

## NEWSLETTER OCTOBER 2024



DEAR RECROP MEMBERS,

I THANK EACH ONE OF YOU FOR YOUR COLLABORATION, HARD WORK, AND DEDICATION THROUGHOUT THIS FIRST YEAR OF THE ACTION. IT'S BEEN AN EXCITING JOURNEY, AND I'M GRATEFUL TO BE PART OF SUCH A MOTIVATED, TALENTED AND FUN TEAM. LOOKING FORWARD TO EVEN MORE EXCITING ACHIEVEMENTS AND COLLABORATIONS IN THE YEAR AHEAD!

BEST REGARDS,  
SOTIRIOS (AKIS) FRAGKOSTEFANAKIS  
ACTION CHAIR

### IT HAPPENED IN JUNE-SEPTEMBER ... AT A GLANCE

at a glance

#### Training School in Prague (June 10-11)

“Hands on fertilization: An introductory toolbox for pollen tube growth and guidance analysis under heat stress”

#### Core Group Meeting in Thessaloniki (September 9-10)

“Review of GP1 and plan GP2”

#### Workshop in Portici (September 16-17)

“Molecular Insights into Stress-Resilient Crop Reproduction and Yield”

#### tech4RECROP Webinar by Novogene (July 24)

“Applications of Next Generation Sequencing”

#### GenNext Monday Updates

4 Early Career Researchers and Innovators presented their results in our online monthly meetings

#### Short Term Scientific Missions

12 STSMs have been successfully completed with the support of RECROP Grants!!!

#### ITC Conference

3 Early Career Researchers from ITCs joined international conferences with the support of RECROP

#### Wikifarmer articles

3 more Wikifarmer articles were published by RECROP members

#### RECROP animated videos

2 videos have been published in our YouTube Channel explaining the science behind RECROP

#### RECROP community grows

362 Working Group members

## TRAINING SCHOOL PRAGUE – JUNE 2024

Training school

**Hands-on fertilization: An introductory toolbox for pollen tube growth and guidance analysis under heat stress**



June 10-11.2024.

Prague, Czech Republic

**10 trainees all Early Career Researchers**

**2 days hands checking at reproduction at the microscopic scale**



RECROP is grateful to Jan Fila (WG3 Leader) and Said Hafidh for the organization

## CORE GROUP MEETING THESSALONIKI – SEPTEMBER 2024

**The Core Group reviewed the 1st year and prepared the Action Plan for a very exciting year of RECROP.**

**Innovative strategies to advance the objectives of RECROP, including fostering collaborations, becoming more inclusive.**



## WORKSHOP PORTICI – SEPTEMBER 16–17

### MOLECULAR INSIGHTS INTO STRESS-RESILIENT CROP REPRODUCTION AND YIELD

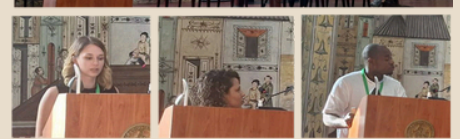
Key sessions covered crop phenotyping, imaging technologies, -omics approaches, and various stress tolerance mechanisms, offering cutting-edge research and methodologies to enhance crop resilience to extreme climate conditions.

The workshop attracted:

51 attendees from 18 countries

28 talks in total, 16 from Early Career Researchers

### EARLY CAREER RESEARCHERS



## SUMMER MONDAY UPDATES

## COMING UP...

JOIN US IN OUR  
PHD  
AND EARLY  
STAGE POSTDOCS



MONDAY UPDATE



ALISON TIDY

MARCO BIANCUCCI



MONDAY UPDATE  
AUGUST 5TH  
12.00 CET

FUTURE GRAIN: UNCOVERING GENES INVOLVED IN STRESS TOLERANCE  
DURING THE REPRODUCTIVE STAGES IN RICE.



TOPIC:



UNCOVERING CANDIDATE GENES FOR  
THE HEAT STRESS RESPONSE OF A  
THERMOTOLERANT TOMATO  
GENOTYPE THROUGH THE  
APPLICATION OF A STEPWISE  
APPROACH

MONDAY UPDATE  
WITH:  
**SALVATORE  
GRACI**



TOPIC:



THE MULTIFACETED ROLE OF A  
TOMATO HISTONE  
ACETYLTRANSFERASE IN  
DEVELOPMENT AND STRESS  
RESPONSE

MONDAY UPDATE  
WITH:  
**AYAT SALAH  
BAKERY**



GENNEXT  
recrop

OCTOBER 7TH  
12:00

Are you PhD or Post doc  
working on abiotic stress  
response of plants?

