



Molecular basis for membrane remodelling and organization

Organizers: Harvey T McMahon (Cambridge, UK) & Barbara Winsor (Strasbourg, France)



24-28 September 2011

Deadline for application is 20 May 2011

**SPEAKERS
INCLUDE:**

*James E Rothman (Yale)
Pietro DeCamilli (Yale)
Joshua Zimmerberg (NIH)
Ralf Langen (ZNI, Los Angeles)
Bruno Antonny (CNRS, Valbonne)*

*Tom A Rapoport (Harvard)
Shiro Suetsugu (Tokyo Uni)
Matthias Geyer (MPI Dortmund)
Pontus Aspenstrom (Karolinska)
Winfred Weissenhorn (EMBL)*

MAIN TOPICS:

MEMBRANE CURVATURE IN VESICLE FUSION

MEMBRANE CURVATURE IN ENDOCYTOSIS AND VESICLE BUDDING

ACTIN AND ENDOCYTOSIS

SHAPING ORGANELLES AND ORGANISMS

MOLECULAR MODULES THAT INFLUENCE MEMBRANE CURVATURE

VIRUS BUDDING AND FUSION

MEMBRANE DYNAMICS AND DISEASE

BIOPHYSICS OF CURVATURE

METHODS APPLIED TO MEMBRANE CURVATURE, INSERTION AND DIFFUSION

(SHORT TALKS WILL BE CHOSEN FROM SUBMITTED ABSTRACTS)

ABSTRACT:

MEMBRANES ARE DIRECT PLAYERS IN CELL PHYSIOLOGY, ORGANELLE FUNCTION, INTRACELLULAR TRAFFICKING AND IN DYSFUNCTIONS SUCH AS ALZHEIMER'S DISEASE, CHRONIC INFLAMMATION, VIRAL INFECTIONS AND METASTATIC CELL DIVISION.

THIS CONFERENCE WILL FOCUS ON MEMBRANE SHAPE AND ITS CONSEQUENCES, AND WILL INTRODUCE KEY DEVELOPMENTS IN THIS FIELD.

