

**COST ACTION 21146**



**FUNDAMENTALS AND APPLICATIONS OF PURPLE BACTERIA  
BIOTECHNOLOGY FOR RESOURCE RECOVERY FROM WASTE**

Dr. Baptiste Leroy

UMONS

17th May 2024

# PURPLEGAIN'S ORGANISATION

## Four working groups

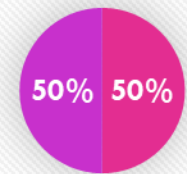
Number	Title	Leader	No. participants
1	Metabolic, biochemical, and biophysical mechanisms of PPB and mathematical models	Dr Baptiste Leroy	108
2	Resource recovery from waste and wastewater and downstream procedures for PPB biomass	Dr Gabriel Capson-Tojo	132
3	Building the PPB value chain	Prof Jana Klopcheska	63
4	Coordination, Dissemination, and Communication	Prof David Weissbrodt	60

# PURPLEGAIN'S ORGANISATION

## Operational structure:

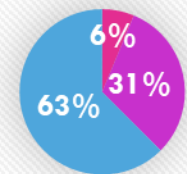
Position	Name (country) – ITC
Action Chair	Dr. Daniel Puyol (ESP)
Action Vice-Chair	Dr. Joana Fradinho (PR) – ITC
Grant Awarding Coordinator	Prof. Raúl Muñoz (ES)
Science Communication Coordinator	Dr. Ralph Lindeboom (NL)
Training Schools Coordinator	Dr. Ioanna Vasiliadou (GR) - ITC
Stakeholder Coordinator	<b>Cristina Cavinato (IT)</b>
WG1 Leader <b>WG1 co-leader</b>	Prof. Baptiste Leroy (BEL) <b>Dr. Arpita Bose (USA)</b>
WG2 Leader <b>WG2 co-leader</b>	<b>Dr. Gabriel Capson-Tojo (FR)</b> <b>Dr. Luis Díaz Allegue (ES)</b>
WG3 Leader <b>WG3 co-leader</b> <b>WG3 co-leader</b>	<b>Dr. Jana Klopchevska (NMC) – ITC</b> <b>Dr. Luisa Gouveia (PR) – ITC</b> <b>Dr. Vasileia Vasilaki (UK)</b>
WG4 Leader <b>WG4 co-leader</b> <b>WG4 co-leader</b>	Prof. David Weissbrodt (NO) <b>Dr. José Luis Rubio (ESP)</b> <b>Dr. Natasa Nastic (SER) - ITC</b>

### Gender



■ M ■ W

### Country



■ INT ■ ITC ■ non ITC

# WHAT ARE WE DOING?

## WG1 tasks and duties

*Responsible persons: Baptiste Leroy, Arpita Bose*

- Organisation of biannual meetings
- Deliverable 1.1 : “A roadmap to transfer knowledge gained on pure culture of purple phototrophic bacteria to the application in non-axenic mixed cultures, including strategies to fill knowledge gaps.

Published June 30, 2023 | Version 1.0

Working paper

 Open

A roadmap to transfer knowledge gained on pure culture of purple phototrophic bacteria to the application in non-axenic mixed cultures, including strategies to fill knowledge gaps.

Working Group 1 of the PurpleGain COST action<sup>1</sup>

Show affiliations

# WHAT ARE WE DOING?

## WG1 tasks and duties

*Responsible persons: Baptiste Leroy, Arpita Bose*

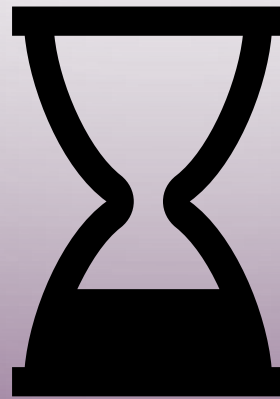
- Organisation of biannual meetings
- Deliverable 1.1 : “A roadmap to transfer knowledge gained on pure culture of purple phototrophic bacteria to the application in non-axenic mixed cultures, including strategies to fill knowledge gaps.
- Deliverable 1.2 : “A comprehensive vade-mecum of methods and good practices to be applied in PPB biotech, including recommendations for harmonized performance evaluation and monitoring”

