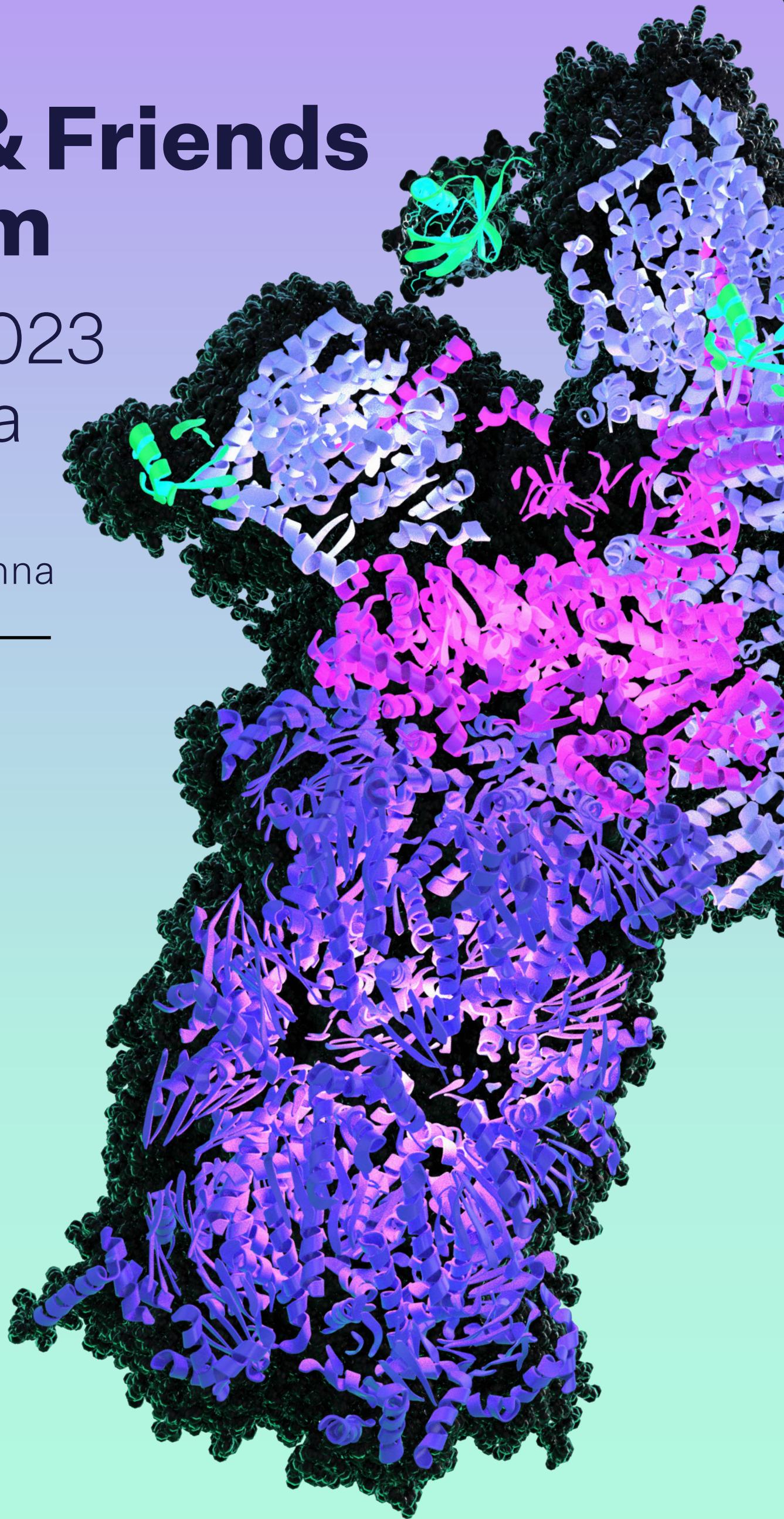


# Ubiquitin & Friends Symposium

April 27–28, 2023  
Vienna, Austria

Van Swieten Hall of the  
Medical University of Vienna

More Information:  
[protein-degradation.org](http://protein-degradation.org)



organized by the SFB

**TARGETED  
PROTEIN  
DEGRADATION**

funded by

**FWF**

Der Wissenschaftsfonds.

