



University
of Dundee

Thermomorphogenesis 2026



26-28 August 2026

Dundee, United Kingdom

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Dr Martin Balcerowicz

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Heather Gulbrandsen

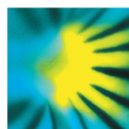
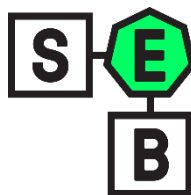
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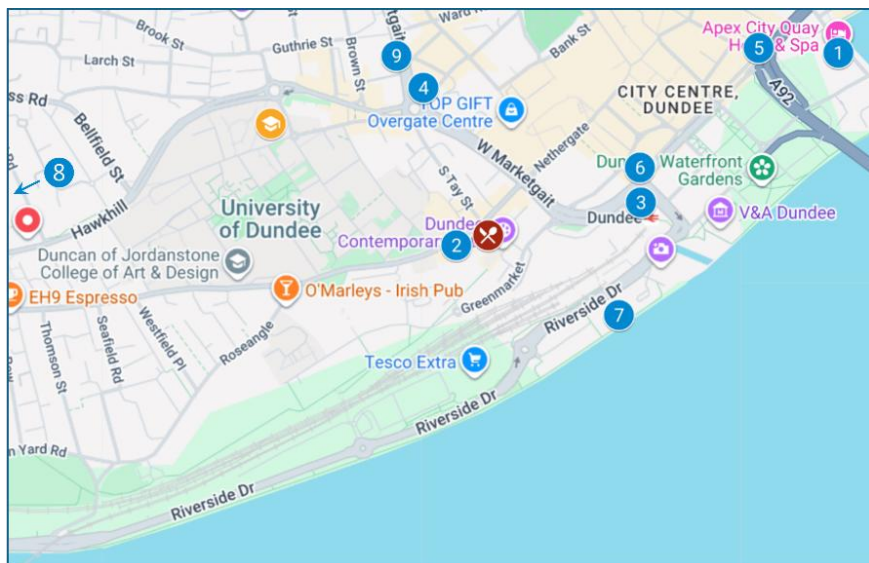
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Maps

Dundee City Centre/University



Hotels

- 1 Apex City Quay
- 2 Best Western Queens
- 3 Four Points Flex
- 4 Hampton by Hilton
- 5 Holiday Inn Express
- 6 Malmaison
- 7 Premier Inn
- 8 The Clarendon
- 9 Travelodge

