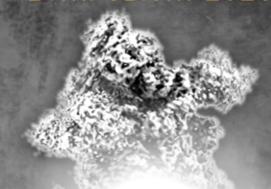
VBC UBIQUITIN CLUB PROUDLY PRESENTS

# UBIQUITIN & FRIENDS















Seeing beyond



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## WELCOME TO THE UBIQUITIN & FRIENDS SYMPOSIUM 2020

The Ubiquitin club emerged 2010 when a group of scientists at the Vienna BioCenter (VBC), fascinated by ubiquitin and ubiquitin-like modifiers, decided to launch a joint interest group. Research at the VBC Ubiquitin Club encompasses the biology and mechanism of signaling proteins that are controlled by ubiquitin-like modifiers. As reflected by the "Ubiquitin & Friends" title, we are not only interested in ubiquitin marks, but also study other ubiquitin-like modifiers such as SUMO and its various roles in stress responses, Atg8 and autophagy, and other non-canonical ubiquitin-like protein modifications. To discuss the latest findings obtained in our groups as well as to talk about exciting findings from outside Vienna, we have joint group meetings on a bi-weekly basis. Currently, the Ubiquitin community comprises seven research groups, corresponding to about 35 scientists. Without a doubt, the "Ubiquitin & Friends Symposium" is the annual highlight of the VBC Ubiquitin Club.

This year we put together an exciting program that covers various areas in the ubiquitin field, ranging from the structural insight of the molecular machines involved in proteostasis to various biological pathways such as autophagy, immune signaling and protein quality control.

Due to the pandemic, Ubiquitin symposium will be held virtually via Zoom. Nevertheless, similar to the previous meetings, we will maintain a personal, family-like atmosphere, giving each participant ample opportunities to discuss her/his research with colleagues, friends, and senior scientists; all fascinated by ubiquitin and friends. We think this virtual meeting will also offer unique opportunities. We will have a chance to share our exciting discoveries with up to 500 participants from all over the world. We will have discussion sessions with the invited speakers to facilitate networking and scientific exchange. Finally, there will be an exciting Podium Discussion on "Publishing in 2020", where experts including the ASAPBio Executive Director Jessica Polka, will discuss the latest developments and initiatives in Scientific Publishing.

We look forward to welcoming you, The Organizing Committee



#### **PROGRAM**

#### **THURSDAY, 14 MAY 2020**

09.45-10.00 Opening Remarks

Session 1	Protein Quality Control
10.00-10.30	ALEX STEIN, University of Göttingen Retrotranslocation by E3 ligases in ER associated protein degradation
10.30-10.40	LAURA GALLEGO, Max Perutz Labs Phase separation directs ubiquitination of gene body nucleosomes
10.40-10.50	MICHAL SHARON, Weizmann Institute of Science 20S proteasomes exported by the malaria parasite promote its growth
10.50-11.00	ADAN PINTO-FERNANDEZ, University of Oxford Deletion of the delSGylating enzyme USP18 enhances tumour cell antigenicity and radiosensitivity
11.00-11.30	PEDRO CARVALHO, University of Oxford Mechanisms of membrane protein quality control
11.30-12.00	Break
12.00-12.10	VALENTINA FAJNER, IFOM The ubiquitin ligase Hecw controls oogenesis and neuronal homeostasis by modulating phase transition of ribonucleoprotein parti
12.10-12.20	GWENAËL RABUT, Institute of Genetics and Development of Rennes Sensitive detection of protein ubiquitylation using a protein-fragment complementation assay
12.20-12.30	DAVID TEIS, Institute of Cell Biology, Biocenter, Medical University Innsbruck Endosome and Golgi-associated degradation (EGAD) of membrane proteins regulates sphingolipid metabolism
12.30-13.00	CLAUDIO JOAZEIRO, ZMBH, University of Heidelberg RQC: 10 years of research and 4 billion years of evolution
13.00	Voting for the best Short Talk in Session 1
13.00-13.30	Meeting the Speakers (pre-sign-up required)
	→ ALEX STEIN, Host: Elif Karagoz
	→ PEDRO CARVALHO, Host: Harald Homegger
	→ CLAUDIO JOAZEIRO, Host: Aleksandra Anisimova

