

Symposium 2024

## Description

### Digging out the potential of lignin

**Lectures given at the 2024 Marcus Wallenberg Prize Symposium held in Stockholm on 12 November 2024.**

[Watch the complete broadcast here](#)

[Watch the summary film here](#)

**PART 1 SCIENTIFIC FOCUS**, moderated by Paul Dupree, Professor University of Cambridge

#### Welcome and opening Remarks

Mr. Marcus Wallenberg, Chairman of the Marcus Wallenberg Foundation

#### [You can do anything from lignin](#)

Claire Halpin, Professor University of Dundee

#### [Improving Wood Quality: From Systems Biology in Arabidopsis to Applications in Trees](#)

Wout Boerjan, Co-recipient of the 2024 Marcus Wallenberg Prize, Professor of Biochemistry and Biological Systems Engineering, the Wisconsin Energy Institute, University of Wisconsin-Madison, USA

#### [Organic Syntheses and Advanced Analytics for Understanding Lignin Biosynthesis, Structure, and Processing](#)

Professor John Ralph, Co-recipient of the 2024 Marcus Wallenberg Prize, Professor of Biochemistry and Biological Systems Engineering, the Wisconsin Energy Institute, University of Wisconsin-Madison, USA

#### [Announcement of Winner of the Young Researchers' 3MT presentations](#)

Presenter: Tahani Kaldéus, The Marcus Wallenberg Foundation

**PART 2 LIGNIN INNOVATIONS IN FOCUS**, moderated by Monica Ek, Professor KTH

## **From Kraft to Craft: Transforming Lignin into High-Value materials**

Monika Österberg, Aalto University

## **State of the art in Industrial lignin separation**

Hanna Karlsson, Valmet

## **Scaling high-performance material production from wood using aldehyde-assisted fractionation**

Remy Buser, Bloom Biorenewables

**PART 3 START-UPS IN FOCUS**, moderated by Monica Ek, Professor KTH

## **Lignin: Next generation of renewables in plastics Used in PE, PP and ABS applications**

Christopher Carrick, Lignin Industries

## **High performing batteries with lignin based graphene**

Malin Alpsten, Bright Day Graphene

## **Bringing nature's binder back to wood**

Bitta Nilsson, Stora Enso

## **Summary**

Monika Ek, Professor KTH