

13. BioSC Lecture



„ Protein stability engineering as a workhorse for a sustainable bioeconomy“

Jens Erik Nielsen, Director, HTS and Design, Novozymes A/S

Enzymes are among the most efficient and specific catalysts known, and are applied widely in industrial processes and household applications. However, enzymes are by nature meta-stable compounds that have to occupy an ordered folded state to be catalytically active. The successful application and competitiveness of enzymes therefore depends on the extent to which enzymes are able to maintain this folded conformation in the industrial/household application and under storage conditions. In the present lecture, I will discuss different strategies for stabilizing enzymes and highlight current research at Novozymes aimed at producing enzymes that are stable against a number of harsh conditions.

Date & time: 16. December 2016, 02:30 pm

Where: HHU Düsseldorf, Geb. 26.11, Hörsaal 6D



Jens Erik Nielsen has 8 Years experience as Assistant/Associate Professor, 5 years of experience as an R&D manager in Industry, 25 years of research experience in protein analysis and design, with protein electrostatics as a focus. His specialties are Protein electrostatics, protein pKa calculations, Structural bioinformatics, enzyme structure-function studies, algorithm development for protein structural energy calculations.