



University
of Dundee

Joint 2025 Autophagy UK and Proteostasis UK conference

03 - 05 June 2025

Organising Committee

Steven Spoel, Adrien Rousseau, Beatriz Orosa, Simon
Wilkinson, Yogesh Kulathu, Ian Ganley and Amos Liang

Tuesday 3rd June

- 12:00-14:00 **Registration and Lunch**
Atrium, Wellcome Trust Building, School of Life Sciences
- 14:00-14:15 **Welcome: Professor Ian Ganley (University of Dundee)**
Large Lecture Theatre, Medical Sciences Institute, School of Life Sciences
- 14:15-15:00 **Professor Sharon Tooze (The Crick)**
Keynote Lecture: Autophagy, it's all about the ATG machinery and membranes
- Session I** **Molecules, membranes and metabolism**
Chair: Professor John Lane (University of Bristol)
Large Lecture Theatre, Medical Sciences Institute, School of Life Sciences
- 15:00-15:15 **Ella Knüpling (The Crick)**
Short Talk: Atg1-mediated remodelling of protein-protein interactions in Atg9-containing vesicles drives Autophagosome Formation
- 15:15-15:35 **Dr Bernadette Carroll (University of Bristol)**
Invited Talk: Characterising a new lipid droplet protein
- 15:35-15:50 **Dr David G McEwan (CRUK Scotland Institute)**
Short Talk: ATG2 Loss Suppresses Tumour Growth via Lipid Imbalance and PINK1-TBK1-Driven Inflammatory Cell Death
- 15:50-16:05 **Niall Wilson (Newcastle University)**
Short Talk: AMPK suppresses autophagy initiation in NAD-depleted cells
- 16:05-16:45 **Coffee break**
Atrium, Wellcome Trust Building, School of Life Sciences
- Session II** **Selective autophagy and physiological implications**
Chair: Professor Viktor Korolchuk (Newcastle University)
Large Lecture Theatre, Medical Sciences Institute, School of Life Sciences
- 16:45-17:05 **Dr Amos Liang (University of Dundee)**
Invited Talk: Selective ER-phagy during EMT: A Role of FAM134A in Regulating Secretory Homeostasis
- 17:05-17:20 **Dr Natalia Jimenez Moreno (University of Edinburgh)**
Short Talk: Liquid condensates of PRKAR1A facilitate cell morphological transitions via FAM134B and ER-phagy
- 17:20-17:35 **Dr Madhu Kollareddy (University of Bristol)**
Short Talk: Molecular interplay between autophagy and the integrated stress response thresholds cellular stress resilience
- 17:35-17:50 **Anna Rappe (University of Helsinki)**
Short Talk: Spatiotemporal dynamics of physiological mitophagy in aging brain circuits
- 17:50-18:05 **Elena Lavado Fernandez (University of Salamanca)**
Short Talk: Autophagy activation improves inflammatory phenotype in a chronic alcoholic consumption model
- 19:00-21:00 **Social and Light Dinner**
Duke's Corner, 13 Brown Street, Dundee DD1 5EG

Wednesday 4th June

- 09:00-9:15 **Arrival**
Atrium, Wellcome Trust Building, School of Life Sciences
- 09:15-10:00 **Professor Terje Johansen (Arctic University of Norway)**
Keynote Lecture: It takes two to tango: Evolution and Interactions of Selective Autophagy Receptors NBR1 and p62/SQSTM1
Large Lecture Theatre, Medical Sciences Institute, School of Life Sciences
- Session III Autophagy receptors and ubiquitylation**
Chair: Professor Ioannis Nezis (University of Warwick)
Large Lecture Theatre, Medical Sciences Institute, School of Life Sciences
- 10:00-10:15 **Dr Alexandros Katranidis (Forschungszentrum Jülich)**
Short Talk: Structural organization of p62 filaments
- 10:15-10:35 **Professor Michael Clague (University of Liverpool)**
Invited Talk: Integrating control of mitophagy and pexophagy via the ubiquitin system
- 10:35-11:00 **Coffee Break and Sponsor stands**
Atrium, Wellcome Trust Building, School of Life Sciences
- Session IV Targeting autophagy and non-canonical pathways**
Chair: Professor Vignir Helgason (University of Glasgow)
Large Lecture Theatre, Medical Sciences Institute, School of Life Sciences
- 11:00-11:20 **Dr William Farnaby (University of Dundee)**
Invited Talk: Small molecule induced proximity approaches for CNS disease concepts
- 11:20-11:35 **Dr Mateo Hoare (University of Cambridge)**
Short Talk: Engineering Synthetic Phase-Separating Proteins to target the Autophagy-Lysosome Pathway
- 11:35-11:50 **Dr Rachel Ulferts (The Crick)**
Short Talk: IAV M2 proton channel activity targets autophagy protein LC3 to Rab11-positive endosomes
- 11:50-12:05 **Sara Chelaghma (University of Cambridge)**
Short Talk: Atg8 performs an additional, non-canonical function in apicomplexan parasites
- 12:05-14:00 **Lunch, Sponsor Stands and Poster session I (see page 7)**
Atrium, Wellcome Trust Building, School of Life Sciences
- Session V Protein degradation/Proteolysis**
Chair: Ritwick Sawarkar (University of Cambridge)
Large Lecture Theatre, Medical Sciences Institute, School of Life Sciences
- 14:00-14:40 **Professor Yasin Dagdas (University of Vienna)**
Keynote Lecture: Decoding Cellular Quality Control Mechanisms Through Evolutionary Cell Biology
- 14:40-15:00 **Dr Yu Ye (Imperial College)**
Invited Talk: Proteasomes form a novel type of transient aggregate-associated droplets

