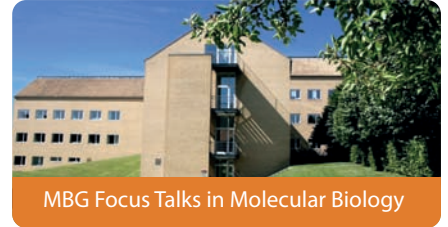


MBG FOCUS TALK

hosted by Erik Østergaard Jensen



Friday June 19 at 9:15 - 10:00

The conference room, building 3130-303, Gustav Wieds vej 10c

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Exploring the interface between nucleo-cytoplasmic transport and ribosome assembly

Eukaryotic ribosome assembly is a spectacular example of a highly dynamic process that spans different cellular territories: the nucleus, nucleoplasm and the cytoplasm. This poorly understood process, which begins in the nucleolus, requires >350 conserved transiently associating assembly factors, whose site(s) of action and precise function(s) on evolving pre-ribosomal particles are only beginning to be elucidated. Further, production of ribosomes relies on an active nucleo-cytoplasmic transport machinery: the nuclear import machinery ensures delivery of newly synthesised ribosomal proteins to assembling pre-ribosomal particles in the nucleolus, the site of biogenesis, and the nuclear export machinery transports correctly assembled pre-ribosomal particles through nuclear pore complexes into the cytoplasm, the site of function. I will elaborate on two works from our laboratory that are beginning to illuminate the uncharted interface between the nucleo-cytoplasmic transport machinery and the ribosome assembly pathway.