Venue

-  Dalhousie Building

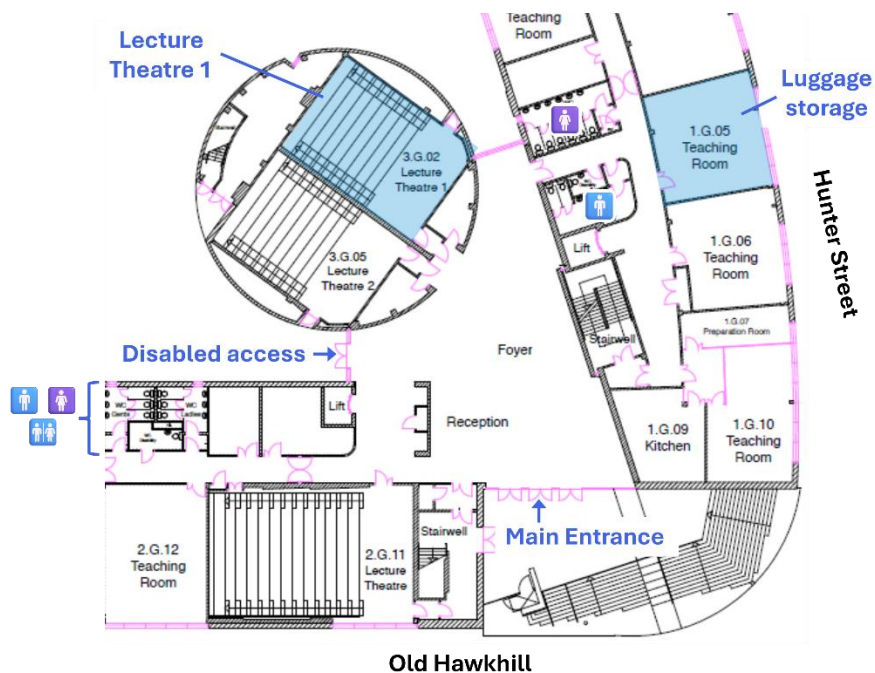
Conference Dinner

-  DCA

Venue: Lecture Theatre 1, Dalhousie Building, Old Hawkhill, Dundee DD1 5EN

Conference Dinner: Jute Café Bar, Dundee Contemporary Arts (DCA), 152 Nethergate, Dundee DD1 4DY

Venue (Dalhousie Building ground floor)



Wednesday 26 August

09:30-10:30 **Arrival/Registration**

10:30-10:50 **Welcome**

Keynote (chair: Martin Balcerowicz)

10:50-11:20 **Seth Davis** (University of York)
Natural variation links the circadian clock to thermomorphogenesis

Session: Temperature, photoperiod & the circadian clock
(chair: Martin Balcerowicz)

11:20-11:40 **Thijs van Loo** (Utrecht University)
Understanding thermomorphogenesis in short day & long day photoperiods through modelling

11:40-12:00 **Peter Danks** (University of York)
The Phytochrome polyploid puzzle: Utilizing TILLING derived phytochrome C mutants in bread wheat to assess homoeologue role under varying photoperiods

Flash talks: Transcriptional & epigenetic regulation
(chair: Martin Balcerowicz)

12:00-12:05 **Kirti Pandey** (CSIR-IHBT Palampur)
Epigenetic Regulation of Thermotolerance by Heat-Activated JM29 in Arabidopsis

12:05-12:10 **Orlando Maciel** (University Halle-Wittenberg)
Single-cell Transcriptomics for *A. thaliana* root thermomorphogenesis

12:10-12:15 **Amrita Singh** (ICGEB New Delhi)
Hidden underground: MED17 drives root adaptation to elevated temperature

12:15-12:20 **Alba Lloret Compañ** (IBMCP Valencia)
Single-cell insights into temperature responses in Arabidopsis

12:20-12:25 **Anran Zhang** (Ghent University)
Heat stress intolerance and induced chromocenter
decondensation in HIT4 and HIT4LIKE Arabidopsis mutants

12:30-13:30 **Lunch**

Session: Temperature & metabolism (chair: Martina Legris)

13:30-13:50 **Vanessa Wahl** (James Hutton Institute)
Sweet & Hot – Elucidating the sweet side of plant
temperature signalling

13:50-14:10 **Yongjian Qiu** (University of Mississippi)
Cell-type-specific metabolic responses underlie root
thermomorphogenesis

14:10-14:30 **Aashish Ranjan** (BRIC-NIPGR, New Delhi)
Genetic integration of ROS homeostasis in thermomorpho-
genesis

Flash talks: Development & phenotypic plasticity

(chair: Martina Legris)

14:30-14:35 **Monica Garcia Gomez** (Utrecht University)
Modelling the effects of high sublethal temperature on
shoot vascular patterning in *Arabidopsis thaliana*

14:35-14:40 **Asier Briones Moreno** (IBMCP Valencia)
Identifying Novel Players in Root Thermomorphogenesis

14:40-14:45 **Pravartika (Frankie) Prakash** (Nottingham University)
Nitrogen availability rewires temperature-dependent growth
programs

14:45-14:50 **Melisa Luquet** (University of Neuchâtel)
At the apex of thermomorphogenesis

14:50-14:55 **Buddhika Gayathri Pathirana** (University of Potsdam)
Temperature-Driven Phenotypic Plasticity of Cambial
Secondary Growth in Arabidopsis

15:00-15:40 **Coffee break**

Session: Development & phenotypic plasticity

(chair: Martina Legris)

