal stem cell adherence, propagation and selective differentiation. | Antonella Bandiera Università di Trieste Dip. di Biochimica, Biofisica e Chimica delle Macromolecole (BBCM) Trieste abandiera@units.it tel. +39 0405583679 | Fouad Hanan Cairo University Faculty of Medicine Unit of Biochemistry and Molecular Biology (UBMB) Cairo hananfouadbostamy24@gmail.com tel. +20 10 1418750 |

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| 15 | Env | Enhancement of treatment of industrial wastewater containing refractory pollutants by solar and photocatalytic oxidation as a pretreatment step. | Leonardo Palmisano Università degli Studi di Palermo Dipartimento di Ingegneria Chimica dei Processi e dei Materiali Palermo relinter@unipa.it tel. +39 091 6567246 | Montaser Youssry Ghaly National Research Centre (NRC) Chemical Engineering & Pilot Plant Department Giza ghalynrc@yahoo.com tel. +20 2 33457566 |
| 16 | Env | LIBS for Environmental diagnostics. | Roberta Fantoni ENEA Frascati (Roma) fantoni@frascati.enea.it tel. +39 06 9400 5568 | Mohamed Abdel Harith Cairo University National Institute of Laser Enhanced Science NILES Giza mharithm@niles.edu.eg tel. + 20 2 35675324 |
| 17 | Env | Global Climatic Changes and Their Impacts on Mediterranean Area focussing on North Coast of Egypt, Nile Delta and South Italy. | Roberto Deidda Università degli Studi di Cagliari Dipartimento di Ingegneria del Territorio Cagliari rdeidda@unica.it tel. +39 070 6755324 | Badr Mabrouk Zagazig University Faculty of Science Geology Department Cairo badrmabrouk@hotmail.com tel. +20 2 27964547 |

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| 18 | Env | Present and future climate change studies over the Mediterranean due to atmospheric chemical component changes. | <p>Maria Rita Perrone</p> <p>University of Salento Dipartimento di Fisica Lecce</p> <p>perrone@le.infn.it tel. +39 0832 297498</p> | <p>Mohamed Magdy Abdel Wahab</p> <p>Cairo University Faculty of Science Dept. of Astronomy and Meteorology Giza</p> <p>Magdy_wahab@yahoo.com tel. +20 2 5676839</p> |
| 19 | Env | Surface wave tomography of the South-East Mediterranean domain. | <p>Giuliano Francesco Panza</p> <p>University of Trieste Department of Earth Sciences Trieste</p> <p>panza@units.it tel. +39 040 5582117</p> | <p>Salah Mohamed Mahmoud</p> <p>National Research Institute of Astronomy and Geophysics, NRIAG Helwan (Cairo)</p> <p>salahm@nriag.sci.eg tel. +20 2 25549780</p> |
| 20 | Env | Phytoremediation of heavy metals contaminated soils by Mediterranean hyperaccumulating plants. | <p>Annamaria Ranieri</p> <p>University of Pisa Department of Agricultural Chemistry and Biotechnology Pisa</p> <p>aranieri@agr.unipi.it tel. +39 050 2216605</p> | <p>Amal Amin Mohamed</p> <p>National Research Center (NRC) Cairo</p> <p>amin_amal@yahoo.com tel. +20 2 33361225</p> |

