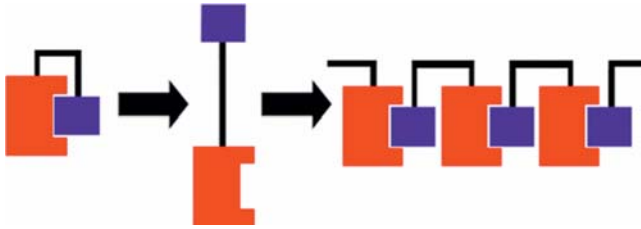
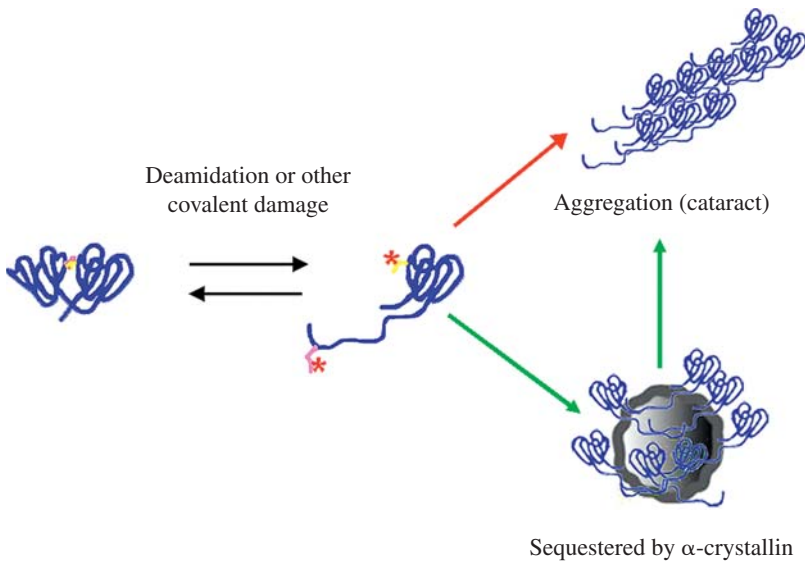


**FIGURE 22.1** Structural illustration of  $\gamma$ -,  $\beta$ -, and  $\alpha$ -crystallins showing (A) human  $\alpha$ B, (B)  $\beta$ B2, and (C)  $\gamma$ D crystallin. (Adapted from [86, 128, 194].)



**FIGURE 22.2** Polymerization by domain swapping.



**FIGURE 22.3** Model of cataract in vitro depicting partially unfolded  $\gamma$ -crystallin that renders the protein aggregation-prone. Such aggregation-prone species can be rescued by  $\alpha$ -crystallins until all the  $\alpha$ -crystallins are consumed, at which point cataract will propagate. (From [117].)