



Structure and Action of Molecular Chaperones: Machines that Assist Protein Folding in the Cell (Series in Structural Biology)

Lila M Gierasch, Arthur L Horwich, Christine Slingsby, Sue Wickner, David Agard

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This unique volume reviews the beautiful architectures and varying mechanical actions of the set of specialized cellular proteins called molecular chaperones, which provide essential kinetic assistance to processes of protein folding and unfolding in the cell. Ranging from multisubunit ring-shaped chaperonin and Hsp100 machines that use their central cavities to bind and compartmentalize action on proteins, to machines that use other topologies of recognition binding cellular proteins in an archway or at the surface of a "clamp" or at the surface of a globular assembly the structures show us the ways and means the cell has devised to assist its major effectors, proteins, to reach and maintain their unique active forms, as well as, when required, to disrupt protein structure in order to remodel or degrade. Each type of chaperone is beautifully illustrated by X-ray and EM structure determinations at near- atomic level resolution and described by a leader in the study of the respective family. The beauty of what Mother Nature has devised to accomplish essential assisting actions for proteins in vivo is fully appreciable.

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