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Role of the nucleotidyl cyclase helical domain in catalytically active dimer formation

Biography

Volodymyr Korkhov is an Assistant Professor at the Institute of Biochemistry and Paul Scherrer Institute (PSI, Villigen). Prof. Korkhov has been studying various aspects of membrane protein biology throughout his career. As a PhD student at the Institute of Pharmacology, Vienna Medical University, he studied oligomerization of neurotransmitter transporters. He continued research of multidrug and ABC transporters during his postdoctoral training periods at MRC Laboratory of Molecular Biology (Cambridge, UK) and ETH Zurich, respectively. His work on ABC transporter for vitamin B12 from *Escherichia coli*, BtuCDF, led to a proposal of a complete structure-based mechanism of type II ABC importers. From April 2014, Prof. Korkhov has been leading an independent research group, supported by an SNF Professorship. The overarching topic of research in Prof. Korkhov's group is structure and molecular mechanisms of membrane protein complexes involved in signal transduction.

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