



**Málaga**

**18th - 22nd of June 2023**

# Programme

## XVI Plant Cell Wall Meeting





## SCIENTIFIC COMMITTEE

Staffan Persson	Laura Bacete	Giulia De Lorenzo
Aline Voxeur	Herman Höfte	Verónica Gonzalez-Doblas
Yoselin Benitez-Alfonso	Misato Ohtani	Thorsten Hamann
Anja Geitmann	Charles T. Anderson	Kalina Haas
Markus Pauly	Daniel Cosgrove	Breeanna Urbanowicz
Candace Haigler	Debra Mohnen	Paul Dupree
Olga Zabolina	Josh Vermaas	Jérôme Pelloux
Wout Boerjan	Taku Demura	Georg Seifert
Ariel Orellana	Zoë Popper	János Urbancsok

## LOCAL SCIENTIFIC COMMITTEE

Miguel Ángel Botella	Patricia Fernández-Calvo
Penélope García-Ángulo	Sara Posé



# Welcome to the XVI Plant Cell Wall Meeting

Welcome to the XVI Cell Wall Meeting

It is a great pleasure for us to welcome you to the XVI Plant Cell Wall Meeting. We would like to thank this scientific community for giving us the opportunity 4 years ago to organise this event on its 45th anniversary. The organisation has been a long process, but one that we have undertaken with great enthusiasm, and we hope that the small changes we have made in the format of the meeting will be well received.

We would like to take this opportunity to thank the members of the scientific and local committees for helping us with the complex task of putting together the final programme. We hope you enjoy these 5 days of talks, and that they will allow us to establish new collaborations or strengthen existing ones.

Finally, we would also like to thank the support from the Meeting Secretariat and the team of local helpers. We also thank the sponsors for financial support.

Kind regards

On the behalf of the XVI Cell Wall Meeting Organising Committee,

Antonio Molina  
Universidad Politécnica de Madrid

Hugo Mérida  
Universidad de León



## General information

### Meeting venue

NH Málaga  
C. San Jacinto, 2, 29007  
Málaga

### Meeting Secretariat

Sombradoble  
Tel: 611 08 58 85  
E-mail: [organization@cellwall2023.org](mailto:organization@cellwall2023.org)  
Web: [sombrodoble.es](http://sombrodoble.es)

### Internet access

Free wifi connection is provided throughout the meeting venue.

### Lunches and coffee breaks

Lunches and coffees/teas and light snacks are included in the registration fee.

### Certificates of attendance

After the XVI Cell Wall Meeting certificate of attendance will be sent to your email.

## Meeting Hours

### Sunday 18th

15:30-21:00 Registration, workshops,  
welcome reception,  
Keynote presentations

### Monday 19th

9:00-21:30 Sessions

### Tuesday 20th

9:00-21:00 Sessions

### Wednesday 21th

9:00-13:30 Sessions  
14:00-21:00 Social activities: Caminito del Rey  
and Museo Picasso Visit

### Thursday 22th

9:00-19:00 Sessions  
21:00-3:00 Gala dinner and party



## Sponsors

We wish to express our sincere gratitude to XVI Plant Cell Wall Meeting sponsors:

### Platinum



### Gold



### Silver



### Bronze





## PROGRAMME OF DAILY ACTIVITIES: SUNDAY 18TH

15:30-16:15

**WORKSHOP 1 (WSN1). Spanish Cell Wall Network.**

Chairs: Antonio Molina & Hugo Mélida

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16:15-17:15

**WORKSHOP 2 (WS2). Cutting edge analytical tools for studying the sequence of the cell wall polysaccharides.**

Chair: Parastoo Azadi.

**ThermoFisher  
SCIENTIFIC**

Parastoo Azadi

Complex Carbohydrate Research  
Center, University of Georgia

(WSP1) How can we use permethylation to study insoluble polysaccharides?

Eugene Badenhorst  
Stellenbosch University

(WSP2) Analyzing plant cell wall polysaccharides and glycoproteins using ELISA and CoMPP

Dimitrios Kouzounis  
Laboratory of Food Chemistry  
Wageningen University

(WSP3) Strategy to identify reduced arabinoxylo-oligosaccharides by HILIC-MSn

Ellen Verwee  
Ghent University

(WSP4) Fluorescence and Raman Microscopy to investigate Plant Cell Wall Polysaccharides.

17:00-17:30

**Coffee/Tea Break**

17:30-17:45

**Welcome and Opening XVI Plant Cell Wall Meeting.**  
Antonio Molina & Hugo Mélida

17:45-18:35

**SESSION 1: KEYNOTE SPEAKERS (KN).**

Chair: Marie-Christine Ralet



Bernard Henrissat  
Technical University of Denmark

(KN1) When the plant cell wall meets the gut microbiota.

18:35-19:25

**SESSION 1: KEYNOTE SPEAKERS (KN).**

Chair: Monika Doblin

**Molecular  
Plant**

Clara Sánchez-Rodríguez  
ETH/Centro de Biotecnología y  
Genómica de Plantas

(KN2) Bio-masonry in plant resilience.

19:30-21:30

**Welcome Reception Dinner**



21:30

**Social Activities**



# PROGRAMME OF DAILY ACTIVITIES:

## MONDAY 19TH

9:00-10:30

### SESSION 2 (OT). Tools to Study the Plant Cell Wall.

Chairs: Staffan Persson & Laura Bacete

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Kalina Hass  
INRAE - IJPB

(OT1) Dynamics of periodic cell wall self-assembly.

Godfrey Neutelings  
University Lille

(OT2) Bioorthogonal labelling strategy for studying the dynamics of lignification in vivo.

Oliver Quinn  
University of Manchester

(OT3) Probing Unique Cell Wall-Related Membrane Domains Using Proximity Labelling.

Quentin Hays  
GLYCO-MEV Laboratory

(OT4) Dynamic imaging of cell wall polysaccharides by metabolic click-mediated labeling of pectins in living elongating cells.

Renate Weizbauer  
Carnegie Institution for Science,  
Dept Plant Biology, Stanford, CA

(OT5) CarboProbes - Illuminating spatial organization of the plant cell wall.

Fiona Kang  
The University of Melbourne

(OT6) Marchantia polymorpha, a simple model system for cell wall biosynthesis research.

10:30-11:00

### Coffee/Tea Break

11:00-13:00

### SESSION 3 (OBD). Plant Cell Wall Biology and Dynamics.

Chairs: Charles T Anderson & Kalina Haas



Misato Ohtani  
The University of Tokyo

(OBD1) Microtubule dynamics is the matter: lessons from sulfamethizole on secondary cell wall patterning during protoxylem vessel cell differentiation.

