Maternal exposure to DES during pregnancy.

Exposure to cancer initiating factors (carcinogens, radiation, etc).

2-fold increase in BREAST CANCER.

Puberty

Ovarian estrogen production may trigger additional epigenetic changes.

Epigenetic silencing of genes protecting against cancer and activation of genes promoting cancer.

Increase in number of TEBs/TDLUs where breast cancer is initiated.

Fetal period

Epigenetic reprogramming of cellular signals in:
- F1: Somatic cells
- F1: Germ cells
- F2: Somatic cells & F2: Germ cells etc.

Maternal exposure to DES during pregnancy.

Daughters

2-fold increase in BREAST CANCER.

Adulthood

Ovarian estrogen production may trigger additional epigenetic changes.

Granddaughters

Great granddaughters

Exposure to cancer initiating factors (carcinogens, radiation, etc).