



## Séminaire / Seminar AMAP



Dr Matos is an ARC DECRA Fellow and a Lecturer at Adelaide University in South Australia. She is a plant eco-physiologist with research interests in plant hydraulics, functional ecology and global change biology. Matos's research group is focused on unravelling the different strategies that plants can exhibit to deal with adverse conditions, such as droughts, heatwaves, and fires.

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**12 MAI 26**  
11h00 – 11h50

Salle 201, Bâtiment PS2, CIRAD-UMR AMAP,  
Boulevard de la Lironde  
Visioconference: [Teams Link](#)

## Growing old and tolerant? How leaf traits vary across life-stages and why this matter.

*presented by*

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### ABSTRACT

Trait-based models are a powerful tool to predict vegetation responses to climate change but they are currently limited by the lack of information about trait variation across life-stages. Traits sampled from a single life-stage are often used interchangeably to model plant responses. However, traits may differ between stages, with juveniles expected to show traits linked to ruderalism (R), while adults may exhibit competitor (C) or stress-tolerant (S) traits. Therefore, extrapolating traits from one life-stage to another is problematic and may lead to inaccurate model predictions. Here, I use Eucalyptus – the most diverse plant genera in Australia - as a model system to investigate developmental variation in leaf traits (leaf area, specific leaf area, and leaf dry matter content) and CSR strategies. Species in this genus display varying degrees of heteroblasty (distinct juvenile vs. adult vs. resprouting leaf morphology) which may lead to different strategies across life-stages.

### KEY WORDS

Plant traits, Ontogeny, Heteroblasty, CSR theory

### Invited and animated by:

Dr. Imma Oliveras Menor (UMR AMAP) – Thème DyaFor

### Type:

Research results

### Oral language:

English

### Language of PPT:

English

### Visioconference:

<https://teams.microsoft.com/meet/378282611406589?p=AJpADE2CmGPgADWEeh>



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