



EPIGENETICS IN WOODY PLANTS

Orléans , France



28-29
September



Organizing comitee WG1 : Stéphane Maury and Gloria Pinto (contact: stephane.maury@univ-orleans.fr)

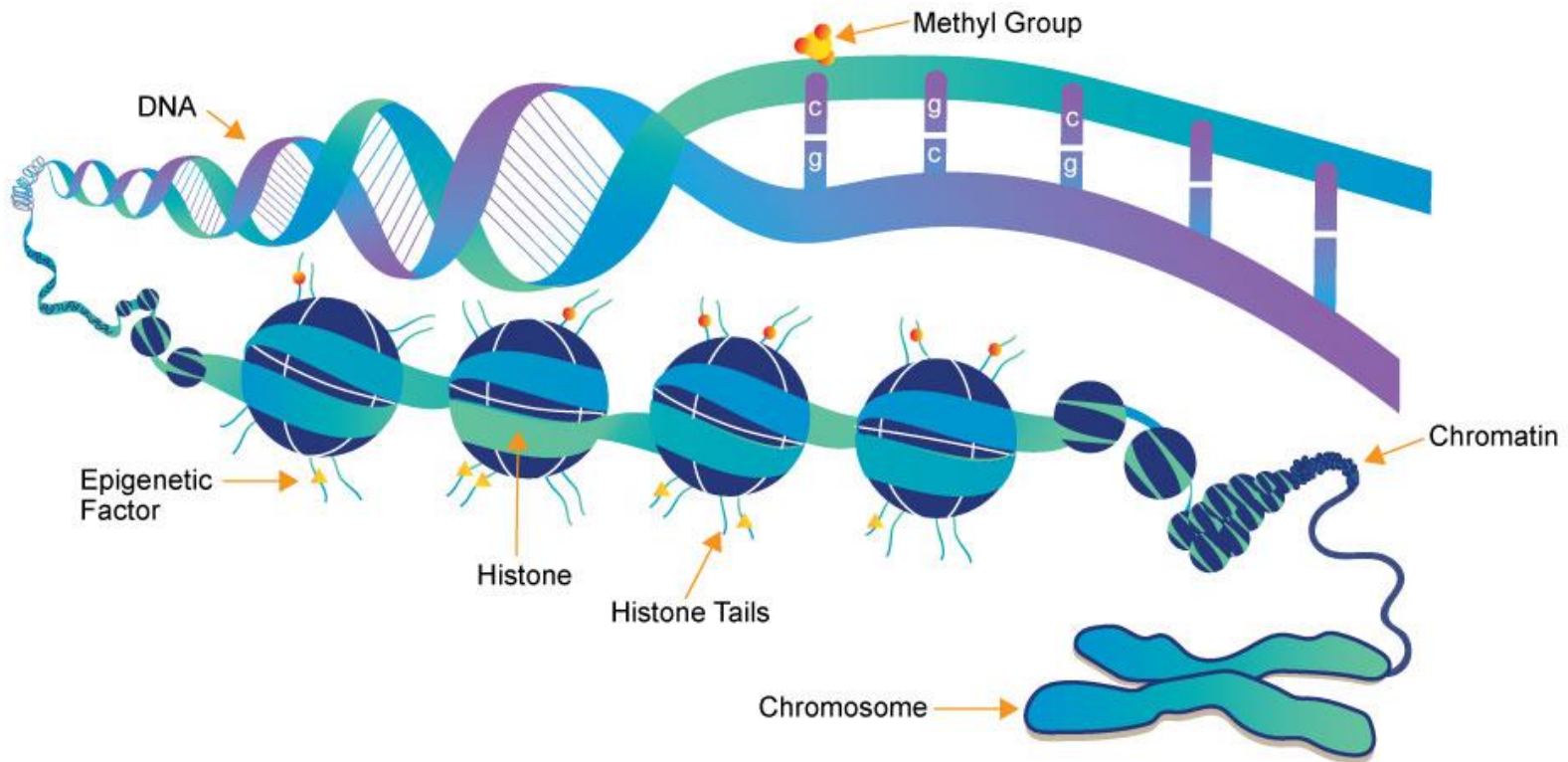
Place: INRAE Val de Loire, Salle Dominique King, 2163 Avenue de la pomme de pin, 45075 Ardon France

