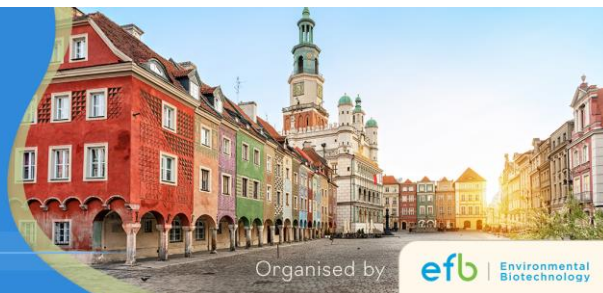


# GREEN DEAL BIOTECHNOLOGY

6-8 November 2023 Poznań Poland



## Preliminary Scientific Programme

(Subject to changes)

### 06.11.2023 Monday

13:00 - 14:00 *Registration*

14:00 - 14:50 **Welcome and opening ceremony**

Opening plenary lecture: **Jim Philp**, OECD, France

14:50 - 16:10 **Session 1 Antibiotics and micropollutants in the environment**

**Keynote lecture:** **Łukasz Chrzanowski**, Poznań University of Technology, Poland

**Short talk:** Heavy metals change the chemical composition of outer membrane vesicles from endophytic *Rhizobium sp.*, **Iryna Bodnaruk**, University of Silesia, Poland

More presentations TBA

16:10 - 16:30 *Coffee break*

16:30 - 18:00 **Session 2 Nanotechnology in environmental biotechnology**

**Keynote lecture:** **Sergio Moya**, CIC BiomaGUNE, Spain

More presentations TBA

18:00 - 20:00 *Poster session and social event*

### 07.11.2023 Tuesday

9:00 – 10:40 **Session 3 Bioelectrochemistry for energy and water recovery**

**Keynote lecture:** **Douglas Call**, North Carolina State University, USA

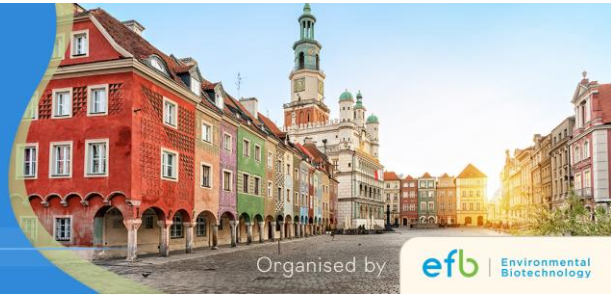
**Short talk:** Microbial fuel cell modeling using Artificial intelligence, **Alaa Abbas**, University of Naples Federico II, Egypt

More presentations TBA

10:40 – 11:00 *Coffee break*

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## 11:10 – 12:25 **Session 4 Marine biotechnology**

**Keynote lecture:** **Ana Rotter**, National Institute of Biology, Marine Biology Station Piran, Slovenia

**Keynote lecture:** **Martin Pšenička**, University of South Bohemia, České Budějovice, Czechia

**Short talk:** Enhancing viral resistance: triploid crossbreeding of rainbow trout and brook trout for sustainable salmonid aquaculture, **Radosław Kowalski**, Institute of Animal Production and Food Sciences, Poland

More presentations TBA

12:25 – 14:00 *Lunch*

## 14:00 – 15:25 **Session 5 Recovery of resources, including rare resources and novel bio-based value chains (part I)**

**Keynote lecture:** **Marcella Souza**, Ghent University, Belgium

**Short talk:** Isolation of methanotrophic mono- and mixed- cultures and production of polyhydroxyalkanoate(PHA) copolymers from methane, **Mateusz Łężyk**, Poznan University of Technology, Poland

**Short talk:** Volatile fatty acids and methane production during the temperature-phased anaerobic digestion for carbon recovery and enhanced methane production at the WWTP , **Małgorzata Komorowska-Kaufman**, Poznan University of Technology, Poland