Join RECROP GenNext  
community and give a  
talk in an upcoming  
Monday Update seminar

Contact: Olha Lakhneko  
[olha.lakhneko@savba.sk](mailto:olha.lakhneko@savba.sk)

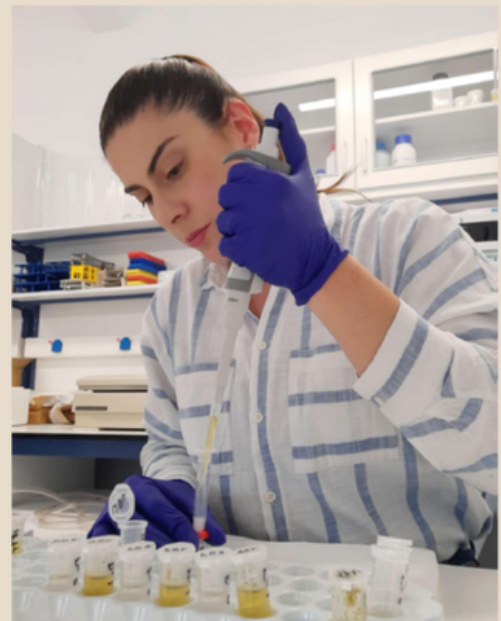
## SHORT TERM SCIENTIFIC MISSIONS FOR EARLY CAREER RESEARCHERS

RECROP has awarded 12 STSMs supporting mobility in science

Nataša Lukić (Bosnia & Herzegovina) to Serbia



Stela Papa (Albania) to Greece



Olha Lakhneko (Slovakia) to Ukraine



Alvaro Vidal Valenzuela (Italy) to Spain



SPREADING THE WORD RECROP TO THE WORLD

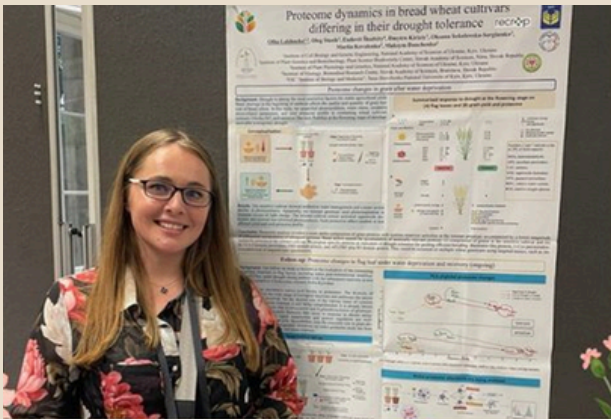
INTERNATIONAL CONFERENCE ON PLANT BIOLOGY [SERBIA]



INTERNATIONAL SUNFLOWER CONFERENCE [CHINA]



INTERNATIONAL CONFERENCE OF THE GERMAN SOCIETY FOR PLANT SCIENCES



CONFERENCE OF SOCIETY OF EXPERIMENTAL BIOLOGY [PRAGUE]



NIGHT OF SCIENCE FRANKFURT

GOETHE  
UNIVERSITÄT  
FRANKFURT AM MAIN

How helping plants have hot sex  
will save your breakfast

Goethe University Frankfurt am Main  
Institute of Biosciences  
Plant Molecular and Cell Biology

Sotirios (Akis) Fragkostefanakis  
fragkost@bio.uni-frankfurt.de

Night of Science 21/6/2024

## RECROP ARTICLES



Oil seeds

### **Unraveling the potential of the forgotten crops: Gold of pleasure – Camelina**

...Even though it appears like a difficult process, several institutions worldwide have been working for...



Plant Propagation

### **Nanomaterial-Based Seed Priming: Boosting Crop Resilience and Stress Tolerance**

...the Republic of Cyprus through the Research and Innovation Foundation (Project YieldShield:...



Plant Propagation

### **The Importance of Crop Wild Relatives for Enhanced Plant Stress Resilience**

The Importance of Crop Wild Relatives for Food Security and Sustainable Agriculture The challenges...



