

When: November 30, 16:00 Where: Skoltech, Room 402

CRISPR IMMUNITY IN PYROCOCCUS FURIOSUS



Speaker: Michael **P. Terns,** Ph.D.

Distinguished **Research Professor Biochemistry and** Molecular Biology, **Genetics** and Microbiology University of Georgia

ABSTRACT:

CRISPR-Cas systems are small RNA-based immune systems that control invasions of viruses and other mobile genetic elements in archaea and bacteria. To achieve adaptive and heritable immunity, CRISPR-Cas systems must capture and store short DNA fragments (spacers) from these foreign elements into host genomic CRISPR arrays. I will describe recent work aimed at understanding the mechanisms by which the hyperthermophilic archaeon, Pyrococcus furiosus, selects and integrates new spacers into CRISPR arrays.

RESEARCH AREAS: MOLECULAR GENETICS BIOTECHNOLOGY



RESEARCH INTERESTS

Non-coding RNA function, cancer, and genome defense: biogenesis, trafficking, and function of non-coding RNA-protein complexes; goal to improve understanding and treatment of human disease



LOOKING FORWARD TO SEEING YOU!