MAX  
PERUTZ  
LABS

universität  
wien

MEDIZINISCHE  
UNIVERSITÄT WIEN

GMI  
GREGOR MENDEL INSTITUTE  
OF MOLECULAR PLANT BIOLOGY

FIMBA  
Institute of Molecular Biotechnology  
of the University of Vienna

IMP  
Research Institute of  
Molecular Pathology

CeMM

imb  
Institute of  
Molecular Biology

Vienna  
BioCenter



## Sponsors



## Sponsors

**MAX  
PERUTZ  
LABS** VIENNA



**CeMM**

---

## Organizer

Consortium of the SFB F79

**TARGETED  
PROTEIN  
DEGRADATION**

funded by

**FWF**  
Der Wissenschaftsfonds.

### **Organizing Institution**

Consortium of the SFB F79 “Targeted Protein Degradation”,  
Lead institution: University of Vienna.

### **Conference Coordinators**

Sascha Martens, Zahra Ayatollahi and members of the SFB F79

### **Student/PostDoc Organizing Committee**

Helen Belalcazar, Victoria Faas, Luca Ferrari, Lilian Kirwan

Special Thanks to Johannes Tkadletz from the IMP/IMBA Graphics department.

Contact: [ubiandfriends-symposium@maxperutslabs.ac.at](mailto:ubiandfriends-symposium@maxperutslabs.ac.at)

Homepage: [www.protein-degradation.org/symposium](http://www.protein-degradation.org/symposium)

Twitter: @SFB\_TPDvienna

Symposium hashtag: #ubfriends2023

# Program

## THURSDAY, 27 APRIL 2023

- 08:00-09:00 Registration and poster setup  
09:00-09:05 Welcome & Opening remarks (by Sascha Martens)

### SESSION 1 Molecular Insights into the Ubiquitin Proteasome System (chair: Tim Clausen)

- 09:05-09:35 **Satpal Virdee** (University of Dundee)  
*New E3 ligase architectures, mechanisms and substrates*
- 09:35-10:05 **Simona Polo** (IFOM, Milan)  
*Unleashing the Power of NEDD4: Insights into the Structural Basis and Mechanisms of Action*
- 10:05-10:20 **Marcin Suskiewicz** (CBM, CNRS Orléans)  
*New insights into the catalysis of modification reactions*
- 10:20-10:50 Coffee break
- 10:50-11:20 **Minglei Zhao** (University of Chicago)  
*Human p97 — what we know and what we do not know*
- 11:20-11:35 **Ami Navon**, Weizmann Institute of Science, Rehovot  
*An inherent oxidative switch regulates proteasome reprogramming*
- 11:35-12:05 **Hidde Ploegh** (Boston Children's Hospital)  
*Nanobodies to probe the network of E2-type Ub-conjugating enzymes*
- 12:05-12:40 Flash talks 1 – odd poster numbers
- 12:40-14:10 **Lunch with poster session 1** (odd numbers)
- 14:10-14:20 Group photo

### SESSION 2 Autophagy & Quality Control in Cellular Compartments (chair: Elif Karagöz)

- 14:20-14:50 **Florian Wilfling** (Max Planck Institute of Biophysics, Frankfurt)  
*Autophagosome biogenesis - a structural perspective*
- 14:50-15:20 **Noboru Mizushima** (University of Tokyo)  
*Ubiquitination of phospholipids and new topics in autophagy*
- 15:20-15:35 **David Teis** (Medical University of Innsbruck)  
*The defective for SREBP cleavage (Dsc) complex mediates membrane quality control by degrading orphaned proteins*

- 15:35-16:00 Coffee break
- 16:00-16:30 **Elke Deuerling** (University of Konstanz)  
*Unraveling the Complexities of Protein Transport: NACs UBA Domain as Molecular Regulator of ER Transport*
- 16:30-16:45 **Piotr Bragoszewski** (Nencki Institute of Experimental Biology, Warsaw)  
*Discrete roles of the proteasome in the quality control of the arrested mitochondrial protein import intermediates in yeast and human cells*
- 16:45-17:20 Flash talks 2 – even poster numbers
- 17:20-19:15 Wine Reception sponsored by **Proxygen** with **poster session 2** (even numbers)
- 19:30 Conference dinner at [Stiegl Ambulanz](#) (see map section below)



