

Dear all,

We are happy to announce that Gevorg Grigoryan, Dartmouth College, will give a seminar on Thursday October 8th at **15.15**, lecture room **K:M**. There will be cake and coffee before the seminar, from 15.00, outside the lecture room. Gevorg is also the opponent at the dissertation of Robert Lizatovic on October 9th at 10.00 in lecture hall K:B.

Please forward this to anyone who might be interested.

You are all welcome everyone!

Design and Designability of Protein Structure towards Novel Functions

Abstract:

Nature seems to have “engineered” its protein molecules for remarkably complex tasks in the cell—from sensing and logic, to mechanical force generation, to conversion between light and chemical energy. Protein design is the problem that embodies our desire to do the same. Creating custom protein molecules, by design, to perform desired functions is a new frontier in science that promises to provide novel therapeutics, smart materials, and reagents for biomedical research. In this talk, I will discuss 1) our latest work towards enabling better computational technologies for protein design, 2) our continued efforts towards understanding the limitations of what is designable using protein molecules, and 3) our latest successful computational design endeavors, including the de-novo design of a trans-membrane transporter of Zn(II) ions.

Ingemar André
Biochemistry & Structural Biology
Lund University