



Università degli Studi di Messina
Prot. n. 80543
del 22/12/2015
Tit./Cl. 111/13
Decreto n. 2922/2015

UNIVERSITA' DEGLI STUDI DI MESSINA

IL RETTORE

- CONSIDERATO** l'interesse dell'Università degli Studi di Messina a cogliere opportunità di finanziamento che si presentano a livello nazionale ed internazionale compatibilmente con le priorità di sviluppo dell'Ateneo
- VISTA** la CALL FOR PROPOSALS HOME/2015/JDRU/AG/DRUG SUPPORT TO TRANSNATIONAL PROJECTS IN THE AREA OF EU DRUG POLICY della DG Giustizia della Commissione Europea
- PREMESSO** che il Prof. Giuseppe Gattuso – Dipartimento di Scienze Chimiche, biologiche, farmaceutiche ed ambientali dell'Università degli studi di Messina, intende presentare come capofila un progetto nell'ambito della suddetta call for applications, dal titolo **SuPramolecular Identification Kit for nEw psychoactive substances (SPIKE)**
- CONSIDERATO** che l'Università di Messina è Capofila del progetto e che partner sono INSTM – Consorzio Interuniversitario Nazionale per la Scienza e Tecnologia dei Materiali (Italy); University of Chemistry and Technology of Prague (Czech Republic); Université Paris Descartes (France); RaCIS – Raggruppamento Carabinieri Investigazioni Scientifiche (Italy)
- VISTO** che l'invito a presentare proposte è aperto fino al 14/01/2016
- VISTO** Il decreto del Direttore del Dipartimento di Scienze Chimiche, biologiche, farmaceutiche ed ambientali prot n 77445 del 09/12/2015, che approva la partecipazione al progetto.
- RITENUTO OPPORTUNO** procedere alla sottoscrizione della Declaration by the Applicant a firma del legale rappresentante dell'Ateneo
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- CONSIDERATO** Che il costo totale del progetto è di 700.850,00 €, di cui il 20% co-finanziato dai partner del progetto, che sarà coperto come staff-costs .
- CONSIDERATO** il carattere d'urgenza del presente provvedimento

DECRETA

Di autorizzare la partecipazione, in qualità di capofila, dell'Università degli Studi di Messina – Dipartimento di Scienze Chimiche, biologiche, farmaceutiche ed ambientali, al progetto **SuPramolecular Identification Kit for nEw psychoactive substances (SPIKE)** tramite la firma della *Declaration by the Applicant* necessaria al perfezionamento del processo di presentazione del progetto.

Il presente decreto è registrato nel Repertorio di Ateneo e conservato agli atti dall'U. Org.Relazioni Internazionali – U. Op. Programmi Europei, e sarà ratificato alla prima riunione utile degli Organi Collegiali di governo di Ateneo.

R.P.A.: Dott.ssa F. Pollicino

IL RETTORE
(Prof. Pietro Navarra)

**DECLARATION BY THE APPLICANT (FUTURE COORDINATOR) ORGANISATION
DRUG POLICY INITIATIVES¹ - 2015**

(The Applicant must fill in a copy of this declaration and the signed scan has to be attached to the Grant Application submitted to the European Commission)

1. Title of the project:

SuPramolecular Identification Kit for nEW psychoactive substances SPIKE

2. Applicant organisation:

Università degli studi di Messina

I, the undersigned, authorised to represent the Applicant organisation, certify that the information contained in this grant application is correct and complete and that the Applicant has not received any other Union funding to carry out the action which is the subject of this grant application.