## FRIDAY, 28 APRIL 2023

### SESSION 3 Proteostasis in Aging and Disease

(chair: Noelia Urbán)

- 09:00-09:30 **Seda Koyuncu** (CECAD – Cluster of Excellence, University of Cologne)  
*Rewiring of the ubiquitinated proteome determines aging*
- 09:30-09:45 **Ariel Stanhill** (The Open University Israel, Ra'anana)  
*Pre-emptive quality control regulation of ER homeostasis- In-vivo role of RNF149 in Diabetes*
- 09:45-10:00 **David Schwefel** (Technical University of Berlin)  
*Targeted protein degradation goes viral: interferon antagonism by DCAF mimicry*

10:00-10:15 **Siavash Vahidi** (University of Guelph)  
*Allosteric regulation of M. tuberculosis proteasome function*

10:15-10:45 Coffee break

#### SESSION 4 DNA Repair and Chromatin-related Processes

(chair: Gijs Versteeg)

10:45-11:00 **Hans-Peter Wollscheid** (Institute of Molecular Biology, Mainz)  
*Nuclear functions of the ubiquitin receptor myosin VI*

11:00-11:15 **Laura Claessens** (Leiden University and Medical Center)  
*The role of poly-SUMO2/3 protease SENP6 in the DNA damage response*

11:15-11:30 **Barbara Nikolett Borsos** (University of Szeged)  
*Role of P53 in S2P RNAPII ubiquitylation upon DNA damage*

11:30-11:45 **Robert Shearer** (University of Copenhagen)  
*K29-linked ubiquitylation regulates SUV39H1 stability to promote epigenome maintenance*

11:45-12:45 Lunch break

#### SESSION 5 Protein Folding and Quality Control

(chair: David Haselbach)

12:45-13:15 **Judith Frydman** (University of Stanford)  
*Nuclear and cytoplasmic spatial protein quality control are coordinated by nuclear-vacuolar junctions and a perinuclear ESCRT machinery*

13:15-13:30 **Jakob Farnung** (Max Planck Institute of Biochemistry, Martinsried, and ETH Zürich)  
*C-terminal amides mark proteins for proteasomal degradation via SCF/FBXO31*

13:30-14:00 **Manu Hegde** (MRC Laboratory of Molecular Biology, Cambridge)  
*Quality control of proteins orphaned in the cytosol*

14:00-14:20 Award ceremony & closing remarks  
(Yasin Dagdas & Silvia Ramundo)

---

**LIST OF POSTERS**

---

---

**P01 Savina Abraham-Pol**

Establishing SNAP-targeting PROTACs to study Golgi-related transport and proteostasis

---

**P02 Sascha J. Amann**

Pithd1's role in 26S proteasomal degradation

---

**P03 Renato Arnese**

HCM-linked myosin mutations result in a faulty protein quality control

---

**P04 Samkeliso Blundell**

The bacterial effector SteD is a co-activator of the E3 ubiquitin ligase WWP2

---

**P05 Erik Bonke**

Step-by-Step Monitoring of PROTAC Activity

---

**P06 Valentina Budroni**

Cellular degradation mechanism of cancer-associated deaminases

---

**P07 Anna Dósa**

The role of ubiquitin in secretory granule-lysosome fusion

---

**P08 Sara Carrillo Roas**

Quality control of protein complex assembly

---

**P09 Dean Clift & Leo Kiss**

Trim-Away ubiquitinates and degrades lysine-less and N-terminally acetylated substrates

---

**P10 María I. Daudén**

CryoEM of E3 Ubiquitin Ligases RNF20 and RNF40

---

**P11 João Diamantino**

Protein quality control at the cytosolic side of the Golgi membrane

---

**P12 Larissa Dietz**

BRUCE Almighty

---

**P13 Lennard-Maximilian Döring**

Two sides of the same coin: How Sumo-targeted ubiquitylation and DeSUMOylation antagonistically regulate monoSUMOylated proteins