Sébastien Schoenaers  
University of Antwerp/INRAE

(OBD2) A pectin-binding RALF peptide with both a structural and signaling role in the periodic assembly of the plant cell wall.

Baocai Zhang  
Institute of Genetics and Developmental  
Biology, Chinese Academy of Sciences

(OBD3) Xylan biosynthesis and modification are required for cell wall patterning in rice.

Georg Seifert  
University of Natural Resources  
and Life Science, Vienna (BOKU)

(OBD4) A dual molecular mechanism of Fasciclin-Like Arabinogalactan Protein 4?

Pramod Sivan  
KTH Royal Institute of  
Technology

(OBD5) Post-synthetic modification of glucuronoxylan structure by overexpression of fungal xylanases in developing wood provides novel insights into secondary cell wall polymer interaction and architecture in hybrid aspen.

Erik Nielsen  
University of Michigan

(OBD6) Characterization of CSLD2, CSLD3, and CSLD5 functions during cell wall synthesis in Arabidopsis.

Francesco Pancaldi  
Wageningen University

(OBD7) Genomic dynamics underpinning cell wall evolution.

Georgia Drakakaki  
University of California  
Davis

(OBD8) Dissecting cell wall formation during plant cytokinesis.



## PROGRAMME OF DAILY ACTIVITIES:

### MONDAY 19TH

**13:00-14:15**

**Lunch**

**14:15-15:45**

**SESSION 4 (OP). Pectins.**



Chairs: Debra Mohnen & Jérôme Pelloux

Jenny Mortimer  
University of Adelaide

(OP1) A CRISPR-mediated approach to characterise developmentally-critical pectin biosynthesis genes-

Breeanna Urbanowicz  
University of Georgia

(OP2) Structural and biochemical insight into a modular  $\beta$ -1,4-galactan synthase in plants.

Ariel Orellana  
Universidad Andrés Bello

(OP3) Homogalacturonan is produced and released in the mucilage of GOSAMT mutants despite lower methyl-esterification.

Marie-Christine Ralet  
INRAE

(OP4) Exploring RRT1 function in the synthesis of Arabidopsis seed mucilage.

Bastien Dauphin  
LRSV - Université Toulouse III  
(CNRS)

(OP5) TBL38 is an atypical cell wall homogalacturonan acetyl esterase of Arabidopsis seed mucilage secretory cells.

Debra Mohnen  
University of Georgia

(OP6) Depicting pectin structure and architecture in plant cell wall models.

**15:45-16:45**

**Coffee/Tea Break/Poster session 1 (Even Numbers)**

**16:45-18:45**

**SESSION 5 (OI). Plant Cell Wall and Interaction with the Environment (Abiotic).**



Chairs: Aline Voxeur & Benedetta Mattei

Cezary Waszczak  
University of Helsinki

(OI1) Cell wall structural changes affect plant-water relations.

Mélanie Fortier  
University of Rouen, GlycoMEV

(OI2) Involvement of cell wall glyco-molecules and root cap-derived cells in pea (*Pisum sativum*) root protection to water deficit.

Laura Bacete  
Norwegian University of  
Science and Technology

(OI3) Unravelling the Role of ZAT11 and ZAT18 in Cell Wall Integrity Maintenance in Response to Environmental Stress in *Arabidopsis thaliana*.

Samuel Hazen  
University of  
Massachusetts

(OI4) Shoring up the base: the development and regulation of cortex sclerenchyma in the basal region of nodal roots.

Irabonosi Obomighie  
Durham University

(OI5) Impact of Cell Wall Crosslinking on Plant Freezing Tolerance.

Henrik Scheller  
Lawrence Berkeley  
National Laboratory

(OI6) Modification of cell walls in sorghum changes the rhizosphere and root microbiome.





## PROGRAMME OF DAILY ACTIVITIES:

### MONDAY 19TH

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Thorsten Hamann  
Norwegian University of Science  
and Technology

(O17) The role of the cell wall integrity maintenance mechanism in ABA induction.

Sam Amsbury  
The University of Sheffield

(O18) Profiling cell wall stress responses: Drought and *Zymoseptoria tritici* infection induce distinct but overlapping cell wall modifications in wheat leaves.

**18:45-20:00**

**Refreshmen/Poster session 2 (Odd Numbers)**

**21:00**

**Social activities**



## PROGRAMME OF DAILY ACTIVITIES: TUESDAY 20TH

9:00-10:30

### SESSION 6 (OS). Plant Cell Wall Signalling.

Chairs: Miguel Angel Botella & Verónica González-Doblas



PLANT RESPONSE

Timo Engelsdorf  
Philipps-Universität Marburg

(OS1) Cell wall integrity and Pep signalling modulate phytoalexin-mediated pathogen defence in Arabidopsis.

Marina Martín-Dacal  
Centro de Biotecnología y  
Genómica de Plantas

(OS2) Arabidopsis immune responses triggered by cellulose- and mixed-linked glucan-derived oligosaccharides require a group of leucine-rich repeat lectin receptor kinases.

Kay Schneitz  
Technical University of Munich

(OS3) Molecular insight into cell wall integrity signaling in Arabidopsis mediated by the receptor kinase STRUBBELIG.

Hugo Mérida  
Universidad de León

(OS4) Novel microorganism-derived  $\beta$ -glucans that trigger immune responses in plants.

Liam German  
University of Leeds

(OS5) Callose regulation and plasmodesmata in arbuscular mycorrhizal symbiosis.

Steven Moussu  
CNRS

(OS6) Pollen tube integrity sensors LRX8-RALF4 complexes interact with demethylesterified homogalacturonans.

10:30-11:00

### Coffee/Tea Break

11:00-12:00

### SESSION 7 (OM). Cell Wall Mechanics.

Chairs: Anja Geitman & Thorsten Hamann

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Arun Sampathkumar  
Max Planck Institut für  
molekulare Pflanzenphysiologie

(OM1) Tethering of Cellulose Synthase to Microtubules Dampens Mechano-induced Cytoskeletal Organization in Arabidopsis Pavement Cells.

Leila Jaafar  
The Pennsylvania State  
University

(OM2) Biomechanical Effects of Pavement Cells and Guard Cell Walls on Stomatal Dynamics.

Asal Atakhani  
Umeå University

(OM3) Quantifying cell-cell adhesion strength in plants.

Valérie Lefebvre  
Université de Picardie Jules  
Verne

(OM4) Arabidopsis polygalacturonases differ in their biochemical specificities and in their effects on plants and mimetic membranes.

