



# FASEB

Federation of American Societies  
for Experimental Biology

**Science Research Conferences**

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**GTPases in Trafficking, Autophagy and Disease  
September 18-23, 2016  
West Palm Beach, Florida**

**Co-Organizers:**

Antonella De Matteis  
Telethon Institute of Genetics and Medicine  
Pozzuoli (Naples), Italy

David Lambright  
UMASS Medical School  
Worcester, MA

**Sunday, September 18**

- |                 |   |
|-----------------|---|
| 4:00PM – 9:00AM | Conference Registration   |
| 5:00PM – 6:00PM | FASEB Opening Reception   |
| 6:00PM – 7:00PM | Dinner  |
| 7:00PM – 7:30PM | <b>The EMBO Keynote Lecture</b><br>Anne Ridley, King's College London (UK)<br><i>Rho GTPases, cell migration and cancer</i> |
| 7:30PM – 8:30PM | Two minute poster overviews   |



**Monday, September 19**

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| 7:30AM – 9:00AM | Breakfast |
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**Session 1 – Activation and deactivation**

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|------------------|--|
| 9:00AM – 12:15PM | <b>Session Chair: Jacqueline Cherfils, CNRS (FR)</b> |
| 9:00AM – 9:15AM  | Welcome from FASEB                                   |

9:15AM - 9:45AM	Jacqueline Cherfils, CNRS (FR) <i>Allosteric regulation of Arf GTPases and their GEFs on membranes</i>
9:45AM – 10:15AM	Jim Casanova, University of Virginia (USA) <i>BRAG2/IQSec1/GEP100 controls cell motility by modulating focal adhesion turnover</i>
10:15AM – 10:30AM	Short Talk Selected From Submitted Abstracts
10:30AM – 11:00AM	Group photo & FASEB Sponsored Coffee Break
11:00AM – 11:30AM	Francis Barr, Oxford University (UK) <i>Substrates and functions for DENN and TBC domain proteins</i>
11:30AM – 12:00PM	Richard Kahn, Emory University (USA) <i>ARL2 as a regulator of mitochondrial fusion and microtubules</i>
12:00PM – 12:15PM	Short Talk Selected From Submitted Abstracts
12:15PM – 1:15PM	Lunch
	<b>Free Time</b>
4:00PM – 6:00PM	<i>Poster Session 1</i>
6:00PM – 7:00PM	Dinner

## **Session 2 - Regulation of and by postranslational modifications**

<b>7:00PM – 9:45PM</b>	<b>Session Chair: Suzanne Pfeffer, Stanford University (USA)</b>	
7:00PM - 7:30PM	Suzanne Pfeffer, Stanford University (USA) <i>Rab regulation of transport vesicle tethering</i>	
7:30PM – 8:00PM	Peter Novick, University of California (USA) <i>Re-wiring the Rab regulatory network</i>	
8:00PM – 8:15PM	Short Talk Selected From Submitted Abstracts	
8:15PM – 8:45PM	Break	
8:45PM – 9:15PM	<b>EMBO Young Investigator Lecture</b> Anna Sablina, VIB (BE) <i>Ubiquitination governs signalling routes of the RAS-like GTPases</i>	
9:15PM – 9:45PM	Kim Orth, UT Southwestern Medical Center (USA) <i>Black Spot, Black Death, Black Pearl: The Tales of Bacterial Effectors</i>	

## Tuesday, September 20

7:30AM – 9:00AM      Breakfast

### **Session 3 - Structural and molecular mechanisms**

**9:00AM – 12:15PM      Session Chair: David Lambright, UMASS Medical School (USA)**

9:00AM - 9:30AM      David Lambright, UMASS Medical School (USA)  
*Rab and Arf regulatory mechanisms in normal and disease conditions*

9:30PM – 10:00AM      Roger Williams, MRC Laboratory of Molecular Biology (UK)  
*Architecture of Vps34 PI3K and TOR complexes*

