HORMONAL CONTROL OF AMPHIBIAN OOGENESIS

FIGURE 22.23
Control of amphibian oocyte growth and egg maturation by estrogen and progesterone. (A) Gonadotropic hormone stimulates the follicle cells to produce estrogen, which instructs the liver to secrete vitellogenin. This protein is absorbed by the oocyte. (B) After vitellogenesis, again under the influence of gonadotropic hormone, the follicle cells secrete progesterone. Within 6 hours of progesterone stimulation, the germinal vesicle breaks down, initiating the reactions leading to ovulation. (After Browder, 1980.)