---

**P14 Laura Donzelli**

The role of DPP9 in endoplasmic reticulum stress

---

**P16 Julian F. Ehrmann**

Structural basis for regulation of apoptosis and autophagy by the BIRC6/SMAC complex

---



---

**LIST OF POSTERS**

---

---

**P17 Stéphane Goffinont**

Generation of a stable mimetic of the human E2~SUMO thioester provides insights into the SUMOylation reaction

---

**P18 Korina Goldin-Azulay**

Genome Editing for Visualizing Human GABARAP Family Proteins

---

**P19 Roan Groh**

How does Autophagy rescue stalled ribosomes at the ER

---

**P20 Maximilian Haka**

Unwinding the binding specificity of Ulp2's loops

---

**P21 Ceara Harper**

ZNFX1, a novel non-canonical ubiquitin ligase

---

**P22 David M. Hoi & Sabryna Junker**

Development of a dual Clp-targeting BacPROTAC that impairs mycobacterial proteostasis and survival

---

**P23 Ecem Kirkiz**

Identification of the regulators of NUP98-fusion oncoprotein homeostasis

---

**P24 Darja Kordic**

Mechanistic insight into client recognition and ubiquitination of promiscuous E2/E3 hybrid Ube2o

---

**P25 Ikuko Koyama-Honda**

Quantitative 3D correlative light and electron microscopy of autophagosome-organelle contacts and autophagosomal contents

---

**P26 Jakub Luptak**

TRIM7 Restricts Coxsackievirus and Norovirus Infection by Detecting the C-Terminal Glutamine Generated by 3C Protease Processing

---

**P27 Mohit Misra**

C-terminal domain of Legionella SidE family effectors is required for serine ubiquitination of host substrates

---

**P28 Paul Müller**

A novel autophagy flux reporter for live-cell monitoring of protein aggregate turnover

---

**P29 Marintia Nava Garcia**

CESAR is a novel selective autophagy receptor that contributes to heat stress tolerance in *Arabidopsis thaliana*

---

---

**LIST OF POSTERS**

---

---

**P30 Vivien Strauch**

A FRET-based assay for PROTAC ternary complex hit screening and kinetics characterization using Y-shaped DNA nanostructures

---

**P31 R.H. Amanda Ng**

Using Cell Morphological Profiling to discover novel CRBN-dependent molecular glues

---

**P32 Rachel O'Dea**

Molecular basis for Ubiquitin/Fubi cross-reactivity in USP16 and USP36

---

**P33 Fabian Offensperger**

Chemical proteomics to assess the ligandable proteome

---

**P34 Zoltán G. Páhi**

Usp5, Usp34, and Otu1 deubiquitylases mediate DNA repair in *Drosophila melanogaster*

---

**P35 Sophie Piech**

Chemical Modulation of RAS Proteostasis

---

**P36 Greeshma Pushpa Bose**

Proteostatic regulation of quiescence in adult neural stem cells

---

**P37 Susanne Reichinnek**

Unraveling the proteome and ubiquitin pathways, the future of chemically induced proximity

---

**P38 Jun-ichi Sakamaki**

Ubiquitination of phosphatidylethanolamine in organellar membranes

---

**P39 Irene Schwartz**

SPOP targets the immune transcription factor IRF1 for proteasomal degradation

---

**P40 Víctor Sánchez de Medina Hernández**

Leveraging evolutionary diversity to discover new autophagy mechanisms

---

**P41 Nazife Tolay**

Role of deubiquitylating enzymes in stress granule dynamics

---

**P42 Nikola Winter**

Plant ubiquitin ligase PRT6 has redundant functions

---

**P43 Nathalie Christine Wörz**

Targeting bacterial effector proteins

---

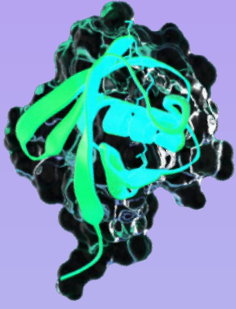
**P44 Zhou Zhao**

Native Semi-synthesis of Isopeptide-linked Substrates for Specificity Analysis of Deubiquitinases and Ubiquitin-like Proteases

---







More Information:

<https://www.protein-degradation.org/symposium/>