Wednesday 4th June continued

- 15:00-15:15 **Dr Adam Grieve (Bristol)**
Short Talk: Proteostasis in membranes: rhomboid proteases at synapses
- 15:15-15:40 **Coffee Break and Sponsor stands**
Atrium, Wellcome Trust Building, School of Life Sciences
- Session VI Protein regulation, ageing, Ub-mediated regulation**
Chair: Dr Susana R. Louros (University of Edinburgh)
Large Lecture Theatre, Medical Sciences Institute, School of Life Sciences
- 15:40-16:00 **Professor David Rubinsztein (University of Cambridge)**
Invited Talk: Unexpected links between autophagy and proteasomal pathways and disease implications.
- 16:00-16:20 **Professor Freddie Theodoulou (Rothamsted Research)**
Invited Talk: What controls protein abundance? Exploiting plant natural variation and multi-omics to uncover regulatory mechanisms
- 16:20-16:35 **Tanya Mathur (University of Edinburgh)**
Short Talk: Dynamic ubiquitination mediates immunity in Arabidopsis thaliana
- 16:35-16:55 **Professor John Christianson (University of Oxford)**
Invited Talk: Remodelling of ER-associated degradation by the Unfolded Protein Response
- Session VII Response to misfolded proteins, proteotoxic stress**
Chair: Dr Rebecca Taylor (University of East Anglia)
Large Lecture Theatre, Medical Sciences Institute, School of Life Sciences
- 17:00-17:20 **Dr Juliette Fedry (LMB, Cambridge)**
Invited Talk: Visualising protein biogenesis in mammalian cells with cryo electron tomography
- 17:20-17:35 **Dr Janin Lautenschlager (Cambridge Institute for Medical Research, Cambridge)**
Short Talk: Protein Phase-Separation at the Pre-synapse - Alpha-Synuclein in health and disease
- 17:35-17:50 **Dr Bolanle Olabiyi (Babraham Institute)**
Short Talk: Uncovering extracellular proteostasis factors that promote microglial amyloid- β uptake and healthy ageing
- 17:50-18:10 **Dr Della David (Babraham Institute)**
Discussion on BBSRC funding
- 18:30-23:00 **Conference Dinner and Ceilidh**
The High Mill, Verdant Works, West Henderson's Wynd, Dundee DD1 5BT

Thursday 5th June

- 09:00-9:10 **Arrival**
Atrium, Wellcome Trust Building, School of Life Sciences
- Session VIII Chaperones, protein folding**
Chair: Dr Adrien Rousseau (University of Dundee)
Large Lecture Theatre, Medical Sciences Institute, School of Life Sciences
- 09:20-09:40 **Dr Ritwick Sawarkar (University of Cambridge)**
Invited Talk: Cellular pathways for sensing environmental stress/toxins
- 09:40-10:00 **Professor David Balchin (Crick)**
Invited Talk: How the ribosome solves difficult folding problems
- 10:00-10:15 **Dr Rahul Samant (Babraham Institute, Cambridge)**
Short Talk: Divergence in proteostasis strategies underpins the stress resilience of senescent human cells
- 10:15-10:30 **Rushali Kamath (Indian Institute of Technology Mandi, India)**
Short Talk: Deciphering the tissue-specificity of small heat shock protein expression during stress and ageing in Caenorhabditis elegans
- 10:30-11:00 **Coffee break**
Atrium, Wellcome Trust Building, School of Life Sciences
- Session IX Protein Translation, ribosomes and protein biogenesis**
Chair: Dr Linda Sinclair (University of Dundee)
Large Lecture Theatre, Medical Sciences Institute, School of Life Sciences
- 11:00-11:15 **Dr Daniela Ricci (Pasteur Institute)**
Short Talk: Targeting LC Amyloidosis through selective Sec61 inhibition
- 11:15-11:30 **Dr Martina Foglizzo (University of Leeds)**
Short Talk: Investigating the structural and molecular mechanisms of a new ATPase complex, 55LCC
- 11:30-11:50 **Professor Graham Pavitt (University of Manchester)**
Invited Talk: The La related protein Slf1 interacting with translating ribosomes promotes cell survival during oxidative stress
- 11:50-12:05 **Dr Glenn Masson (University of Dundee)**
Short Talk: Structural Mechanism of HRI activation and inhibition
- 12:05-12:25 **Professor Vicky Cowling (CRUK Scotland Institute, Glasgow)**
Invited Talk: mRNA cap methylation, Transcription regulation and Proteostasis
- 12:30-14:30 **Lunch and Poster session II (see page 7)**
Atrium, Wellcome Trust Building, School of Life Sciences
- Session X Transformative technologies in proteostasis**
Chair: Professor Steven Spoel (University of Edinburgh)
Large Lecture Theatre, Medical Sciences Institute, School of Life Sciences
- 14:30-14:50 **Professor Alessio Ciulli (University of Dundee)**
Invited Talk: Development of BromoTag and BromoCatch: new protein tag systems for small-molecule induced protein degradation and labeling in cells

