



Laboratoire d'Excellence ARBRE

Recherches Avancées sur la Biologie de l'Arbre et les Ecosystèmes Forestiers



## COLLOQUE ANNUEL – 1<sup>ER</sup> DECEMBRE 2023

Salle de conférence du Centre INRAE à Champenoux

### - PROGRAM -

**08h45** - Welcome of participants

**09h00** - Introduction of the day

#### Session #1 : Wood in all its forms: from formation to applications

09h15 – 09h35 **Cyrille RATHGEBER (ModPhenWood)** - How to observe and model wood phenology? — What did we learn in the ModPhenWood project?

09h35 – 09h55 **Jana DLOUHA (QuaPla)** - Variation of wood properties and structure from innovative plantations in Lorraine : wood quality and its biomechanical implications

9h55 – 10h15 **Delphine DERIEN (BRAWO)** - Depolymerization of woody litter as a bottleneck for carbon cycling in soil : a modeling perspective

#### **10h15 – 10h45 Coffee-break**

10h45 - 11h05 **Anélie PETRISSANS (CHETECHINA)** - Comparative study of HEating TECHnology and INert Atmosphere affecting wood degradation

#### Session #2 : Contribution of OMICs to the understanding of the functions of the forest microbiota

11h05– 11h25 **Annie LEBRETON (POLOMICS)**- The Ecological Genomics of Wood Decomposition in Polyporales

11h25 – 11h45 **Sormani RODNAY (L4REX)** - Looking for *Phanerochaete chrysosporium* mutants Resistant to Extractives

11h45 – 12h05 **Annegret KOHLER (POPmodels)** - Understanding Poplar-Microbe Interfaces: From model systems to model synthetic communities

#### **12h30 – 13h40 Lunch**

#### Session #3 : Climate change in forests: from tree adaptation to forest management and conservation

13h45 – 14h05 **Catherine MASSONNET (DEP-HETRE)** - Study of the beech decline in the Northeastern of France

14h05 – 14h25 **David SHANAFELT (MEYSSA)** - Mapping Ecosystem Service Supply in Conservation Areas

## Session #4 : Monitoring and understanding of tree diseases and tree responses

- 14h25 – 14h45 **Fabien HALKETT (VIP)** - Virulence Investigations in the Poplar-Poplar rust pathosystem: one avirulence gene, two mutation events.
- 14h45 – 15h05 **Benoît MARCAIS (SIAMOIS)** - Use of spatio-temporal aerobiological data of spore abundance to understand large-scale epidemiology of Ash Dieback
- 15h05 – 15h25 **Benjamin PETRE (PEPS)** - Evolution of multifunctional immune peptides with both anti-rust and elicitor activities in Salicaceae

**15h25 – 15h55 Coffee-break**

## Session #5: Progress towards interdisciplinarity

*Building interdisciplinarity => introduction of new disciplines.*

*Discussion on the basis of the C4Change project which aims to build research on and for forest planning.*

- 15h55 – 16H05 Introduction : Interdisciplinarity with new disciplines in the LABEX community, why and how ? example of the LABEX ARBRE C4Change project. **Mériem FOURNIER**
- 16h05– 16H25 **Frédéric BONIN – UMR SILVA / CEREFIGE** - Transitions of forest management facing grand challenges, studied from the point of view of management sciences
- 16h25 – 16H45 **Maxence ARNOULD – UMR SILVA / Manon ENJOLRAS – ERPI** - Research on innovation processes applied to forest management problems
- 16h45 – 17H00 **Benoît GRASSER – CEREFIGE** - Forests/forestry and management sciences, feedback and questions for an interdisciplinary learning process

## Session #6 : General discussion

- 17h00 – 18h00 **General discussion**  
Evolution and animation: Labex ARBRE, COFUND and emergence of an interdisciplinary program ARTEMIS