



Dr Sandrine Bonhomme Short CV

I am a plant biologist and INRAE research scientist since 1992. After a PhD thesis on the Ogura Cytoplasmic Male Sterility in rapeseed (INRA Versailles, France), I did a post-doc at the John Innes Institute (UK) on Plant Gene Silencing (1992-1993), then came back to Versailles and studied the male gametophyte (pollen) development in *Arabidopsis thaliana*. In 2011, I joined the group of Catherine Rameau (Branching Control in Plants), whom work on pea mutants had come to highlight the Strigolactones as a novel class of phytohormone. Since then, my research has focused on deciphering the Strigolactone synthesis and signaling pathway in the moss model *Physcomitrium patens*. The team is now called Strigolactones and Allelochemicals Signaling.

Selected publications

- Bonhomme S. and Guillory A. (2022) Synthesis and signalling of strigolactone and KAI2-ligand signals in bryophytes. *Journal of Experimental Botany*, 73:4487
- de Saint Germain A. *et al* (2022) Expansion of the Strigolactone Profluorescent Probes Repertory: The Right Probe for the Right Application. *Frontiers in Plant Science*, 13:887347.
- Lopez-Obando M., Guillory A. *et al* (2021) The *Physcomitrium (Physcomitrella) patens* PpKAI2L receptors for strigolactones and related compounds function via MAX2-dependent and independent pathways. *The Plant Cell*, 33:3487
- Lopez-Obando M. *et al* (2018) *Physcomitrella patens* MAX2 characterization suggests an ancient role for this F-box protein in photomorphogenesis rather than strigolactone signalling. *New Phytologist*. 219:743.
- de Saint Germain, A. *et al* (2016) An histidine covalent receptor and butenolide complex mediates strigolactone perception. *Nature Chemical Biology*, 12:787