I certify on my honour that the Applicant is not in one of the situations outlined in Article 131(4) of Regulation (EU, EURATOM) No 966/2012 of the European Parliament and of the Council of 25 October 2012 on the financial rules applicable to the general budget of the Union² (Financial Regulation) which would exclude it from receiving Union grants and accordingly declare that:

- a) the Applicant is not bankrupt or being wound up, is not having its affairs administered by the courts, has not entered into an arrangement with creditors, has not suspended business activities, is not the subject of proceedings concerning those matters, and is not in any analogous situation arising from a similar procedure provided for in national legislation or regulations;
- b) the Applicant has not been convicted of an offence concerning professional conduct by a judgment of a competent authority of a Member State which has the force of *res judicata*;
- c) the Applicant has not been guilty of grave professional misconduct proven by any means which the Commission can justify, including by decision of the EIB and international organisations;
- d) the Applicant is in compliance with its obligations relating to the payment of social security contributions and the payment of taxes in accordance with the legal provisions of the country in which it is established or with those of Belgium, or those of the country(ies) where the action is to be implemented;
- e) the Applicant has not been the subject of a judgment which has the force of *res judicata* for fraud, corruption, involvement in a criminal organisation, money laundering or any other illegal activity, where such illegal activity is detrimental to the Union's financial interests;
- f) the Applicant is not subject to an administrative penalty for: being guilty of misrepresentation in supplying the information required by the Commission as a condition of participation in a procurement or grant award procedure or for failing to supply this information; or having been declared to be in serious breach of its obligations under grant agreements or contracts financed by the Union's budget;
- g) the Applicant has no conflict of interest in connection with the action; a conflict of interest could arise in particular as a result of economic interests, political or national affinity, family, emotional life or any other shared interest;
- h) (Only applicable for legal persons other than Member States and local authorities) the natural persons with power of representation, decision-making or control³ over the Applicant are not in the situations referred to in b) and e) above.

I further declare that:

¹ The Justice Programme for the period 2014 to 2020 established by Regulation (EU) No 1382/2013 of the European Parliament and of the Council on 17 December 2013, and in particular Art. 4 and 6(1) outlines as a specific objective the support of initiatives in the field of drugs policy as regards judicial cooperation and crime prevention aspects closely linked to the general objective of the Programme.

² OJ 2012 L298, p. 1.

³ This covers the company directors, members of the management or supervisory bodies, and cases where one natural person holds a majority of shares.

- the Applicant will inform the Commission, without delay, of any situation considered a conflict of interest or which could give rise to a conflict of interest;
- the Applicant has not granted and will not grant, has not sought and will not seek, has not attempted and will not attempt to obtain, and has not accepted and will not accept any advantage, financial or in kind, to or from any party whatsoever, where such advantage constitutes an illegal practice or involves corruption, either directly or indirectly, inasmuch as it is an incentive or reward relating to award of the grant;
- the Applicant provided accurate, sincere and complete information within the context of this grant award procedure;
- the Applicant accepts the standard conditions as laid down in the Grant Agreement;
- the Applicant is directly responsible for the management and coordination, preparation and implementation of the activities contained in this application and is not under any circumstances acting as an intermediary;
- the Applicant is fully aware of its obligation to inform without delay the Directorate-General Migration and Home Affairs of the European Commission to whom this application is submitted, if an application for funding for the same action made to any other European Commission Directorate-General or other European Union institution/body or agency is awarded funding after the submission of this application.

I certify that the Applicant is fully eligible in accordance with the criteria set out in the specific Call for Proposals and the legal base of the funding instrument providing the funding, and that it has the financial and operational capacity to carry out the proposed action.

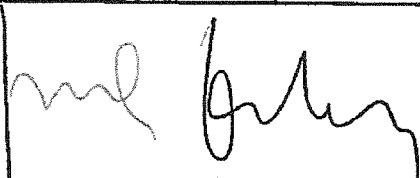
I declare that the Applicant and the Co-applicants have read and accepted the rules governing the eligibility of VAT under this Call for Proposals. Whenever the case, any cost items considered to be incurred in the framework of activities engaged in as public authority by any of the Applicant or Co-applicants, have been identified in the column "Additional Information" of the Forecast Budget Calculation Sheet of the Budget Estimate. For these items, VAT is ineligible and is not included in the cost.