12:00-13:00

### Round Table 1: CAREERS OPPORTUNITIES.

Chair: Debra Mohnen



Misión biológica de Galicia - CSIC  
The University of Tokyo  
Universidad Andrés Bello  
Kungliga Tekniska Högskolan  
Carlsberg Research Laboratory

Patricia Fernández-Calvo.  
Misato Ohtani.  
Susana Saez.  
Francisco Vilaplana.  
Jesper Harholt.

# PROGRAMME OF DAILY ACTIVITIES:

## TUESDAY 20TH

**13:00-14:15**

**Lunch**

**14:15-15:45**

**SESSION 8 (OL). Lignin.**

Chairs: Wout Boerjan & Josh Vermaas



Jaime Barros  
University of Missouri

(OL1) Natural variation of lignin metabolism in poplar.

Dyoni M. Oliveira  
Ghent University

(OL2) Depletion of lignin p-coumaroylation affects phenolic metabolism and lignin depolymerization efficiency in maize.

Chang-Jun Liu  
Brookhaven National Laboratory

(OL3) Differential involvement of electron transfer chains in lignin and soluble phenolic biosynthesis.

Taku Tsuyama  
University of Miyazaki

(OL4) Active transport of lignin monomers in lignifying tissues of vascular plants.

**SESSION 9 (OD). Plant Cell Wall in Plant Development.**



Chairs: Yoselin Benitez & Misato Ohtani

Anja Geitmann  
McGill University

(OD1) Callose boosts the extreme cellular growth behavior of pollen tubes.

Benoit Landrein  
CNRS UMR

(OD2) Mechanical control of seed growth.

**15:45-16:45**

**Coffee/Tea Break/Poster session 3 (Odd Numbers)**

**16:45-18:45**

**SESSION 9 (OD). Plant Cell Wall in Plant Development.**



Henry Temple  
University of Cambridge

(OD3) Uncovering Golgi SAM Transporters: A Crucial Step Towards Understanding the Role of Pectin Methylation in Plant Development.

Staffan Persson  
University of Copenhagen

(OD4) Identification of a transcriptional framework for primary wall synthesis in Arabidopsis and rice.

Liudmila Kozlova  
University of Montpellier

(OD5) Root growth of monocotyledons and dicotyledons is limited by different tissues.

Allan Showalter  
Ohio University

(OD6) Using CRISPR-Cas9 Genome Editing to Elucidate Arabinogalactan-Protein Function.

Vicente Ramírez  
Institute for Plant Cell Biology  
and Biotechnology

(OD7) Strigolactone-dependent suppression of the irregular xylem syndrome caused by xylan hypoacetylation.

Alexis Peaucelle  
INRAE - IJPB

(OD8) Towards a Multiscale Integrative Model of Plant Growth.

Lothar Kalmbach  
University of Lausanne

(OD9) Tissue-specific cell wall modifications for transport through phloem sieve tubes.

Josh Vermaas  
Michigan State University

(OBD9) Comparing cell wall and membrane contributions to mesophyll conductance in plants.



## PROGRAMME OF DAILY ACTIVITIES: TUESDAY 20TH

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18:45-20:00	Refreshment/Poster session 4 (Even Numbers)
20:00-20:45	Cell Wall Tasting (Sponsored by Supplant)
21:30	Social Activities

The  
**supplant**  
Company



## PROGRAMME OF DAILY ACTIVITIES:

### WEDNESDAY 21TH

**9:00-10:30**

#### **SESSION 10 (OH). Hemicelluloses.**



Chairs: Paul Dupree & Olga Zabotina

Catalin Voiniciuc  
University of Florida

(OH1) Unravelling the Mysterious Roles of GT106 Proteins in Xylan and Mannan.

Theodora Tryfona  
University of Cambridge

(OH2) Altering the crosslinked molecular architecture of grass glucuronoarabinoxylans affects cell wall assembly and results in a more porous wall.

Lavi Rastogi  
Regional Center for  
Biotechnology

(OH3) Characterization of Arabidopsis polysaccharide acetyl esterases from the GELP family and elucidating their role in determining plant cell wall properties.

Olga Zabotina  
Iowa State University

(OH4) The stability variations of the xyloglucan-synthesizing enzymes suggest the compositional dynamics of their complexes in Golgi.

Sarah Pfaff  
The Pennsylvania State University

(OH5) Xylan Plays a Critical Role in Patterned Secondary Cell Wall Formation.

**11:00-12:15**

#### **SESSION 11 (OR). Cell Walls as a Resource for Sustainability.**



Chairs: Taku Demura & János Urbancsok

Jesper Harholt  
Carlsberg Research Laboratory

(OR1) From fundamental cell wall biology to scale production of beer.

**10:30-11:00**

#### **Coffee/Tea Break**

Moira Giovannoni  
University of L'Aquila

(OR2) Exploring the potential of algal-eating saprotrophs in the permeabilization of Chlorella cell walls.

Ajaya Biswal  
University of Georgia

(OR3) Overexpression of Polygalacturonase43 (PG43) leads to increased growth and reduced recalcitrance in Populus.

Camille Carton  
University of Picardy Jules Verne

(OR4) Oligogalacturonides (OGs) production – new prospects for plant disease biocontrol and plant health.

Fabienne Guillon  
INRAE

(OR5) Imaging LPMO action at the tissue level using MALDI MS, deep UV fluorescence and FT-IR microspectroscopy.

Charles Anderson  
The Pennsylvania State  
University

(OR6) Single-molecule imaging of cellulose degradation reveals mechanisms of biomass recalcitrance.

**12:15-13:30**

#### **Round Table: Innovation and knowledge transfer.**

Chair: Antonio Molina



Tradecorp (Rovensa Next)	Jose Nolasco
The Supplant Company	Jeremy Jentis
University of Adelaide	Jenny Mortimer
Universidad Politécnica de Madrid	Juan Manuel Muñoz

**14:00-21:00**

**Social activities: Caminito del Rey/ Museo Picasso Visit**



## PROGRAMME OF DAILY ACTIVITIES: THURSDAY 22TH

9:00-10:30

### SESSION 12 (OC). Cellulose.



#### In-memorian of Andrew Staehelin

Chairs: Daniele Cosgrove & Alison Roberts

Nick Carpita  
Purdue University

(OC1) In-memorian of Andrew Staehelin  
Amino acids essential for assembly of cellulose synthase complexes

Jochen Zimmer  
University of Virginia

(OC2) Structure and Function of Primary Cell Wall Homotrimeric Cellulose Synthases.

