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## NICHOLSON LECTURE

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# NICHOLSON LECTURE

# Connecting Chromosome Replication and Segregation: DNA Topology and SMC Complexes

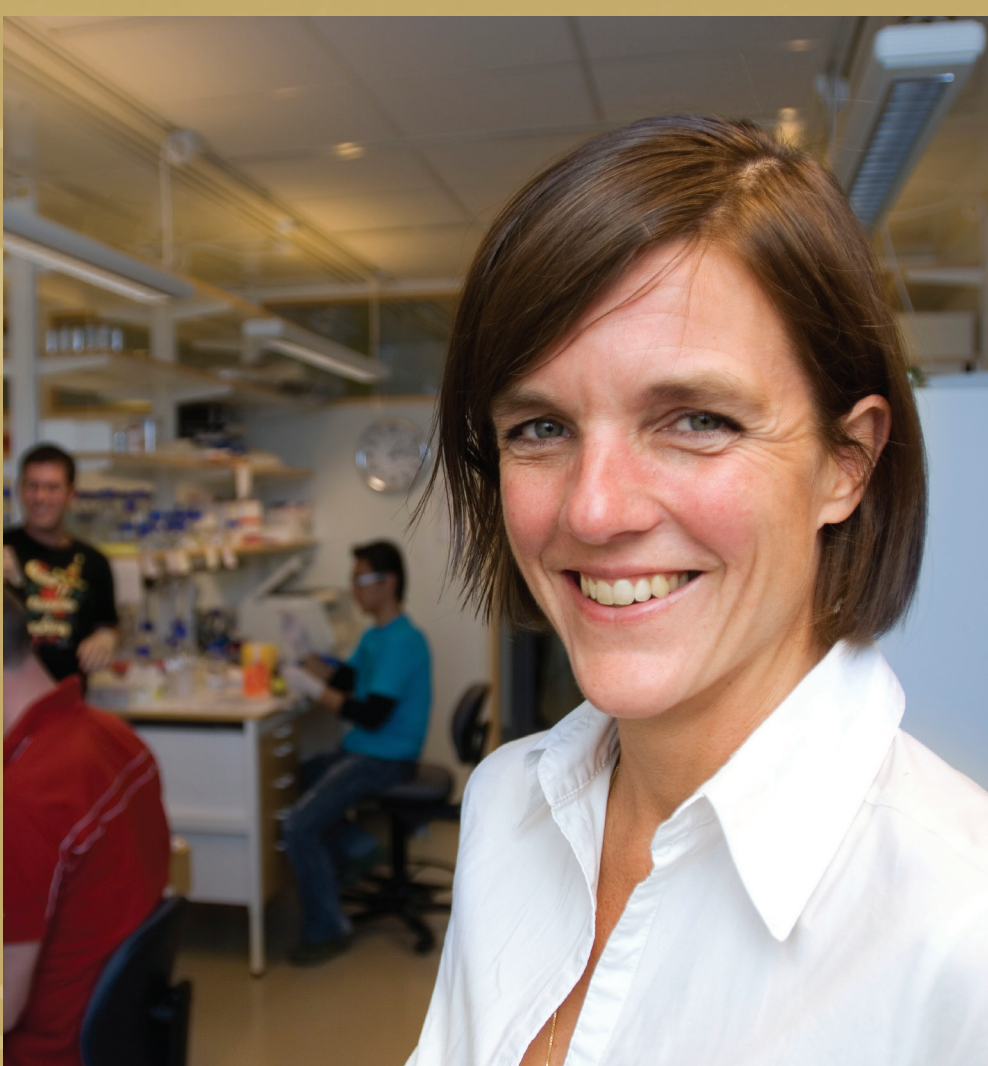
Camilla Sjögren, Ph.D.

Professor, Karolinska Institutet, Department of Cell and Molecular Biology

Friday, October 31, 2014

3:15 p.m. Refreshments | 3:45 p.m. Lecture

Casparry Auditorium



Camilla Sjögren, Ph.D.

Dr. Sjögren is interested in structural maintenance of chromosomes (SMC) protein complexes, and their role in controlling sister chromatid intertwinings (SCIs) that occur when a pair of chromatids become entangled. Although SCIs obstruct chromosome segregation they may also have positive roles in genome stability. Her lab's results suggest that one SMC complex, Smc5/6, is a marker for SCIs on budding yeast chromosomes and may facilitate SCI resolution through the stimulation of topoisomerases. Dr. Sjögren is a member of the European Molecular Biology Organization (EMBO), the Swedish Royal Academy of Sciences, and the Nobel Assembly at Karolinska Institutet.

The Nicholson Lectures Program consists of two annual faculty lectures and is part of a cooperation agreement initiated in 2010 between The Rockefeller University and Karolinska Institutet. One Nicholson Lecture will be held at each of the universities by a visiting professor. Rockefeller University's Titia de Lange spoke at Karolinska in June.