



Figure 5. DCC-mediated Down-regulation of X Chromosomes and the *her-1* Locus

The DCC reduces X expression by half and represses *her-1* expression 20-fold in hermaphrodite somatic tissues. The DCC assembles in XX animals. It is recruited to recognition elements and spreads along both X chromosomes, reducing expression of numerous X-linked genes by 2-fold. It also binds to the upstream region of the autosomal gene *her-1*, and reduces expression by 20-fold (denoted DCC^H to show that the complex that binds to *her-1* lacks the DPY-21 protein). (Adapted, with permission, from Alekseyenko and Kuroda 2004; illustration by Katherine Sutliff [©AAAS].)