

PROGRAM

Day 1 - Wednesday October 28, 2020

Session starts at 8am PST/

11am EST/

4pm CEDT. **All times below are in EST.**

11:00-11:15am

Welcome remarks by the organizers:

Dr Andrew Truman, *University of North Carolina at Charlotte, USA*

Dr Dimitra Bourboulia, *SUNY Upstate Medical University, USA*

Dr Mehdi Mollapour, *SUNY, Upstate Medical University, USA*

Honorary guest Dr Inês Chen,

Chief Editor of Nature Structural & Molecular Biology

Session 1

Chairperson: Dr Mehdi Mollapour

11:15-11:30am

(12min + 3min Q&A)

Dr Len Neckers, *National Cancer Institute, USA*

Title: How to make Hsp90 a functional ATPase in an environment of limiting Aha1: A multipart story featuring posttranslational modifications

11:30-11:45am

(12min + 3min Q&A)

Dr Dalia Barsyte-Lovejoy, *University of Toronto, Canada*

Title: Arginine methylation of HSP70 in proteasomal stress response

11:45-12:00pm

(12min + 3min Q&A)

Dr Johannes Buchner, *Technical University of Munich, Germany*

Title: Principles of chaperone function

12:00-12:15pm

(12min + 3min Q&A)

Dr Giorgio Colombo, *University of Pavia, Italy*

Title: Cracking the chaperone code with computer simulations

12:15-12:45pm

Break: 30 minutes

Session 2

Chairperson: Dr Andrew Truman

12:45pm-1:00pm

(12min + 3min Q&A)

Dr Lea Sistonen, *Åbo Akademi University, Finland*

Title: Multilayer Regulatory Mechanisms of Mammalian Heat Shock Factors

1:00pm-1:15pm

(12min + 3min Q&A)

Dr Seema Mattoo, *Purdue University, USA*

Title: AMPylation and the control of protein folding

1:15pm-1:30pm

(12min + 3min Q&A)

Dr Matthias Truttmann, *University of Michigan, USA*

Title: One to rule them all: how AMPylation regulates HSP70 family chaperones.

1:30-1:45pm

(12min + 3min Q&A)

Dr Magnus E. Jakobsson, *Lund University, Sweden*

Title: Enzymology and Significance of Hsp70 (HSPA1) Lysine Methylation

Concluding Day 1: 1:45pm EST*

Day 2 – Thursday October 29, 2020

Session starts at 8am PST/
11am EST/
4pm CEDT. **All times below are in EST.**

11:00-11:15am Introduction to the 2nd day by the organizer
Dr Dimitra Bourboulia, SUNY Upstate Medical University, USA

Session 3

Chairperson: Dr Dimitra Bourboulia

11:15am-11:30am
(12min + 3min Q&A) **Dr Dimitra Bourboulia, SUNY Upstate Medical University, USA**
Title: Deciphering the extracellular Hsp90 chaperone machinery code

11:30-11:45am
(12min + 3min Q&A) **Dr Stephanie Diezmann, University of Bristol, UK**
Title: A novel Hsp90 phospho-switch modulates virulence in the major human fungal pathogen *Candida albicans*

11:45-12:00pm
(12min + 3min Q&A) **Dr Andrea Rasola, University of Padova, Italy**
Title: Mechanisms of regulation of the mitochondrial chaperone TRAP1 in neoplastic models

12:00-12:15pm
(12min + 3min Q&A) **Dr Adeleye J Afolayan, Medical College of Wisconsin, USA**
Title: Activation of Hsp70 chaperone activity through phosphorylation at serine 631/633 regulates ROS metabolism

12:15-12:45pm **Break: 30 minutes**

Session 4

Chairperson: Dr Andrew Truman

12:45-1:00pm
(12min + 3min Q&A) **Dr Natasha Zachara, Johns Hopkins University, USA**
Title: Decoding the role of Glycosylation in the Stress Response

1:00-1:15pm
(12min + 3min Q&A) **Dr Richard Bayliss, University of Leeds, UK**
Title: How phosphorylation alters Hsp70 conformation, dynamics and activity

1:15-1:30pm
(12min + 3min Q&A) **Dr Lila Gierasch, University of Massachusetts Amherst, USA**
Title: Exploring Hsp70 PTM Impacts on Allostery

1:30-1:50pm **Dr Andrew Truman, University of North Carolina at Charlotte, USA**
Closing remarks: Future of the Chaperone Code

Concluding Day 2: 1:50 EST*

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