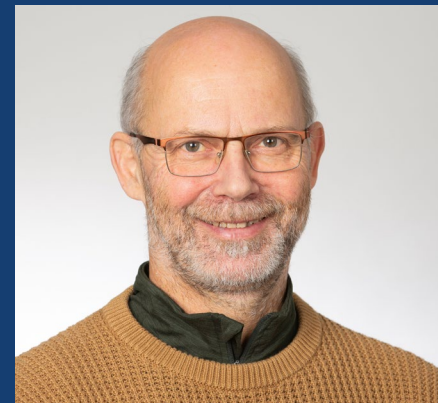


# INVITATION CMMC SEMINAR

**Prof. Dr. Hans-Arno Müller**

Institute of Biology  
University of Kassel, DE



## Control of membrane growth by posttranslational mechanisms during *Drosophila* midblastula transition

Prof. Dr. Arno Müller is a leading developmental geneticist studying dynamic cell behaviors during *Drosophila melanogaster* embryogenesis. His research has notably advanced the understanding of cellular dynamics during embryogenesis, particularly through his innovations regarding the development of advanced microscopy techniques (e.g. plane illumination microscopy - SPIM).

His team uncovered that plasma membrane growth during the midblastula transition (MBT) relies on posttranslational modifications by Dop, the single fly homolog of Microtubule-associated Serine/Threonine (MAST) kinases, associated to various human diseases. In his talk, he will present experimental evidence for the role of this mechanism in polarized membrane growth at MBT and provide insights into the broader functions of MAST kinases in humans.

**February 10, 2025  
01.00 p.m.**

**Seminar Room  
CMMC Research Building**  
Robert-Koch-Str. 21, 50931 Cologne

Host:  
Prof. Dr. Andreas Wodarz  
Institute I of Anatomy and CMMC



Information