



# **The endoplasmic reticulum: The master regulator of membrane trafficking**

23 – 28 October 2022, Il Ciocco – Lucca, Italy

<http://meetings.embo.org/event/20-er>



**Venue**

Renaissance Tuscany Il Ciocco Resort & Spa  
Via Giovanni Pascoli  
Castelvecchio Pascoli  
Braga Lucca 5051, Italy

**Registration, Travel and Hospitality Desk**

Diesenhaus -Unitours will operate the registration, travel, and hospitality desk throughout the meeting, as follows:

Sunday: 12:00-18:30 (main lobby) Monday-  
Thursday from 09:00 during session hours

**Information for speakers**

Speakers are required to meet the chairperson 10 -15 minutes prior to their session, in the conference room. It is important that the timetable be strictly adhered to. Do not depart from the announced times.

**Information for poster presenters**

Posters will be presented in 2 sessions as follows (see page 9):

**Poster Session I** - A1-A57, Monday, 24 October 2022, 14:30 -17:00 + 20:30-22:30

Mount posters on Monday morning and remove by the end of the evening session.

**Poster Session II** - B1-B57, Tuesday 25 October 2022, 15:00 -17:00 + 20:30-22:30

Mount posters on Tuesday morning and remove by the end of the evening session.

**Social Event: Guided bus tour to Lucca** (optional)

Explore the traditional Tuscan town of Lucca on a two- hour walking tour of the historic center. Stroll the cobblestone streets, bustling piazzas and old Renaissance walls; trace the city's Roman past along Via San Paolino and Piazza San Michele; and see the birthplace of local composer Giacomo Puccini. Admire the medieval buildings along Via Fillungo, and visit the Cathedral of San Martino, Piazza Anfiteatro and Torre delle Ore.

Departure: Wednesday, 26 October 2022, 14:00 from the hotel lobby

Price: Euro 20,- / person



Lucca Cathedral of Saint Martin

## Conference Secretariat and Official Travel Agent



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## Sponsors



## Organizers

Gia Voeltz (University of Colorado-Boulder, US)  
Marius Lemberg (University of Cologne, DE)  
Pedro Carvalho (Oxford University, UK)

## Scientific Program

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### Sunday, 23 October, 2022

- 12:00 – 18:30     *Registration*
- 18:30 – 19:30     *Dinner*
- 19:45 – 20:00     *Welcome Note*  
**Gia Voeltz**
- 20:00                *Keynote Lecture: Targeting cargo with distinct signals to the ER*  
**Maya Schuldiner**

### Monday, 24 October, 2022

- 09:00 – 10:40**     **Session 1: Membrane targeting and translocation Part I**  
*Chair: Maya Schuldiner*
- 09:00 – 09:20     Mechanistic basis of membrane protein insertion and assembly  
**Manu Hegde**
- 09:25 – 09:45     The mechanism by which the PEx1/6 AAA+ complex regulates selective autophagy of peroxisomes  
**Vlad Denic**
- 09:50 – 10:00     Function of ERphagy receptors is regulated via phosphorylation-dependent ubiquitination pathways  
**Rayene Berkane**
- 10:05 – 10:25     Redox homeostasis and signals in and from the ER  
**Roberto Sitia**
- 10:30 – 10:40     Substrate-driven assembly of a translocon for multipass protein biosynthesis  
**Bob Keenan**
- 10:45 – 11:20**     **Coffee Break**
- 11:20 – 13:00**     **Session 2: Membrane targeting and retotranslocation Part II**  
*Chair: Marius Lemberg*
- 11:20 – 11:40     Molecular mechanism of protein quality control at the ER  
**Matthias Feige**
- 11:45 – 11:55     Single-Molecule Investigation of Protein Retrotranslocation  
**Basila Assainar**
- 12:00 – 12:20     Tail-Anchored Membrane Protein Targeting  
**Bil Clemons**