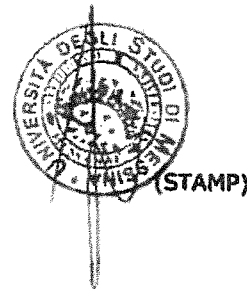
I declare to be aware that the EU co-funding only covers part of the eligible project costs (up to the maximum EU grant amount or percentage specified in the Grant Agreement), and that the remaining part must be covered by the Applicant's and/or Co-applicants' own funds.

I declare that I will respect all ethical principles and all applicable international, EU and national law on ethical issues while carrying out the project.

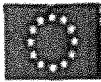
I acknowledge that the Applicant may be subject to administrative and financial penalties⁴ should it be found guilty of misrepresentation.

Signature of the legal representative of the Applicant organisation:

Title (Mr, Ms, Dr, etc.)	Prof.
Name and Surname	Pietro Navarra
Position in the organisation	Rector
Place: Messina	
Date: 21/12/2015	
Signature:	



⁴ As provided for in Article 131(5) of the Financial Regulation (EU, Euratom) No 966/2012 and Article 145 of the Rules of Application of the Financial Regulation (Commission Delegated Regulation (EU) No 1268/2012).



CALL FOR PROPOSALS

HOME/2015/JDRU/AG/DRUG

APPLICATION DEADLINE: 14/01/2016

SUPPORT TO TRANSNATIONAL PROJECTS IN THE AREA OF EU DRUG POLICY

Applicant's Name	Università di Messina
Project Title	SuPramolecular Identification Kit for nEw psychoactive substances
Acronym/Short title	SPIKE
Co-applicants	INSTM – Consorzio Interuniversitario Nazionale per la Scienza e Tecnologia dei Materiali (Italy) University of Chemistry and Technology of Prague (Czech Republic) Université Paris Descartes (France) RaCIS – Raggruppamento Carabinieri Investigazioni Scientifiche (Italy)
Beginning/end date	1 February 2017 – 31 January 2019
Principal Investigator	Prof. Giuseppe Gattuso
Department	Dipartimento di Scienze Chimiche, Biologiche, Farmaceutiche ed Ambientali
Total budget	700.000 €

Summary of the project

Abuse of and addiction to so-called New Psychoactive Substances (NPS) is today an increasing cause for concern worldwide. Law enforcement agencies are struggling to keep up with the pace at which NPS are daily surfacing. It is of the utmost importance to provide them with state-of-the-art tools to detect, identify and monitor illicit drugs at both a national and a European level. The "SuPramolecular Identification Kit for nEw psychoactive substances " (SPIKE) project aims to provide EU police agencies with an innovative set of **drug-test kits** designed to efficiently and instantly detect even trace amounts of NPS.

The SPIKE project has two main objectives: i) to assist law enforcement agencies and forensic scientists in their battle to police the manufacturing, trafficking and abuse of already known NPS, as well as to identify those yet unlisted in order for them to be added to the list of proscribed substances; ii) to develop and build drug-test kits that are at the same time highly sensitive and selective, yet versatile for specific groups of compounds, employing an innovative approach reliant on **supramolecular chemistry** and **nanotechnology** techniques. SPIKE kits will be used to carry out tests within police stations or on-the-spot, at street level, by patrol officers to reveal the possession of illegal phenethylamine and cathinone drugs.

Each of the SPIKE team partners will pursue specific tasks and activities. The proponent, **UniMe** (Università di Messina), **UCT-Prague** (University of Chemistry and Technology of Prague) and **UParis5** (Université Paris Descartes), according to their different expertise will synthesize the molecular components for the SPIKE kits, and assess their properties and stability under laboratory conditions. Synthetic receptor and photoactive moieties thus prepared will be combined for the preparation of 'pouch'-type kits (UniMe) and drug-test optical devices (**INSTM** consortium). Prototype kits will be produced, and then tested by the **RaCIS** (Raggruppamento Carabinieri Investigazioni Scientifiche) partner.

The team will promote SPIKE on the internet/press, as well as disseminate results by visiting law enforcement forensic departments in EU countries to present the SPIKE kits, organizing an International forensics workshop and on-site training sessions for law enforcement forensic and field officers (end-users).

