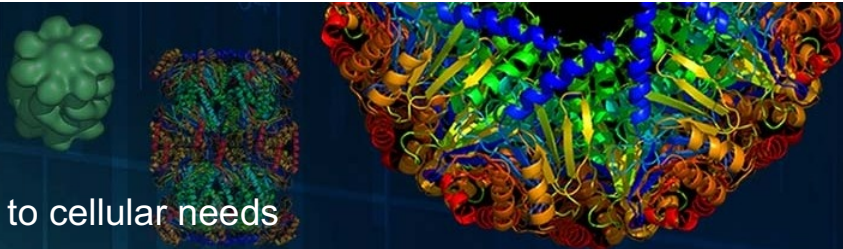


# The Proteasome hub

Fine-tuning of proteolysis according to cellular needs



February 12-14, 2018

Schloss Hohenkammer, Munich, Germany

**Conference URL:** <http://www.weizmann.ac.il/conferences/ProteasomeHub2018/>

## Organizers:

- **Eyal Gur** (Ben-Gurion University of the Negev, Israel)
- **Silke Meiners** (Hemholtz Zentrum München, Germany)
- **Yifat Merbl** (The Weizmann Institute of Science, Israel)
- **Michal Sharon** (The Weizmann Institute of Science, Israel)

## 1<sup>st</sup> Day (Feb 12, 2018)

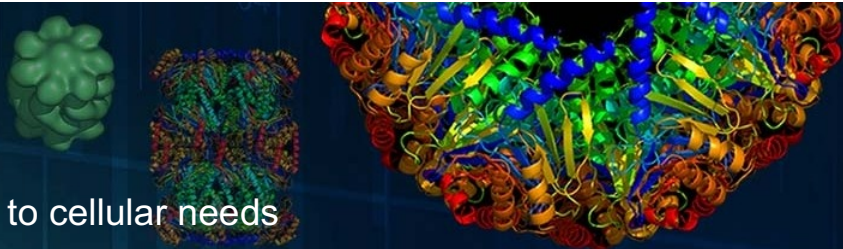
**Session 1a:** Proteasome structure and function

**Chairs:** Dan Finley and Mickal Nawatha

Time	Session/Lecture info
15:00 – 15:10	Welcome address
15:10 – 15:40	<b>Andreas Martin</b> (UC Berkeley, USA): Substrate processing and mechanochemical coupling of the 26S proteasome - a fine-tuned molecular machine
15:40 – 16:10	<b>Lan Huang</b> (UC Irvine, USA): Structural Dynamics and Regulation of the 26S Proteasome
16:10 – 16:40	<b>Eyal Gur</b> (Ben-Gurion University, Israel): A novel system for biochemical analysis of the bacterial proteasome
16:40 – 17:00	<b>Eri Sakata</b> (Max Planck Institute Munich, Germany): Conformational landscape of the 26S proteasome gives insights into the gate-opening of the 20S CP
17:00 – 19:30	Poster session and Bavarian beer
19:30 – 22:00	Diner and informal get-together

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2<sup>nd</sup> Day (Feb 13, 2018)

**Session 1b:** Proteasome structure and function

**Chairs:** Marcus Groettrup and Maya Olshina

Time	Session/Lecture info
08:30 – 09:00	<b>Wolfgang Baumeister</b> (Max Planck Institute Munich, Germany): The molecular machinery of protein degradation - structural studies ex situ and in situ
09:00 – 09:30	<b>Michael Glickman</b> (The Technion, Israel): "and Proteasome, would you like any ubiquitin with your substrate?"
09:30 – 09:50	<b>Julien Liches</b> (University of Bath, UK): Biochemical properties and cellular function of the E3 ubiquitin ligase HECTD1
09:50 - 10:10	Coffee break

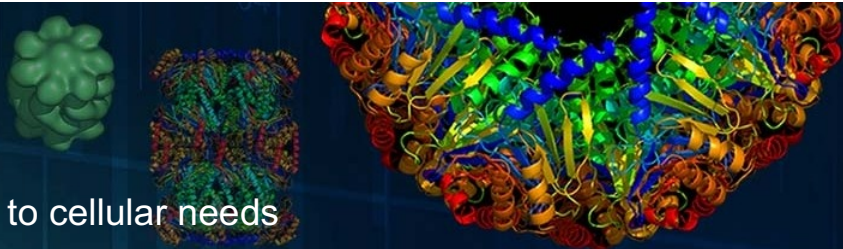
**Session 2a:** Alternative regulation of the 20S proteasome

**Chairs:** Eyal Gur and Thomas Meul

Time	Session/Lecture info
10:10 – 10:40	<b>Michal Sharon</b> (The Weizmann Institute, Israel): Specific regulation of the 20S proteasome complex
10:40 – 11:10	<b>Olivier Coux</b> (CRBM - CNRS, France): PIP30/FAM192A, a novel regulator of the nuclear 20S proteasome / PA28 $\gamma$ complex
11:10 – 11:40	<b>Eilika Weber-Ban</b> (ETH Zurich, Switzerland): Alternative Proteasome Regulators in Mycobacteria
11:40 – 12:00	<b>Marie-Pierre Bousquet</b> (IPBS - CNRS, France): LC-SRM targeted quantification of 20S proteasome complexes stoichiometry for the accurate monitoring of proteasome heterogeneity and dynamics using absolute SILAC
12:00 – 14:30	Lunch break: "Meet the expert at lunch" (interactive junior/senior scientist lunch)

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**Session 2b:** Alternative regulation of the 20S proteasome