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| 21 | ICT | Reallocation of Healthcare Facilities in the New Valley governorate. | Ferdinando Terranova University of Rome "La Sapienza" Department of Industrial design, Technology of Architecture, Environmental Culture (ITACA) Roma ferdinando.terranova@uniroma1.it tel. +39 06 49919010 | Nady Mostafa Abdel Karim University of Assiut Faculty of Engineering Department of Architecture Assiut Abdelkarim@rocketmail.com tel. +20 121657639 |
| 22 | NMat | Improvement of the technology of novel photoluminescence compounds used as a security marker in special paper. | Marco De Spirito Università Cattolica del Sacro Cuore Istituto di Fisica Roma m.despirito@rm.unicatt.it tel. +39 06 30154265 | Altaf Basta National Research Center Cairo Altaf_Basta@yahoo.com tel. +20 122174239 |
| 23 | Tech | Innovative technologies for screening resistance against plant parasitic nematodes of Solanaceae | Sergio Molinari CNR - Istituto per la Protezione delle Piante Bari s.molinari@ba.ipp.cnr.it tel. +39 80 5929239 | Mahfouz Abd-Elgawad National Research Center Phytopathology Department Giza mahfouzian2000@yahoo.com tel. +20 2 35460355 |
| 24 | Space | Stationkeeping of geostationary satellites with nongravitational Forces. | Franco Bernelli Zazzera Politecnico di Milano Dipartimento di Ingegneria Aerospaziale Milano franco.bernelli@polimi.it +39 02 23998328 | Ashraf Owis Cairo University Astronomy and Meteorology Dept. Giza ahamdy75@hotmail.com tel. +20 2 25676842 |

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| 25 | CultHer | Realisation of a high definition descriptive digital catalogue of Egypt's Anthropological material (Palaeo-biological). | Alfredo Coppa University of Rome "La Sapienza" Roma alfredo.coppa@uniroma1.it tel. +39 06 49912350 | Moushira Erfan Zaki National Research Centre Biological Anthropology Department Medical Division Cairo moushiraz@yahoo.com tel. +20 2 33371433 |
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Annex 3

General administrative and financial provisions

The projects for the exchange of researchers to be financed within the present Programme are exclusively those mentioned in Annex 2.

For each project listed in Annex 2, 1 short-term stay (up to 10 days) or 1 long-term stay (30 days) will be financed yearly.

The researchers will be entitled to the exchange only if they hold the Italian nationality or the nationality of another EU country for those who travel to Egypt, and the Egyptian nationality for those who travel to Italy.

The international travel expenses between the cooperating partner institutions shall be borne by the sending Party, while the receiving Party shall bear the expenses of lodging and boarding by means of an all inclusive cash allowance.

The host Party shall provide medical insurance coverage, on the basis of the rules in force in each Country, against work accidents and illnesses, excluding already existing and chronic diseases.

The researchers have to submit to both Countries, within 30 days after finishing their research, a final report on the activities carried out. The report must be signed by both the Italian and Egyptian researchers involved in the joint project.

STAY OF EGYPTIAN RESEARCHERS IN ITALY

The application for both long- and short-term research stays shall be submitted exclusively through diplomatic channels. These applications must reach, no less than two months prior to the beginning of the research visit, Office V –Directorate-General for Cultural Promotion and Cooperation of the Italian Ministry of Foreign Affairs.

The application concerning the research stay shall be completed with the following documents:

- 1) letter of invitation by the host institution;
- 2) application form signed by the Egyptian researcher, indicating personal and professional data of the applicant, title of the research project, date and length of the visit, list of the institutes to visit. The application form is available on the Ministry of Foreign Affairs web site: www.esteri.it, following the breadcrumb trail Foreign Policy> Culture> Scientific and Technological Cooperation> Executive Programmes> Researcher mobility> Foreign researcher mobility;
- 3) detailed work programme;
- 4) *curriculum vitae* of the researcher;
- 5) letter of appointment by the coordinator of the project (only in case the researcher is not the project coordinator him/herself).

The above-mentioned application shall be completed with a declaration, whereby the researcher commits himself/herself to:

- respecting the chosen period of visit;
- not receiving any fees by other international organisations or bodies during his/her stay;

- not changing work programme and research centre, and not leaving from Italy without prior notification;
- submitting, at the end of his/her research, a final report on the activities carried out;
- noticing the insurance company *INA Assitalia* Marsh SpA, Piazza Marconi 25, 00144 Roma, of any accident and/or illness which may have occurred in Italy, for insurance purposes.