Lise C. Noack  
University of Copenhagen

(OC3) Phosphoinositides direct cellulose synthesis during secondary cell wall deposition.

Weiwei Zhang  
Purdue University

(OC4) Point mutations in the catalytic domain disrupt cellulose synthase complex (CSC) assembly and trafficking.

Alison W. Roberts  
University of Rhode Island

(OC5) Functional analysis of CSLDs in moss lines lacking CESAs

Michael Ogden  
University of Copenhagen

(OC6) Do we really understand how cellulose biosynthesis inhibitors work?

10:30-11:00

### Coffee/Tea Break

11:00-11:30

### SESSION 13 (OE). Extracellular Matrices From Others.

Chairs: Zoë Popper & Hugo Mérida



Lenka Franková  
The University of Edinburgh

(OE1) Chara - a living sister to the land plants with pivotal enzymic toolkit for mannan and xylan remodelling.

Ahlem Bouguerba-Collin  
CNRS Station Biologique de Roscoff

(OE2) Characterisation of alginate lyases from brown algae.

11:30-12:15

### SESSION 14 (OO). Other Cell Wall Components.

Chairs: Georg Seifert & Ariel Orellana



Kim Johnson  
La Trobe University

(OO1) Domain structure of FASCICLIN-LIKE ARABINOGALACTAN PROTEINS regulates their distinct functions.

Colin Ruprecht  
University of Natural  
Resources and Life Sciences

(OO2) Kinks and second sugars: Identification of a novel galactosyltransferase involved in glycosylation of Arabinogalactan proteins.

Natalie Hoffmann  
University of Toronto

(OO3) Low substitution xyloglucan disrupts trafficking to the cell wall

12:15-13:00

**Business activity.** Markus Pauly & Antonio Molina.

13:00-14:15

**Lunch**



## PROGRAMME OF DAILY ACTIVITIES: THURSDAY 22TH

14:30-16:15

### SESSION 15 (OI). Plant Cell Wall and Interaction with the Environment (Biotic)

Chairs: Benedetta Mattei & Aline Voxeur



Luka Lelas  
INRAE - IJPB

(OI9) Plant inositol-phosphate-glycans and a fucosylated xyloglucan oligosaccharides are accumulated upon Arabidopsis thaliana/ Botrytis cinerea infection.

Asier Largo-Gosens  
Universidad de León

(OI10) Pectin methylation changes during Pseudomonas attack: part of the transcriptomic reprogramming in common bean

Alvaro Luis Jimenez  
Centre for Research In Agricultural Genomics

(OI11) Engineering structural defense responses in tomato for resistance against the bacterial wilt.

Vincenzo Lionetti  
Sapienza Università di Roma

(OI12) Pro-pectin methylesterases as zymogens for plant cell wall mediated immunity.

Giulia De Lorenzo  
Sapienza Università di Roma

(OI13) The role of cell wall DAMPs in tissue injury: at the crossroad between plant defense and development.

16:15-17:15

### Coffee/Tea Break/Poster session (Even & Odd Numbers)



17:15-18:30

### SESSION 15 (OI). Plant Cell Wall and Interaction with the Environment (Biotic)

Benedetta Mattei  
University of L'Aquila

(OI14) Structural insights into the substrate specificity and catalytic activity of plant and fungal oligosaccharide oxidases.

Eric Nguema-Ona  
Agro Innovation International - TIMAC AGRO

(OI15) Ulva lactuca arabinogalactan-proteins activate immune responses in plants via elicitor activity

### SESSION 16 (OT). Tools to Study the Plant Cell Wall.



Chairs: Staffan Persson & Laura Bacete

Michael Hahn  
University of Georgia / Complex Carbohydrate Research Center

(OT7) Monoclonal antibody probes directed toward plant cell wall glycans – Forty years of insights into plant cell wall structure and dynamics.

Luis Alonso-Baez  
Norwegian University of Science and Technology

(OT8) Studying the mechanical characteristics of plant cells using Brillouin microscopy.

Pavel Krupař  
Charles University

(OT9) Characterizing the Root Longitudinal Zonation Using a Novel Cell Wall-Bound pH Sensor.

Markus Pauly  
Heinrich Heine University Düsseldorf

(OT10) The role of AXY9 in the O-acetylation machinery of plant cell wall polysaccharides.

Thomas Curry  
University of Georgia

(OT11) Leveraging Synthetic Biology to Understand Xylan Biosynthesis



## PROGRAMME OF DAILY ACTIVITIES: THURSDAY 22TH

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**18:30-19:00**      **Poster Awards.**

FAIR Data Systems / Genomics4All /  
Neogen-Megazyme/ Metrohm



**19:00**            **Closing Ceremony**

**21:00-3:00**      **Gala dinner and party.**  
**Costa del Sol**





## POSTERS SESSION

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### Tools to Study the Cell Wall

<b>PT1</b>	Enzyme-based probes for the reliable detection of rhamnogalacturonan II (RG-II) in the plant cell wall	Kristen Thorne
<b>PT2</b>	Fluorescence and Raman Microscopy to investigate Plant Cell Wall Polysaccharides	Ellen Verwee
<b>PT3</b>	GWAS for cell wall and starch contents in Rice Grains	Li Ding
<b>PT4</b>	Imaging carbohydrates in the cell wall	Lisa Maria Steiner
<b>PT5</b>	Implementation of a novel proximity labeling approach to identify new proteins in cellulose synthesis.	Shuai Zheng
<b>PT6</b>	Ionic liquid acetylation improves analytical performance of composition and linkage methods for plant cell wall analysis.	Ian Black
<b>PT7</b>	Multispectral autofluorescence macro-imaging for statistical analysis of a series of maize internode sections	Fabienne Guillon
<b>PT8</b>	New insights into the role of cell wall modifications induced by $\alpha$ -XYLOSIDASE1: The impact in seed and fruit size	Ignacio Ezquer
<b>PT9</b>	New tools to investigate cytoskeletal regulation of secondary wall patterns in the Arabidopsis vasculature	Annika Saß
<b>PT10</b>	Profiling the cell wall composition of eggplant ( <i>Solanum melongena</i> ) using CoMPP and analytical methods	Eugene Badenhorst
<b>PT11</b>	Raman spectroscopy as a tool to examine transition from primary to secondary cell wall	Aleksandra Liszka
<b>PT12</b>	Real-time imaging of CELLULOSE SYNTHASE A8 expression in above and below ground tissues throughout the life of <i>Brachypodium distachyon</i>	Greg Gregory
<b>PT13</b>	Shining Light on AGPs: Synthesis and Application of a Fluorescent Yariv Reagent	Sebastian Rueda
<b>PT14</b>	Single cell adhesion strength quantification in plants	Léa Bogdziewicz
<b>PT15</b>	Strategy to identify reduced arabinoxylo-oligosaccharides by HILIC-MSn	Dimitrios Kouzounis
<b>PT16</b>	Transcriptomics as an effective tool for the integral study of cell wall-related processes	Tatyana Gorshkova