**Chairs:** Olivier Coux and Shai Schlussel

Time	Session/Lecture info
14:30 – 15:00	<b>Silke Meiners</b> (Helmholtz Zentrum München, Germany): PA200: a novel regulator of cell growth and survival in lung diseases
15:00 – 15:30	<b>Huilin Li</b> (Van Andel Research Institute, USA): <i>M. tuberculosis</i> proteasome activation by ATP-dependent and ATP-independent complexes
15:30 – 15:50	<b>Yosef Shaul</b> (The Weizmann Institute, Israel): Intrinsically disordered proteins are targeted to ubiquitin independent degradation through interaction with a novel 20S proteasome receptor
15:50 – 16:10	<b>Massimo Coletta</b> (University of Rome, Italy): Allosteric interaction of 19S with 20S proteasome
16:10 – 16:40	Coffee break

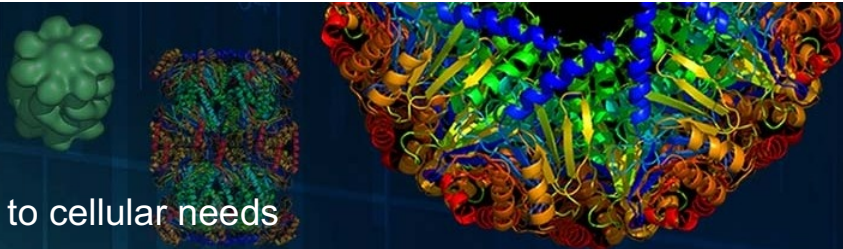
**Session 3:** Ph.D. students' session (organized by Vanessa Welk and Thomas Meul)

**Chairs:** Michal Sharon and Vanessa Welk

Time	Session/Lecture info
16:40 – 16:50	Introduction
16:50 – 17:05	<b>Mickal Nawatha</b> (The Technion, Israel): Targeting the Lys48 linked ubiquitin chain using Random non-standard Peptides Integrated Discovery (RaPID)
17:05 – 17:20	<b>Jared AM Bard</b> (UC Berkeley, USA): Illuminating the path to degradation: A kinetic exploration of substrate degradation by the 26S proteasome
17:20 – 17:35	<b>Elmer Maurits</b> (University of Leiden, Netherlands): Selective fluorogenic substrates for constitutive and immuno proteasome subunits
17:35 – 17:50	<b>Thomas Meul</b> (Helmholtz Zentrum München, Germany): Metabolic regulation of the proteasome
17:50 – 18:35	<b>Keynote lecture: Alfred Goldberg</b> (Harvard Medical School, USA): 50 Years of Degradation
19:30 – 22:00	Diner and informal get together

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## 3<sup>rd</sup> Day (Feb 14, 2018)

**Session 4a:** Proteasome-dependent regulation of cellular function

**Chairs:** Silke Meiners and Eva Maria Huber

Time	Session/Lecture info
08:30 – 09:00	<b>Marcus Groettrup</b> (University of Konstanz, Germany): How immunoproteasome inhibition prevents chronic antibody-mediated allograft rejection in renal transplantation
09:00 – 09:20	<b>Shay Ben Aroya</b> (Bar-Ilan University, Israel): Regulation of the Anaphase Promoting Complex/Cyclosome (APC/C) by the Proteasome Mediated Degradation of its Unassembled Catalytic Subunit, Apc11
09:20 – 09:40	<b>Peter Tsvetkov</b> (Whitehead Institute for Biomedical Research, USA): A new way cancer cells cope with proteotoxic stress
09:40 – 10:10	<b>Michael Groll</b> (Technische Universität München, Germany): Targeting the Proteasome by Bioactive Peptides
10:10 – 10:40	Coffee break

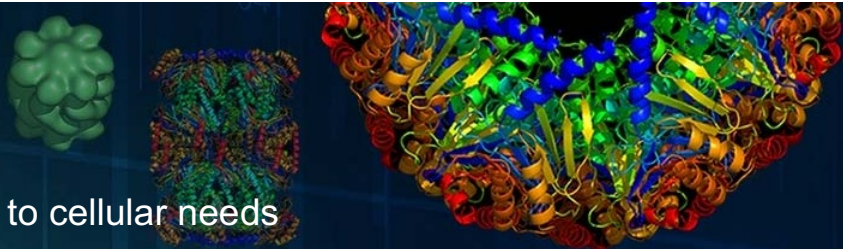
**Session 4b:** Proteasome-dependent regulation of cellular function

**Chairs:** Eilika Weber-Ban and Assaf Biran

Time	Session/Lecture info
10:40 – 11:10	<b>Shigeo Murata</b> (The University of Tokyo, Japan): How cells respond to proteasome impairment
11:10 – 11:40	<b>Yifat Merbl</b> (The Weizmann Institute, Israel): Localized proteasomal degradation at the Golgi
11:40 – 12:10	<b>Elke Krüger</b> (University of Greifswald, Germany): Cellular adaptation pathways for proteasome degradation and diversity
12:10 – 12:40	<b>Bertrand Friguet</b> (Institute de Biologie Paris Seine, France): Oxidized protein homeostasis: implication of circadian rhythm, oxidative stress and aging
12:40 – 14:00	Lunch break

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**Session 5:** Substrate recognition & processing

**Chairs:** Yifat Merbl and Jared Bard

Time	Session/Lecture info
14:00 – 14:20	<b>Yogesh Kulathu</b> (University of Dundee, UK): Regulation of protein degradation by MINDY Deubiquitinases
14:20 – 14:50	<b>Tommer Ravid</b> (The Hebrew University of Jerusalem, Israel): The complexity of degradation signals in protein quality control pathways
14:50 – 15:20	<b>Andreas Matouschek</b> (The University of Texas at Austin, USA): Disordered regions fine-tune protein half-life
15:20 – 15:50	<b>Dan Finley</b> (Harvard Medical School, USA): Reciprocal regulation between Ubp6 and the proteasome
15:50 – 16:00	Wrap-up and departure