

Contr. talk - Production and purification of the K⁺-dependent P-Type ATPase KdpFABC for crystallization and cryo-EM

Tuesday, 25 May 2021 16:10 (20)

At very low extracellular K⁺ concentrations (<100 μM), KdpFABC rescues bacterial cells by taking up K⁺ against an up to 105-fold concentration gradient. To understand the mechanism of this heterotetrameric complex, KdpFABC was purified for functional and structural investigations. A new expression system for KdpFABC was generated, a 3-step chromatographic purification implemented and protein functionality in different detergents as well as in the presence of inhibitors was tested. The work was performed in the lab of Prof. Inga Hänelt at the University of Frankfurt from 2014-2020.

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Session Classification : Session 3 - Chair: Maria Gourdon