Smart Farming - AgTech

### **Listening to Plants with Chips: Decoding Plant Bio Signals**

Co-author Prof. Yosi Shacham-Diamand The Scojen Institute for Synthetic Biology, head, Reichman...

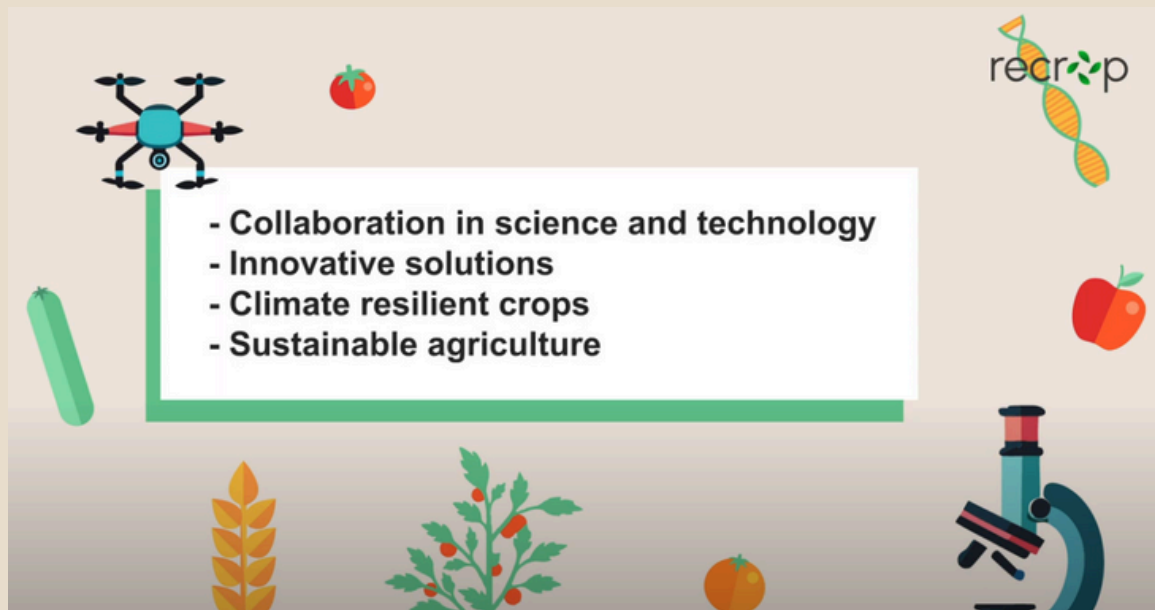
Are you interested to write an article in Wikifarmer covering a topic related to RECROP?

Contact: Stella Provelengiou [stella@wikifarmer.com](mailto:stella@wikifarmer.com)

