

MISSIONE 4
ISTRUZIONE
RICERCA**One Health Basic and Translational Research Actions
Addressing Unmet Needs on Emerging Infectious Diseases**

Hub del Partenariato Esteso PNRR sulle malattie infettive emergenti – CUP B13C22002440006

Pavia, 10/01/2024

**CONTRATTO FONDAZIONE INF-ACT-UNIPD: COMUNICAZIONE ESITO
PROCEDURE DI VALUTAZIONE DEL BANDO A CASCATA COC-1-2023-UNIPD**

Gentilissimi,

facendo seguito a quanto previsto all'interno del contratto attivo tra la Fondazione INF-ACT e l'Università di Padova per la gestione della fase di raccolta e valutazione delle domande di finanziamento per il bando in oggetto, abbiamo il piacere di comunicare che abbiamo completato le attività di valutazione con il supporto dei revisori internazionali, il cui iter procedurale è riepilogato di seguito:

In risposta al bando COC-1-2023-UNIPD, Approvato con Decreto del Direttore Generale Rep. n. 3871/2023 Prot. n. 191718 del 02/10/2023 e s. m. con Decreto del Direttore Generale Rep. n. 3974/2023 Prot. n. 199630 del 10/10/2023, è pervenuta regolarmente una singola proposta progettuale entro la scadenza fissata alle 12:00 del 13/11/2023. I contenuti di tale proposta sono stati valutati formalmente dalla Fondazione INF-ACT attraverso un controllo di regolarità circa la presenza di tutti gli allegati richiesti e la corretta compilazione della domanda di partecipazione. Il controllo ha avuto esito POSITIVO, e pertanto la proposta progettuale è stata sottoposta a revisione di merito da parte dei revisori internazionali nominati dall'Università di Padova con Decreto del Direttore Generale nr 4772/2023 – prot. nr 0234299 del 21.11.2023. Il risultato della valutazione è riportato nell'Allegato 1.

In allegato trasmettiamo il *summary report* redatto dai revisori scientifici, discusso collegialmente ed approvato durante l'incontro online tenutosi il giorno 15/12/2023 alle ore 16:00 in modalità telematica.

Alla luce degli esiti pervenuti, vi chiediamo pertanto di procedere con la massima sollecitudine alla redazione e pubblicazione della graduatoria con gli esiti della valutazione dei progetti presentati in risposta al bando a cascata COC-1-2023-UNIPD, affinché sia possibile procedere nei tempi stabiliti con le successive fasi di negoziazione e di avvio dei progetti.

Precisiamo che la valutazione della solidità patrimoniale e l'ammissibilità dei soggetti privati beneficiari facenti parte del raggruppamento progettuale sarà effettuata quanto prima, come concordato all'interno del contratto sottoscritto tra la Fondazione INF-ACT e il UNIPD.

Cordialmente,

Il Presidente della Fondazione INF-ACT
Prof. Federico Forneris
(Documento Firmato Digitalmente)



**One Health Basic and Translational Research Actions
Addressing Unmet Needs on Emerging Infectious Diseases**

Hub del Partenariato Esteso PNRR sulle malattie infettive emergenti – CUP B13C22002440006

Allegato 1 – Esito della revisione delle proposte progettuali pervenute in risposta al bando COC-1-2023-UNIPD

ID	Titolo	Acronimo	Soggetto Proponente	Soggetti Beneficiari	Costo Totale Progetto (EUR)	Agevolazione Richiesta (EUR)	Punteggio
S2.P0001	DECRYPTING THE SYMBIONTS-VECTORS-PATHOGENS TRILOGY: NEW EFFICIENT TOOLS FOR MONITORING AND CONTROL	SYMPATRYH	Università degli Studi di Camerino	Università degli Studi di Perugia Università degli Studi di Parma ENEA Genomix4Life s.r.l.	1'673'884.35	1'387'456.40	90.5/100

Fondazione di Partecipazione INF-ACT. Corso Strada Nuova 65, 27100 Pavia – Hub del progetto Partenariati Estesi PNRR M4C2, Linea 13 “Malattie Infettive Emergenti”

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**SCIENTIFIC REVIEW OF PROPOSAL SUBMITTED WITHIN THE INF-ACT CASCADE
OPEN CALL 2023 – ID COC-1-2023-UNIPD** [REVISIONE SCIENTIFICA DELLE PROPOSTE
PROGETTUALI IN RISPOSTA AL BANDO A CASCATA INF-ACT 2023 – ID COC-1-2023-UNIPD]