- 15:40-16:00 **José A. Abelenda** (MBG CSIC)
Living on the edge. Molecular and environmental regulation of the leaf margin.
- 16:00-16:20 **Sinah Tabea Ehlert** (MPIMP Golm)
Influence of Temperature on Apomictic Seed Traits in Brassicaceae
- 16:20-16:40 **Kumud Saini** (SLCU)
Mechanical cues in thermomorphogenesis
- 16:40-17:00 **Joanna Edwards** (Durham University)
Brassinosteroid regulation of ambient temperature flowering in Arabidopsis

Thursday 27 August

Session: Post-transcriptional regulation (chair: Ive de Smet)

- 09:00-09:20 **Dominique Vuarambon** (University of Bern)
Early response to warm temperature in Arabidopsis
- 09:20-09:40 **Emma Hardy** (University of Dundee)
Upstream Open Reading Frames as Novel Regulators of Translation at Warm Ambient Temperatures
- 09:40-10:00 **Matt Jones** (University of Glasgow)
Chilling responses regulated by alternative splicing
- 10:00-10:20 **Jing Min Hua** (University of Bern)
RNA Fate Control by Nuclear Export and mRNA Decay Shapes Root Thermomorphogenesis

10:20-11:00 **Coffee break**

Session: Post-translational regulation I (chair: Ive de Smet)

- 11:00-11:20 **Martijn van Zanten** (Utrecht University)
Thermomorphogenesis regulation by PLATZ1 phosphorylation
- 11:20-11:40 **Shao-Li Yang** (VIB UGent)
Stress granules facilitate phosphorylation signaling in guard cells in response to heat stress
- 11:40-12:00 **Subiya Haque** (COS, Heidelberg University)
Drivers of phyB photobody thermostability

Flash talks: Post-transcriptional regulation (chair: Ive de Smet)

- 12:00-12:05 **Madhab Kumar Sen** (SLU)
Turning up the spliceosome to engineer heat-resilient plants
- 12:05-12:15 **Moray Smith** and **Aminin Taqir Akramin** (University of Dundee)
Translational regulation in the plant temperature response
- 12:15-12:20 **Borys Alexander Leon Alcivar** (University of Bern)
RNA turnover modulates root response to increasing temperatures

12:20-12:25 **Danny Geelen** (Ghent University)
Heat stress induces the formation of unreduced male gametes by targeting translation in Arabidopsis meiocytes

12:30-13:30 **Lunch**

Session: Post-translational regulation II (chair: Rodrigo Reis)

13:30-13:50 **Tilman Jacob** (University Halle-Wittenberg)
Root thermomorphogenesis is mediated by cell cycle-activating kinase TARGET OF RAPAMYCIN (TOR)

13:50-14:10 **Prakash Kumar Bhagat** (Durham University)
SUMO-SIM interaction regulates the thermomorphogenesis through PIF4

14:10-14:30 **Jian Xia** (University Halle-Wittenberg)
Functional proteoform variation in thermomorphogenesis master regulators

Flash talks: Post-translational regulation; stress responses
(chair: Rodrigo Reis)

14:30-14:35 **Yajie Zhang** (VIB-UGent)
Capturing high temperature-mediated dynamic changes in Arabidopsis proteome by using Limited-Proteolysis coupled with Mass Spectrometry (LiP-MS)

14:35-14:40 **Wei Liu** (Nanjing Normal university)
SOS2 regulates root thermomorphogenesis by promoting cell division in root apical meristem in *Arabidopsis thaliana*

14:40-14:45 **Kateřina Mácov** (CEITEC Masaryk University)
BOBBER proteins in plant development

14:45-14:50 **Zoe McFarlane** (University of Glasgow)
Molecular Adaptations to Climate Change: The Role of RVE2 in Plant Stress Responses

14:50-14:55 **Alanna McCutcheon** (University of Dundee)
Barley Surviving the Stress - Understanding Stress Induced Developmental Plasticity in Barley.

