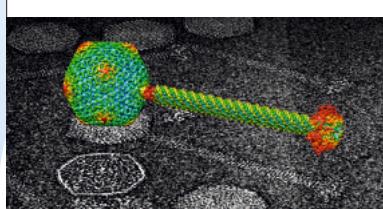


Protein Dynamics Centre

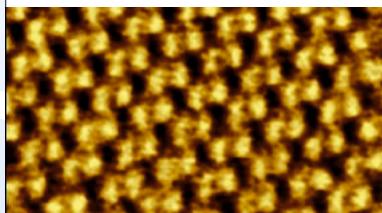
Interreg AT-CZ

Protein Dynamics Centre

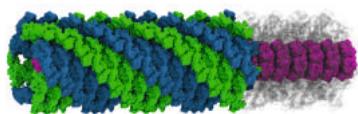
Cryo-EM



High Speed AFM



Computational
Modelling



PDC Technology Platform

High Speed Atomic Force Microscopy

Cryo Electron Microscopy

Computational Modelling

Sub-Molecular Resolution Dynamic Model

Understanding (Implementation cases)

bacteriophages

ribosomes

human viruses

biosynthesis

...

Target Groups

Scientific Instruments Industry

Software Developers

Life Science Researchers

Biotech Industry

Pharma Industry

The Protein Dynamics Centre (PDC) ist a project within the framework of the Interreg AT-CZ programme. CBL (Linz, Austria) and CEITEC MU (Brno, Czech Republic) collaborate to establish an original platform which merges two high resolution microscopy techniques: (1) high-speed atomic force microscopy (HS-AFM), which enables observation of dynamic phenomena at sub-molecular spatial resolution and (2) cryo-electron microscopy (cryo-EM), yielding near-atomic resolution. Main goal of the PDC project is to combine the two types of data using advanced simulation methods in order to provide dynamic models which elucidate molecular mechanisms of fundamental biological processes.

CBL

CENTER FOR
ADVANCED
BIOANALYSIS



CEITEC

central european institute of technology
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