The undersigned [*il sottoscritto*], Name Surname [*Nome, Cognome*] Laura C. Harrington....., born in [*nato a*], **...Ithaca, NY, USA.....** on [*il*] ...18/09/1968..., resident in [*residente in*]..... 53 Sunset West Circle, Ithaca, NY USA..... in quality of member of the review panel nominated by Spoke 2 -Università degli Studi di Padova on 21.11.2023 (DDG rep.nr 47772/2023 – prot nr 23429) [*in qualità di membro della commissione di valutazione nominata da Spoke 2 – Università degli Studi di Padova il 21.11.2023 (DDG rep.nr 47772/2023 – prot nr 23429)*]

making use of the provisions of the Italian Law as defined in art. 46 of Presidential Decree 28.12.2000, No. 445 and aware of the criminal sanctions, in the case of untruthful declarations, formation or use of documents false, referred to in the art. 76 of the Presidential Decree 445/2000, under his own personal responsibility, [*valendosi delle disposizioni della legislazione Italiana, ai sensi dell'art. 46 del DPR 28.12.2000, N. 445 e consapevole delle sanzioni penali, nel caso di dichiarazioni non veritiere, di formazione o uso di atti falsi, richiamate dall'art. 76 del D.P.R. 445/2000, sotto propria personale responsabilità*]

DECLARE [DICHIARA]

- To have submitted the individual review report for the project proposals submitted within the call COC-1-2023-UNIPD, [*di aver inviato il report di valutazione individualae per le proposte progettuali in risposta al bando COC-1-2023-UNIPD*]
- To have participated to the review panel meeting on 15.12.2023 at 4 PM (CET) remotely via Zoom [*di aver partecipato al meeting della commissione di valutazione il 15.12.2023 alle ore 4 PM (CET) in modalità telematica via Zoom*]

Name,Surname: Laura C. Harrington

Date: December 28, 2023

Signature¹ *Laura Harrington*

¹ If the document is signed with holographic signature, please provide a copy of identity document/passport

**SCIENTIFIC REVIEW OF PROPOSAL SUBMITTED WITHIN THE INF-ACT CASCADE
OPEN CALL 2023 – ID COC-1-2023-UNIPD** *[REVISIONE SCIENTIFICA DELLE PROPOSTE
PROGETTUALI IN RISPOSTA AL BANDO A CASCATA INF-ACT 2023 – ID COC-1-2023-UNIPD]*

The undersigned [*il sottoscritto*], Name Surname [*Nome, Cognome*] Paulo Eduardo Martins Ribolla, born in [*nato a*], São Paulo, Brazil on [*il*] 12/09/1970, resident in Rua Nicola Durante, 71 apto H81, Botucatu, São Paulo, Brazil in quality of member of the review panel nominated by Spoke 2 -Università degli Studi di Padova on 21.11.2023 (DDG rep.nr 47772/2023 – prot nr 23429) [*in qualità di membro della commissione di valutazione nominata da Spoke 2 – Università degli Studi di Padova il 21.11.2023 (DDG rep.nr 47772/2023 – prot nr 23429)*]


making use of the provisions of the Italian Law as defined in art. 46 of Presidential Decree 28.12.2000, No. 445 and aware of the criminal sanctions, in the case of untruthful declarations, formation or use of documents false, referred to in the art. 76 of the Presidential Decree 445/2000, under his own personal responsibility, [*valendosi delle disposizioni della legislazione Italiana, ai sensi dell'art. 46 del DPR 28.12.2000, N. 445 e consapevole delle sanzioni penali, nel caso di dichiarazioni non veritiere, di formazione o uso di atti falsi, richiamate dall'art. 76 del D.P.R. 445/2000, sotto propria personale responsabilità*]

DECLARE *[DICHIARA]*

- To have submitted the individual review report for the project proposals submitted within the call COC-1-2023-UNIPD, [*di aver inviato il report di valutazione individualae per le proposte progettuali in risposta al bando COC-1-2023-UNIPD*]
- To have participated to the review panel meeting on 15.12.2023 at 4 PM (CET) remotely via Zoom [*di aver partecipato al meeting della commissione di valutazione il 15.12.2023 alle ore 4 PM (CET) in modalità telematica via Zoom*]

Paulo Eduardo Martins Ribolla:

Date: 08/01/2024

 Documento assinado digitalmente
PAULO EDUARDO MARTINS RIBOLLA
Data: 08/01/2024 09:56:33-0300
Verifique em <https://validar.iti.gov.br>

SCIENTIFIC REVIEW OF PROPOSAL SUBMITTED WITHIN THE INF-ACT CASCADE OPEN CALL 2023 – ID COC-1-2023-UNIPD

The undersigned, Name Surname George Dimopoulos, born in Stockholm, Sweden on 06/12/1966..., resident in 222 S Washington St, Baltimore, Maryland 21231, USA. in quality of member of the review panel nominated by Spoke 2 -Università degli Studi di Padova on 21.11.2023 (DDG rep.nr 47772/2023 – prot nr 23429)

making use of the provisions of the Italian Law as defined in art. 46 of Presidential Decree 28.12.2000, No. 445 and aware of the criminal sanctions, in the case of untruthful declarations, formation or use of documents false, referred to in the art. 76 of the Presidential Decree 445/2000, under his own personal responsibility,

