

# ZOMES IX

PCI complexes and ubiquitin  
defining a hub for protein homeostasis

## Preliminary Program

Tuesday, February 14th, 2017

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9:00- 17:00            **Arrival, poster installation**

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17:00-17:30            **Welcome**

Rodolfo Negri, Sapienza University, Italy  
Simona Polo, IFOM, Italy  
Giovanna Serino, Sapienza University, Italy

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### **SESSION 1 PCI COMPLEXES: WHERE ARE WE?**

Chair: Ning Wei, Yale University, USA

17:30-18:00            A race to the finish line: polyubiquitin conjugates compete for access  
to proteasome

**Michael Glickman, Technion Institute, Israel**

18:00-18:30            Dissecting Zomes: BRCA1A/BRISC and CSN - sister complexes?

**Nicolas H. Thoma, F. Miescher Institute for Biomedical Research,  
Switzerland**

18:30-19:00            Control of energy metabolism by eIF3

**Dieter Wolf, Sanford Burnham Institute, USA; Xiamen University, China**

19:00-19:15            *talk to be selected from abstracts*

19:15-19:30            *talk to be selected from abstracts*

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19:30-20:00            *Welcome cocktail*

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# Wednesday, February 15th, 2017

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## SESSION 2 STRUCTURE AND MECHANISMS OF ZOMES

**Chair:** Daniel Chamovitz, Tel Aviv University, Israel and Michael Glickman, Technion Institute, Israel

8:30	<i>Session starts</i>
8:40-9:00	Characteristics of COP9 signalosome variants containing CSN7A or CSN7B isoforms <b>Wolfgang Dubiel, School of Pharmaceutical Sciences, Xiamen University, China</b>
9:00-9:20	A small protein, big influence - the story of CSNAP <b>Michal Sharon, Weizmann Institute, Israel</b>
9:20-9:40	Regulation of the Cullin-RING E3 ubiquitin ligases by the COP9 signalosome <b>Aude Echalié, University of Leicester, UK</b>
9:40-10:00	Atomic model of eukaryotic Initiation Factor 3 in the context of 43S preinitiation complex <b>Yaser Hashem, CNRS, Strasbourg University, France</b>
10:00-10:15	<i>talk to be selected from abstracts</i>
10:15-10:30	<i>talk to be selected from abstracts</i>
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10:30-11:00	Coffee break

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## SESSION 3 ZOMES IN DEVELOPMENT

**Co-Chair:** Michal Sharon, Weizmann Institute, Israel and Wolfgang Dubiel, School of Pharmaceutical Sciences, Xiamen University, China

11:00	<i>Session starts</i>
11:10-11:30	The COP9 Signalosome regulates protein turnover of the key effectors in the GA and ABA pathways during Arabidopsis seed germination <b>Ning Wei, Yale University, USA</b>
11:30-11:50	Hormonal modulation of the assembly and function of CRL4-CDDD ubiquitin ligases in plants <b>Vicente Rubio, Centro Nacional de Biotecnología (CNB-CSIC), Spain</b>
11:50-12:10	COP9 signalosome and proteasomal LID and multicellular fungal development <b>Gerhard H. Braus, University of Göttingen, Germany</b>
12:10-12:25	<i>talk to be selected from abstracts</i>
12:25-12:40	<i>talk to be selected from abstracts</i>
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12:40-14:00	Lunch – Meet the expert tables available**

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\* Meet the Expert sessions at meals provide graduate students and post-docs the possibility to talk directly to the session speakers

#### SESSION 4 REGULATION OF NEDD8 FUNCTION

**Co-Chair:** Dieter Wolf, Sanford Burnham Institute, USA; Xiamen University, China and Aude Echalié, University of Leicester, UK

- 14:00 *Session starts*
- 14:10-14:30 Cullin NEDDylation cycling is driven by redox homeostasis and proteasome function  
**Elah Pick, University of Haifa, Israel**
- 14:30-14:50 Autoneeddylation of NEDD8 activating enzyme affects thioester formation and NEDD8 homeostasis in Arabidopsis DENEDDYLASE1 mutants  
**Claus Schwechheimer, Technical University of Munich, Germany**
- 14:50-15:10 The role of the deNEDDylating enzyme NEDP1 in the DNA damage induced apoptosis  
**Dimitris Xirodimas, CNRS, Montpellier, France**
- 15:10-15:30 *talk to be selected from abstracts*

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15:30-16:00 Coffee break

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#### SESSION 5 STRUCTURE AND MECHANISMS OF DEUBIQUITYLATING ENZYMES

**Co-Chair:** Elah Pick, University of Haifa, Israel and Dimitris Xirodimas, CNRS, Montpellier, France

- 16:00 *Session starts*
- 16:10-16:30 Activation Mechanisms of Ubiquitin-Specific Proteases  
**Ning Zheng, Department of Pharmacology, Howard Hughes Medical Institute, University of Washington, USA**
- 16:30-16:50 Regulation of ubiquitin-dependent endocytic protein degradation in plants  
**Erika Isono, Technical University of Munich, Germany**
- 16:50-17:10 COP9 signalosome-associated deubiquitylases control NF- $\kappa$ B and cell survival in *Helicobacter pylori*-infection  
**Michael Naumann, Otto von Guericke University Magdeburg, Germany**
- 17:10-17:25 *talk to be selected from abstracts*
- 17:25-17:40 *talk to be selected from abstracts*
- 17:40-18:00 *talk to be selected from abstracts*