# WHAT ARE WE DOING?

## WG1 tasks and duties

*Responsible persons: Baptiste Leroy, Arpita Bose*

- Implementation of a discussion platform (forum) to foster the exchange among the WG community



# WE ARE ESSENTIALLY MEETING!!!

✓ Four workshops already organised

## 1st Workshop

**APPLIED PHYSICS TO PPB-  
BASED ENVIRONMENTAL  
BIOTECHNOLOGY**

25 APR, 2023 | SZEGED – HUNGARY



# WE ARE ESSENTIALLY MEETING!!!

✓ Four workshops already organised



**2**  
2023

## 2nd Workshop

**RESOURCE RECOVERY FROM WASTE AND WASTEWATER AND DOWNSTREAM PROCEDURES FOR PPB BIOMASS**

**6 JULY, 2023**  
MADRID – SPAIN

◆ DEADLINE SUBMIT ABSTRACT 15TH MAY 2023  
◆ EARLY BIRD REGISTRATION 15TH JUNE 2023

[purplegain.eu/2nd-workshop](http://purplegain.eu/2nd-workshop)

**COST ACTION**  
**PurpleGain**

Funded by the European Union

**cost**  
European Cooperation in Science and Technology

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# WE ARE ESSENTIALLY MEETING!!!

- ✓ Four workshops already organised



**3RD WORKSHOP**

Sustainability assessment of multiple PPB process chains and recovered resources to support market penetration and social acceptance

**4 September 2023**

Delft - Netherlands

▶ DEADLINE SUBMIT ABSTRACT 7TH AUGUST 2023

The poster features a blue background with a white arrow pointing right. The text is in white and yellow. On the right side, there is a photograph of a canal in Delft, Netherlands, with the Spitskerk church in the background. The Purple Gain logo is visible in the top right corner of the photograph.

# WE ARE ESSENTIALLY MEETING!!!

✓ Four workshops already organised



**4 WORKSHOP**

PRACTICAL ASPECTS OF CULTURING AND MONITORING PURPLE BACTERIA MIXED AND PURE CULTURES

**APRIL 18, 2024**

**LISBON - PORTUGAL**

- FINAL DATE TO APPLY FOR FUNDING: 23RD FEBRUARY 2024.
- COMMUNICATION, CONFIRMATION AND FUNDING: 4TH MARCH 2024.
- EARLY BIRD REGISTRATION: 31TH MARCH 2024.

[purplegain.eu/4nd-workshop](http://purplegain.eu/4nd-workshop)



# WE ARE ESSENTIALLY MEETING!!!

- ✓ Training schools for Post-Docs and PhD students



# WE ARE ESSENTIALLY MEETING!!!

✓ Visit of labs...



# WE ARE ESSENTIALLY MEETING!!!

✓ ... and meeting again...



