



University
of Dundee

Protein Degradation in Focus

A Special Symposium to
Celebrate the Opening of
CeTPD in Dundee

19 - 22 May 2024

Scientific organisers: Alessio Ciulli, Craig Crews, Charlotte
Crowe, Brenda Schulman and Valentina Spiteri

Sunday 19th May 2024

- 15.00 - 18.30 Registration
Atrium, Wellcome Trust Building, School of Life Sciences
- 17.00 - 18.30 Networking drinks
Atrium, Wellcome Trust Building, School of Life Sciences
- 19.00 Speakers' dinner (invitation only)
University House

Monday 20th May 2024

- 09.00 - 10.00 Coffee and pastries served
Atrium, Wellcome Trust Building, School of Life Sciences
- 10.00 - 10.15 Welcome with Shane O'Neill, Deputy Vice-Chancellor & Provost of the University of Dundee
Large Lecture Theatre, Medical Sciences Institute, School of Life Sciences
- 10.15 - 12.00 **Therapeutic Development I**, Session Chair: Alessio Ciulli
Large Lecture Theatre, Medical Sciences Institute, School of Life Sciences
- 10.15 - 11.00 **Craig Crews**, Yale University, USA (Keynote)
Tik-TAC-Toe: A Heterobifunctional for Every Need
- 11.00 - 11.20 **Mikihiko Naito**, University of Tokyo, Japan
Protein degradation induced by IAP-based PROTACs (SNIPERs)
- 11.20 - 11.40 **Ben Ebert**, Dana-Farber Cancer Institute, USA
Targeted protein degradation for the modulation of transcription
- 11.40 - 12.00 **Shaomeng Wang**, University of Michigan, USA
Targeting undruggable proteins through degradation
- 12.00 - 14.00 **Poster Session I** and Buffet Lunch
Atrium, Wellcome Trust Building, School of Life Sciences
- 14.00 - 15.45 **Discovery Chemistry & Design I**, Session Chair: Dafydd Owen
Large Lecture Theatre, Medical Sciences Institute, School of Life Sciences
- 14.00 - 14.20 **Dan Nomura**, University of California, Berkeley, USA
Reimagining Druggability Using Chemoproteomic Platforms
- 14.20 - 14.40 **Fleur Ferguson**, University of California, San Diego, USA
Interrogating the Druggable Proteome with Proximity Pharmacology
- 14.40 - 15.00 **William Farnaby**, University of Dundee, UK
Pursuing targeted protein degradation for investigating CNS disease
- 15.00 - 15.15 **Laura Serini**, University Medical Center Utrecht, The Netherlands
Short Talk: A predictive screening platform for targeted degradation of cell surface proteins using SureTACs
- 15.15 - 15.30 **Matthias Hinterdorfer**, Research Center for Molecular Medicine (CeMM), Austria
Short Talk: Targeted protein degradation via intramolecular bivalent glues
- 15.30 - 15.45 **Katherine McPhie**, The Francis Crick Institute, UK
Short Talk: Chemical Biology Approaches to Explore the Ligandability of TRIM E3 Ligases
- 15.45 - 16.30 Tea and Coffee
Atrium, Wellcome Trust Building, School of Life Sciences
- 16.30 - 18.15 **Molecular Mechanisms & Biology I**, Session Chair: Ian Churcher
Large Lecture Theatre, Medical Sciences Institute, School of Life Sciences
- 16.30 - 16.50 **Yifat Merbl**, The Weizmann Institute of Science, Israel
Proteasome Profiling: global views of protein degradation
- 16.50 - 17.10 **Ronald Hay**, University of Dundee, UK
Targeted degradation of the Promyelocytic Leukaemia protein by arsenic
- 17.10 - 17.30 **Keriann Backus**, University of California, Los Angeles, USA
Chemoproteogenomic approaches to stratify the functional and therapeutically relevant proteome
- 17.30 - 17.45 **Martin Volker Schmiedel**, Boehringer Ingelheim, Austria
Short Talk: Homo-BacPROTAC-induced degradation of ClpC1 as a strategy against drug-resistant mycobacteria
- 17.45 - 18.00 **Ella Livnah**, Weizmann Institute of Science, Israel

Short Talk: Rationally designed bifunctional ligands induce intracellular precipitation of homomeric protein targets

18.00 – 18.15 **Alejandro Rojas-Fernandez**, Universidad Austral de Chile, Chile

Short Talk: Specific proteolysis mediated by a p97-directed proteolysis-targeting chimera (PROTAC)

