



Figure 10. Regulation of the X chromosomes through the life cycle of an XX hermaphrodite. The X chromosomes are regulated by different mechanisms at different stages and in different tissues: paternal X inactivation in the early embryo, dosage compensation (DC) in the somatic tissues of 30-cell and later-stage embryos and worms, and MES-mediated repression in the germline. In XO male meiosis (not depicted), meiotic silencing of the unsynapsed X by MSUC additionally occurs in the germline.