DECLARE

- To have submitted the individual review report for the project proposals submitted within the call COC-1-2023-UNIPD
- To have participated to the review panel meeting on 15.12.2023 at 4 PM (CET) remotely via Zoom

Name,Surname: George Dimopouos Date: 09/01/2024



EVALUATION SUMMARY REPORT

PE13_INF-ACT_Cascade open call 2023 – Evaluation Report Summary	
Project Title	DECRYPTING THE SYMBIONTS-VECTORS-PATHOGENS TRILOGY: NEW EFFICIENT TOOLS FOR MONITORING AND CONTROL
Project Acronym	SYMPATHRY
Project ID	S2.P0001
Call ID	COC-1-2023-UNIPD
Score <i>[threshold 70/100]</i>	<p>TOTAL SCORE: 90.5 / 100</p> <ul style="list-style-type: none"> • Criterion 1 Objective and scientific quality: 45.2 / 50 • Criterion 2 Innovation and private sector involvement: 18.3 / 20 • Criterion 3 Impact: 13/15 • Criterion 4 Economic sustainability: 14/15
Reviewers' comments	
<p><u>Reviewer 1</u></p> <p>The proposal presented deals with the study of the microbiota in mosquitoes and sand flies on several aspects: description of the microbiota; its relationship with insecticide resistance and climate change; use of this for mosquito population control and control of vector competence.</p> <p>The team that makes up the proposal is made up of researchers from different disciplines, who participate as PI or Co-PI in different ongoing projects and have a CV that demonstrates great research performance, in areas related to the current proposal.</p> <p>The project proposes innovative activities to control the transmission of some human important pathogens. The proposed budget is compatible with the items to be developed in the project</p> <p><u>Reviewer 2</u></p> <p>This proposal describes a large collaboration between four academic institutions and one private company to characterize microbial interactions that may influence mosquito transmission dynamics and life history traits. The project is an ambitious mixture of exploratory as well as experimental approaches.</p> <p>The strengths of the project include the interdisciplinary nature of the investigators, adherence to the goals of the funding mechanism and the importance of understanding basic vector-pathogen-symbiont biology that could lead to innovative vector control strategies in Europe and Italy in the future. Another strength involves the metagenomic analysis with the innovative potential to couple it with metatranscriptomics.</p> <p>Weaknesses of the program include co-dependent aims (WP2 and WP4) and ambitious goals within a 21-month timeframe. For example, it may be difficult to identify Wolbachia or microbial strains that induce sterility or decrease vector competence in this brief time period. Another example is the goal to establish Culex pipiens cell lines from a range of mosquito tissues within the time period (not an easy task, otherwise it would have already been accomplished). Further weaknesses include no description of sand fly research beyond the initial mention and the stated plan for understanding how microbes influence thermal adaptation- simply holding mosquitoes at different temperatures will not reveal the microbial impact on thermal adaptation. In addition, pyrethroid susceptibility is complex based on multiple mechanisms that cannot be fully resolved from a PCR reaction. Finally, the project involves field cage release of recombinant bacteria (Asaia and Serratia), but no mention of whether regulatory approval can be attained for the cage studies within a 21 month time period.</p> <p><u>Reviewer 3</u></p> <p>The project is well-aligned and compatible with the overall objectives of the Research Programme through its multifaceted focus on the microbiota and pathobiota implications on vectorial capacity. This ambitious 21-month project will certainly break significance ground (even if not all objectives are 100% completed) in relevant fields and make novel discoveries leading to the development of strategies and products for disease and vector control. It will open many new avenues for investigation.</p>	

The expertise, experience, affiliations and access to infrastructure of the PIs and staff appear to be optimal for the proposed activities. They have also interacted and collaborated in the past thereby ensuring smooth management and execution of project objectives.

Involved researchers are top class scientists with complementary expertise; the best Italy has in their fields. Dr. Favia and his group has extensive experience in large project management and coordination focusing on vector – symbiont- pathogen interactions. Dr. Kramer and her group has extensive project management experience and vector infection systems. Dr. Spaccapelo and her group has experience in microbe isolation and characterization and semi-field facility experiments. Dr. Calvitti and his group provides expertise on agricultural pests and vector/pathogen control. Dr. Marchese and her colleagues at G4L provides genomics and bioinformatics support and participation of private entity.

The experience of the PIs and the management plan with well-defined roles and frequent interactions ensures interdisciplinary projects integration.

Major innovation is the wholistic approach of studying the influence of multiple symbionts in multiple vectors on multiple parameters of vectorial capacity in the context of ongoing climatic and environmental changes that determines the future of vector-borne disease prevalence in Italy and the broader geographic region. Combination of lab and field studies using a variety of state-of-the-art infrastructure is another innovative aspect.

The budget is reasonable with significant cost sharing in the form of human capital.