

Amélioration génétique
et adaptation des plantes
méditerranéennes et tropicales



Deciphering the genetic and molecular control of bud dormancy in apple

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the European Union

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Pathways for inventive researchers

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Who am I?



2006-2010 Bachelor in Bioprocess Engineering and Biotechnology, State University of Rio Grande do Sul, Brazil.



2011-2012 Master's in Cell and Molecular Biology, Federal University of Rio Grande do Sul, Brazil.



2012-2016 PhD in Cell and Molecular Biology, Federal University of Rio Grande do Sul, Brazil.

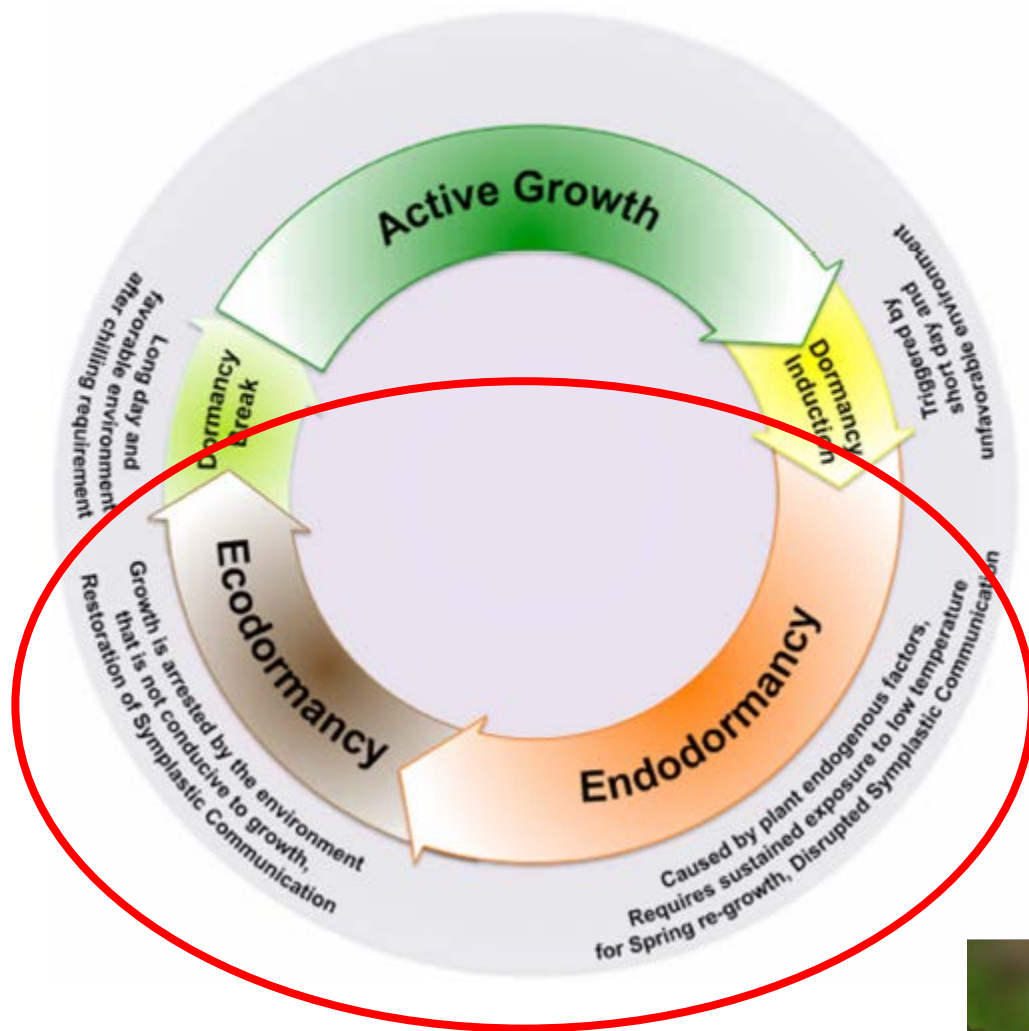


2017-current Post-doc in Plant Molecular Genetics, Architecture and Functioning of Fruit Species, France.

