

# PROGRAM ER & REDOX CLUB MEETING 15-17 APRIL 2015 VENICE

## APRIL 15th *Arrival*

14:00 14:20 **WELCOME & OPENING ADDRESS**

14:20 15:40 **SESSION 1: ENTER THE ER**

*chair: Ester Zito*

14:20 14:40 Tsiil Ast (M. Schuldiner)

Forget the plunger - Unclogging the translocon

14:40 15:00 Stefan Schorr

Co-chaperone specificity in gating of the polypeptide conducting channel in the membrane of the human ER

15:00 15:20 Matteo Fossati (N. Borgese)

A positive signal restrains rab6-dependent recycling of membrane proteins in the early secretory pathway

15:20 15:40 Luca Scorrano

Why do we have the ER? A mitochondrial answer

15:40 16:00 *Coffee break*

16:00 17:20 **SESSION 2: ER CHAPERONES**

*chair: Roberto Sitia*

16:00 16:20 Matthias Feige

The sequence-based quality control code of the Hsp70 chaperone system in the endoplasmic reticulum

16:20 16:40 Mathias Rosam (J. Buchner)

BAP, an atypical NEF for BiP

16:40 17:00 Naomi Lodder (I. Braakman)

Characterising the function of pERp1

17:00 17:20 Alessandro Bosetti (Promega)

Interrogating protein dynamics within living cells using protein-based reporters derived from NanoLuc Luciferase

17:20 17:45 *Aperitivo*

17:45 18:30 **1st POSTER ADVERTS SESSION**

*chair: Eelco van Anken*

18:30 20:00 *Dinner*

20:00 22:00 **1st POSTER SESSION**

## APRIL 16th

07:30 09:00 *Breakfast*

09:00 10:20 **SESSION 3: PDI FAMILY**

*chair: Neil Bulleid*

09:00 09:20 William Remelli (A. Ceriotti)

Characterization of recombinant At PDIL5-1, the smallest putative PDI-like protein of Arabidopsis thaliana

09:20 09:40 Helena Safavi-Hemami (L. Ellgaard)

Specialized venom gland protein disulfide isomerases facilitate the folding of cone snail toxins

09:40 10:00 Giorgia Brambilla Pisoni (M. Molinari)

Division of labor between oxidoreductases: TMX1 preferentially acts upon membrane-bound polypeptides

10:00 10:20 Tiziana Anelli (R. Sitia)

Proteostasis and redoxstasis in the secretory pathway: tales of tails from ERp44 and immunoglobulins

10:20 10:40 *Coffee break*

10:40 12:00 **SESSION 4: DISULFIDE BOND FORMATION**

*chair: Aldo Ceriotti*

10:40 11:00 Lei Wang (C. Wang)

Interplay between Ero1 and PDI on oxidative protein folding in the endoplasmic reticulum

11:00 11:20 Adam Benham

Exploring the effect of the redox environment on Ero1 & PDI

11:20 11:40 Philip Robinson (N. Bulleid)

Protein structure and disulphide formation following nascent chain exposure to the ER lumen

11:40 12:00 Lloyd Ruddock

Applications of disulfide bond formation in the cytoplasm

12:30 14:00 *Lunch*

14:20 15:40 **SESSION 5: UNFOLDED PROTEIN RESPONSE**

*chair: Luca Rampoldi*

14:20 14:40 Florentina Pena

The endoplasmic reticulum under hypoxic stress

14:40 15:00 Tomás Aragón

A new mechanism for XBP1 mRNA transport to ER stress signaling centers

15:00 15:20 Andrea Orsi (E. van Anken)

ATF6 and ERAD are key for transitioning from acute to chronic ER stress responses

15:20 15:40 David Ron

Further molecular insight into the working of the Integrated Stress Response, ISR

15:40 16:00 *Coffee break*

16:00 17:20 **SESSION 6: ER-STASIS IN HEALTH & DISEASE**

*chair: David Ron*

16:00 16:20 Carmine Settembre

Self eating during vertebrate development

16:20 16:40 Matteo Trudu (L. Rampoldi)

ER stress in models of uromodulin-associated kidney disease

16:40 17:00 Vera Volpi (M. D'Antonio)

The role of the ERAD pathway in the physiology and disease of peripheral myelination

17:00 17:20 Ester Zito

ER-localized selenoprotein SEP1, linked to skeletal muscle pathology, redox-regulates SERCA2 pump activity

17:20 17:45 *Aperitivo*

17:45 18:30 **2nd POSTER ADVERTS SESSION**

*chair: Johannes Buchner*

18:30 20:00 *Dinner*

20:00 22:00 **2nd POSTER SESSION**

## APRIL 17th

07:30 09:00 *Breakfast*

09:00 10:20 **SESSION 7: ER-ASSOCIATED DEGRADATION**

*chair: Maurizio D'Antonio*

09:00 09:20 Ryo Ushioda (K. Nagata)

ERdj5-mediated ER homeostatic mechanism

09:20 09:40 Kenji Inaba

Dual conformations of ERdj5 play a significant role in acceleration of the ER associated degradation

09:40 10:00 Federica Lari (J. Christianson)

UPRegulating ERAD: role of ER-membrane ubiquitin ligases in ER homeostasis

10:00 10:20 Anett Köhler (T. Sommer)

The role of the mannosidase Htm1p in glycoprotein ERAD

10:20 10:40 *Coffee break*

10:40 11:20 **SESSION 8: ER-ASSOCIATED DEGRADATION**

*chair: Maurizio Molinari*

10:40 11:00 Stephen High

Small glutamine-rich tetratricopeptide repeat-containing protein alpha (SGTA), saint or sinner?

11:00 11:20 Marius K. Lemberg

Sampling the membrane: function of intramembrane proteases in ER protein homeostasis

11:20 11:40 Ludger Johannes

Identification of cellular targets of Retro-2 that are required for retrograde toxin trafficking

11:40 12:15 **CLOSING REMARKS:**

*chair: Ineke Braakman*

Awards, Evaluation & Election new organizers

*Departure*