

10th International Plant Biomechanics Conference

Posters and flash talks — Monday Aug 22nd 2022

There is one poster sessions and 3 slots for flash talks (see programme).

Emails are given to enable contact with/from remote participants (during or outside the scheduled poster session).

Flash talk slot #	Poster #	Title	Speaker
1	1	Wind safety of rubber trees in plantations: comparison of the resistance to breakage of two clones	Engonga Edzang Arnould <arnould.engonga-edzang@inrae.fr>
1	2	How repeated acoustic stimuli increase Arabidopsis resistance to the necrotrophic fungus Sclerotinia sclerotiorum?	Hadj Amor Khaoula <khaoula.hadj-amor@inrae.fr>
1	3	The vascular system of monocot nodes: structural limitations and plasticity	Hesse Linnea <linnea.hesse@biologie.uni-freiburg.de>
1	4	Leaf unfolding: concepts for biomechanical analyses	Modert Michelle <michelle.modert@biologie.uni-freiburg.de>
1	5	Shifting from searching to twining in climbing beans	Ohad Amir <amirohad@mail.tau.ac.il>
1	6	Automatic metabolite extraction using machine learning	Paludan Magnus <mvapa@dtu.dk>
1	7	The actuation of wood ,Äi influence of wood anatomy on predictability and performance	Rueggeberg Markus <markus.rueggeberg@tu-dresden.de>
1	8	Experimental and numerical assessment of soil-root interaction	Sebera Vaclav <vaclav.sebera@seznam.cz>
1	9	Marantaceae as inspiration for technical fiber-reinforced structures	Visconti Anaclara <viscontianaclara@gmail.com>
1	10	Root growth trajectories in arrays of physical obstacles	Yao Jiaojiao <yjj13791664332@outlook.com>
2	11	Mechanosensitive ion channel MSL8 is required for pulsatile growth and normal pectin deposition in A. thaliana pollen tubes	Coomey Joshua <coomey@wustl.edu>
2	12	Shape Shifting Stomata: Mechanical Interactions of Grass Stomata	Durney Clinton H. <clinton.durney@jic.ac.uk>
2	13	Ultra Structural Characterization of Cell Adhesion in Plants	Erguvan Özer <oz.er.guvan@slu.se>
2	14	Molecular connections between the cell wall and outer membrane are the key determinants of the mechanical integrity of the bacterial cell envelope.	Fitzmaurice Dylan <df114@nyu.edu>
2	15	Multiscale modelling and analysis of growth of plant tissues	Kiss Annamaria <annamaria.kiss@ens-lyon.fr>
2	16	Uncovering roles of cell walls in protoplast regeneration	Kocaoglan Gediz <e.kocaoglan20@imperial.ac.uk>
2	17	In search of growth-limiting tissue in monocotyledonous and dicotyledonous roots	Kozlova Liudmila <kozlova@kibb.knc.ru>
2	18	Cell-cell adhesion and polarization are key to the self-organisation of regenerating shoot progenitors	Radhakrishnan Dhanya <d.radhakrishnan@imperial.ac.uk>
2	19	An imaging pipeline for correlation between atomic force and confocal microscopy	Tan Nathanael <nathanael.tan.yh@gmail.com>
2	20	Living on the edge - How to control cell growth at the organ surface	Nemec Venza Zoe <zoe.nemec_venza@ens-lyon.fr>

2	21	Paving the way for understanding of secondary cell wall integrity sensing in aspen and Arabidopsis	Barbut Félix <felix.barbut@slu.se>
3	22	Strength and failure mode of the junction between stem and aerial roots of <i>Hylocereus undatus</i>	Pauls Bennett <bennett.pauls@tu-dresden.de>
3	23	Multi-physics modelling of freeze-thaw cycles effects on tree branches	Bozonnet Cyril <cyril.bozonnet@inrae.fr>
3	24	The mechano-hydraulic regulation of plant cell growth variability.	Long Yuchen <yuchen.long@nus.edu.sg>
3	25	Jumpy dynamics of air embolism in biomimetic leaves	Marmottant Philippe <philippe.marmottant@univ-grenoble-alpes.fr>
3	26	Mechanobiology of the root hair cell	Alline Thomas <thomas.alline@etu.u-paris.fr>
3	27	Quantifying cell-cell adhesion strength in plants	Atakhani Asal <asal.atakhani@slu.se>
3	28	How do cell mechanical properties and response to forces affect plant organ growth?	Bied Camille <camille.bied@ens-lyon.fr>
3	29	Mechanical stresses and long-distance signaling in poplar	Julien Jean-Louis <j-louis.julien@uca.fr>
3	30	Why plant cells do not pop like soap bubbles?	Malivert Alice <alice.malivert@ens-lyon.fr>
3	31	Receptor kinase signaling of BRI1 and SIK1 is tightly balanced by their interactomes as revealed from domain-swap chimaera in AE-MS approaches	Xi Lin <lin.xi.260@uni-hohenheim.de>
3	32	Influences of a microtubule mediated mechanical feedback during early stages of flower development	Zardilis Argyris <argyris.zardilis@slcu.cam.ac.uk>
no	33	Falling behaviour of leaves	Biviano Matthew <mdobi@dtu.dk>, Jensen Kaare <khjensen@fysik.dtu.dk>
no	34	A new 2D Model for studying spatial and temporal biomass allocations along searcher shoots in climbing plants and better understand their self-support against gravity	Giacomo Vecchiato <giacomo.vecchiato@gssi.it>
no	35	Modeling intertwining in growing shoots	Giannopoulou Ourania <ourania.giannopoulou@gssi.it>
no	36	Mechanical properties of miscanthus rind : relation to tissue structure and composition	Barron Cecile <Cecile.Barron@inrae.fr>
no	37	Exploring the role of cell-type specific expansin overexpression in the control of cell wall biomechanical properties and root growth of Arabidopsis	Gahurova Evelina <408398@mail.muni.cz>
no	38	Role of Rapid Alkalinisation Factor signaling in the control of cell expansion	Höfte Herman <hermanus.hofte@inrae.fr>
no	39	A universal growth trajectory of a 3D mechano-hydraulic model for plant cells	Ramakanth Karthikbabu Kannivadi <dbskkr@nus.edu.sg>
no	40	Investigating the impact of cell wall dynamics on secondary growth regulation	Schlamp Theresa <theresa.schlamp@cos.uni-heidelberg.de>
no	41	Analysis of growth of Arabidopsis sepal surface and cuticle pattern at subcellular scale	Skrzydeł Joanna <jskrzydel@us.edu.pl>
no	42	Combinatorial mechanoprobe screen for epitope specific micromechanical imaging of plant cell walls	Besten Maarten <maarten.besten@wur.nl>
no	43	The primary eATP receptor P2K1 mediates responses to the physical strength of medium in Arabidopsis roots	Audemar Vassanti <vassanti.audemar@inrae.fr>
no	44	Mechanical guidance of pollen tube growth at the stigma surface	Fobis-Loisy Isabelle <isabelle.fobis-loisy@ens-lyon.fr>