Any cancellation by the researcher, unless due to serious and valid reasons, might prevent the hosting Party from accepting further applications for related missions.

The Italian Party (Ministry of Foreign Affairs) shall provide 1300,00 Euro per month for long-term stays (30 days) and 93,00 Euro per day for short-term stays (up to 10 days).

The above-mentioned amounts shall be paid to the Egyptian researchers entirely in one instalment at their arrival in Italy.

Egyptian researchers can receive the payments at the Italian Ministry of Foreign Affairs or at the nearest Provincial Treasury (Local Branch of the Banca d'Italia). The preferred place of payment will be indicated in the Application Form.

STAY OF ITALIAN RESEARCHERS IN EGYPT

The application for both long- and short-term research stays shall be submitted exclusively through diplomatic channels. These applications must reach, no less than two months prior to the beginning of the research visit, Ministry of State for Scientific Research, 101 Kasr Aini St. (2nd floor) , Cairo, Egypt.

The application concerning the research stay shall be completed with the following documents:

- 1- Letter of invitation by the host institution;
- 2- Application form signed by the Italian researcher, indicating personal and professional data of the applicant, title of the research project, date and length of the visit, list of the institutes to visit. The application form is available at Ministry of State for Scientific Research, 101 Kasr Aini St. (2nd floor) , Cairo, Egypt or on the web site (www.estp.sci.eg).
- 3- Detailed work programme;
- 4- Curriculum vitae of the researcher;
- 5- Letter of appointment by the coordinator of the project (only in case the researcher is not the project coordinator him/herself).

The above-mentioned application shall be completed with a declaration, whereby the researcher commits himself/herself to:

- respecting the chosen period of visit;
- not receiving any fees by other international organisations or bodies during his/her stay;
- not changing work programme and research centre, and not leaving from Egypt without prior notification;
- submitting, at the end of his/her research, a final report on the activities carried out;

Any cancellation by the researcher, unless due to serious and valid reasons, might prevent the hosting Party from accepting further applications for related missions.

The Egyptian Party (Ministry of State for Scientific Research) shall provide L.E 4000 per month for long-term stays (30 days) and L.E 350 per day for short-term stays (up to 10 days).

The above-mentioned amounts shall be paid to the Italian researchers entirely in one instalment at their arrival in Egypt, at the Central Bank of Egypt nearest to the town where the hosting research centre is located.

JOURNEY OF ITALIAN RESEARCHERS TRAVELLING TO EGYPT

Italian researchers travelling to Egypt for a research stay are required to submit an official application to the Ministry of Foreign Affairs, General Directorate for Cultural Promotion and Cooperation, Office V. The application must reach the Italian Ministry of Foreign Affairs no later than two months prior to the foreseen date of departure at the following address:

*Ministero degli Affari Esteri
DGPCCC, Ufficio V, Settore Viaggi
Piazzale della Farnesina 1 – 00194 ROMA*

The application shall include:

- name and address of the hosting institution;
- departure and return travelling dates;
- title of the research project object of the mission.

In the application the researcher must declare his/her commitment to:

- paying any due penalty (up to the total amount of the ticket), in case he/she cancels the mission;
- submitting a short report on the activities carried out, and return tickets and boarding cards, within 30 days after completing the mission.

Moreover, the researcher shall attach the following documentation to the application:

- an invitation letter from the foreign institution (university or research centre) that will host the researcher;
- a written statement of the Italian project coordinator confirming the participation of the researcher to the project and authorising the mission (only in case the researcher is not the project coordinator him/herself),
- a short curriculum of the researcher.

The supplied tickets will be the most economical ones available for the trip. Any additional cost shall be borne by the researcher.

Details of the above mentioned rules and the application form to be filled are available on the web site of the Ministry of Foreign Affairs: www.esteri.gov.it, following the breadcrumb trail Foreign Policy > Culture > Scientific and Technological Cooperation > Executive Programmes > Researchers mobility > Italian researcher mobility.