10:00AM – 10:15AM      Short Talk Selected From Submitted Abstracts

10:15AM – 10:45AM      FASEB Sponsored Coffee Break

10:45AM – 11:15PM      Alfred Wittinghofer, Max-Planck-Institut für molekulare Physiologie (DE)  
*Studying ciliary trafficking and how it leads to Ras Drug Candidates*

11:15PM – 11:45PM      Oliver Daumke, Max-Delbrück-Center for Molecular Medicine (DE)  
*Structure, function and mechanisms of dynamin superfamily proteins*

11:45PM – 12:15PM      Short Talk Selected From Submitted Abstracts

12:15PM – 1:15PM      Lunch

1:15PM – 2:15PM      Meet the Expert

### **Free Afternoon**

4:00PM – 6:00PM      *Poster Session 2*

6:00PM – 7:00PM      Dinner

### **Session 4 - Small GTPases in the endocytic system**

**7:00PM – 9:45PM      Session Chair: Julie Donaldson, National Institutes of Health (USA)**

7:00PM - 7:30PM      Julie Donaldson, National Institutes of Health (USA)  
*Coordination of Endocytosis and Endosomal Sorting by Rabs and Arf 6*

7:30PM – 8:00PM      Rafael Mattera, National Institutes of Health (USA)  
*Rab5 and the FHF complex regulate neuronal polarity through retrieval of somatodendritic proteins from the axon*

8:00PM - 8:15PM      Short Talk Selected From Submitted Abstracts

8:15PM – 8:45PM      Break

- 8:45PM – 9:15PM      Silvia Corvera, UMASS Medical School, USA  
*Links between Rab effectors and human disease*
- 9:15PM – 9:45PM      Christian Ungermann, University of Osnabrueck, DE  
*Unraveling the role of the GEF Mon1-Ccz1 in Ypt7 activation and membrane fusion*

## Wednesday, September 21

- 7:30AM – 9:00AM      Breakfast

### **Session 5 - Small GTPases in the secretory system**

**9:00AM – 12:15PM      Antonella De Matteis, Telethon Institute of Genetics and Medicine (IT)**

- 9:00AM - 9:30A      Elizabeth Stzul, UAB School of Medicine (USA)  
*Regulating the regulators: turning on the GEFs at the right time and place for ARF activation*
- 9:30PM –10:00AM      Sean Munro, MRC Laboratory of Molecular Biology (UK)  
*Small GTPases and the organisation of the Golgi apparatus*
- 10:00AM – 10:30AM      Antonella De Matteis, Telethon Institute of Genetics and Medicine (IT)  
*Regulation and role of the ER-Golgi contact sites*
- 10:30AM – 11:00 AM      FASEB Sponsored Coffee Break
- 11:00AM – 11:30 AM      Short Talks Selected From Submitted Abstracts
- 11:30AM – 12:00 AM      Cathy Jackson, Université Paris (FR)  
*Parallels between ER-Golgi traffic and macroautophagy*
- 12:00 – 12:30PM      Bruno Goud, Institut Curie (FR)  
*Multiple roles of the RAB6 GTP-ase in transport events at the Golgi level*
- 12:30PM – 1:30PM      Lunch
- Free Afternoon**
- 4:00PM – 6:00PM      *Poster Session 3*
- 6:00PM – 7:00PM      Dinner

### **Session 6 - Small GTPases in membrane trafficking in specialized cells**

**7:00PM – 9:45PM      Session Chair: Marino Zerial, Max Planck Institute CBG (DE)**

- 7:00PM - 7:30PM      Marino Zerial, Max Planck Institute CBG (DE)  
*The role of Rab5 in endosome biogenesis, fusion and signalling*
- 7:30PM – 8:00PM      Short Talks Selected From Submitted Abstracts