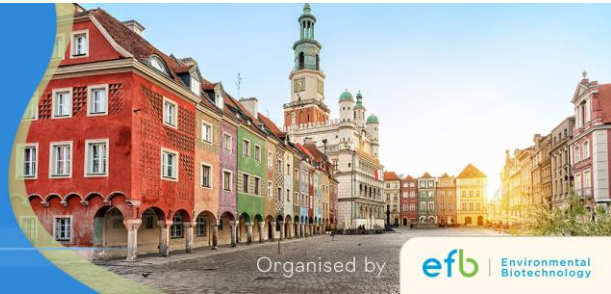
**Short talk:** Effects of low and high-temperature thermal hydrolysis pre-treatment on the performance of energy-producing sludge management, **Sergio Rossano-Becerril**, University of Groningen, the Netherlands

**Short talk:** Biohydrogen and caproic acid - production in one- and two-stage continuous systems, **Dariusz Sobociński**, Adam Mickiewicz University, Poland

15:25 – 15:45 *Coffee break*

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## 15:45 – 16:30 **Session 5 Recovery of resources, including rare resources and novel bio-based value chains (part II)**

**Short talk:** Bioaugmentation of open culture fermentation processes for carboxylates production, **Anna Duber**, Poznan University of Technology, Poland

**Short talk:** The continuous production process of the applicative compounds using mixed microbial consortia, **Hanna Prusak**, Poznan University of Technology, Poland

**Short talk:** Selection of materials with promising potential for the recovery of humic substances and co-occurring nutrients from by-products of the wastewater treatment, **Justyna Michalska**, Silesian University of Technology, Poland

## 16:30 – 17:20 **Session 6 Carbon capture**

**Keynote lecture:** **Derek Saward**, United Kingdom

More presentations TBA

## 17:20 – 17:40 *Coffee break*

## 17:40 – 18:30 **Session 7 European policy for the circular bioeconomy, food security and the environment**

**Keynote lecture:** **Peter Wehrheim**, European Commission

**Panel discussion:** **Tomasz Calikowski**, European Commission –panel discussion moderator

## 18:30 – 19:30 Poster session

**08.11.2023 Wednesday**

## 9:00 – 10:20 **Session 8 Healthy soil and food**

**Keynote lecture:** **Katie Field**, University of Sheffield, United Kingdom

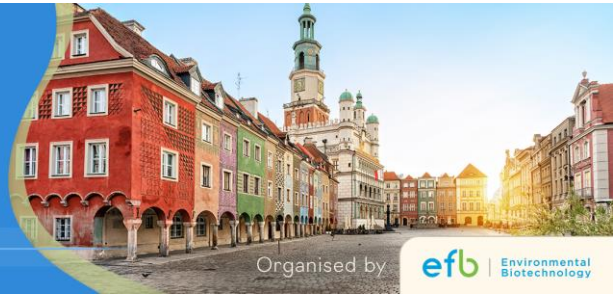
**Short talk:** Is it possible to reduce cadmium accumulation in crop tissues? A case study using tomato seedlings and bacterial endophytes, **Magdalena Noszczyńska**, University of Silesia, Poland

**Short talk:** Using on-farm trials in predicting soybean yield in Nigeria: the application of machine learning models, **Muhammad Kabiru**, Mohammed VI Polytechnic University, Morocco

**Short talk:** Upcycling of hemp seed oil cake (*Cannabis sativa*) by applying tempeh fermentation (*Rhizopus oligosporus*), **Marianna Raczyk**, Institute of Animal Reproduction and Food Research, Polish Academy of Sciences, Poland

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10:20 – 10:40 *Coffee break*

10:40 – 12:00 **Session 9 Wastewater treatment**

**Keynote lecture:** Benjamin Horemans, KU Leuven, Belgium

**Short talk:** Bacterial OMV as bacteria-plant interaction linker. What do we know about it?, Małgorzata Pawlik, University of Silesia, Poland

More presentations TBA

12:00 – 12:20 *Coffee break*

12:20 – 13:10 **Closing ceremony and closing keynote lecture**

**Closing plenary lecture:** Unlocking the potential of new breeding techniques for the European Green Deal, Ivo Frébort, Palacký University Olomouc, Czech Republic