



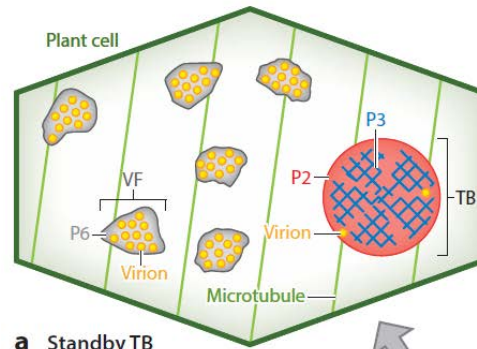
Beatriz DADER Spain to Montpellier

- Agricultural engineer, Plant protection and crop breeding
 - Molecular and functional characterization of cysteine-proteases of barley, enzymes responsible for the proteolytic activity during leaf senescence
- Spanish National Research Council: assistant working on dose-response assessment of pest resistance, in partnership with BASF and Dow Agrosciences
- PhD Plant protection:
 - Compatibility of biological control with physico-chemical tactics against insect vectors of horticultural crops
 - Short stays in UK and Australia (abiotic factors UV, CO₂ on aphid-plant interactions)

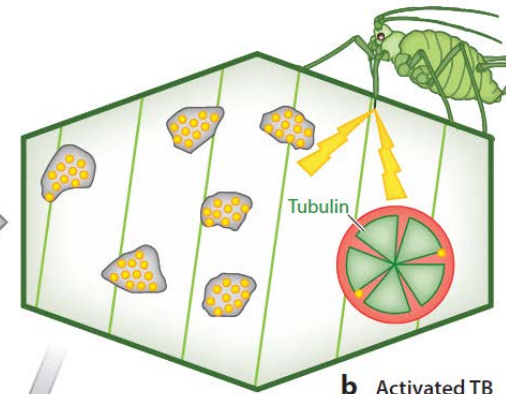


Transmission activation of *Cauliflower mosaic virus*

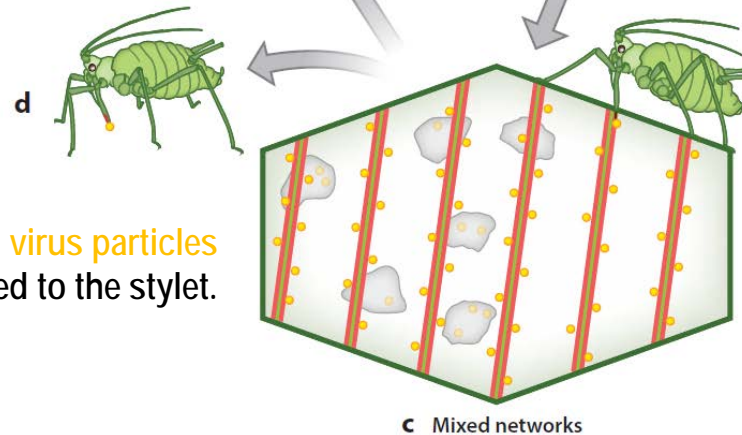
1. An infected cell in the unstressed 'standby' state with a single transmission body (TB) containing the **transmission helper protein P2**, and many virus factories (VF) with **virus particles**. We can also observe the **microtubules**.



2. After aphid puncture, influx of **tubulin** that dissociates TB.



4. The aphid leaves with **P2** and **virus particles** attached to the stylet.



3. Association of **P2** dispatched from transmission bodies and **virus particles** from virus factories in **microtubules** to form mixed networks.

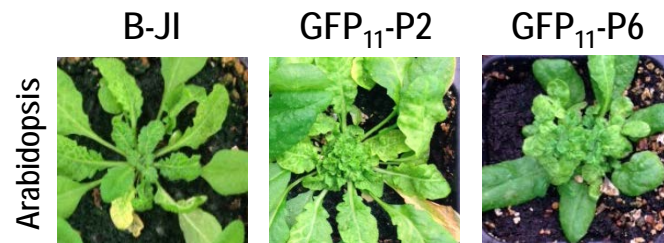
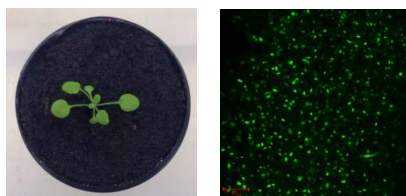
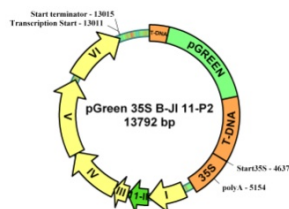
Transmission activation of *Cauliflower mosaic virus*

GOAL: CHARACTERISING THE MOLECULAR AND CELLULAR DETAILS OF CaMV TA, WITH AN EMPHASIS ON IDENTIFICATION OF PLANT FACTORS INVOLVED IN THE DIFFERENT STEPS OF TA.

OBJECTIVES

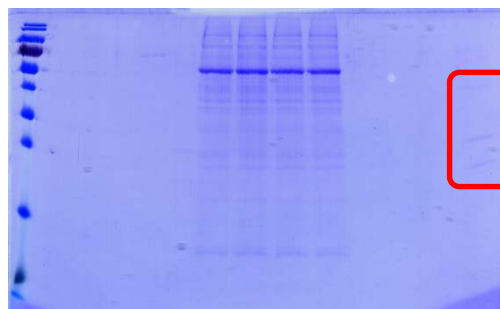
1) To characterize TA reaction in living tissue after biotic (aphid punctures) and abiotic stresses

Split GFP system



2) To capture and identify plant partners involved in TA.

GFP-Trap



→ Mass spectrometry