

# Day of the IB Graduate Students 2010

Thursday, October 28

*Venue: Delta conference room*

APS conference centre, Zwarte Woud 2, 3524 SJ Utrecht  
The Netherlands

8:45 *Arrival & Coffee / Tea*

9:00 **Opening**

9:05 **Hanka Hennrich** (Membrane Enzymology, Chemistry, Joost Holthuis)

“The flip side of ion transport: molecular dissection of a lipid pump”

9:30 **Maaïke Pols** (Cell Biology, UMCU, Judith Klumperman)

“HOPS component Vps41 is involved in LAMP trafficking and lysosome fusion in mammalian cells”

9:55 **Çetin Ağar** (Haematology, UMCU, Flip de Groot)

“Beta2-glycoprotein I, a novel protein in innate immunity”

10:20 *Coffee / Tea*

10:50 **Edo Elstak** (Cell Biology, UMCU, Peter van der Sluijs)

“The munc13-4 rab27 complex promotes tethering and release of secretory lysosomes”

11:15 **Mijke Vogels** (Biochemistry and Cell Biology, Vet. Sciences, Bernd Helms)

“Proteomic identification of a novel host factor involved in *Salmonella* infection”

11:40 **Tanya Didenko** (CPC, Chemistry, Stefan Rüdiger)

“Interaction of molecular chaperone Hsp90 with protein kinase A”

12:05 *Lunch; Coffee / Tea*

13:15 **Marne Hagemeijer** (Virology, Vet. Sciences, Xander de Haan)

“Assembly and dynamics of coronavirus replication complexes”

13:40 **Jason Tsai** (Biochemistry and Cell Biology, Vet. Sciences, Bart Gadella)

“Stable acrosome docking to the sperm plasma membrane is a preparative step required for mammalian fertilization”

14:05 **Chris Emmerson** (Cellular Dynamics, Biology, Edward Dolk)

“Characterization and exploitation of the transcytotic pathway in polarized cells”

14:30 *Coffee / Tea*

14:45 **Workshops/IB staff members meeting**

16:00 **Winner of the IB Publication Prize 2010**

16:45 *Closure and drinks*

Registration before 18 October via:

<http://www.biomembranes.nl/students/index.php> or e-mail to [h.decock@uu.nl](mailto:h.decock@uu.nl)

## **Workshops IB AiO day 28-10-2010**

**Time: 14.45-15.45**

**1. Arturo Zychlinsky** (*Niger room*)

**"NETs from infection to autoimmunity"**

**2. Sean Munro** (*Loire room*)

**"What can transmembrane domains tell us about the secretory pathway?"**

**3. Christian Gachet** (*Donau room*)

**"Purinergic receptors in atherothrombosis"**

**4. Walter Nickel** (*Eufraat room*)

**"Unconventional Protein Secretion"**

**5. Vojo Deretic** (*Marwijne room*)

**"Autophagy"**

### **Papers to be studied**

#### **workshop 1**

- Venizelos Papayannopoulos and Arturo Zychlinsky; Trends in Immunology 2009; Vol.30 No.11, 513-21

#### **workshop 2**

- Bretscher and Munro (1993) Cholesterol and the Golgi apparatus. Science 261, 1280-1281. (PMID: 8362242)
- Mitra et al (2004) Modulation of the bilayer thickness of exocytic pathway membranes by membrane proteins rather than cholesterol. Proc Natl Acad Sci USA 101, 4083-4088. (PMID: 15016920)
- Sharpe et al (2010) A comprehensive comparison of transmembrane domains reveals organelle-specific properties. Cell 142, 158-169. (PMID: 20603021)

#### **workshop 3**

- Hechler et al., Circulation 2008

#### **workshop 4**

- Duran et al. 2010, JCB 188:527-536
- Manjithaja et al. 2010, JCB 188:537-546

#### **workshop 5**

- Ponpuak, M., A. S. Davis, et al. (2010). "Delivery of cytosolic components by autophagic adaptor protein p62 endows autophagosomes with unique antimicrobial properties." Immunity 32(3): 329-341.
- Deretic, V. (2010). "Autophagy in infection." Curr Opin Cell Biol 22(2): 252-262
- Deretic, V. and B. Levine (2009). "Autophagy, immunity, and microbial adaptations." Cell Host Microbe 5(6): 527-549