15:00-15:10 **Group photo**

15:10-15:50 **Coffee break**

Session: Heat stress & thermotolerance (chair: Rodrigo Reis)

15:50-16:10 **Eirini Kaiserli** (University of Glasgow)
Balancing thermomorphogenesis, thermotolerance and plant growth.

16:10-16:30 **Rituparna Goswami** (SLCU)
Transcriptional noise in heat stress response

16:30-17:00 **General discussion**

19:30-22:30 **Conference dinner**
Jute Café Bar, Dundee Contemporary Arts (DCA), 152
Nethergate, Dundee DD1 4DY

Friday 28 August

Session: Signalling crosstalk (chair: Kasper van Gelderen)

- 09:00-09:20 **Sreeramaiah N. Gangappa** (IISER Kolkata)
Light and temperature signaling crosstalk in plants
- 09:20-09:40 **Eirini Patitaki** (University of Glasgow)
The role of blue light signalling in thermomorphogenesis in *Arabidopsis thaliana*.
- 09:40-10:00 **Jelle Keijzer** (Utrecht University)
Natural variation of the EcoCore Arabidopsis panel under combined high temperature and drought
- 10:00-10:20 **Chandana Pandey** (Aarhus University & University of Copenhagen)
Root zone warming reveals an impact of rhizobacteria on thermomorphogenesis via growth-promoting signaling networks
- 10:20-11:00 **Coffee break**

Session: Phytohormones (chair: Kasper van Gelderen)

- 11:00-11:20 **Petra Marhava** (KAUST)
Auxin Dynamics under Temperature Stress
- 11:20-11:40 **Hongyan Liu** (VIB-UGent)
ABA catabolism regulates hypocotyl elongation during thermomorphogenesis
- 11:40-12:00 **Halidev Krishna Botta** (BRIC-NIPGR, New Delhi)
Deciphering cytokinin signalling crosstalk in root and shoot thermomorphogenesis

Flash talks: Signalling crosstalk; thermomorphogenesis beyond Arabidopsis (chair: Kasper van Gelderen)

- 12:00-12:05 **Kaijing Zhang** (IGZ Großbeeren)
Nitrogen availability rewires temperature-dependent growth programs

- 12:05-12:10 **Cèlia Anton Sales** (Wageningen University and Research)
Understanding Temperature Sensitivity in Cauliflower
- 12:10-12:15 **Moritz Sexauer** (University of Würzburg)
Fixing a challenge of climate change – Unraveling the impact of increased temperatures on nitrogen fixing symbiosis
- 12:15-12:20 **Heather Gulbrandsen** (University of Dundee)
Too Hot To Yield? Barley in a Warming Climate
- 12:20-12:25 **Saket Nikose** (IGZ Großbeeren)
Analysis of thermomorphogenic responses in *Capsella*
- 12:30-13:30 **Lunch**

Session: Thermomorphogenesis beyond Arabidopsis I
(chair: Carolin Delker)

- 13:30-13:50 **Aneesh Lale** (University of Nottingham)
Rhizospheric pH mediated thermo-signalling coordinates root growth under heat stress
- 13:50-14:10 **Cristina Nieto** (Plant Genetic Resources Centre, INIA-CSIC)
Wheat adaptation to rising temperature
- 14:10-14:30 **Heng Lim (Hailey) Tan** (University of York)
Uncovering how Brassicas respond to seasonal fluctuating temperature across developmental time
- 14:30-14:50 **Lieselotte Rauh** (University Halle-Wittenberg)
PIF4-regulating (b)HLH proteins as modulators of thermomorphogenesis in *Arabidopsis thaliana* and *Brassica rapa*
- 14:50-15:30 **Coffee break**

Session: Thermomorphogenesis beyond Arabidopsis II
(chair: Carolin Delker)

- 15:30-15:50 **Xuelel Lai** (National Key Laboratory of Crop Genetic Improvement, HZAU)
Thermosensory flowering in rice

Keynote (chair: Carolin Delker)

15:50-16:20 **Marcel Quint** (University Halle-Wittenberg)
Thermomorphogenesis in the wild – ecological relevance at last!

