

## Joint DANDRITE & iNANO Topical Seminar

**Tuesday 31 May 2016**  
10.15 – 11.00

The iNANO Auditorium (building 1593, basement level, room 012)  
Gustav Wieds Vej 14, 8000 Aarhus C



### Rafael Fernández Leiro

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### Mechanistic insights on DNA replication and repair by cryo-EM

New advances in cryo-electron microscopy (cryo-EM) have opened the window to near atomic resolution structures of much smaller and challenging biological systems. Thanks to the development of methods that can deal with compositional and conformational heterogeneity, also transient and highly dynamic complexes can now be studied. I have used cryo-EM to study how the bacterial DNA replication and mismatch repair machineries work and regulate their function. I will discuss what we have learnt from these studies and the new opportunities that cryo-EM offers to structural biology research.

**Host:** Group Leader Poul Nissen, DANDRITE, Aarhus University

