

High pressure protein crystallography

Krzysztof Lewiński and Katarzyna Kurpiewska

Faculty of Chemistry, Jagiellonian University, 30-060 Kraków, ul. Ingardena 3

I. Influence of high pressure on proteins

- compressibility of protein molecule
- effect of pressure on interactions
- effect of pressure on protein structure
- fluctuations and conformers
- effect of proteins on protein aggregates

II. Collection of high-pressure diffraction data

- problems specific for protein crystals
- high-pressure cell
- experimental problems to data collection

III. Achievements and future of high-pressure macromolecular crystallography