**Chemical or Immunocastration**

**Antibodies against LHRH**

• First intracellular messenger of the control of fertility

• Block pituitary secretion of LH and FSH  gonadal dysfunction

• Lamb, Heifer = reduction in fertility

• Vaxstrate – Australia – suppresses ovarian cyclicity for 6 – 8 months

**Immunization against testosterone in rams**

* Not characterized by inhibition of sexual behaviour
* No suppression of testicular function
* Chem-Cast, Improvac – pig

- Improvac® creates a temporary immune response in the boar, producing antibodies which neutralise gonadotrophin releasing factor (GnRF), thus blocking the mechanism that controls testicular function.

**Immunization against ova and sperm**

• Antimale or antifemale monoclonal antibodies

• Block gamete interactions – sperm antigens, ZP3 antigen