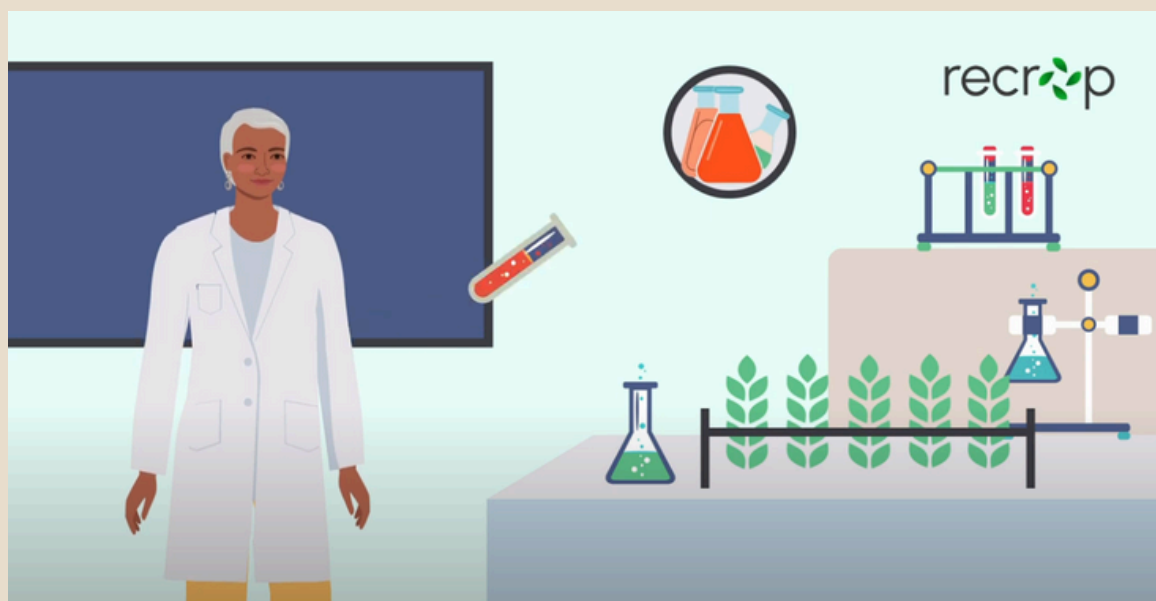
## RECROP ANIMATION VIDEOS



### ENSURING SUSTAINABLE CROP YIELDS FOR FUTURE GENERATIONS



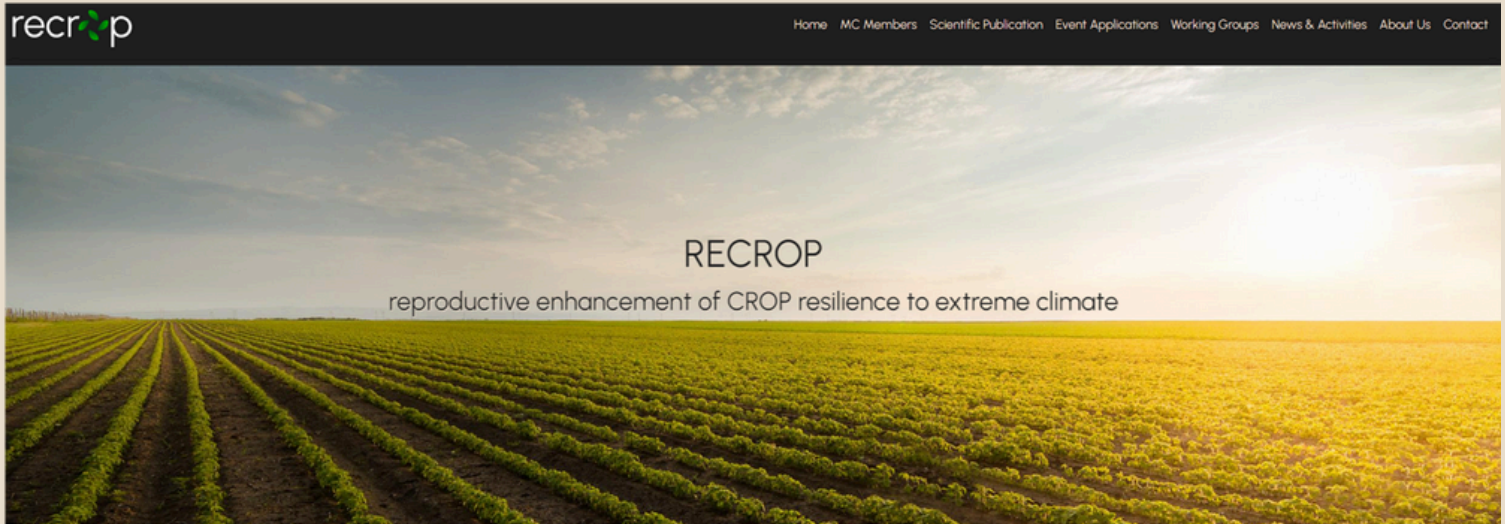
### APPROACHES FOR A SUSTAINABLE AGRICULTURE WITH CLIMATE PROOF CROPS





Follow us and stay updated....

[www.recrop-cost.com](http://www.recrop-cost.com)



Latest News and Activities



AVAILABLE STSM AND ITC GRANTS FROM NOVEMBER 2024 !!!  
for information contact Ariola Bacu (Grant Award Coordinator)

Working Group 1  
Tools to decode stress  
response and tolerance of  
crop reproduction

Working Group 3  
Improvement of crop yield  
under suboptimal  
environmental conditions  
using genetic approaches

Working Group 2  
Description of the effects of  
abiotic stresses on  
reproductive tissues and their  
relevance for resilience and  
yield

Working Group 4  
Dissemination, Training and  
Stakeholder Engagement

become a member...



we want your opinion & ideas:  
[recropcost@gmail.com](mailto:recropcost@gmail.com)