## POSTERS SESSION

### Cell Wall Biology and Dynamics

<b>PBD1</b>	Characterization of a tomato extensin peroxidase in vivo	Michael Held
<b>PBD2</b>	Deciphering fungal plant cell wall-loosening mechanisms	Ignacio Delgado Santamaría
<b>PBD3</b>	Defining the plant cell wall involvement in plant-endophytic bacteria interactions	Artur Pinski
<b>PBD4</b>	Investigating the Role of Ubiquitin in the Regulation of Primary Cellulose Synthase Protein	Patrick Hannah
<b>PBD5</b>	Mechanics and dynamics of cell-cell adhesion in plants	Stéphane Verger
<b>PBD6</b>	Mucilaginous envelope: structure, biomechanical properties and ecological significance	Agnieszka Kreitschitz
<b>PBD7</b>	Peculiarities of the biosynthesis of cellulose-enriched thickened cell walls: analysis of gene expression	Natalia Mokshina
<b>PBD8</b>	Plant Cell Wall secretion pathways: analysis on AtPME12, AtPME18 and AtPME34	gabriele pecatelli
<b>PBD9</b>	Polysaccharides tightly associated with cellulose in thickened cell walls: random capture or necessity?	Polina Mikshina
<b>PBD10</b>	Probing the heterogeneity of cell wall composition in needle tissues of Pinus pinaster	Antonio E. Encina García
<b>PBD11</b>	Proprioception in plant? Comparison of flax bast fibers and G-layers induced by long-term gravitropic stress.	Suvajit Mukherjee
<b>PBD12</b>	Quis custodiet ipsos custodes? Regulating cellulose biosynthesis regulation	Francisco Percio Vargas
<b>PBD13</b>	Regulation of ABA production and cell wall dynamics by the cell wall integrity maintenance mechanism	Dhika Amanda
<b>PBD14</b>	Role in signaling of Rapid Alkalinisation Factor-induced cell wall modification	Elvina Faucher
<b>PBD15</b>	Structural diversity of softwood and hardwood cell wall microfibrils	Jan Łyczakowski
<b>PBD16</b>	Succulent aloes and their micromorphology	Louise Isager Ahl
<b>PBD17</b>	TTL Proteins: New members of the Cellulose Synthase Complex necessary for salt stress resistance	Raquel Pagano Márquez
<b>PBD18</b>	Ultra Structural Characterization of Cell Adhesion in Plants	Özer Erguvan
<b>PBD19</b>	Xylan Production and Secretion in Xylem Cells	Lacey Samuels
<b>PBD20</b>	A pectin-binding RALF peptide with both a structural and signaling role in the periodic assembly of the plant cell wall	Sébastien Schoenaers

## POSTERS SESSION

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### Pectins

<b>PP1</b>	A high hydrolysis rate of pectin converts an oligogalacturonide oxidase into a dehydrogenase with radical cation scavenging activity.	Manuel Benedetti
<b>PP2</b>	Auxin-regulated pectin lyase-like proteins affect root cell elongation rate by modification of cell wall	Monika Kubalová
<b>PP3</b>	Dimers and tetramers of the pectic domain rhamnogalacturonan-II: AGPs as 'boron enzymes'	Stephen Fry
<b>PP4</b>	Elucidating the role of pectins in tomato grafting: an immunohistochemical approach	José Luis Acebes
<b>PP5</b>	Enzymatic trimming of the A and B sidechains of rhamnogalacturonan II impacts dimerization	Deepak Sharma
<b>PP6</b>	Fermentation kinetics of carrot derived rhamnogalacturonan-I in a SHIME® gut-model	Krishna Desai
<b>PP7</b>	Identification of amino acid residues involved in the pH-dependent activity and in the substrate size-dependent specificity of OGOX1 by Molecular Dynamics simulations	Emilia Piccirilli
<b>PP8</b>	Modification of pectin by polygalacturonases influences growth and development in <i>Arabidopsis thaliana</i>	Ellen Zelinsky
<b>PP9</b>	New analytical approaches for the structural characterization of insoluble polysaccharides	Parastoo Azadi
<b>PP10</b>	Overproduction of a type II arabinogalactan-specific $\beta$ -galactosidase from <i>Cicer arietinum</i> in <i>Arabidopsis</i> etiolated seedlings alters hemicellulose/pectin interactions	Berta Dopico
<b>PP11</b>	Pectins play a key role in tomato graft healing	Carlos Frey
<b>PP12</b>	Structural and rheological properties of diluted alkali soluble pectin from apple and carrot	Adrianna Kaczmarek
<b>PP13</b>	Structure-function relationship of the GAUT gene family: How transcript expression informs us	Clifford Okoye
<b>PP14</b>	The role of rhamnose and arabinose for the structure and rheology of pectin, and cell wall mechanics	Artur Zdunek
<b>PP15</b>	Trimming of galactose side chains of type II arabinogalactan influences homogalacturonan methyl esterification	Lucía Albornos