JOURNEY OF EGYPTIAN RESEARCHERS TRAVELLING TO ITALY

Egyptian researchers travelling to Italy for a research stay are required to submit an official application to the Ministry of State for Scientific Research, 101 Kasr Aini St. (2nd floor) , Cairo, Egypt. no later than two months prior to the foreseen date of departure.

The application shall include:

- name and address of the hosting institution;
- departure and return travelling dates;
- title of the research project object of the mission.

In the application the researcher must declare his/her commitment to:

- paying any due penalty (up to the total amount of the ticket), in case he/she cancels the mission;
- submitting a short report on the activities carried out, and return tickets and boarding cards, within 30 days after completing the mission.

Moreover, the researcher shall attach the following documentation to the application:

- an invitation letter from the foreign institution (university or research centre) that will host the researcher;
- a written statement of the Egyptian project coordinator confirming the participation of the researcher to the project and authorising the mission (only in case the researcher is not the project coordinator him/herself),
- a short curriculum of the researcher.

The supplied tickets will be the most economical ones available for the trip. Any additional cost shall be borne by the researcher.

Details of the above mentioned rules and the application form to be filled are available on the web site of the Ministry of State for Scientific Research, 101 Kasr Aini St. (2nd floor), Cairo, Egypt or on the web site (www.estp.sci.eg).

Annex 4

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| <p>Significant research projects selected within the frame of the Executive Programme of Scientific and Technological Cooperation between Italy and Egypt for the years 2008-2010</p> |
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| Priority areas | Selected projects |
|---|-------------------|
| - Basic Sciences | 1 |
| - Bio sciences (including Health and Biotechnology) | 3 |
| - Environment and energy | 1 |
| - New materials and ecologically sustainable technologies | 1 |
| - Technology transfer and innovation | 1 |
| - Technologies applied to cultural heritage. | 1 |
| Total | 8 |

| | | Project title | Italian coordinator | Egyptian coordinator |
|---|------------|---|--|--|
| 1 | BSc | The intraplate magmatism in Egypt and its implications for the structure and evolution of the Red Sea rift system | Luigi Beccaluva Università di Ferrara Dipartimento di Scienze della Terra Ferrara bcc@unife.it tel. +39 0532 974723 | Mohammed M. Ali Abu El-Rus Assiut University Faculty of Science Geology Department Assiut aliabuelrus@yahoo.com tel. +20 88 2411453 |

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|---|------------|---|---|--|
| 2 | Bio | Chemical-biological study of medicinal plants growing in south-eastern desert of Egypt. | Sonia Piacente University of Salerno, Department of Pharmaceutical Sciences Fisciano (Salerno) piacente@unisa.it tel. +39 089 969763 | Arafa Ibrahim Hamed South Valley University Faculty of Science Asswan arafahamed75@yahoo.com tel. +20 97 3480450 |
| 3 | Bio | The contribution of molecular epidemiology for the prevention of HCV infection and liver cancer in Egypt. | Diego Serraino Centro di Riferimento Oncologico Aviano serrainod@cro.it tel. +39 0434/659 232 | Ibrahim Mohamed El-Akkary Alexandria University Medical Research Institute Alexandria vdean.res@mri.edu.eg tel. +20 3 4285455 |
| 4 | Bio | Evaluation of molecular diagnostic methods for virus-free certification of propagation plants material. | Concepcion Rubies Autonell University of Bologna Dipartimento di Scienze e Tecnologie Agroambientali Bologna concepcion.rubies@unibo.it +39 051 2096733 | Faiza A. S. Fattouh Alexandria University, Faculty of Science Botany Department Alexandria faiza_fattouh@yahoo.com tel. +20 3 4264714 |
| 5 | Env | Modeling and control of magneto-elastic multifunctional materials for power harvesting in automotive applications | Ciro Visone University of Sannio Benevento visone@unisannio.it tel. +39 0824 305579 | Amr Adly Cairo University Giza adlyamr@gmail.com tel. +20 107822762 |