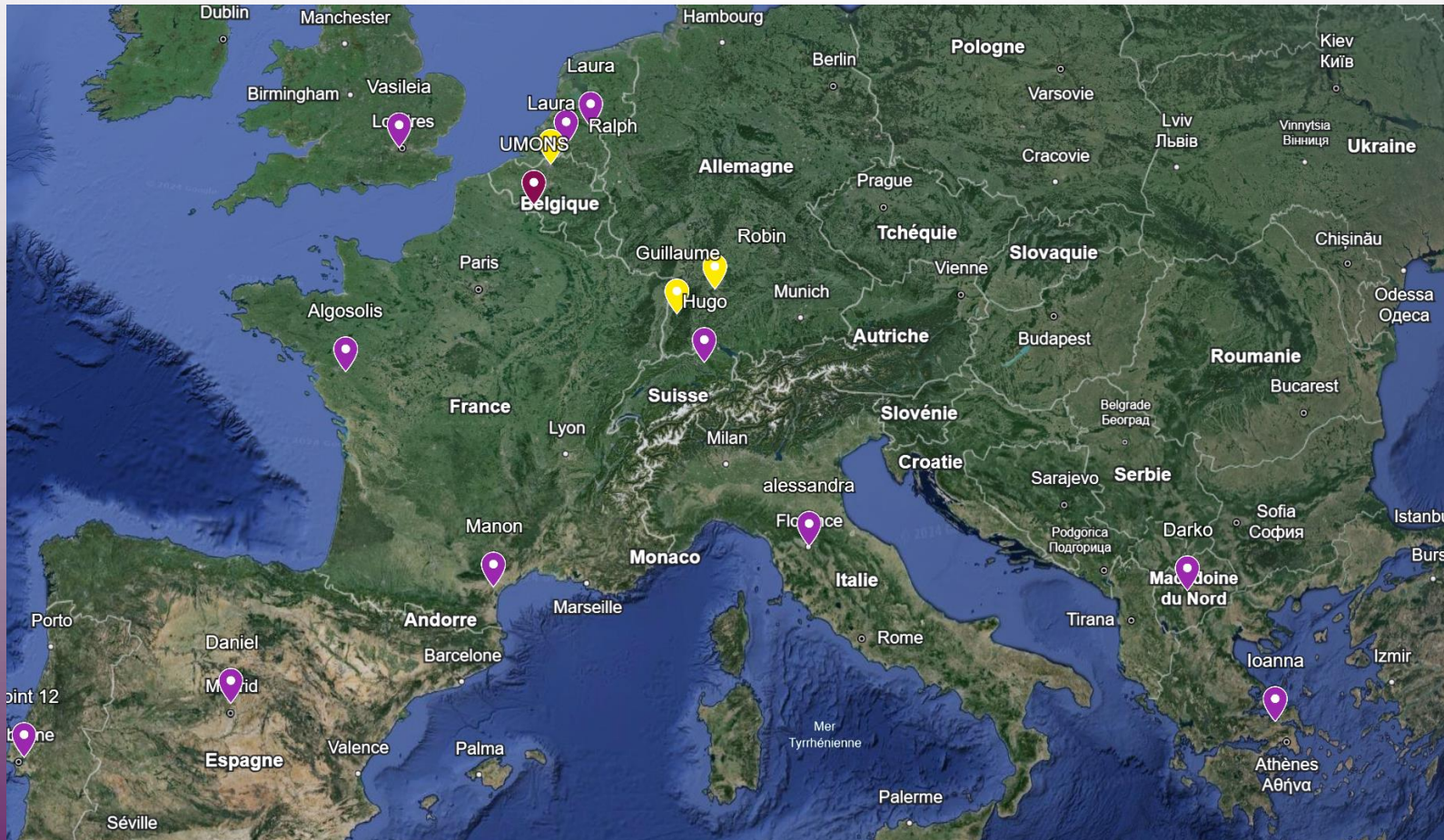
# SHORT TERM SCIENTIFIC MISSIONS

✓ 15 grant attributed (30K€) to PhD student and PostDocs



# LOTS OF NEW COLLABORATIONS

✓ 1 Horizon EU proposal submitted + 1 in preparation



# TAKE HOME MESSAGE

- ✓ **Incredible opportunity of networking**
- ✓ **Student/researcher exchanges!**
- ✓ **Best way to meet your peer**
- ✓ **Excellent way of building european project**
  
- ✓ **Be a member of the writing group!**
- ✓ **Avoid the chair position...**
- ✓ **Select a good chairman for the action**
- ✓ **Administrative support absolutely needed!**





**Funded by  
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COST Action < **PURPLEGAIN, CA21146** >, supported by **COST** (European Cooperation in Science and Technology).

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