Session 2 – De/Ubiquitination Mechanisms		
16.00-16.30	TITIA SIXMA, Netherlands Cancer Institute Allosteric regulation of DUBs	
16.30-16.40	RASHMI AGRATA, National Centre for Biological Sciences, TIFR UBC13 deamidation by Shigella flexneri disrupts its native and transient interactions with TRAF6 to impair ubiquitination	
16.40-16.50	MICHAEL GLICKMAN, Technion-IIT  The curious case of a protein that targets Ubiquitin for degradation	
16.50-17.00	JIALE DU, UMass-Amherst Interrogating the Selectivity of Proteasome Associated Deubiquitinase UCH37	
17.00-17.30	SONJA LORENZ, University of Wuerzburg Structural mechanisms regulating ubiquitin-conjugating enzymes	
17.30-18.00	Break	
18.00-18.10	ANNE CLANCY, Institute of Translational Medicine, Unversity of Liverpool The deubiquitylase USP9X controls ribosomal stalling	
18.10-18.20	JONATHAN PRUNEDA, Oregon Health & Science University Identification and characterization of diverse OTU deubiquitinases in bacteria	
18.20-18.30	SEBASTIAN GLATT, Max Planck Research Group, MCB/Jagiellonian University Molecular basis for the bifunctional Uba4-Urm1 sulfur relay system in tRNA thiolation and ubiquitin-like conjugation	
18.30-19.00	CYNTHIA WOLBERGER, The John Hopkins University Cross-talk between histone ubiquitination and methylation	
19.00	Voting for the best Short Talk in Session 2	
19.00-19.30	Meeting the Speakers (pre-sign-up required)	
	→ TITIA SIXMA, Host: Nikolett Pahor	
	→ SONJA LORENZ, Host: Antonia Vogel	
	→ CYNTHIA WOLBERGER, Host: Anna Liess	

#### FRIDAY, 15 MAY 2020

Session 3 – Ubiquitin Signaling		
10.00-10.30	PETRA BELI, Institute of Molecular Biology, Germany Ubiquitin signaling in protein quality control	
10.30-10.40	PABLO ALCON, MRC Laboratory of Molecular Biology FANCD2–FANCI is a clamp stabilized on DNA by monoubiquitination of FANCD2 during DNA repair	
10.40-10.50	ESMEE VRINGER, CRUK Beatson Institute Mitochondrial ubiquitination as an inflammatory signalling platform during cell death	
10.50-11.00	FRANCISCO BUSTOS, University of Dundee Disruption of phosphorylation and ubiquitylation signaling in human neurodevelopmental disorders	
11.00-11.15	VLADIMIR MAZUROV, GenScript Biotech, NL Synthetic Biology Tools and Approaches: from Artificial Genes to Protein Engineering	
11.15-11.30	SASCHA MARTENS, Max Perutz Lab Keystone Meeting 2021 in Vienna "Targeted Protein Degradation"	
11.30-12.00	Break	
12.00-12.30	ANNE BERTOLOTTI, MRC-LMB, Cambridge Harnessing protein quality control for therapeutic benefit	
12.30-12.40	MATIAS CAPELLA, Biomedical Center, LMU SUMO regulates the nucleolar organization upon ribosomal DNA damage to maintain genome stability	
12.40-12.50	<b>REBEKKA SCHAIRER</b> , Department of Biochemistry, University of Lausanne Allosteric activation of MALT1 by its ubiquitin-binding Ig3 domain	
12.50-13.00	ANNA STIER, ETH Zürich Phosphorylation of the E3 ubiquitin ligase CUL4B regulates actin cytoskeletal dynamics during mitosis	
13.00	Voting for the best Short Talk in Session 3	
13.00-13.30	Meeting the Speakers (pre-sign-up required)	
	→ PETRA BELI, Host: Michaela Reissland	
	→ ANNE BERTOLOTTI, Host: Jonas Duering	

Session 4 – Autophagy & Endomembrane Trafficking in Quality Control		
15.00-15.30	FELIX RANDOW, MRC-LMB, Cambridge When bacteria invade the host cytosol: The role of ubiquitin and autophagy	
15.30-15.40	DOROTEA FRACCHIOLLA, Max Perutz Labs A PI3K-WIPI2 positive feedback loop activates LC3 lipidation in autophagy	
15.40-15.50	MANUEL S RODRIGUEZ, ITAV-CNRS Proteaphagy regulates UPS-ALS crosstalk under proteasome inhibition conditions in Mantle Cell Lymphoma cells	
15.50-16.00	LORENZO PICCHIANTI, IMP - GMI A cross-kingdom conserved ER-phagy receptor maintains endoplasmic reticulum homeostasis during stress	
16.00-16.30	RICHARD MARSHALL, University of Washington Autophagic degradation of the 26S proteasome is mediated by multiple Ubiquitylation and aggregation events	
16.30-17.00	Break	
17.00-17.10	DAVID SHAPIRA, Newcastle University, Biosciences institute The INO80 ATP-dependent chromatin remodeller promotes selective autophagy under metabolic stress condition	
17.10-17.20	RICHA SARDANA, Cornell University Rsp5 Ubiquitin ligase-mediated quality control checkpoints protect yeast from proteotoxic stress	
17.20-17.30	AVITAL EISENBERG-LERNER, Weizmann Institute of Science Golgi Apparatus Related Degradation (GARD) Regultes the Golgi-stress response	
17.30	Voting for the best Short Talk in Session 4	
17.30-18.00	Meeting the Speakers (pre-sign-up required)	
	→ FELIX RANDOW, Host: Marion Clavel	
	→ RICHARD MARSHALL, Host: Marta Garcia Leon	
18.00-18.30	Podium Discussion – Publishing in 2020	
	chaired by JESSICA POLKA (ASAPBio) and CYNTHIA WOLBERGER	
18.30	Award Ceremony	

