Seminar

Seeing is believing: imaging cells and molecules by cryo-EM

Friedrich Förster

Utrecht University, The Netherlands

When & where

Friday 13 December 2019
13:00 – 14:00 hrs
Figdor Lecture Theatre
Route 289

Host

Jenny van der Wijst,
Dept. of Physiology

Registration

Not required

Abstract

Complexes that are associated to lipid membranes and transient carry out many important cellular functions, but their structures are largely elusive to date. We study such macromolecular complexes in situ using cryo-electron microscopy techniques, protein-protein interactions, and computational modeling. Specifically, we are interested in the structural basis of ER- and mitochondria-associated protein biogenesis and degradation and in the development of the required methodology.

Key Publications

- Braunger K, Pfeffer S, Shrimal S, Gilmore R, Berninghausen O, Mandon EC, Becker T, Förster F, Beckmann R. Structural basis for coupling protein transport and N-glycosylation at the mammalian endoplasmic reticulum. *Science* (2018).
- Pfeffer S, Dudek J, Schaffer M, Ng BG, Albert S, Plitzko JM, Baumeister W, Zimmermann R, Freeze HH, Engel BD, Förster F. Dissecting the molecular organization of the translocon-associated protein complex. *Nat Comm* (2017).

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