

# UQ-UPSaclay Week

Advanced Biomanufacturing and digital biology workshop

Monday 22 November 2021

## Chairs

**Professor Robert Henry**, Professor of Innovation in Agriculture, Centre for Crop Science, UQ

**Associate Professor Dr Marwen Moussa**, Senior Lecturer of Food and bio-products process engineering, AgroParisTech

5-5.03pm AEST  
8-8.03am CET

## Welcome

**Associate Professor Dr Marwen Moussa**, Senior Lecturer of Food and bio-products process engineering, AgroParisTech

**8 minute presentations commence, each followed by 2min Q&A**

5.03-5.13pm AEST  
8.03-8.13am CET

## Advanced biomanufacturing infrastructure to drive research translation

**Professor Trent Munro**, Professor, Australian Institute for Bioengineering and Nanotechnology, UQ

5.13-5.23pm AEST  
8.13-8.23am CET

## Detection of unexpected contaminants in food

**Dr Mathieu Cladière**, Associate Professor, Analytical chemistry for food safety, AgroParisTech

5.23-5.33pm AEST  
8.23-8.33am CET

## Plant-derived lactic acid bacteria in food safety, quality and novel fermentation applications

**Professor Mark Turner**, Deputy Head of School, School of Agriculture and Food Sciences, UQ

5.33-5.43pm AEST  
8.33-8.43am CET

## Understanding and prediction of pathogen behavior and persistence in food systems and biofilms

**Professor Florence Dubois-Brissonnet**, Professor, Microbiology and food safety at AgroParisTech  
**Dr Maud Darsonval**, Associate Professor, Microbiology and food safety, AgroParisTech

5.43-5.53pm AEST  
8.43-8.53am CET

## Biogas fermentation

**Professor Zhiguo Yuan AM**, Director, Australian Centre for Water and Environmental Biotechnology

5.53-6.03pm AEST  
8.53-9.03am CET

## Integrating fermentation/bioconversion and on-line extraction processes for biobased molecules

**Dr Claire Saulou-Bérion**, Associate Professor, Industrial microbiology and bioprocesses, AgroParisTech  
**Dr Marwen Moussa**, Associate Professor, Food and bio-products process engineering, AgroParisTech

# UQ-UPSaclay Week

6.03-6.13pm AEST  
9.03-9.13am CET

## **Bioproduction of value-added compounds using digital biology approaches**

**Dr Adrian Oehmen**, Senior Lecturer, School of Chemical Engineering, Faculty of Engineering, Architecture and Information Technology, UQ

6.13-6.18pm AEST  
9.13-9.18am CET

## **Break**

6.18pm AEST  
9.18am CET

## **Welcome back from break**

**Professor Robert Henry**, Professor of Innovation in Agriculture, Centre for Crop Science, UQ

6.19-6.29pm AEST  
9.19-9.29am CET

## **Bioconversion of agro-resources into value-added renewable molecules through innovative liquid, submerged and solid-state fermentations or biomethanation processes**

**Dr Nabila Imatoukene**, Research scientist, Biotechnology, URD ABI, AgroParisTech

**Dr Quentin Carboué**, Research scientist, Solid-state fermentation, URD ABI, AgroParisTech

**Professor Dr Michel Lopez**, Head of Biotechnology Department, URD ABI, AgroParisTech

6.29-6.39pm AEST  
9.29-9.39am CET

## **Human milk processing using pulsed electric field**

**Associate Professor Nidhi Bansal**, Associate Professor, School of Agriculture and Food Sciences and Affiliate (ResTeach), School of Pharmacy, UQ

6.39-6.49pm AEST  
9.39-9.49am CET

## **Process engineering and materials lab LGPM: Facilities and overview of the research activities**

**Professor François Puel**, Director, Process Engineering and Materials Research Department (LGPM), CS

6.49-6.59pm AEST  
9.49-9.59am CET

## **Microalgae technology: from the mechanisms to the bioprocess**

**Professor Filipa Lopes**, CentraleSupélec, Laboratory of Chemical Engineering (LGPM)

6.59-7.09pm AEST  
9.59-10.09am CET

## **Centre for solar bio-technology: developing next generation light driven cell factories**

**Professor Ben Hankamer**, Director, Centre for Solar Biotechnology

# UQ-UPSaclay Week

7.09-7.19pm AEST  
10.09-10.19am CET

**The concept of digital twins applied to bioproduction and biobased materials**

**Professor Patrick Perré**, Head of BioTech Chair, Process Engineering and Materials Research Department (LGPM), CS

7.19-7.29pm AEST  
10.19-10.29am CET

**An Industrial Transformation Training Centre in Bioplastics and Biocomposites**

**Associate Professor Steven Pratt**, Associate Professor, School of Chemical Engineering, UQ

7.29-7.39pm AEST  
10.29-10.39am CET

**Genome sequencing to capture novel genetic resources for the diversification of crops to deliver improved food products**

**Professor Robert Henry**, Professor of Innovation in Agriculture, Centre for Crop Science, UQ

7.39-7.59pm AEST  
10.39-10.59am CET

**Discussion**

7.59-8pm AEST  
10.59-11am CET

**Closing remarks and event end**

**Professor Robert Henry**, Professor of Innovation in Agriculture, Centre for Crop Science, UQ