8:00PM – 8:30PM	Break
8:30PM – 8:45PM	Short Talk Selected From Submitted Abstracts
8:45PM – 9:15PM	Jenny Stow, The University of Queensland (AU) <i>Rab-mediated regulation of signaling and cytokines in macrophages</i>
9:15PM – 9:45PM	Mitsunori Fukuda, Tohoku University (JP) <i>Regulation of podocalyxin trafficking by Rab small GTPases in epithelial cells</i>

## Thursday, September 22

7:30AM – 9:00AM Breakfast

### **Session 7 - Autophagy**

**9:00AM – 12:15PM      Session Chair: Nava Segev, University of Illinois (USA)**

9:00AM - 9:30AM      Nava Segev, University of Illinois (USA)  
*Ypts in generic and selective autophagy*

9:30PM – 10:00AM      Sharon Tooze, Francis Crick Institute (UK)  
*Regulation of Autophagy by TRAPPIII and TBC1D14*

10:00AM – 10:30 AM      **EMBO Young Investigator Lecture**  
Sascha Martens, Max F. Perutz Laboratories (DE)  
*Molecular Mechanisms of selective Autophagy*



10:30 AM – 11:00 AM      FASEB Sponsored Coffee Break

11:45AM – 11:30 AM      Timm Maier, University of Basilea (CH)  
*Structural studies on mammalian TOR complex 1*

11:30 AM – 12:00PM      Claudio De Virgilio, University of Fribourg (DE)  
*Regulation of TORC1 by amino acids: a central role for Rag GTPases within the EGO complex*

12:00PM – 12:15PM      Short Talk Selected From Submitted Abstracts

12:15PM – 12:45PM      Business Meeting

12:45PM – 1:45PM      Lunch

### **Free Afternoon**

1:00PM – 6:00PM      Optional Organized Group Activity

4:00PM – 6:00PM      *Poster Session 4*

6:00PM – 7:00PM      Dinner

## **Session 8 - Rag GTPases**

**7:00PM – 9:45PM      Session Chair: Rosa Puertollano, NIH-NHLBI (USA)**

7:00PM - 7:30PM      Andrea Ballabio, Telethon Institute of Genetics and Medicine (IT)  
*Lysosome-to-nucleus signaling via mTOR, TFEB and Rag-GTPases*

7:30PM – 8:00PM      Shawn Ferguson, Yale University (USA)  
*C9orf72-SMCR8 heterodimer controls mTORC1 responses to amino acid availability*

8:00PM – 8:15PM      Short Talk Selected From Submitted Abstracts

8:15PM – 8:45PM      Break

8:45PM – 9:15PM      Roberto Zoncu, UC Berkeley (USA)  
*The lysosome in nutrient sensing and cellular growth control*

9:15PM – 9:45PM      Rosa Puertollano, NIH-NHLBI (USA)  
*Rag GTPases as novel regulators of nutrient sensing and energy metabolism*

## **Friday, September 23**

7:30AM – 8:30AM      Breakfast

## **Session 9 - GTPases and disease**

**9:00AM – 11:30PM      Session Chair: Duarte Barral, Instituto Gulbenkian de Ciência (SP)**

9:00AM - 9:30AM      Duarte Barral, Instituto Gulbenkian de Ciência (SP)  
*A new role for Arl13b in cancer cell migration*

9:30AM – 10:00AM      Dean Li, University of Utah (USA)  
*ARF6 orchestrates oncogenic GNAQ signaling in uveal melanoma*

10:00AM – 10:30AM      Angela Wandinger-Ness, The University of New Mexico (USA)  
*Mathematical Modeling a Direct Coupling between Growth Factor Receptor Signaling, Rab GTPase Activation and Endocytic Trafficking*

10:30AM – 10:45AM      Break

10:45AM – 11:15AM      Philippe Chavrier, Institut Curie (FR)  
*Mechanism of Matrix Metalloproteinase Secretion During Breast Tumor Cell Invasion*

11:15AM – 11:45PM      Closing Comments

12:00PM      Departures

Boxed Lunches Available

## **END OF CONFERENCE**

For additional information contact:

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