- 12:25 – 12:35 Post-ER quality control and degradation of GPI-anchored proteins is linked with microautophagy  
**Veit Goder**
- 12:40 – 13:00 Ribosome UFMylation and protein quality control at the ER  
**Ron Kopito**
- 13:00 Lunch**
- 14:30 – 17:00 Poster Session I**
- 17:00 – 18:40 Session 3: ER malfunction and disease**  
*Chair: Liz Miller*
- 17:00 – 17:20 Pathogens as cell biology tools  
**Shaeri Mukherjee**
- 17:25 – 17:35 The unfolded protein response modulates lifespan in *C. elegans* upon glucose diet  
**Guillaume Thibault**
- 17:40 – 18:00 ER remodeling: lessons from coronavirus  
**Antonella De Matteis**
- 18:05 – 18:15 Cargo receptor-assisted endoplasmic reticulum export of pathogenic  $\alpha$ 1-antitrypsin polymers  
**Adriana Gonzalez**
- 18:20 – 18:40 Coping with stress  
**Anne Bertolotti**
- 19:00 Dinner**
- 20:30 Poster Session 1 (cont'd)**

**Tuesday, 25 October, 2022**

- 09:00 – 10:40 Session 4: ER the master communicator**  
*Chair: Shaeri Mukherjee*
- 09:00 – 09:20 Interorganelle communication: new approaches for new questions  
**Benoit Kornman**
- 09:25 – 09:45 ER-lysosome contacts in control of lysosome positioning and cancer  
**Harald Stenmark**
- 09:50 – 10:00 Ubiquitination regulates ER-phagy and remodeling of the endoplasmic reticulum  
**Alexis Gonzalez**
- 10:05 – 10:25 The architecture of membrane contact sites  
**Wanda Kukulski**

- 10:30 – 10:40 ER Quality Control Is Mediated by ER-Associated RNA Silencing  
**Sotirios Efstathiou**
- 10:45 – 11:10 Coffee Break**
- 11:10 – 12:40 Session 5: Membrane Shape and Dynamics**  
*Chair: Tobias Walther*
- 11:10 – 11:30 3D structure of the ER  
**Eija Jokitalo**
- 11:35 – 11:55 Regulation of lipid metabolism from the nuclear envelope  
**Shirin Bahmanyar**
- 12:00 – 12:10 Combinatorial Control of Endoplasmic Reticulum Remodeling During Neurogenesis via Selective ER-phagy  
**Melissa Hoyer**
- 12:15 – 12:25 High resolution 3D imaging of hepatic ER architecture and its link to metabolism  
**Ana Arruda**
- 12:30 – 12:40 Structural Rearrangement of Hairpin Proteins During Membrane Partitioning from The Endoplasmic Reticulum to Lipid Droplets  
**Bianca Shrul**
- 13:00 Lunch**
- 14:00 Mentoring Session**
- 15:00 – 17:00 Poster Session 2**
- 17:00 – 18:40 Session 6: ER-associated interorganelle dynamics**  
*Chair: Shirin Bahmanyar*
- 17:00 – 17:20 ER-associated organelle fission and fusion  
**Gia Voeltz**
- 17:25 – 17:45 Tether motion reveals dynamics of ER contact sites  
**Jennifer Lippincott-Schwartz**
- 17:50 – 18:00 Perinuclear compartmentalization of ER and associated MCS by RNF26 and Vimentin intermediate filaments  
**Tom Cremer**
- 18:05 – 18:25 Architecture of the ER-mitochondria interface  
**Luca Scorrano**
- 18:30 – 18:40 The enigmatic spine apparatus of neuronal dendrites  
**Hanieh Falahati**
- 19:00 Dinner**
- 20:30 Poster Session 2 (cont'd)**