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18:00-19:00 *Poster session*

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Thursday, February 16th, 2017

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**SESSION 6 ROLES OF CULLIN-RING UBIQUITIN LIGASES**

**Co-Chair:** Niki Chondrogianni, National Hellenic Research Foundation, Greece and Michael Naumann, Otto von Guericke University Magdeburg, Germany

- 9:00 *Session starts*
- 9:10-9:30 An E3 cascade of COP1 and EBF1/EBF2 in modulating seedling emergence from under the soil  
**Xing-Wang Deng, Peking University, China**
- 9:30-9:50 Ariadne RBR E3 ligases team up with the cullin-RING E3 ligase machinery to regulate protein homeostasis  
**Arno Alpi, Max-Planck-Institute for Biochemistry Martinsried, Germany**
- 9:50-10:10 Dissecting ubiquitin-mediated control of auxin signaling  
**Luz Irina Calderón Villalobos, Leibniz Institute of Plant Biochemistry, Germany**
- 10:10-10:30 *talk to be selected from abstracts*
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10:30-11:00 Coffee break

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**SESSION 7 NOVEL PATHWAYS REGULATED BY CSN, UBIQUITIN AND SUMO IN PLANTS**

**Co-Chair:** Giovanna Serino, Sapienza University, Rome, Italy and Claus Schwechheimer, Technical University of Munich, Germany

- 11:00 *Session starts*
- 11:10-11:30 COP9 signalosome influences the epigenetic landscape of *Arabidopsis thaliana*  
**Daniel Chamovitz, Tel Aviv University, Israel**
- 11:30-11:50 Post-translational control of ARGONAUTE1 protein  
**Pascal Genshick, Institute of Plant Molecular Biology, CNRS, France**
- 11:50-12:10 Molecular mechanisms involved in SUMO conjugation *in vivo* and novel insights into SUMO biological functions in plants  
**L. Maria Lois, CRAG, Spain**
- 12:10-12:25 *talk to be selected from abstracts*
- 12:25-12:40 *talk to be selected from abstracts*
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12:40-14:00 Lunch – Meet the expert tables\*

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**SESSION 8 ZONES AND PROTEIN QUALITY CONTROL, MISFOLDING AND AGGREGATION**

**Co-Chair:** Simona Polo, IFOM, Italy and Rodolfo Negri, Sapienza University, Italy

- 14:00-14:10 Introduction to the Keynote lecture  
**Giovanna Serino, Sapienza University, Italy and Daniel Chamovitz, Tel Aviv University, Israel**
- 14:10-14:50 **Keynote lecture**  
Autophagic Clearance of Inactive Proteasomes and Ribosomes via Protein Quality Control Pathways  
**Richard Viestra, Washington University in St. Louis, USA**

14:50-15:10	Autophagy and ubiquitylation, friends or foes? <b>Francesco Cecconi, Danish Cancer Society Research Center, Denmark; Tor Vergata University, Italy</b>
15:10-15:30	Autophagy-independent Protein Aggregate Clearance by the Proteasome <b>ThimoKurz, University of Glasgow, UK</b>
15:30-15:50	ERAD tuning is conserved between plants and mammals <b>Qi Xie, Chinese Academy of Sciences, China</b>
15:50-16:05	<i>talk to be selected from abstracts</i>

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16:05-16:30 Coffee break

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### **SESSION 9 ZOMES IN AGING AND DISEASE**

**Co-Chair:** Cristina Mazzoni, Sapienza University, Italy and ThimoKurz, University of Glasgow, UK

16:30	<i>Session starts</i>
16:40-17:00	COP9 signalosome and oncogenic signals <b>Mong-Hong Lee, The University of Texas MD Anderson Cancer Center, Texas, USA</b>
17:00-17:20	Proteasome manipulation as an anti-aging and anti-aggregation strategy <b>NikiCondrogianni, National Hellenic Research Foundation, Greece</b>
17:20-17:40	The p53 family in cancer biology <b>Gerry Melino, Medical Research Council Toxicology Unit, UK; Tor Vergata University, Italy</b>
17:40-18:00	dHECW in Neurodegeneration <b>Simona Polo, IFOM, Italy</b>

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18:00-18:30 **Closing Remarks**  
Simona Polo, IFOM, Italy  
Giovanna Serino, Sapienza University, Rome, Italy  
Michael Glickman, Technion Institute, Israel  
Daniel Chamovitz, Tel Aviv University, Israel

20:00 Gala dinner

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## Friday, February 17th, 2017

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Free time. Contact the local organizers for sightseeing activities

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