Local support: University Orléans and INRAE Centre Val de Loire, LBLGC and BioForA, ANR EPITREE

Website and registration : <https://6230751c6f201.site123.me/workshops/epigenetics-in-woody-plants> Michal Lieberman;

Social media: [@EpicatchS](https://twitter.com/EpicatchS) Velimir Mladenov; **CosT Support**: Denise Cuccia; And all Coregroup

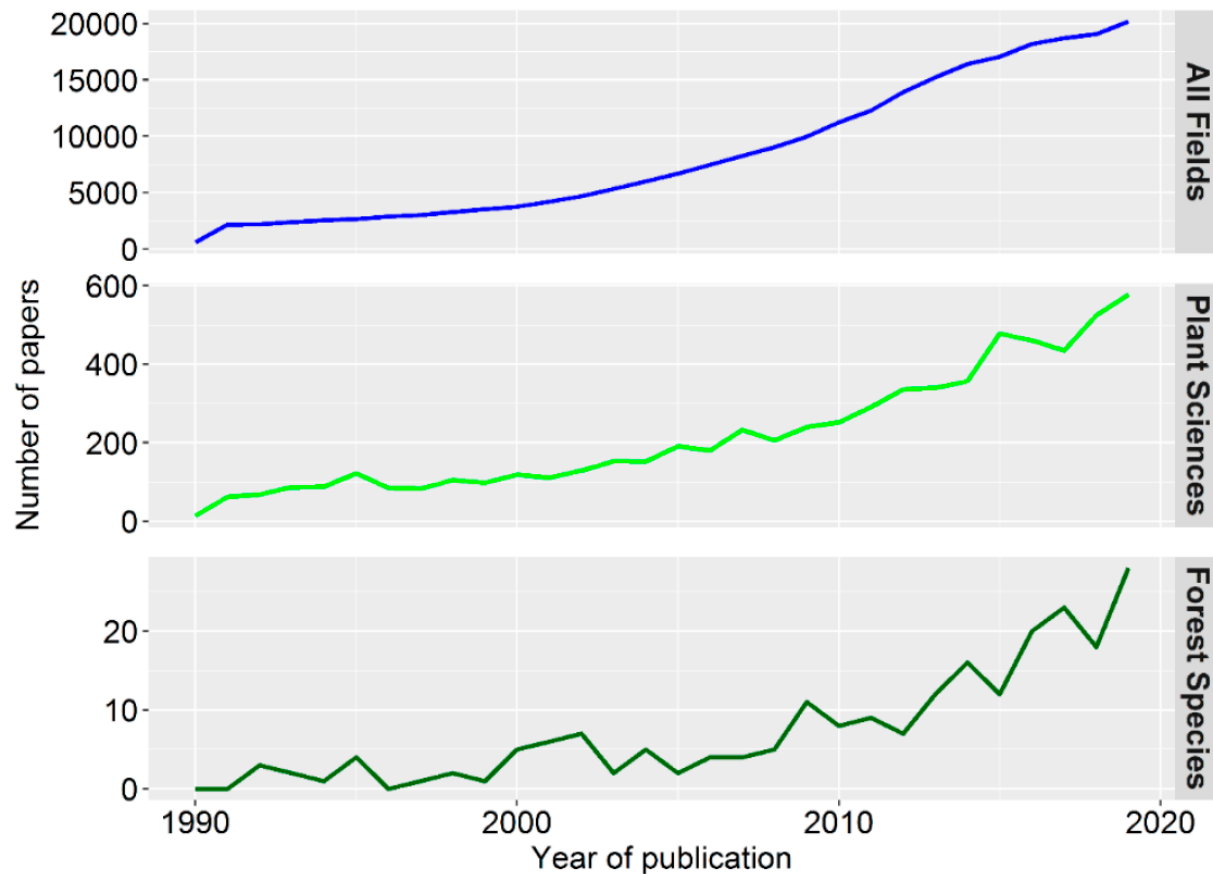
Epigenetics



Epigenetics is the study of **heritable** changes in gene expression (active versus inactive genes) that do not involve changes to the underlying DNA sequence — a change in phenotype without a change in genotype — which in turn affects how cells read the genes. Epigenetic change is a regular and natural occurrence but can also be influenced by several factors including age, the environment/lifestyle, and disease state.

