



Figure 5. Diagram of the Control of Sex Determination and Dosage Compensation

If the X/A ratio equals 1, a regulatory cascade leads to female sexual development. In females, the presence of the Sxl gene product prevents the translation of the $msl2$ message and the assembly of the MSL complex. If the X/A ratio is only 0.5, absence of the cascade leads by default to male sexual development and to the formation of the MSL complex.