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PRIN MUR project 2022 - prot. 2022SC83XK



SAPIENZA
UNIVERSITÀ DI ROMA



UNIVERSITÀ
DEGLI STUDI
DI MILANO

TAKLPAT

Tackling effector contribution to cross-kingdom host virulence in fungal pathogens

FINAL MEETING

Wednesday, March 4, 2026 – 11:00 a.m.

Hosted by Plant Pathology Laboratory – Department of Environmental Biology, Sapienza University of Rome

Piazzale Aldo Moro 5, 00185 Rome, Italy



PROGRAM

10:30 | 10:45

Welcome & project overview

[David Turrà](#) - TAKLPAT Coordinator

Department of Agricultural Sciences – University of Naples “Federico II”

10:45 | 11:05

INVITED SPEAKER

[Annarita Falanga](#)

Department of Agricultural Sciences – University of Naples “Federico II”

Antimicrobial peptides for combating multidrug-resistant pathogens

11:05 | 11:25

INVITED SPEAKER

[Massimo Reverberi](#), [Marzia Beccacioli](#), [Francesca Costantini](#), [Elena Romanelli](#), [Domenico Caputo](#)

Department of Environmental Biology (DBA) – Sapienza University of Rome

Innovative portable tools for the detection of aflatoxigenic isolates of *Aspergillus* sect. *Flavi* in agricultural soils (PRIN Bando 2022 PNRR - prot. P2022CBHZK)

11:25 | 11:45

[David Turrà](#), [Annalisa Staiti](#), [Valentino Guastaferrò](#), [Ivan Notaro](#), [Marta Ranesi](#), [Stefania Vitale](#)

Department of Agricultural Sciences – University of Naples “Federico II”

TAKLPAT, UNINA - OVERVIEW OF THE ACTIVITIES AND RESULTS ACHIEVED IN THE PROJECT

11:45 | 12:05

[Luigi Faino](#), [Maria Chiara Ferrara](#)

Department of Environmental Biology (DBA) – Sapienza University of Rome

TAKLPAT, UNIRO - OVERVIEW OF THE ACTIVITIES AND RESULTS ACHIEVED IN THE PROJECT

12:05 | 12:25

[Matias Pasquali](#)

Department of food, environmental and nutritional sciences (DeFENS) – University of Milan

TAKLPAT, UNIMI - OVERVIEW OF THE ACTIVITIES AND RESULTS ACHIEVED IN THE PROJECT

12:25 | 12:45

INVITED SPEAKER

[Riccardo Baroncelli](#), [Andrea Menicucci](#), [Salvatore Iacono](#), [Firas Hatoum](#), [Chiara Fiorenzani](#)

Department of Agricultural and Food Sciences (DISTAL) – University of Bologna

Giant transposable elements drove genome reorganization and host adaptation in *Colletotrichum*

12:45 | 13:15

DISCUSSION AND CONCLUSIONS

THE PROJECT

TAKLPAT (Tackling effector contribution to cross-kingdom host virulence in fungal pathogens) is a PRIN 2022 project investigating the molecular and functional determinants underlying "cross-kingdom" pathogenicity (the ability to infect evolutionarily distant hosts, such as plants and animals/humans) in three *Fusarium* species: *F. oxysporum*, *F. verticillioides*, and *F. musae* (pathogens of tomato, maize, and banana, respectively, but also reported as opportunistic/emerging human pathogens, particularly relevant in immunocompromised patients).

The project adopts a One Health approach, explicitly linking crop health, human health, and selective pressure (including from fungicides/antifungals) to understand how the same fungal evolutionary lineage can adapt to different niches/hosts and which factors—particularly effectors and regulatory circuits—support invasion, dissemination, and virulence. The aim is to produce a "roadmap" for identifying cellular targets and regulatory pathways exploitable both in agriculture (novel control strategies and breeding targets) and in clinical settings (new therapeutic targets and improved interpretation of susceptibility/resistance profiles).

CONTACTS

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The conference will be accessible online at the following link
<https://meet.google.com/fae-ifew-xoi>



<https://taklpat.com/>

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