## POSTERS SESSION

### Plant Cell Wall and Interactions with the Environment

<b>PI1</b>	A class III peroxidase PalPRX45 localized in cell wall of roots enhanced poplar tolerance to drought stress	Lizhi Zhu
<b>PI2</b>	Adaptation responses to drought in <i>Chenopodium quinoa</i> mediated by cell wall enzymes	Eva Miedes
<b>PI3</b>	Biohybrid plants with electronic roots via in vivo polymerization of conjugated oligomers	Erica Colaprico
<b>PI4</b>	Cell wall charge in roots and its role in nutrient acquisition.	Elke Barbez
<b>PI5</b>	Cell wall composition analysis and genome-wide association study of cassava pulp derived from inbred populations	Pongsakorn Sunvittayakul
<b>PI6</b>	Cell wall polysaccharides and morphological features associated with water imbibition of <i>Hymenaea courbaril</i> L. seeds	Marcos Buckeridge
<b>PI7</b>	Differences in microtubule interactions among COMPANION OF CELLULOSE SYNTHASE (CC) family members confer divergent functions in plant biology	Liu Wang
<b>PI8</b>	Differential response in the pith cell wall composition after borer damage: case of study of maize inbreds genetically related but with contrasting hydroxycinnamates content	Rogelio Santiago Carabelos
<b>PI9</b>	Effect of oxidative stress on plant cell wall polysaccharides	Piotr Pieczywek
<b>PI10</b>	Genetic and Environmental Influences on Switchgrass Cell Wall Composition	Laura Bartley
<b>PI11</b>	Identification of histological targets involved in the maize response to water deficit.	Ana López-Malvar
<b>PI12</b>	Influence of cell wall pectic fraction modification on Cadmium stress capacities	Jonathan Robilliard
<b>PI13</b>	Insights of a GH12 from the thermoacidophilic archaea <i>Sulfolobus acidocaldarius</i>	Antonielle Monclaro
<b>PI14</b>	Investigating Sphagnum moss Cell Wall Structure by Solid - State NMR	Darragh Kelleher
<b>PI15</b>	Investigating the Impact of Altered Xylan Structures on Drought Response in <i>Arabidopsis</i> and <i>Aspen</i>	Félix Barbut
<b>PI16</b>	Involvement of arabinogalactan proteins in <i>Arabidopsis thaliana</i> root response to osmotic and salt stress	Elise Rethoré
<b>PI17</b>	Lifestyle transition in wheat pathogenic <i>Zymoseptoria tritici</i> deciphered by transcriptome-derived analysis of CAZymes	Antonielle Monclaro

## POSTERS SESSION

### Plant Cell Wall and Interactions with the Environment

<b>PI18</b>	Localization of hormone-regulated expansins in the shoot of <i>Arabidopsis thaliana</i> and investigating their role in adaptive responses to abiotic stresses	Marketa Samalova
<b>PI19</b>	Mechanical and adhesive properties of mucilaginous coat in seeds of <i>Ocimum basilicum</i> (Lamiaceae)	Helen Gorges
<b>PI20</b>	Modulating media composition to enhance resistance against <i>Fusarium oxysporum</i> by cell wall changes	Alfonso Gonzalo de la Rubia
<b>PI21</b>	Pectolytic enzyme treatment partially degrades AGP-rich polysaccharides in red wine as characterised using epitope mass profiling	John Moore
<b>PI22</b>	Nitrogen responses & cambial growth in aspen	Anna Renström
<b>PI23</b>	Pine wilt disease affects xylem cell walls of <i>Pinus pinaster</i> but not of <i>Pinus pinea</i>	Sara Foubert-Mendes
<b>PI24</b>	Precise control of water stress in the field reveals different response thresholds for forage yield and digestibility of maize hybrids	Oscar Main
<b>PI25</b>	Release of pectin-derived Damage-Associated Molecular Patterns improves resistance to pathogens and influences root development	Laura Guerrisi
<b>PI26</b>	Role of WAKL receptors in the sensing of PME17 activity	Elodie AKARY
<b>PI27</b>	SBT3.3 and Pro-PME17 are secreted through distinct protein secretion pathways in the apoplast	Daniele Coculo
<b>PI28</b>	Structural differences between membrane-bound and apoplastic arabinogalactan-proteins (AGPs) and their response to low temperature	Daisuke Takahashi
<b>PI29</b>	Sugar and salt: How seagrass cell walls adapted to the marine habitat	Birgit Classen
<b>PI30</b>	The evolution of guard cell walls and stomatal speed	Robert Brench
<b>PI31</b>	The PineWALL project – Linking pine cell wall composition and structure to pinewood nematode resistance	Ricardo da Costa
<b>PI32</b>	Tight regulation of a secreted cellulase is critical for virulence of the wheat pathogen <i>Zymoseptoria tritici</i>	Andrea Sánchez-Vallet
<b>PI33</b>	Unraveling the role of plant cell wall degrading enzymes of <i>Zymoseptoria tritici</i> during wheat infection	Cristian Carrasco-López
<b>PI34</b>	Unravelling the role of polygalacturonases in the interaction of parasitic plants and phytopathogens with their host plants	Wiebke Häger
<b>PI35</b>	Xylose-derived oligosaccharides trigger plant immunity	Patricia Fernandez Calvo



## POSTERS SESSION

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### Plant Cell Wall Signalling

<b>PS1</b>	"Exploring the Interplay between Pectin Metabolism and CrRLK1L in Marchantia polymorpha."	Martin Alejandro Mecchia
<b>PS2</b>	An Arabidopsis Regulator of G-protein like Receptor is required for the activation of defence responses induced by cellotriose.	Moirá Giovannoni
<b>PS3</b>	Arabidopsis Early Immune Signalling in Response to Cell Wall-Derived Glycans	Diego José Berlanga
<b>PS4</b>	Identification of molecular components involved in plant cell wall integrity maintenance in Arabidopsis	Tereza Tichá
<b>PS5</b>	LRX8-RALF4-pectin cell wall integrity network supports pollen tube elongation	Hyun Kyung Lee
<b>PS6</b>	Pollen tube cell wall growth and reorganization is driven by calcium signaling	Marta Belloli
<b>PS7</b>	RALF/CrRLK1L/LRX implication in cell wall integrity during tomato fruit formation	José Antonio Montano García
<b>PS8</b>	SUNE42 in regulating LRX1-mediated cell wall integrity sensing	Xiaoyu Hou
<b>PS9</b>	The Plant Growth Oscillator: Time sifts. Paradigms shift.	Derek T Lamport
<b>PS10</b>	Two Berberine Bridge Enzymes - like oxidize cellodextrins and mixed-linked $\beta$ -glucans influencing the seed coat formation	Sara Costantini
<b>PS11</b>	Unravelling the function of wall-associated kinases in oligogalacturonide immune signaling	Laura Herold

### Cell Wall Mechanics

<b>PM1</b>	Cell wall anisotropy plays a key role in guard cell biomechanics during Zea mays stomatal movements	Kostis Gkolemis
<b>PM2</b>	Disturbance of intrusive growth causes changes in primary, secondary, and tertiary cell walls of flax fibers	Anna Petrova
<b>PM3</b>	Genome-wide association study of a natural population of maize dissects the genetic basis of cell wall recalcitrance	Shaogan Wang
<b>PM4</b>	Modeling of mechanical properties of hemicellulose-cellulose networks in plant cell wall analogues	Vadym Chibrikov
<b>PM5</b>	Structure-Function Analysis of Primary Cell Walls: Merging Mechanics with Molecular Dynamics	Daniel Cosgrove

