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Managing the Misfolding of Membrane Proteins in Structural Biology. Charles R. Sanders, Dept. of Biochemistry and Center for Structural Biology, Vanderbilt Univ., Nashville, TN 37232.

Attaining and maintaining the proper fold of a membrane protein during and after purification is a ubiquitous challenge to structural biologists. Approaches for avoiding or correcting misfolding of membrane proteins are described that range from unfold/refold protocols to methods that seek to avoid misfolding altogether. Also described are methods for optimizing the kinetic and thermodynamic stability of membrane proteins under conditions of solubilization.