





Workshop EPICATCH and EPITREE Epigenetics in Woody Plants

28th-29th September 2023 Orléans, FRANCE

COST Action CA19125 EPICATCH: Epigenetic Mechanisms of Plant Adaptation to Climate Change

Organizers: Stéphane MAURY and Gloria PINTO (WG1 EPICATCH)

With the help of ANR EPITREE, LBLGC Orléans University and INRAE Centre Val de Loire, FRANCE

https://6230751c6f201.site123.me/workshops/epigenetics-in-woody-plants

Conference venue: INRAE Val de Loire, Conservatoire Européen des Échantillons de Sols (CEES), **Salle Dominique King**, 2163 Avenue de la pomme de pin, 45075 Ardon, France.













PROGRAM

September 28 - INVITED TALKS - (zoom streaming for registered attendees only)

9:00h- Registration and sign-in (INRAE entrance, invited speakers only)

9:20h- Welcome and Workshop introduction

Stéphane Maury (France) and Gloria Pinto (Portugal) - EPICATCH WG1 leaders and organizers

Stéphane Maury (8+2 min) University Orléans INRAE (FRANCE)

"Epigenetics in woody plants: why?"

Gloria Pinto (10+5 min), CESAM I Universidade de Aveiro (PORTUGAL)

"Plant Physiology crossed borders and meets epigenetics".

9:45h- Session 1: EPITREE Evolutionary and functional impact of EPIgenetic variation in forest TREEs

Chairperson: Gloria Pinto (WG1 EPICATCH)

Mamadou Dia Sow (20 +5 min) INRAE Clermont-Ferrand GDEC (FRANCE)

" Epigenetic Variation in Tree Evolution: a case study in black poplar (Populus nigra)"

Isabelle Lesur (10+5 min) INRAE University Bordeaux UMR Biogeco (FRANCE)

"Strategy to study Epigenetics variability in natural populations: case study in Oak and Poplar"

Ludovic Duvaux (10+5min) INRAE University Bordeaux UMR Biogeco (FRANCE)

"Is epigenetic variation involved in biological adaptation to climate in the sessile oaks?"

Alexandre Duplan (10+5 min)

"Short-term and interannual epigenetic memory in poplar after drought rewatering cycles"













11:00h- COFFEE BREAK

11:30h- Session 2 Epigenetic memory and priming in woody plants.

Chairperson: Pilar Testillano (WG3 EPICATCH)

Philippe Gallusci (20+5 min) INRAE University Bordeaux UMR EGFV (FRANCE)

"Investigating epigenetic memory of stresses in grapevine, a woody perennial"

Luis Valledor (20+5min) University of Oviedo (SPAIN)

" Priming, endurance, and resilience speak epigenetic language in conifers/woody species."

Carl Gunnar Fosdall (20+5 min) Norwegian Institute of Bioeconomy Research (NIBIO), Forest Health, Ås (NORWAY)

"Induction of epigenetic memory in response to warmer temperature"

13:00h- LUNCH

14:15h Session 3 Epigenetic and time in woody plants

Chairperson: Jérôme Salse (EPITREE)

Frank Johannes (20+5 min) Plant Epigenomics - Technical University of Munich (Germany)

"An evolutionary epigenetic clock in plants"

Jean-Marc Celton (10+5 min) IRHS INRAE Angers (FRANCE)

"Insights into the evolution of homologous sequences and their epigenetic marks post WGD in Malus domestica"

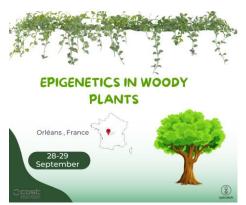
Beata Plitta-Michalak (10+5min) University of Warmia and Mazury in Olsztyn (POLAND)

"DNA Methylation as an Early Indicator of Aging in Stored Seeds"













15:10h- Session 4 Epigenetic and development in Forest trees

Chairperson: Harold Durufle (EPITREE)

Pilar Testillano (10+5min), CIB Margarita Salas-CSIC Madrid (SPAIN)

"Small molecule epigenetic modulators for clonal propagation and breeding of Quercus suber"

Raquel Santos (10+5min) University Lisbon (PORTUGAL)

"Cork development - an epigenetic view"

Rosa Sanchez-Luca (10+5 min) University of Birmingham (UK)

"Cytosine methylations in forest trees under elevated CO2: similarities and differences among species

16:00h- COFFEE BREAK

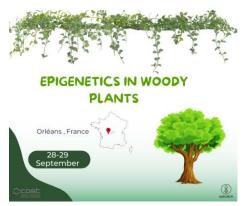
16:30h- General Discussion for day 1

17h30 Departure for Orléans city centre, break / visit and dinner













September 29- Workshop – (no zoom, speakers and invited guests only)

9h00: Welcome coffee and sign-in (invited speakers only)

9:30h- Networking session

Chairperson: Véronique JORGE (INRAE, France)

Flash Talks of participants (in presence only) 1 ppt slide, (10 min max : 5-7 minutes + 3min questions): collaboration interest : Jérôme Salse (France); Elena Carneros (Spain); Berdugo Monica (Germany); Marcin Michalak (Poland); Sophie Brunel-Muguet (France).

10:30h- Coffee break

11h00 Discussion by groups on collaboration opportunities in EPICATCH and other projects

13:00h- LUNCH

14h- Visit of The Joint Research Unit of Integrated Biology for the Development of Tree and Forest Diversity (INRAE-ONF; UMR BioForA 0588) https://www6.val-de-loire.inrae.fr/biofora_eng/: LICA https://www6.val-de-loire.inrae.fr/biofora_eng/Resources2/LICA (Lab of Tree Biotechnology, Dr Gilles Pilate and Dr Annabelle Déjardin) and Phenobois https://www6.val-de-loire.inrae.fr/biofora_eng/Resources2/PHENOBOIS (phenotyping platform of wood physical and biochemical properties, Nathalie Boizot and Nassim Belmokhtar). Or Discussion by groups.

16:00h- COFFEE BREAK and Official closing (17h)