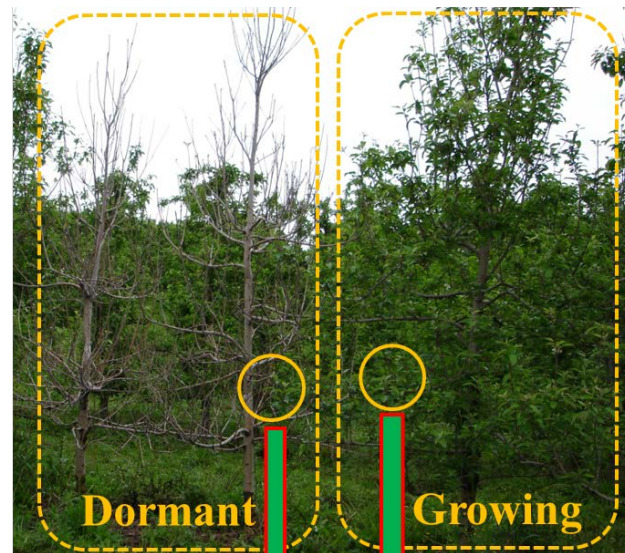
Montpellier, France

Bento Gonçalves, Brazil

Growth and dormancy cycle of a temperate fruit tree



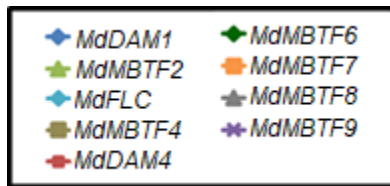
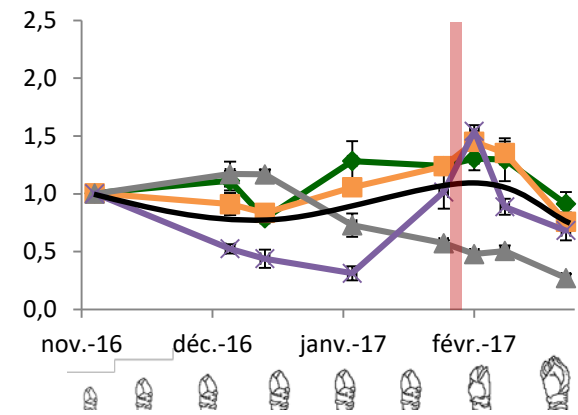
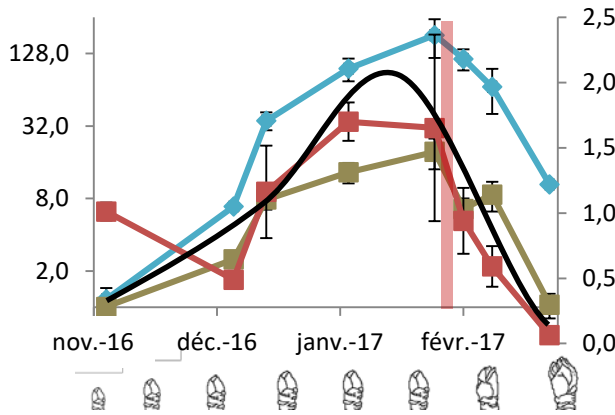
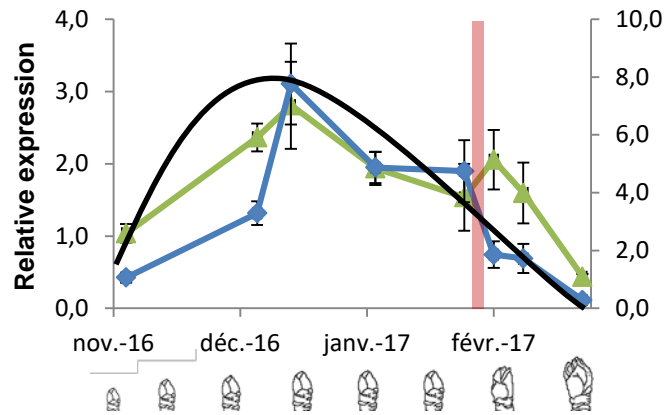
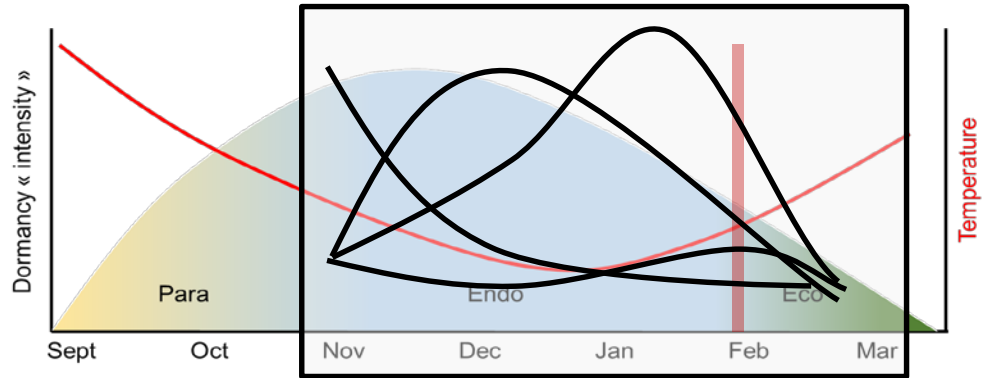
How this process is **molecularly** and **genetically** controlled?