**Wednesday, 26 October, 2022**

- 09:00 – 10:40**     **Session 7: Sterol and lipid homeostasis**  
*Chair: Andy Dillin*
- 09:00 – 09:20     The mechanisms of lipid droplet biogenesis at the ER  
**Pedro Carvalho**
- 09:25 – 09:45     The Vitamin K synthetic enzyme UBIAD1 moonlights as a modulator of HMG CoA reductase ER-associated degradation  
**Russell DeBose Boyd**
- 09:50 – 10:00     The role of lipid transfer proteins in ESCRT-mediated sorting  
**Suzuki Sho**
- 10:05 – 10:25     How lipid channeling regulates lipid metabolism  
**Will Prinz**
- 10:30 – 10:40     OSBP-mediated PI(4)P-cholesterol exchange at endoplasmic reticulum-secretory granule contact sites controls insulin secretion  
**Styliani Panagiotou**
- 10:45 – 11:20**     **Coffee Break**
- 11:20 – 13:00**     **Session 8: The unfolded protein response**  
*Chair: Russell Deboyse-Boyd*
- 11:20 – 11:40     Hierarchical control of ER stress and longevity  
**Andy Dillin**
- 11:45 – 12:05     Fingerprints of stressed ER  
**Robert Ernst**
- 12:10 – 12:20     Neuronal IRE -1 coordinates an organism-wide cold stress response by regulating fat metabolism  
**Sivan Korenblit**
- 12:25 – 12:45     IRE1 as a regulator of apoptosis in dendritic cells  
**Sophie Janssens**
- 12:50 – 13:00     YIPF5 and GOLT1A/B are part of a stress sensor controlling ER export  
**Chris Kaether**
- 13:00**             **Lunch**
- 14:00 – 18:00**     **Excursion to Lucca**
- 18:00 – 19:30**     **Dinner**
- 19:30 – 20:55**     **Session 9: Insane in the membrane**  
*Chair: Pedro Carvalho*

- 19:30 – 19:50 Maintenance of ER protein homeostasis by intramembrane proteases and pseudoproteases  
**Marius Lemberg**
- 19:55 – 20:15 Neutral lipid condensation within the ER bilayer  
**Rachid Thiam**
- 20:20 – 20:30 Pla2g12b is essential for expansion of nascent lipoprotein particles in the endoplasmic reticulum.  
**Ombretta Foresti**
- 20:35 – 20:55 Cell biology of signaling control by rhomboid-like proteins  
**Matthew Freeman**

#### Thursday, 27 October, 2022

- 09:00 – 10:40** **Session 10: Membrane domains and dynamics**  
*Chair: Gia Voeltz*
- 09:00 – 09:20 Mechanisms of vesicle recognition by size selection in membrane trafficking pathways  
**Bruno Antony**
- 09:25 – 09:45 Targeting ER proteostasis to extend brain healthspan  
**Claudio Hetz**
- 09:50 – 10:00 Dynamics of Nuclear Membrane Associated ER Exit Sites (NERES)  
**Shreosi Chatterjee**
- 10:05 – 10:25 Understanding cargo capture and proofreading in the KDEL receptor  
**Simon Newstead**
- 10:30 – 10:40 Relating structure and function of the axonal tubular ER network in *Drosophila*  
**Cahir O'Kane**
- 10:40 – 11:20** **Coffee Break**
- 11:20 – 12:45** **Session 11: Leaving the ER**  
*Chair: Marius Lemberg*
- 11:20 – 11:40 Mechanisms of COPII coat assembly during ER export  
**Liz Miller**
- 11:45 – 12:05 Asymmetric and selective autophagy of the nuclear envelope during recovery from ER stress  
**Mauri Molinari**
- 12:10 – 12:20 Trafficking of membrane cargoes from the ER to the plasma membrane via Golgi-bypass  
**George Dhallianas**



12:25 – 12:45      The biophysics of bulky cargo export from the endoplasmic reticulum  
**Felix Campelo**

**13:00**              ***Lunch***

**14:00**              **Editor Run**  
Mentoring Session

**17:30**              **Business Meeting**

**18:00**              **Keynote Lecture: Making Fat: Mechanisms of Lipid Droplet Formation**  
Tobias Walther and Bob Farese

**19:00**              **Ending Note**  
*Chair: Pedro Carvalho*

**19:30**              **Farewell Dinner and Party**

**Friday, 28 October, 2022**

Departure

**Poster presenters** (by alphabetic order)

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**Poster Session I - Monday, 24 October, 2022**