Walk to the Centre for Targeted Protein Degradation, 1 James Lindsay Place

18.30 CeTPD Celebration: Opening Ceremony, Tours, & Pizza, Gelato & Drinks
Centre for Targeted Protein Degradation

Tuesday 21st May 2024

- 08.30 – 09.30 Coffee and pastries served
Atrium, Wellcome Trust Building, School of Life Sciences
- 09.30 – 1.00 **Molecular Mechanisms & Biology II, Session Chair: Craig Crews**
Large Lecture Theatre, Medical Sciences Institute, School of Life Sciences
- 09.30 – 10.10 **Brenda Schulman**, Max Planck Institute of Biochemistry, Germany (Keynote)
Signaling through the ubiquitin-proteasome system
- 10.10 – 10.30 **Eric Fischer**, Dana-Farber Cancer Institute & Harvard Medical School, USA
Lessons from protein design and directed evolution for degrader discovery
- 10.30 – 10.50 **Bekky Feltham**, The Walter and Eliza Hall Institute for Medical Research, Australia
Unlocking the Potential of Tag-targeting PROTACs: In Vivo Discoveries and Novel Perspectives on Substrate Ubiquitination
- 10.50 – 11.10 Vendor sponsors' flash talks
- 11.10 – 11.40 **Poster Session II & Tea and Coffee**
Atrium, Wellcome Trust Building, School of Life Sciences
- 11.40– 14.00 Buffet Lunch served (**Poster Session II** continues)
Atrium, Wellcome Trust Building, School of Life Sciences
- 13.00 – 14.00 **Careers in Academia & Industry Round Tables**
Centre for Targeted Protein Degradation
- 14.00– 15.30 **Discovery Chemistry & Design II, Session Chair: Kirsten McAulay**
Large Lecture Theatre, Medical Sciences Institute, School of Life Sciences
- 14.00– 14.20 **Ivan Dikić**, Goethe University Frankfurt and Max Planck Institute for Biophysics, Germany
Identification of novel molecular glue degraders
- 14.20– 14.40 **Christina Woo**, Harvard University, USA
Chemical biology studies of the thalidomide-binding domain of cereblon
- 14.40– 15.00 **Michael Erb**, Scripps Research, USA
Systematic remodeling of protein-ligand surfaces for the prospective discovery of molecular glues
- 15.00– 15.15 **Johanna Huchting**, Fraunhofer Institute for Translation Medicine and Pharmacology, Germany
Short Talk: Integrated screening and knowledge platform for molecular degrader discovery
- 15.15– 15.30 **Mikołaj Ślabicki**, Dana-Farber Cancer Institute, USA
Short Talk: Expanding the human zinc finger degrome targeted by glutarimide analogs through CRBN
- 15.30 – 16.15 Tea and Coffee
Atrium, Wellcome Trust Building, School of Life Sciences
- 16.15 – 18.00 **Molecular Mechanisms & Biology III, Session Chair: Hannah Maple**
Large Lecture Theatre, Medical Sciences Institute, School of Life Sciences
- 16.15 – 16.35 **Georg Winter**, Research Center for Molecular Medicine (CeMM), Austria
Identification and characterization of small-molecule degraders
- 16.35 – 16.55 **Nicolas Thomä**, Swiss Federal Institute of Technology (EPFL), Switzerland
The wonderful (and mysterious) world of molecular glues
- 16.55 – 17.15 **Gopal Sapkota**, University of Dundee, UK
Targeted dephosphorylation of phospho-proteins through induced-proximity
- 17.15 – 17.30 **Charlotte Crowe**, University of Dundee, UK
Short Talk: Mechanism of degrader-targeted protein ubiquitinability
- 17.30 – 17.45 **Jiho Park**, Dana-Farber Cancer Institute, USA

17.45 - 18.00 *Short Talk: Polymerization of ZBTB transcription factors regulates chromatin occupancy*
David Nie, University of Toronto, Canada
Short Talk: Recruitment of FBXO22 for Targeted Degradation of NSD2

18.00 - 19.00 Free time

19.00 Symposium Gala Dinner and Ceilidh
The Invercarse Hotel

Wednesday 22nd May 2024

- 08.30 – 09.30 **Breakfast Social** in association with the Women in TPD Network (registration only)
The Street, School of Life Sciences
- Coffee and pastries served
Atrium, Wellcome Trust Building, School of Life Sciences
- 09.30 – 10.50 **Discovery Chemistry & Design III**, Session Chair: *Brenda Schulman*
Large Lecture Theatre, Medical Sciences Institute, School of Life Sciences
- 09.30 – 10.10 **Alessio Ciulli**, University of Dundee, UK (Keynote)
We keep degrading! CeTPD's past, present and future
- 10.10 – 10.30 **Cristina Mayor-Ruiz**, IRB Barcelona, Spain
Degraders: unlocking drug discoveries and navigating resistance challenges
- 10.30 – 10.50 **Stefan Knapp**, Goethe University and SGC Frankfurt, Germany
Development and validation of PROTACs and E3 ligase ligands as selective chemical tools
- 10.50 – 11.10 Morning break with Tea and Coffee
Atrium, Wellcome Trust Building, School of Life Sciences
- 11.10 – 12.00 **Careers in Academia & Industry Network Panel**
Large Lecture Theatre, Medical Sciences Institute, School of Life Sciences
- 12.00– 14.00 **Poster Session III** and Buffet Lunch
Atrium, Wellcome Trust Building, School of Life Sciences
- 14.00 – 15.45 **Therapeutic Development II**, Session Chair: *Valentina Spiteri*
Large Lecture Theatre, Medical Sciences Institute, School of Life Sciences
- 14.00 – 14.20 **Ingrid Wertz**, Lyterian Therapeutics, USA
Co-opting the Ubiquitin System for Therapeutic Benefit
- 14.20 – 14.40 **Danette Daniels**, Foghorn Therapeutics, USA
Targeting chromatin regulatory proteins and disease with therapeutic degraders
- 14.40 – 15.00 **Angela Cacace**, Arvinas, USA
Advancements in PROTAC technology: breaking down barriers in Neuroscience targeted drug development
- 15.00 – 15.15 **Andrea Testa**, Amphista Therapeutics, UK
Short Talk: Degradation of BRD9 by a novel “targeted glue”
- 15.15 – 15.30 **Vesna Vetma**, University of Dundee, UK
Short Talk: Targeting cancer with small molecule pan-KRAS degraders
- 15.30 – 15.45 **Rebecca Stevens**, GSK, UK
Short Talk: Direct-to-Biology for High-Throughput PROTAC Synthesis and Biological Evaluation
- 15.45–16.00 Concluding remarks
Large Lecture Theatre, Medical Sciences Institute, School of Life Sciences



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