16:20-16:40 **Closing remarks**

Participants

Abelenda, José A.

MBG CSIC

ja.abelenda@mbg.csic.es

Aliu, Demilade

University of Glasgow

Demilade.Aliu@glasgow.ac.uk

Anton Sales, Cèlia

Wageningen University and
Research

celia1.anton-sales@wur.nl

Antoniou-Kourounioti, Rea

University of Glasgow

ReaLaila.AntoniouKourounioti@glasgow.ac.uk

Balcerowicz, Martin

University of Dundee

mbalcerowicz001@dundee.ac.uk

Bhagat, Prakash Kumar

Durham University

prakash.k.bhagat@durham.ac.uk

Botta, Halidev Krishna

BRIC-NIPGR, New Delhi

bhkrishna@nipgr.ac.in

Briones Moreno, Asier

IBMCP (UPV-CSIC) Valencia

asbrmo@ibmcp.upv.es

Danks, Peter

University of York

peter.danks@york.ac.uk

Davis, Seth J.

University of York

seth.davis@york.ac.uk

De Smet, Ive

VIB-UGent

ive.desmet@psb.vib-ugent.be

Decima Oneto, Cecilia

The James Hutton Institute

ceciliadecima.oneto@gmail.com

Delker, Carolin

University Halle-Wittenberg

Carolin.delker@landw.uni-halle.de

Drmić, Josipa

University of Glasgow

josipa.drmic196@gmail.com

Edwards, Joanna

Durham University

ppzd62@durham.ac.uk

Ehlert, Sinah Tabea

MPIMP Golm

ehlert@mpimp-golm.mpg.de

Eschen-Lippold, Lennart

University Halle-Wittenberg

lennart.eschen-lippold
@landw.uni-halle.de

Gangappa, Sreeramaiah N.