A1	Alsayyah	Cynthia
A2	Anelli	Tiziana
A3	Anitei	Mihaela
A4	Anwar	Muhammad Umair
A5	Arad	Sivan
A6	Bantug	Glenn Robert
A7	Bates	George
A8	Benedetti	Lorena
A9	Bertocco	Ambra
A10	Bhaduri	Satarupa
A11	Bhapkar	Apoorva
A12	Bragulat-Teixidor	Helena
A13	Breeze	Emily
A14	Cabukusta	Birol
A15	Cairrão	Fátima
A16	Cendrowski	Jaroslav
A17	Centonze	Federica
A18	Christianson	John
A19	Cloots	Eva
A20	Copic	Alenka
A21	Covarrubias	Adriana
A22	Crapart	Cecile
A23	Da Graça	Juliane
A24	Dalla Torre	Marco
A25	Danezi	Katerina
A26	de Jager	Leanne
A27	Dezi	Manuela
A28	Downes	Katie
A29	Ebert	Antje
A30	Fabre	Lucien
A31	Fadieieva	Anastasiia
A32	Fenech	Emma
A33	Frey	Yannick
A34	Goul	Claire
A35	Groh	Roan
A36	Grumati	Paolo
A37	Gumbin	Samantha
A38	Hajdu	Renata

A39	Hernández	Laura
A40	Hernández-Alvarez	María Isabel
A41	Hoffman-Sommer	Marta
A42	Horzum	Utku
A43	Ivanova	Elena
A44	Ivanovic	Lazar
A45	Karagöz	Elif
A46	Kato	Shun
A47	Kettel	Paulina
A48	Klose	Carolin J
A49	Koistinen	Leena
A50	Kovacs	David
A51	Lederkremer	Gerardo
A52	Leterme	Sébastien
A53	Levy	Daniel
A54	Li	Patrick Ziqiang
A55	Lior	Chen
A56	Maisonneuve	Lucie
A57	Mak	Ho Yi

## Poster Session II - Tuesday, 25 October, 2022

B1	Maldutyté	Julija
B2	Manoury	Bénédicte
B3	Margulies	Carla
B4	Mariniello	Marta
B5	Mesmin	Bruno
B6	Monticelli	Luca
B7	Moriel-Carretero	María
B8	Mukherjee	Utsav
B9	Nath	Vaisaly
B10	Neidhardt	Lisa
B11	Obara	Christopher
B12	Ortiz-Mateu	Juan
B13	Otsuka	Shotaro
B14	Ozturk	Zeynep
B15	Pajonk	Oliver
B16	Parizadeh	Seyedehnegar
B17	Phuyal	Santosh
B18	Pierre	Arvin
B19	Radulovic	Maja
B20	Ruggieri	Anna Giulia
B21	Saleem	Nosheen
B22	Santos	Cristiana
B23	Sassano	Maria Livia
B24	Sawyer	Eric
B25	Schlaitz	Anne
B26	Sergejevs	Nikita
B27	Settembre	Carmine
B28	Siu	Wingyan
B29	Sonda	Sonia
B30	Subramanian	Advait
B31	Tagaya	Mitsuo
B32	Teoh	Tze Shin
B33	Toh	Ming
B34	Tran	Ngoc-Han
B35	Tsai	Yi-Ting
B36	uit de Bos	Jelmi
B37	Unterstab	Gunhild
B38	van de Weijer	Michael
B39	Van der Verren	Sander

B40	Van Heddegem	Laurien
B41	van Vliet	Alex
B42	Vanharanta	Lauri
B43	Vanni	Stefano
B44	Verissimo Ferreira	Joana
B45	Veronese	Matteo
B46	Vrentzou	Aikaterini
B47	Wagner	Justine Alexandra
B48	Wakana	Yuichi
B49	Wu	Haoxi
B50	Xu	Xinyi
B51	Yang	Neil V.
B52	Zahoor	Muhammad
B53	Zanotti	Andrea
B54	Zhang	Zhirong
B55	Zhou	Xin
B56	Zininga	Tawanda
B57	Zoni	Valeria

