

Vabilo na predavanje / Invitation to the lecture

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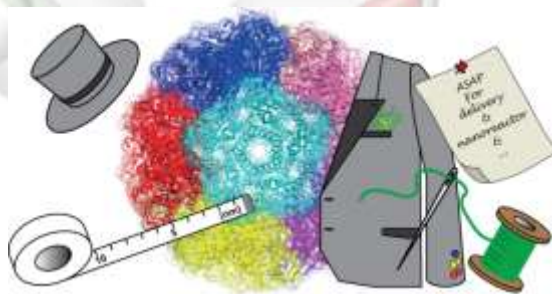
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Fegeševa predavalnica Kemijskega inštituta /
Fegeš Lecture Room, National Institute of Chemistry;
Hajdrihova 19, Ljubljana

Structure and Packaging of Engineered Lumazine Synthase Protein Cages

Abstract: Self-assembling protein cages are widespread in biology. By providing a protective shell for cargo molecules, these nanostructures serve as multi-purpose containers for the transport of viral genomes, storage of metal ions, folding and degradation of proteins, and catalysis of short metabolic sequences. Due to their well-defined structure and amenability to genetic and chemical modification, such protein cages are also attractive platforms for bio/nanotechnological development. In this seminar, I will present our recent work to tailor and diversify the structure of a bacterial nanocompartment formed by the Aquifex aeolicus lumazine synthase. I will also demonstrate the function of these engineered protein cages as nano-sized reaction chambers for catalysis.



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Vljudno vabljeni / Kindly invited