Apple (*Malus x domestica* Borkh.)

MADS-box genes associated to bud dormancy control in apple

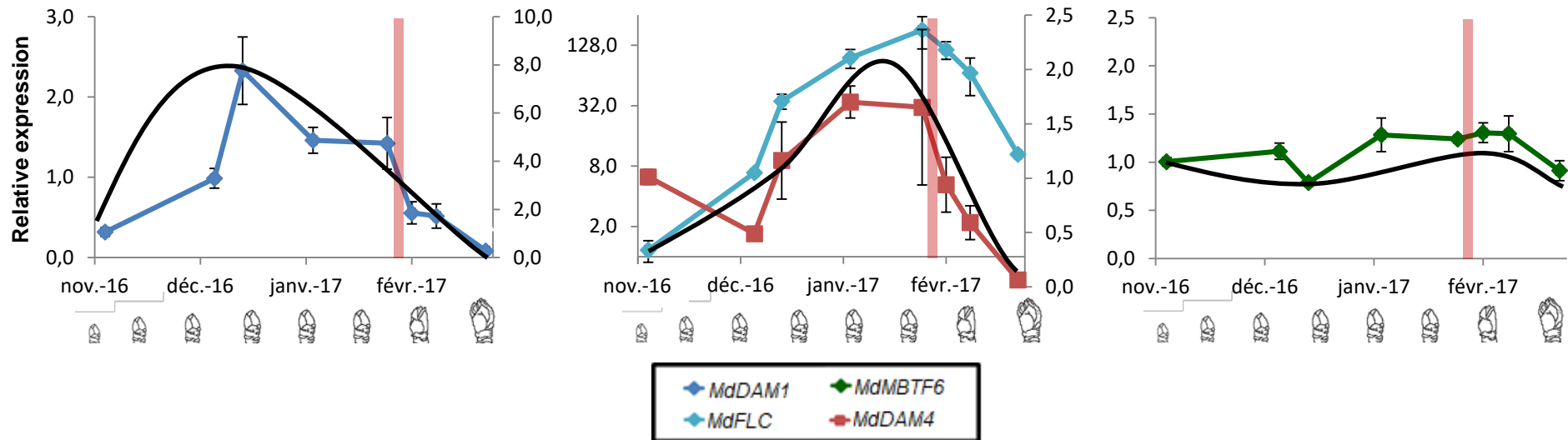
Dormancy release



Transcriptional complexes of apple MADS-box proteins

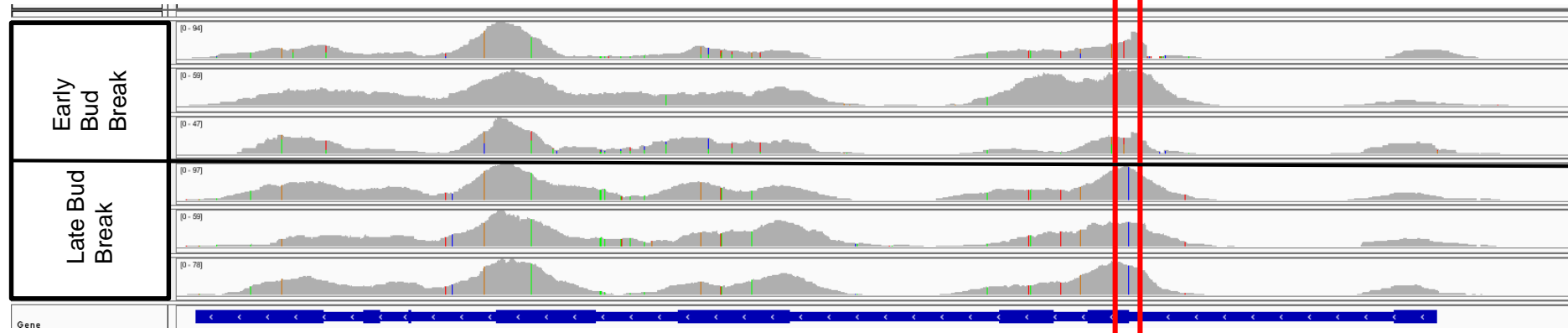
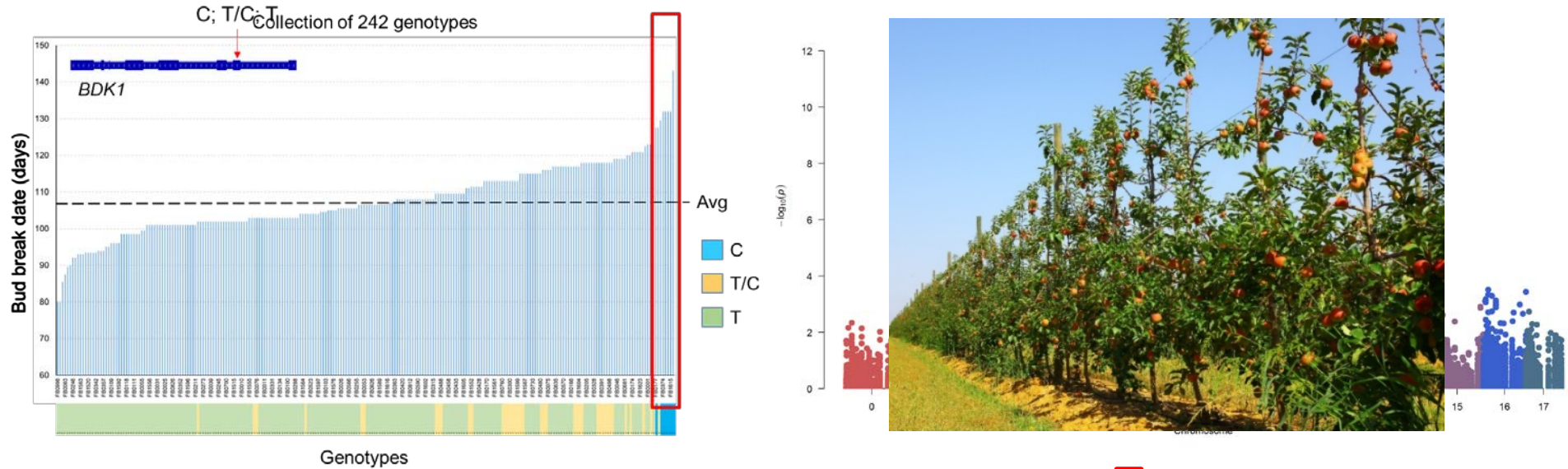


MdMBTF6 interacts with **MdDAM1**, **MdDAM4** and **MdFLC**. Is it an important protein during dormancy?



Exploring the allelic variability of flowering-time genes in an apple core collection established in France

A preliminary GWAS analysis identifies 'top' candidate genes associated with bud break date



Thank you!

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**Architecture et fonctionnement des espèces
fruitières(AFEF)**