



FROM VISION TO DECISION

## SEMINAR FRIDAY 06.11.2015

MedViz Facilities, Møllendalsbakken 7, 5<sup>th</sup> floor, 12:00-13:00

### Super-Resolution Microscopy



#### Fritz Thorsen

**Title:** *Update on Euro-Biolmaging and Super Resolution*

##### **Abstract**

Euro-Biolmaging (EuBI) is a European imaging infrastructure, aiming to provide access, service and training to state-of-the-art imaging technologies. EuBi is soon entering the operation phase, where Norway will be represented with two imaging nodes. This lecture will summarize achievements made so far, and layout for securing open access in future, to European imaging instrumentation. One of the Norwegian nodes successfully applied to The Norwegian Research Council for funding, to purchase super resolution microscopes. This lecture will end by briefly describing principles of super resolution, with some potential applications.



#### Stig Ove Bøe

**Title:** *Visualization of nuclear import activation in post mitotic cells*

##### **Abstract**

When cells enter mitosis, nuclear residence proteins are released into the cytoplasm due to breakdown of the nuclear envelope. At exit from mitosis, the nuclear membrane is reformed concomitant with reactivation of the nuclear import machinery and recycling of nuclear proteins from the cytoplasm to the nucleus. The process of release and recycling of nuclear proteins during mitosis have important implications for growth control, cell fate determination and tumor suppression. We have employed a number of microscopy techniques, including super-resolution microscopy, correlative light and electron microscopy and high resolution live cell microscopy to visualize mitotic transport and post mitotic nuclear import of the tumor suppressor protein promyelocytic leukemia (PML). At this seminar I will present recent, unpublished data from these studies.

