

Crystallization of globular proteins

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In the article authors discuss the problem of the crystallization of globular proteins for X-ray diffraction research. A short outline of the general theory of crystallization preceeds the discussion of the characteristics of protein crystallization. Special attention is paid to proteins solubility in different solvents. The review of the methods of crystallization contains all major techniques developed in the course of the last few years. The authors discuss the advantages as well as disadvantages of each method. The examples of the proteins crystallized according to each technique are given. In the last section a brief outline of the techniques of preparation of heavy atom derivatives is given.