EU law enforcement agencies (ca. 1,700,000), involved in contrast actions against NPS trafficking and abuse, will benefit from the SPIKE project. They will be able not only to enforce laws and regulations of EU countries on known restricted substances, but also to reveal a broad range of NPS that are not yet controlled under international drug regulations. Furthermore, efficient counter-measures against the diffusion of NPS will benefit society as a whole (**EU citizens: ca. 500,000,000**), in terms of a decrease in drug-related crimes and ultimately, but most importantly, protection of unaware users from severe health-related risks that their consumption may pose.

The result expected from the SPIKE project is the production of sensor systems able to reveal the presence of microgram amounts of phenethylamine and cathinone NPS. They will be composed of molecular receptors capable of recognizing key structural recurring moieties of the target NPS subclasses, coupled with photoactive units able to macroscopically signal NPS spotting. These systems, incorporated in SPIKE kits, will allow for broad NPS subclass detection while keeping 'false positives' at a minimum. Two types of SPIKE kits will be produced: **pouch'-type** kits consisting of a plastic pouch containing a crush vial with reagents dissolved in an environmentally-friendly non-toxic solvent, and **optical devices** relying on solid-supported receptors (thin-films) coupled with a pocket-size colorimeter.

Budget estimate

Estimated Expenditure

	Staff	320.000,00
	Travel	50.000,00
	Equipment	85.000,00
	Consumables	150.000,00
	Other direct costs	50.000,00
Total Direct Costs		655.000,00
	Indirect costs	45.850,00
Total Eligible Costs		700.850,00

Estimated Income

	Financial contributions specifically assigned by donors to the financing of the eligible costs & Income generated by the financed activities	
	Other income, including own contribution from the beneficiary/-ies & financial contributions not specifically assigned by donors to the financing of the eligible costs.	140.170,00
	EU Contribution	560.680,00
Total		700.850,00

Budget breakdown (approximate)

Università di Messina (Italy)	€ 300.000
Consorzio Interuniversitario Nazionale per la Scienza e Tecnologia dei Materiali (Italy)	€ 150.000
University of Chemistry and Technology of Prague (Czech Republic)	€ 100.000
Université Paris Descartes (France)	€ 100.000
RaCIS (Raggruppamento Carabinieri Investigazioni Scientifiche) (Italy)	€ 50.000



Università degli Studi di Messina
Dipartimento di Scienze Chimiche,
Biologiche, Farmaceutiche ed Ambientali

Università degli Studi di Messina	
UNMECLE - Dip. ChiBioFarAm	
Prot. n.	77445
Decreto n.	11/2015
del	09/12/2015
Tit./Cl.	11/13 - Fascicolo

IL DIRETTORE DEL DIPARTIMENTO

VISTO la richiesta pervenuta da parte del Prof. Giuseppe Gattuso relativa alla presentazione di un progetto di ricerca nell'ambito della *call* del *Directorate-General Migration and Home Affairs* della UE (codice: HOME/ 2015/JDRU/AG/DRUG) dal titolo: "Supramolecular Identification Kit for new psychoactive substances – SPIKE";

CONSIDERATA la particolare urgenza in relazione ai termini di presentazione;

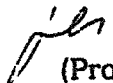
RITENUTO opportuno procedere nelle more dell'approvazione da parte del Consiglio di Dipartimento;

DECRETA

(Art.unico)

E' approvata la presentazione, da parte del Prof. Giuseppe Gattuso, in qualità di Responsabile per il Dipartimento di Scienze Chimiche, Biologiche, Farmaceutiche ed Ambientali dell'Università di Messina, del progetto di ricerca " **Supramolecular identification kit for new psychoactive substances – SPI KE**" come da documentazione citata in premessa.

Il presente decreto sarà sottoposto a ratifica del prossimo Consiglio di Dipartimento.

 Il Direttore
(Prof. Giovanni Grassi)
