

## NEWSLETTER APRIL 2024



### IT HAPPENED IN MARCH

WG3 meeting about the "Online platform of a genetic repository" took place on 15/3 via ZOOM (38 WG3 members). First ideas were collected and a Task Force of volunteers will make recommendations for the platform's structure and features. Thank you Jan Fila for the organization!

Four STSM grants have been awarded to early stage career researchers and innovators!

The first Wikifarmer article from RECROP MC member Adi Avni is out: "Listening to Plants with Chips: Decoding Plant Bio Signals".

Read here: <https://wikifarmer.com/listening-to-plants-with-chips-decoding-plant-bio-signals/>

The 3rd GenNext Monday Update was given by Wen Gong (University of Regensburg, Germany, Dresselhaus Lab). Thank you Wen!!!

15 Early Career Researchers for the Bioinformatics Training School in Coburg have been selected and notified.

## COMING IN APRIL

### GENNEXT MONDAY UPDATE 4/24

Stavros Vraggalas from Goethe University of Frankfurt, Germany (Fragkostefanakis Lab) will present "Regulation of tomato thermotolerance by transcription factors and splicing regulators" via ZOOM on April 8th, 12.00 CET

Coordination: Olha Lakhneko

### WG1 MEETING 4/24

WG1 meeting on April 5th at 13.00 CET via ZOOM. Topic: "Tools to decode stress response & tolerance of crop reproduction"

Coordination: Christos Bazakos, Helene Rober Boisivon

Zoom link will be provided by e-mail

### WG2 MEETING 4/24

WG2 meeting on April 15th at 12.00 CET via ZOOM.

Topic: "RECROP phenotypic inventory"

Coordination: Marta Mendes, David Honys

Zoom link will be provided by e-mail

### tech 4 RECROP 4/24

RECROP launches a series of Webinars which feature presentations and discussions by experts from a diverse range of AgriTech companies, highlighting the latest trends, cutting-edge technologies, and best practices in the field. First Webinar from Vivent Biosignals on Electrophysiology. See page 3.

## UPCOMING EVENTS

### ANNUAL MEETING

5/24

MURCIA MAY 22-24

Registration is currently open:

<https://www.recrop-cost.com/Conference>

Important dates:

Deadling for oral talk: closed

Deadling for poster: 15/4/2024

[WWW.RECROP-COST.COM/NEWSANDACTIVITIES/READMORE/C04BCEC5-2479-4D9E-5B68-08DC308BA3D3](http://WWW.RECROP-COST.COM/NEWSANDACTIVITIES/READMORE/C04BCEC5-2479-4D9E-5B68-08DC308BA3D3)

### TRAINING SCHOOL

6/24

PRAGUE JUNE 10-11

“Hands-on fertilization: An introductory toolbox for pollen tube growth and guidance analysis under heat stress” for Early Career Researchers.

Organisers: Jan Fila, Said Hafidh

[HTTPS://WWW.RECROP-COST.COM/CONFERENCE](https://www.recrop-cost.com/conference)

## STAY UPDATED

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Apply for STSM  
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## OVERVIEW OF RECROP WORKING GROUPS

### 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

ONLINE

# WEBINAR

## How Electrophysiology applied to plants can speed up research for Climate Resilient Crop - Tech4RECROP

WEDNESDAY APRIL 17TH 2024  
12.00 CET



Andrzej Kurenda

Chief Scientific Officer Vivent Biosignals



Moritz Graeff

Plant Physiology Scientist  
Vivent Biosignals



Julien Roulet

Data Scientist  
Vivent Biosignals



Sotirios Fragkostefanakis

PhD Plant Molecular and  
Cell Biology Group Leader  
Goethe University Frankfurt



Rick van de Zedde

Program Manager  
Autonomous Cultivation  
& CTO NPEC Wageningen  
University & Research

## WEBINAR PROGRAM

### GOETHE UNIVERSITY FRANKFURT

Introduction  
Sotirios Fragkostefanakis

### VIVENT BIOSIGNALS

General introduction of Plant Electrophysiology  
Andrzej Kurenda

Use Case - Quantitative comparisons of treatments with Electrophysiologic Signals  
Dr. Moritz Graeff

Use Case - Biostimulant Efficacy with Electrophysiology  
Andrzej Kurenda

Use Case - Machine learning developments and (a)biotic stress recognition  
Julien Roulet

### NPEC WAGENINGEN

Electrophysiology responses and quantification in pot weights and transpiration rate in tomatoes  
Rick van de Zedde

Q&A

## BENEFITS

### Accelerate Research

Discover how Electrophysiology can speed up research for developing climate-resilient crops

### Sustainable Agriculture

Contribute to making Agriculture more sustainable by harnessing the power of electrophysiology technology

### Expert Insights

Learn valuable insights and practical strategies from leading experts in the field



[REGISTER HERE: vivent-biosignals.com/webinar-april-2024/](https://vivent-biosignals.com/webinar-april-2024/)