IISER Kolkata
ngsreeram@iiserkol.ac.in

Garcia Gomez, Monica

Utrecht University
m.l.garciagomez@uu.nl

Geelen, Danny

Ghent University
danny.geelen@ugent.be

Goswami, Rituparna

Sainsbury Laboratory Cambridge
University
rituparna.goswami@slcu.cam.ac.
uk

Gulbrandsen, Heather

University of Dundee
heather.gulbrandsen@hutton.ac.
uk

Haque, Subiya

COS, Heidelberg University
subiya.haque@cos.uni-
heidelberg.de

Hardy, Emma

University of Dundee
2517887@dundee.ac.uk

Hua, Jingmin

University of Bern
jingmin.hua@unibe.ch

Jacob, Tilman

University Halle-Wittenberg
tilman.jacob@landw.uni-halle.de

Jones, Matt

University of Glasgow
matt.jones@glasgow.ac.uk

Kaiserli, Eirini

University of Glasgow
eirini.kaiserli@glasgow.ac.uk

Keijzer, Jelle

Utrecht University
j.j.keijzer2@uu.nl

Kerr, Lydia

University of York
lydia.kerr@york.ac.uk

Lai, Xuelei

National Key Laboratory of Crop
Genetic Improvement
xuelei_lai@hotmail.com

Lale, Aneesh

Nottingham University
Aneesh.lale1@nottingham.ac.uk

Legris, Martina

University of Neuchâtel
martina.legris@unine.ch

Leon Alcivar, Borys Alexander

University of Bern
borys.leonalcivar@unibe.ch

Liu, Wei

University of Glasgow
Wei.Liu.3@glasgow.ac.uk

Liu, Wei

Nanjing Normal university
Lyccwz@163.com

Liu, Hongyan

VIB-UGent
holiu@psb.ugent.be

Lloret Compañ, Alba

IBMCP Valencia
allocalom@ibmcp.upv.es

Luquet, Melisa

University of Neuchâtel
melisaluquet@gmail.com

Maciel, Orlando

University Halle-Wittenberg
orlando.maciell@landw.uni-halle.de

Máková, Kateřina

CEITEC Masaryk University
katerina.macova@ceitec.muni.cz

Maes, Céleste

KU Leuven
celeste.maes1@student.kuleuven.be

Marhava, Petra

KAUST
petra.marhava@kaust.edu.sa

McCutcheon, Alanna

University of Dundee
190003528@dundee.ac.uk

McFarlane, Zoe

University of Glasgow
zgmcfarlane@gmail.com

Nieto, Cristina

Plant Genetic Resources Centre
(INIA-CSIC)
cristina.nieto@csic.es

Nikose, Saket

IGZ Großbeeren
saket.nikose333@gmail.com

ORiordan, Patricia

The James Hutton Institute
Patricia.ORiordan@hutton.ac.uk

Pandey, Kirti

CSIR-Institute of Himalayan
Bioresource Technology
97.kirtipandey@gmail.com

Pandey, Chandana

Aarhus University & University of
Copenhagen
cp@plen.ku.dk

Pathirana, Buddhika

University of Potsdam
buddhika.pathirana@uni-potsdam.de

Patitaki, Eirini

University of Glasgow
eirini.ptk@gmail.com

Prakash, Pravartika (Frankie)

Nottingham University
Pravartika.prakash@nottingham.
ac.uk

Prasetyaningrum, Putri

University Halle-Wittenberg
putri.prasetyaningrum@landw.uni-
halle.de

Qiu, Yongjian

University of Mississippi
yqiu@olemiss.edu

Quint, Marcel

University Halle-Wittenberg
marcel.quint@landw.uni-halle.de

Ranjan, Aashish

BRIC-NIPGR, New Delhi
aranjan@nipgr.ac.in

Rauh, Lieselotte

University Halle-Wittenberg
lieselotte.rauh@landw.uni-
halle.de

Reis, Rodrigo

University of Bern
rodrigo.reis@unibe.ch

Saini, Kumud

Sainsbury Laboratory Cambridge

University

ks2046@cam.ac.uk

Salleses, Leonardo

University of Dundee
lsalleses001@dundee.ac.uk

Schmid, Markus

Swedish University of Agricultural
Sciences
Markus.Schmid@slu.se

Sen, Madhab Kumar

Swedish University of Agricultural
Sciences
madhab.sen@slu.se

Sexauer, Moritz

University of Würzburg
moritz.sexauer@uni-
wuerzburg.de

Singh, Amrita

ICGEB, New Delhi
amrita@icgeb.res.in

Smith, Moray

University of Dundee
msmith003@dundee.ac.uk.

Tan, Heng Lim (Hailey)

University of York
stc541@york.ac.uk

Taqrir Akramin, Aminin

University of Dundee
180022438@dundee.ac.uk

van der Hoven, Thomas

University of Glasgow
2545517v@student.gla.ac.uk

van Gelderen, Kasper

COS, Heidelberg University
kasper.van.gelderen@cos.uni-heidelberg.de

van Loo, Thijs

Utrecht University
t.h.p.vanloo@uu.nl

van Zanten, Martijn

Utrecht University
m.vanzanten@uu.nl

Vuarambon, Dominique

University of Bern
dominique.vuarambon@unibe.ch

Wahl, Vanessa

The James Hutton Institute
vanessa.wahl@hutton.ac.uk

Xia, Jian

University Halle-Wittenberg
jian.xia@landw.uni-halle.de

Yang, Shao-Li

VIB-UGent
shyan@psb.vib-ugent.be

Zhang, Yajie

VIB-UGent
yazha@psb.ugent.be

Zhang, Kaijing

IGZ Großbeeren
zhang@igzev.de

Zhang, Anran

Ghent University
Anran.Zhang@UGent.be

Zhu, Tingting

VIB-UGent
tingting.zhu@psb.vib-ugent.be

Notes

Imprint

Dr Martin Balcerowicz
University of Dundee
Faculty of Life Sciences
DD1 4HN Dundee
United Kingdom



**University
of Dundee**