Epigenetics in Forest species: a recent field of plant's research

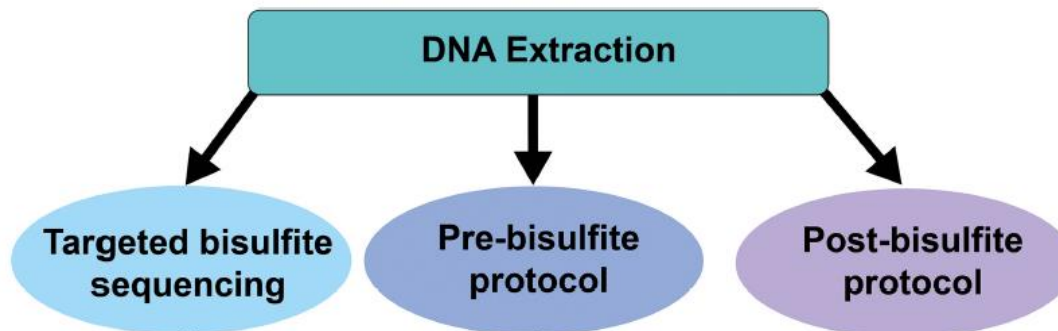
Forests 2020, 11, 976



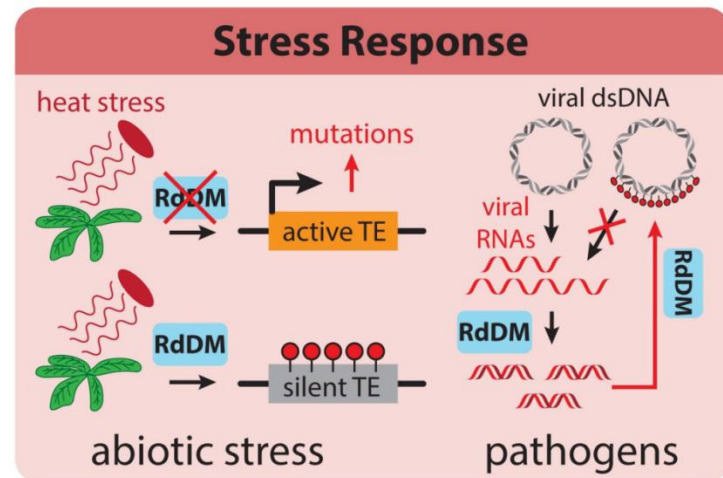
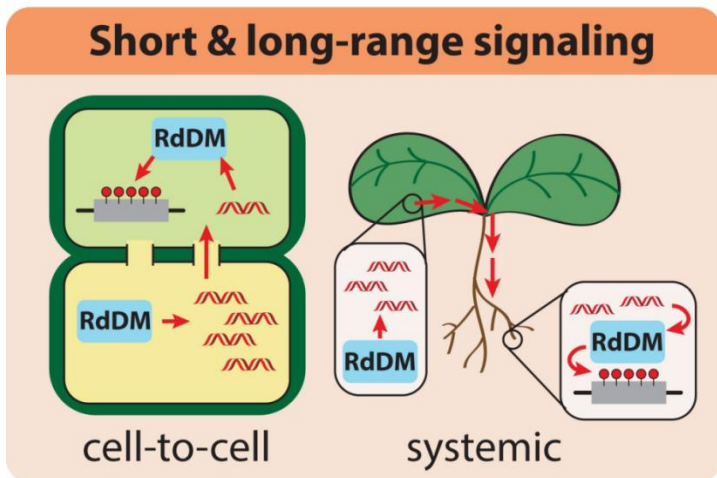
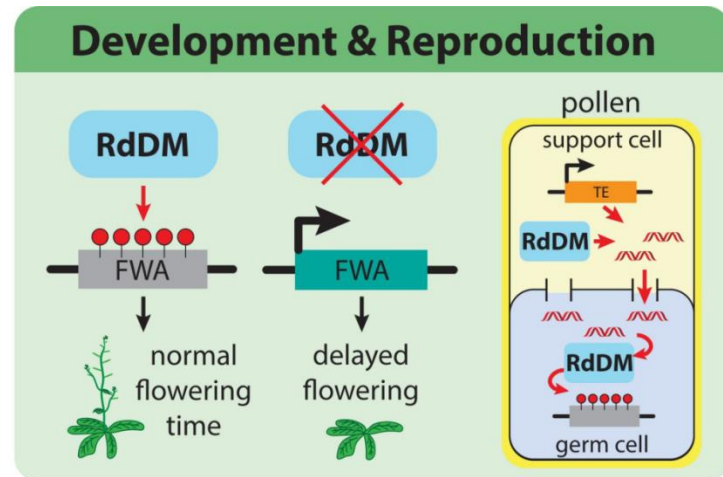
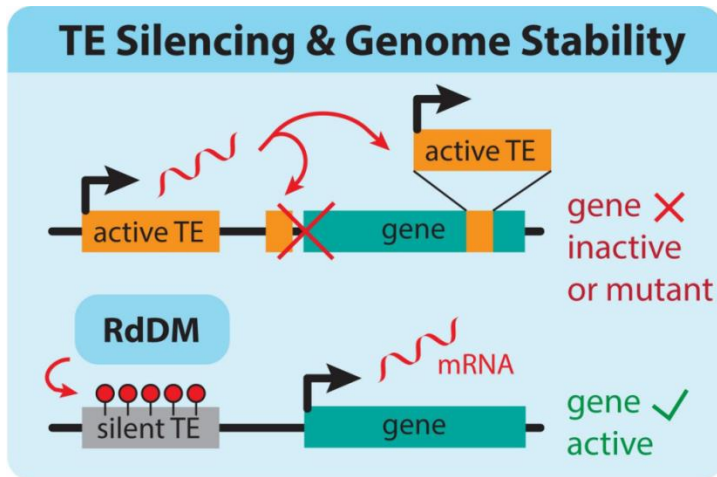


