

MOLECULAR MECHANISMS OF EXOCYTOSIS & ENDOCYTOSIS
8TH JUNIOR ACADEMICS MEETING
3RD-5TH APRIL 2011, EDINBURGH

SUNDAY 3RD APRIL

12.30pm **Registration, HRB Reception**

1.30pm Opening Remarks (Luke Chamberlain)

1.45-5.55pm SOCIETY FOR ENDOCRINOLOGY SPONSORED SEMINARS

Session 1, HRB Lecture Theatre, Chair: Iain Robinson

1.45pm Giselle Cheung (Edinburgh) ^{ISN}
"Endocytosis and specific synaptic vesicle pool replenishment"

2.25pm Stéphane Ory (Strasbourg) ^{SFE}
"Secretory granule membrane is selectively recaptured after full fusion: role of scramblase?"

3.05pm Alexander Walter (Amsterdam) ^{SFE}
"A sequential secretion model with a single Ca-sensor explains heterogeneity in release kinetics"

3.45pm Coffee/tea break in HRB Library

Session 2, HRB Lecture Theatre, Chair: Mike Cousin

4.15pm Filipe Ferreira (Sheffield) ^{SFE}
"Phosphorylation of clathrin light chain regulates endocytosis"

4.55pm **Plenary Talk**
Sandra Schmid (Scripps) ^{SFE}
"A dual role for Dynamin in Clathrin-mediated endocytosis"

5.55pm Poster session and welcome reception in HRB Library

7.45pm Speakers' dinner at Hotel du Vin (main speakers only)

MONDAY 4TH APRIL

Session 1, HRB Lecture Theatre, Chair: Rory Duncan

- 9.00 am** Short talk selected from submitted abstracts
Olexiy Kochubey (Lausanne) ^{IUBMB}
"Synaptotagmin2 (Syt2) and non-Syt2 Ca²⁺-sensors in the control of transmitter release at the calyx of Held synapse"
- 9.15 am** Short talk selected from submitted abstracts
Katarzyna Miśkiewicz (Leuven) ^{IUBMB}
"Elongator Protein 3 restricts active zone size by acetylating Bruchpilot"
- 9.30am** James Johnson (Liverpool) ^{ISN}
"Analysis of Cysteine String Protein function in C. elegans"
- 10.10am** Esra Demircioglu (Göttingen) ^{IUBMB}
"Understanding SNARE regulation via SM proteins: insights from Sly1p/Sed5p interaction"
- 10.50-11.15** Coffee/tea break in HRB Library

Session 2, HRB Lecture Theatre, Chair: Luke Chamberlain

- 11.15am** Hélia Neto (Glasgow) ^{ISN}
"The role of the Exocyst in cytokinesis"
- 11.55am** Andrew Peden (Cambridge) ^{ISN}
"Insights into constitutive secretion from a SNARE specific siRNA screen"
- 12.35pm** Ralf Mohrmann (Saarland) ^{IUBMB}
"Fast vesicle fusion: All good things come in threes"
- 1.15pm** Lunch in HRB Library

Session 3, HRB Lecture Theatre, Chair: David Apps

- 2.15pm** Emanuel Boucrot (Cambridge) ^{ISN}
"A new pathway of fast endocytosis"
- 2.55pm** Ayal Lavi (Tel Aviv) ^{IUBMB}
"From Neuron to Network: The Role of DOC2B in Late-Burst Activity"
- 3.35pm** Coffee/tea break in HRB Library

Session 4, HRB Lecture Theatre, Chair: Iain Robinson

- 4.00pm** Short talk selected from submitted abstracts
Declan James (Madison) ^{IUBMB}
"Getting ready for exocytosis – Role of the priming protein CAPS in membrane fusion"
- 4.15pm** Short talk selected from submitted abstracts
Arndt Pechstein (Stockholm) ^{IUBMB}
"A novel intersectin 1-mediated mechanism regulates synapsin I-dependent synaptic vesicle clustering"
- 4.30 pm** Short talk selected from submitted abstracts
Benoît Hastoy (Bordeaux) ^{IUBMB}
"Dynamics of the transmembrane domain of Synaptobrevin in exocytosis"
- 4.45 pm** Short talk selected from submitted abstracts
Anna Korniejewska (Liverpool)
"Characterisation of adaptor proteins for Clathrin-mediated synaptic vesicle endocytosis"
- 5.00pm** **Plenary Talk**
Giampietro Schiavo (London) ^{ISN}
"Axonal transport: from in vitro screens to real time in vivo assays"
- 6.00pm** Poster session in HRB Library
- 7.30pm** Conference dinner at The Debating Hall, Teviot Row House (all delegates)

Tuesday 5th April

Session 1, HRB Lecture Theatre, Chair: Rolly Wiegand

- 9.00 am** Short talk selected from submitted abstracts
Marieke Meijer (Ámsterdam) ^{IUBMB}
"Munc18-1 mutations that abolish binding to Syntaxin1a N-peptide and assembled SNARE-complexes support normal synaptic transmission"
- 9.15 am** Short talk selected from submitted abstracts
Annette Denker (Göttingen) ^{IUBMB}
"Investigation of synaptic vesicle recycling in living animals"
- 9.30am** Holger Taschenberger (Göttingen) ^{IUBMB}
"Presynaptic Ca²⁺ influx and vesicle exocytosis at endbulb of Held terminals"
- 10.10am** Anna Fejtova (Magdeberg) ^{IUBMB}
"Molecular mechanism governing adaptive synaptic plasticity: presynapse in focus"
- 10.50am** Tea/coffee break in HRB Library

Session 2, HRB Lecture Theatre, Chair: Mike Cousin

- 11.10am** Christien Merrifield (Cambridge) ^{ISN}
"Single scission-event analysis of ligand triggered GPCR endocytosis"
- 11.50am** Natalia Kononenko (Berlin) ^{IUBMB}
"Cargo-specific sorting of synaptic vesicle proteins at central synapses mediated by stonin 2 in vivo."
- 12.30pm** Closing remarks (Iain Robinson)
- 12.40pm** Lunch and farewell in HRB Library

Key: HRB, Hugh Robson Building, George Square, Edinburgh EH8 9XD

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SFE, travel and subsistence costs of speaker supported by the Society for Endocrinology

IUBMB, travel and subsistence costs of speaker supported by the International Union of Biochemistry and Molecular Biology