## POSTERS SESSION

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### Lignin

<b>PL1</b>	Elucidating the role of lignification during silique development in <i>Arabidopsis thaliana</i>	Justin Nichol
<b>PL2</b>	Field performance of poplars downregulated in CAFFEYOYL SHIKIMATE ESTERASE, a gene involved in lignification	Thatiane Mota
<b>PL3</b>	Flavonoids incorporated into papyrus lignin	Jorge Rencoret
<b>PL4</b>	Freezing-induced activation of the lignin-biosynthetic machinery is conserved in spruce and <i>Populus</i> trees	Marta Marina Pérez Alonso
<b>PL5</b>	Lignin monomers from beyond the canonical monolignol biosynthetic pathway – Another brick in the wall	José C. del Río
<b>PL6</b>	Systems genetic analysis of lignin biosynthesis in aspen trees	Mikko Luomaranta
<b>PL7</b>	Temporal dynamics of wheat straw-based lignocellulose degradation by <i>Agaricus bisporus</i>	Mirjam Kabel
<b>PL8</b>	The effects of CCR2-deficiency on embolism formation and secondary cell wall composition of drought-stressed poplar trees	Jane Mademann
<b>PL9</b>	Topochemistry of pectin and lignin in the cell walls of eastern leatherwood ( <i>Dirca palustris</i> )	Yasen Mottiar

### Plant Cell Wall in Plant Development

<b>PD1</b>	A novel phenotyping tool for secondary walls of proto- and meta-xylem	René Schneider
<b>PD2</b>	Actin-based regulation of cell and tissue scale morphogenesis in developing leaves	Seerangan Kumar
<b>PD3</b>	Arabinogalactan Proteins sub-cellular localization and the role of the GPI anchor for its functions	Ana Marta Pereira
<b>PD4</b>	Calcium binding by AGPs is required for successful double fertilization in <i>Arabidopsis</i>	Jessy Silva
<b>PD5</b>	Cell wall dynamics influence mesophyll conductance and photosynthesis	María José Clemente Moreno
<b>PD6</b>	Cell wall mechanics, mechanosensing and germination in <i>Marchantia</i>	Elise Muller
<b>PD7</b>	Cell wall modification and elimination in the endosperm of <i>Arabidopsis</i>	Eduardo Berenguer
<b>PD8</b>	Changes in cellulose structure during tomato fruit development	Lazar Novakovic
<b>PD9</b>	Characterization of a putative senescence-associated $\alpha$ -D-galactosidase/ $\beta$ -L-arabinopyranosidase from rice	Tibo De Coninck

## POSTERS SESSION

### Plant Cell Wall in Plant Development

<b>PD10</b>	Characterization of secondary cell-wall modifications in selected wild olive clones resistant to the defoliating <i>Verticillium dahliae</i> pathotype	Sara Posé-Albacete
<b>PD11</b>	Contribution of cell wall pectin metabolism in the temperature-induced hypocotyl growth	Fabien Sénéchal
<b>PD12</b>	Effect of modification of the AGP structure on the cell wall assembly	Agata Leszczuk
<b>PD13</b>	Elucidating the role of beta-1,3-glucanases in tomato fruit development	Richa Yeshvekar
<b>PD14</b>	Evolution of regulatory modules for cell wall degradation in <i>Cuscuta campestris</i> invasion	Ryusuke Yokoyama
<b>PD15</b>	Evolutionary trajectories of pectin methylesterases and their roles in morphogenesis.	Ooi-kock Teh
<b>PD16</b>	GH5_11 enzymes involved in plant and cell wall development?	Koen Gistelinck
<b>PD17</b>	Identification of cell wall modification enzymes necessary for seedling cuticle formation in <i>Arabidopsis thaliana</i>	Lucia Arenas Alfonso
<b>PD18</b>	Improving strawberry fruit firmness and postharvest shelf-life by CRISPR/Cas9 editing of a polygalacturonase gene	Sara Posé-Albacete
<b>PD19</b>	Inflorescence stem cracking triggered by uncoordinated growth in <i>Arabidopsis thaliana</i>	Mariko Asaoka
<b>PD20</b>	Mechanical and Hormonal Regulation of Cell Division in <i>Arabidopsis</i> Development	Emily Oren
<b>PD21</b>	Mixed-linkage glucan: the primary source of glucose during <i>Brachypodium</i> grain germination	Mathilde Francin-Allami
<b>PD22</b>	Multi-omic correlations for the elongating rice internode reveal potential regulatory mechanisms for cell wall phenylpropanoid biosynthesis.	Niharika Nonavinakere Chandrakanth
<b>PD23</b>	Novel regulators of epidermal permeability	Marina Leal Gavarron
<b>PD24</b>	Onion epidermal cell as growing study model mediated by cell wall enzymes	Eva Miedes
<b>PD25</b>	Proteins with lectin domains as potential tuners of cell wall extension in growing maize root	Aliya Aglyamova
<b>PD26</b>	Role of cell wall polysaccharides in shaping the mesophyll tissue	diksha bhola
<b>PD27</b>	Structure of cell wall polysaccharides in relation to apple development	Patrycja Pękala





## POSTERS SESSION

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### Plant Cell Wall in Plant Development

<b>PD28</b>	Temperature plasticity of a seed coat apoplastic barrier promotes seed dormancy in <i>Arabidopsis thaliana</i>	Lena Hyvärinen
<b>PD29</b>	The <i>Arabidopsis</i> oligosaccharide oxidases OGOX1 and CELLOX act as enzymatic transducers between microbial glycoside hydrolases and plant peroxidases.	Anna Scortica
<b>PD30</b>	The role of proline hydroxylase (P4H3) in AGP biosynthesis and distribution during the tomato fruit ripening process	Nataliia Kutryieva-Nowak
<b>PD31</b>	Toward a better understanding of the molecular mechanisms of return to the aquatic environment of some spermatophytes	Thomas Berthelier
<b>PD32</b>	Towards an integrative model of tip growth	Stephanie Afonso
<b>PD33</b>	Turgor-dependent impairment of apical hook development in <i>Arabidopsis thaliana</i> plants with altered cell wall integrity.	Riccardo Lorrai
<b>PD34</b>	Type II arabinogalactans initiated by hydroxyproline-O-galactosyltransferases play important roles in pollen-pistil interactions	Diana Moreira
<b>PD35</b>	Understanding the role of GALACTAN SYNTHASE 1 (GALS1) in pavement cell shape acquisition	Sandeep Yadav
<b>PD36</b>	What cell wall structures control <i>Plantago</i> seed capsule shattering?	Rachel Burton
<b>PD37</b>	A re-examination of acid growth: Asymmetric effects of increasing and decreasing pH on creep of plant cell walls suggest that extension and growth are limited by accumulation of entanglements during deformation.	D.S Thompson