Thursday 5th June continued

- 14:50-15:05 **Dr Darcie Mulhearn (PhoreMost, Cambridge)**
Short Talk: PhoreMost GlueSEEKER® Platform - Revolutionising Molecular Glue Discovery Through High-Throughput Neomorphic Remodelling of Effector Proteins
- 15:05-15:20 **Dr Raja Nirujogi (University of Dundee)**
Short Talk: Defining Organelle and Spatial proteomes using Ultra-sensitive mass spectrometry
- 15:20 - 15:40 **Professor Renier van der Hoorn (University of Oxford)**
Invited Talk: Proteases and inhibitors at the plant-pathogen interface
- 15:45-16:15 **Coffee break**
Atrium, Wellcome Trust Building, School of Life Sciences
- Session XI** **Proteostasis in Ageing and Disease**
Chair: Dr Simon Cook (Babraham Institute)
Large Lecture Theatre, Medical Sciences Institute, School of Life Sciences
- 16:15-16:30 **Dr Jane Dudley (Crick Institute, London)**
Short Talk: Identification of RING pseudoligases in the TRIM protein family
- 16:30-16:50 **Dr Beatriz Orosa (University of Edinburgh)**
Invited Talk: Protein ubiquitination in plant disease
- 16:50-17:10 **Professor Will McEwan (UK DRI, Cambridge)**
Invited Talk: Cytosolic protein aggregates can be selectively targeted for degradation via TRIM21
- 17:10-17:50 **Professor Anne Bertolotti (MRC Laboratory of Molecular Biology)**
Keynote Lecture: Therapeutic manipulations of phosphatases and kinases controlling protein quality control systems for neurodegenerative diseases: From the bench, to the clinic and back.
- 17:50-18:15 **Conference brainstorming, closing remarks, poster prizes**
Large Lecture Theatre, Medical Sciences Institute, School of Life Sciences

Poster Sessions

Poster session I

Wednesday 4th June, 12:05-14:00

1. Colin Adrain
2. Shalini Agarwal
3. David Alliband
4. Dimitris Aspri
5. Eleanor Attridge
6. Uxue Ballesteros
7. Juliette Barber
8. Aniketh Bishnu
9. Karolina Brzezinska
10. Francesco Capriglia
11. Chiara Cazzaniga
12. Di Chen
13. Ashley Davis
14. Marisa Di Monaco
15. Belinda Hall
16. George Hallett
17. Riko Hatakeyama
18. Joanna Koszela
19. Logesvaran Krshnan
20. James Le Cornu
21. Catherine Lindon
22. Gailing Ma
23. Amaya Malmalabaduge
24. Rebecca Marrow

Poster session II

Thursday 5th June, 12:30-14:30

1. Anfas Muhammed
2. Caitlan Onabanjo
3. Qiaona Pan
4. Sojung Park
5. Marian Peteri
6. Anna Rappe
7. Joshua Ratliffe
8. William Ritchie
9. Carsten Sachse
10. Bushra Saeed
11. Daisy Sawdon
12. Linda Sinclair
13. Francois Singh
14. Sungmin Son
15. Natalia Sanchez-Soriano
16. Jiangyu Tang
17. Shane Terry
18. Searlait Thom
19. Maximilian Thompson
20. Dyana Turk
21. Lea Wilhelm
22. Lana Willoughby
23. Keely Xia
24. Juan Zapata Munoz
25. Elin Zatterman



University
of Dundee

MRC PPU
University of Dundee
Sir James Black Centre
Dundee

t: +44 (0)1382 385422385422
e: mrc-admin@dundee.ac.uk