

UK Plant Biomechanics Conference 2025
Friday 28 March 2025

10:00 AM - 10:20 AM	Registration and Arrival Refreshments
10:20 AM - 10:30 AM	Welcome
10:30 AM - 11:15 AM	Invited Speaker Yoel Forterre: Physics of rapid motion in plants: lessons from the Venus flytrap and Mimosa pudica
11:15 AM - 12:15 PM	Short Talks 1 11:15 AM - 11:35 AM Laurence Wilson: The carnivorous plant Genlisea harnesses active particle dynamics to prey on microfauna 11:35 AM - 11:55 AM Elise Muller: Dual role of the FERONIA sensor in regulation of plant mechanical properties and growth 11:55 AM - 12:15 PM Zoe Nemeč Venza: Cells at the root surface use mechanical cues to activate edge-based growth control in Arabidopsis
12:15 PM - 1:30 PM	Lunch
1:30 PM - 2:00 PM	Invited Speaker Suruchi Roychoudhry: Integrating angle-dependence into root gravitropism
2:00 PM - 2:30 PM	Flash Talks 2:00 PM - 2:06 PM Dražen Zanchi: Plant tendril writhing under external load : where Kirchhoff meets Lockhart 2:06 PM - 2:12 PM Amir Ohad: Twining Plants Capitalize on Circumnutations to Assess Mechanical Properties of a Candidate Support, and Initiate a Thigmotropic Twining Response 2:12 PM - 2:18 PM M Bastien Dauphin: From Nano to Macro: An Optogenetic Approach to Studying Plant Cell Wall Integrity 2:18 PM - 2:24 PM Sabrina Gennis: The Efficiency of the Phloem Sugar Transport and Its Geometrical Dependency 2:24 PM - 2:30 PM Adele Coppel: How wind-associated mechanical signals regulate plant immune response?
2:30 PM - 4:00 PM	Afternoon Break and Poster Session
4:00 PM - 5:00 PM	Short Talks 2 4:00 PM - 4:20 PM Marilena Ronzan: Investigation of the structural and mechanical properties of Geraniaceae awns and their role in dispersal 4:20 PM - 4:40 PM Euan Smithers: Understanding the Biomechanics of Plant Tissues: Where to Place a New Cell Wall 4:40 PM - 5:00 PM Jodie Armand: Live 3D imaging sheds new light on the mechanics of stomatal movement in Arabidopsis thaliana
5:00 PM - 5:15 PM	Closing Remarks
5:30 PM - 6:30 PM	Meet for Drinks Hoist House, 5 Wellington Pl, Whitehall Rd, Leeds, LS1 4AP