### Hemicelluloses

<b>PH1</b>	Characterization of <i>Arabidopsis</i> polysaccharide acetyl esterases from the GELP family and elucidating their role in determining plant cell wall properties	Lavi Rastogi
<b>PH2</b>	Convergent Acquisition of Mannan $\beta$ -galactosyltransferase in Asterids and Rosids	Konan Ishida
<b>PH3</b>	Designed $\alpha$ -galactosylation on $\beta$ -mannan fine-tunes its interaction with cellulose	Yoshihisa Yoshimi
<b>PH4</b>	Identification of novel proteins involved in the cell wall polysaccharide biosynthesis by immunoprecipitation of <i>Arabidopsis</i> protoplasts	Supachai Vuttipongchaikij
<b>PH5</b>	Regulation of the biosynthesis of (1,3;1,4)- $\beta$ -glucan, a soluble dietary fibre of cereal grains	Guillermo Garcia Gimenez
<b>PH6</b>	Xylohex: the development of sustainable thermoplastics from hemicelluloses for next generation 3-D printable materials	Daniel Josey

## POSTERS SESSION

### Cell Walls as a Resource for Sustainability

<b>PR1</b>	An NMR study on deconstruction of switchgrass cell walls by thermophilic bacteria	Maria Pena
<b>PR2</b>	Cell wall composition of Sugarcane and Energy Cane and its implication for biomass saccharification	Adriana Grandis
<b>PR3</b>	Cell wall engineering for the negative emission	Nobutaka Mitsuda
<b>PR4</b>	Cell wall enzymatic degradability: improving potential maize uses	Alba Manga Robles
<b>PR5</b>	Chilean papaya mucilage: a fruit waste enriched of homogalacturonan	Susana Saez
<b>PR6</b>	Flax dew retting, a unique and specific plant cell wall degradation process	Suvajit Mukherjee
<b>PR7</b>	Functional characterization of two closely related AA3 family carbohydrate oxidoreductases in Arabidopsis	Mengyi Sun
<b>PR8</b>	Investigation of a novel algal-based biostimulant against RLS on barley	Wendy Delpont
<b>PR9</b>	Salt stress affects the primary and secondary cell wall composition in <i>M. sinensis</i>	Kasper van der Cruysen
<b>PR10</b>	Subcritical water extraction of <i>Equisetum arvense</i> biomass withdraws cell wall fractions that trigger plant immune responses and disease resistance	Antonio Molina
<b>PR11</b>	Targeted enzymatic degradation of the pectic glycan Rhamnogalacturonan I (RG-I) to enhance solubilization of poplar biomass during consolidated bioprocessing	Pradeepa Jayawardhane
<b>PR11</b>	Targeted enzymatic degradation of the pectic glycan Rhamnogalacturonan I (RG-I) to enhance solubilization of poplar biomass during consolidated bioprocessing	Pradeepa Jayawardhane
<b>PR12</b>	The effect of nitrogen fertilization on poplar cell walls composition and recalcitrance towards OrganoCat processing	Jimena Martinez Diaz
<b>PR13</b>	VALORISATION OF BIOWASTES FROM OLIVE OIL MILL AND BIOREFINERY AS INDUCERS OF PLANT DEFENCE RESPONSE	Marco Greco

## POSTERS SESSION

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### Cellulose

<b>PC1</b>	A complex complex - new components of the CESA complex	Orianne Montulet
<b>PC2</b>	Deep Analysis of Amino Acid Constraints in Plant Cellulose Synthases	Mark Frank
<b>PC3</b>	Engineering <i>Marchantia polymorpha</i> cellulose synthase into a mixed-linkage cellulose synthase	Gustav B. Pedersen
<b>PC4</b>	Evaluation of physical properties of bacterial cellulose modified with pectin and hemicelluloses	Magdalena Kurzyna-Szklarek
<b>PC5</b>	Investigation of possible causes for the variable morphology of cellulose synthesis complexes in land plants	Candace Haigler
<b>PC6</b>	S-acylation and cellulose synthesis in <i>Arabidopsis thaliana</i>	Manoj Kumar
<b>PC7</b>	Short and scarce xylan alters conformations of xylan and cellulose	Alberto Echevarría-Poza
<b>PC8</b>	Solution NMR Investigation of Cellulose Synthase RING Domain Functional Diversification	Thomas Wilson
<b>PC9</b>	The adsorption of different plant cell wall polysaccharides on apple microfibrillar cellulose	Monika Szymanska-Chargot

### Extracellular Matrices From Others

<b>PE1</b>	Discovery of red algal carbohydrate sulfotransferases and their implication in cell wall biosynthesis	Antonin Chevenier
<b>PE2</b>	Exploring the diversity of algal cell walls through the optimisation of fractionation methods	Asier Largo
<b>PE3</b>	Kallfu and Wenutram: Two Chilean flaxseed cultivars, with contrasting mucilage content.	Susana Grant-Grant
<b>PE4</b>	Polysaccharides from the extracellular matrix in brown algae: origin and evolutive histories	Cécile Hervé
<b>PE5</b>	Study of fungal cell wall evolution and its role in fungus-plant interactions	María Fuertes Rabanal
<b>PE6</b>	The antagonizing activity between two microbial GH16 and GH17 enzymes suggests how saprotrophs can feed on 1,3- $\beta$ -glucan without incurring in autohydrolysis.	Valentina Scafati



## POSTERS SESSION

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### Other Cell Wall Components

<b>PO1</b>	AGP protein backbones seem to have evolved prior to characteristic glycosylation patterns	Lukas Pfeifer
<b>PO2</b>	An optimized method for comparative analysis of aspen cuticle integrating mass spectrometry with multivariate tools	Madhusree Mitra
<b>PO3</b>	CAGEs and GH43s in Golgi $\beta$ -1,3-galactan biosynthesis and cell wall assembly	Totte Niittylä
<b>PO4</b>	Deciphering the molecular basis of Silicon deposition in plant cell wall	Diego Rebaque
<b>PO5</b>	Fern cell walls: Structural investigations and the evolution of arabinogalactan-proteins	Kim-Kristine Mueller
<b>PO6</b>	Role of O-Glycosylation in regulating FLA4 stability	Chaitra Hiremath



# XVI Plant Cell Wall Meeting

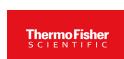
## Organizers



## Platinum



## Gold



## Silver



## Bronze