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|---|----------------|--|--|--|
| 6 | NMat | Transfer of innovative technology of dry milling for high value ceramic product with low environmental impact. | Federica Bondioli Università di Modena e Reggio Emilia Dip. di Ingegneria dei Materiali e dell'Ambiente (DIMA) Modena federica.bondioli@unimore.it tel. +39 059 2056242 | Mobarak Hassany Aly Minufiya University Environmental Studies and Research Institute Sadat City, Minufiya mobarakaly@yahoo.com tel. +20 482608762 |
| 7 | Tech | Development of gaseous detector for particle physics. | Giuseppe Iaselli Politecnico di Bari Dipartimento di Fisica Bari giuseppe.iaselli@ba.infn.it tel. +39 080 544 2440 | Sherif Mohamed Cairo University Physics Department Giza mmsherif@mail.eun.eg tel. +20 10296 6973 |
| 8 | CultHer | The ancient egyptian stones: geological provenance and minero-chemical characterization by advanced micro-analytical technologies. | Alessandro Borghi Universita' degli Studi di Torino Dipartimento di Scienze Mineralogiche e Petrologiche alessandro.borghi@unito.it tel. +39 011 6705179 | Ahmed Osama Mashaly National Research Centre Marble and Granite Testing Laboratory Unit, Geological Sciences Dept. Cairo osamamashali@hotmail.com tel. +20 105272120 |

Annex 5

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| C0-funding of Significant research projects selected by the Egyptian Party within the frame of the Executive Programme of Scientific and Technological Cooperation between Italy and Egypt for the years 2008-2010 |
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| Priority areas | Selected projects |
|---|--------------------------|
| - Bio sciences (including Health and Biotechnology) | 2 |
| - New materials and ecologically sustainable technologies | 1 |
| - Technologies applied to cultural heritage | 1 |
| Total | 4 |

| | | Project title | Italian coordinator | Egyptian coordinator |
|---|------------|---|--|---|
| 1 | Bio | Chemical-biological study of medicinal plants growing in south-eastern desert of Egypt. | Sonia Piacente University of Salerno, Department of Pharmaceutical Sciences Fisciano (Salerno) piacente@unisa.it tel. +39 089 969763 | Arafa Ibrahim Hamed South Valley University Faculty of Science Asswan arafahamed75@yahoo.com tel. +20 97 3480450 |

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| 2 | Bio | The contribution of molecular epidemiology for the prevention of HCV infection and liver cancer in Egypt. | Diego Serraino Centro di Riferimento Oncologico Aviano serrainod@cro.it tel. +39 0434/659 232 | Ibrahim Mohamed El-Akkary Alexandria University Medical Research Institute Alexandria vdean.res@mri.edu.eg tel. +20 3 4285455 |
| 3 | NMat | Transfer of innovative technology of dry milling for high value ceramic product with low environmental impact. | Federica Bondioli Università di Modena e Reggio Emilia Dip. di Ingegneria dei Materiali e dell'Ambiente (DIMA) Modena federica.bondioli@unimore.it tel. +39 059 2056242 | Mobarak Hassany Aly Minufiya University Environmental Studies and Research Institute Sadat City, Minufiya mobarakaly@yahoo.com tel. +20 482608762 |
| 4 | CultHer | The ancient egyptian stones: geological provenance and minero-chemical characterization by advanced micro-analytical technologies. | Alessandro Borghi Universita' degli Studi di Torino Dipartimento di Scienze Mineralogiche e Petrologiche alessandro.borghi@unito.it tel. +39 011-6705179 | Ahmed Osama Mashaly National Research Centre Marble and Granite Testing Laboratory Unit, Geological Sciences Dept. Cairo osamamashali@hotmail.com tel. +20 105272120 |