Exploring the crop epigenome: a comparison of DNA methylation profiling techniques

Dolores Rita Agius^{1,2}, Aliko Kapazoglou³, Evangelia Avramidou⁴, Miroslav Baranek⁵, Elena Carneros⁶, Elena Caro⁷, Stefano Castiglione⁸, Angela Cicutelli⁸, Aleksandra Radanovic⁹, Jean-Paul Ebejer¹, Daniel Gackowski¹⁰, Francesco Guarino⁸, Andrea Gulyás¹¹, Norbert Hidvégi¹¹, Hans Hoenicka¹², Vera Inácio¹³, Frank Johannes¹⁴, Erna Karalija¹⁵, Michal Lieberman-Lazarovich¹⁶, Federico Martinelli¹⁷, Stéphane Maury¹⁸, Velimir Mladenov¹⁹, Leonor Morais-Cecílio²⁰, Ales Pecinka²¹, Eleni Tani²², Pilar S. Testillano⁶, Dimitar Todorov²³, Luis Valledor²⁴ and Valya Vassileva^{23*}











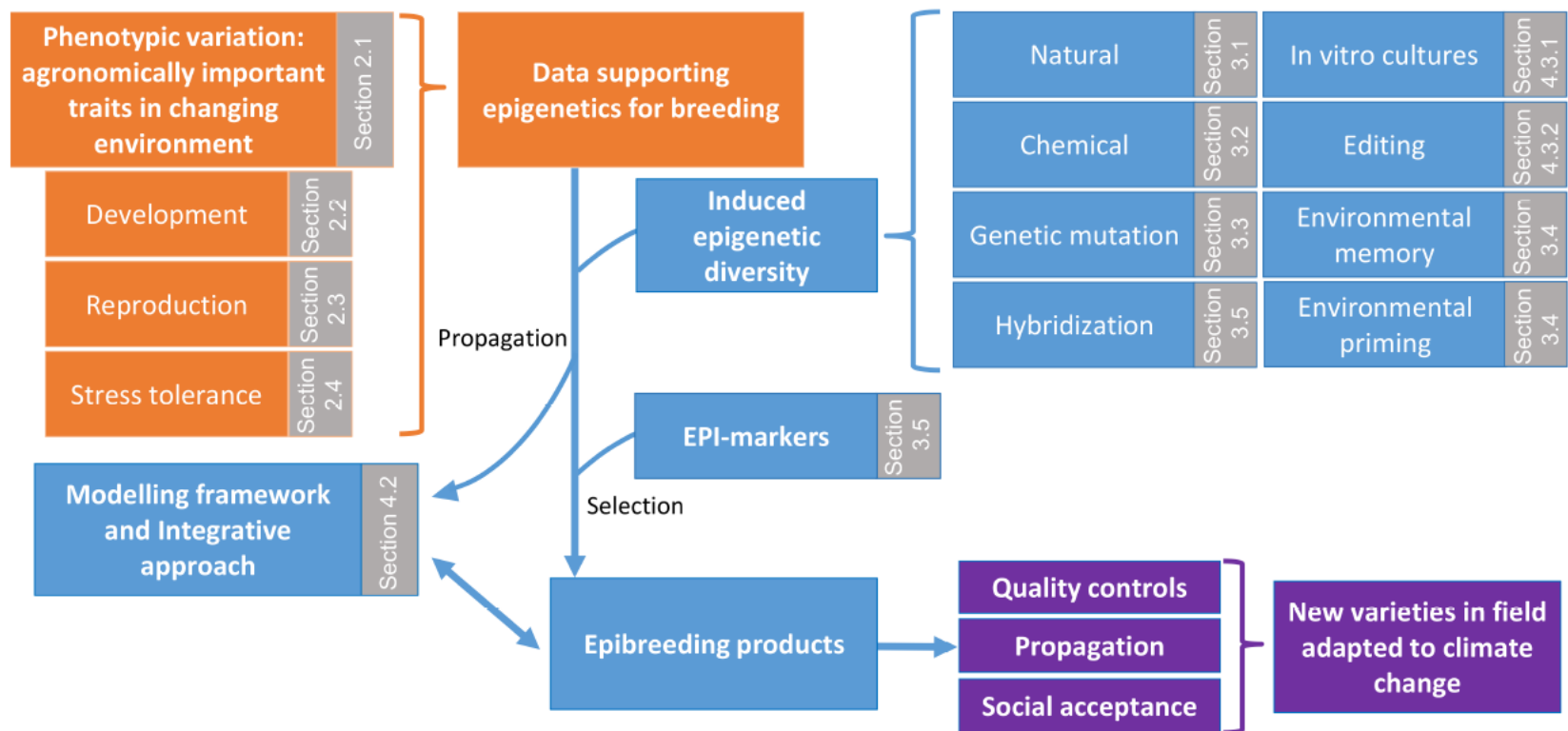
Epigenetics in plant's life



Review

Epigenetics for Crop Improvement in Times of Global Change

Ioanna Kakoulidou ¹, Evangelia V. Avramidou ², Miroslav Baránek ³, Sophie Brunel-Muguet ⁴, Sara Farrona ⁵, Frank Johannes ^{1,6}, Eirini Kaiserli ⁷, Michal Lieberman-Lazarovich ⁸, Federico Martinelli ⁹, Velimir Mladenov ¹⁰, Pilar S. Testillano ¹¹, Valya Vassileva ¹² and Stéphane Maury ^{13,*}



Epigenetics in Woody Plants

Program: Oral presentations (28/09) and open discussion,
Networking (29/09)

EPI-CATCH is a COST action with the aim of defining, developing generating and sharing new breaking knowledge and methodologies for the investigation of epigenetic mechanisms underlying plant adaptation to environmental stresses driven by climate change. Our aim is to create a pan-European framework for networking in this under-investigated research field of plant genetics.

EPI-CATCH Working Groups:

- WG1 Plant stress epigenetic responses**
- WG2 New frontiers and concepts**
- WG3 Methodologies and workflows**
- WG4 Dissemination and Communication**

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

Join us !!