

The LONG RANGE INTERACTIONS

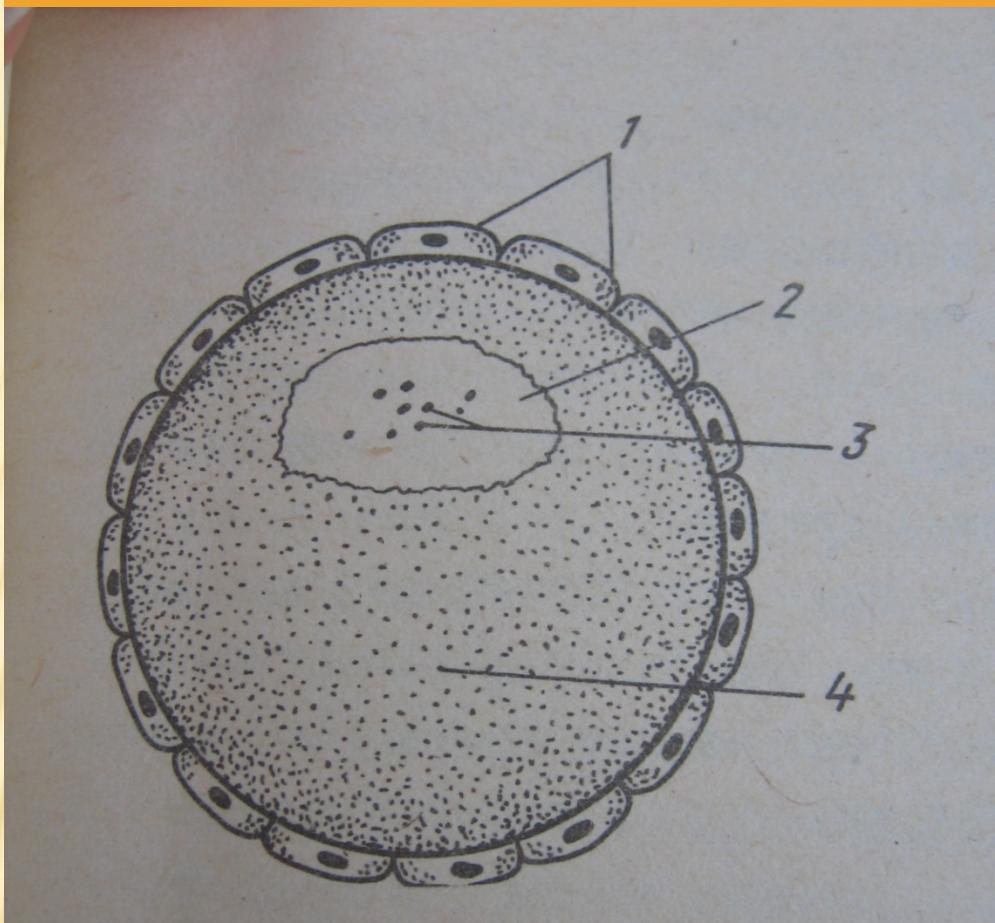
of FISH OVARIAN FOLLICLES

IN VITRO

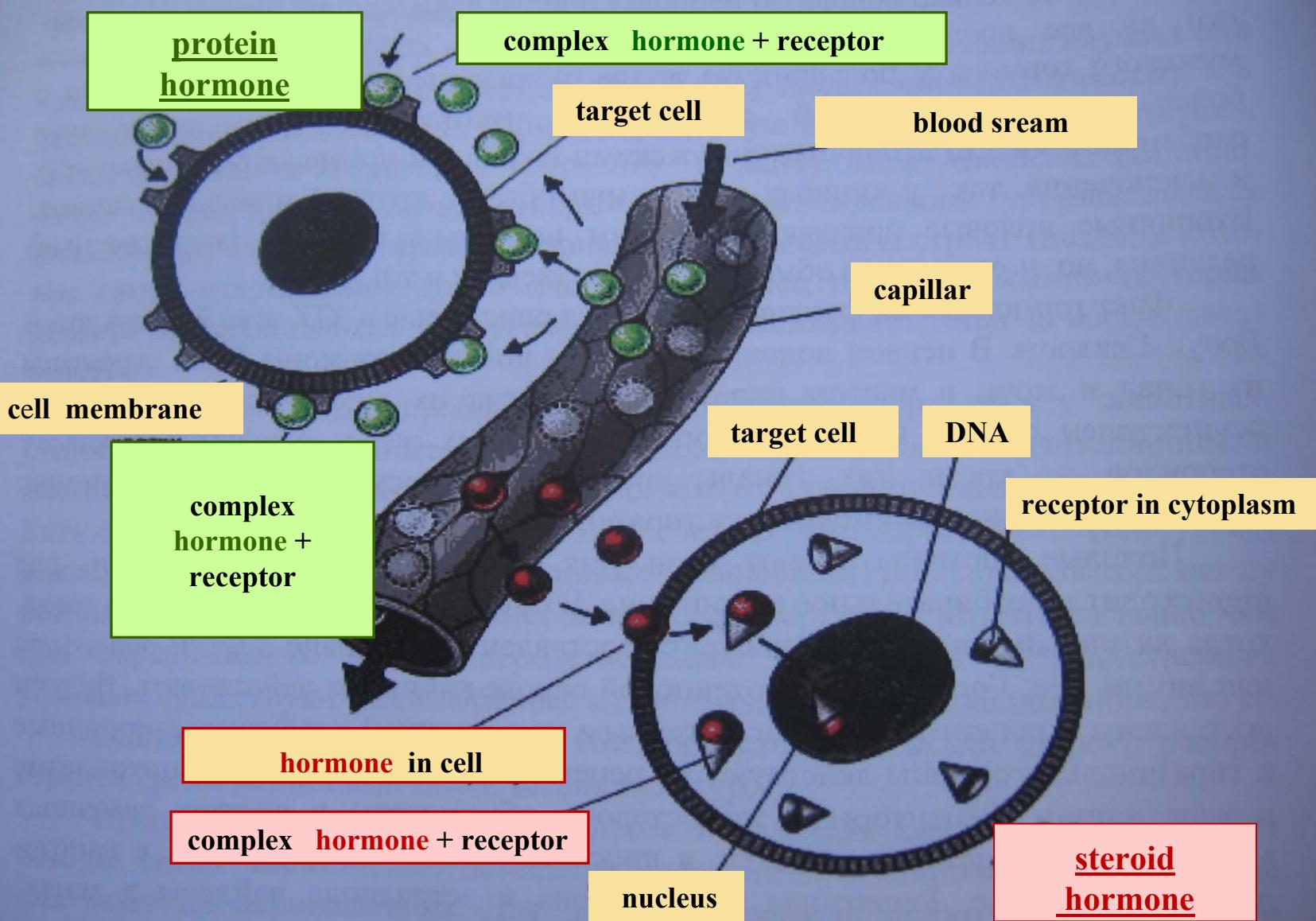
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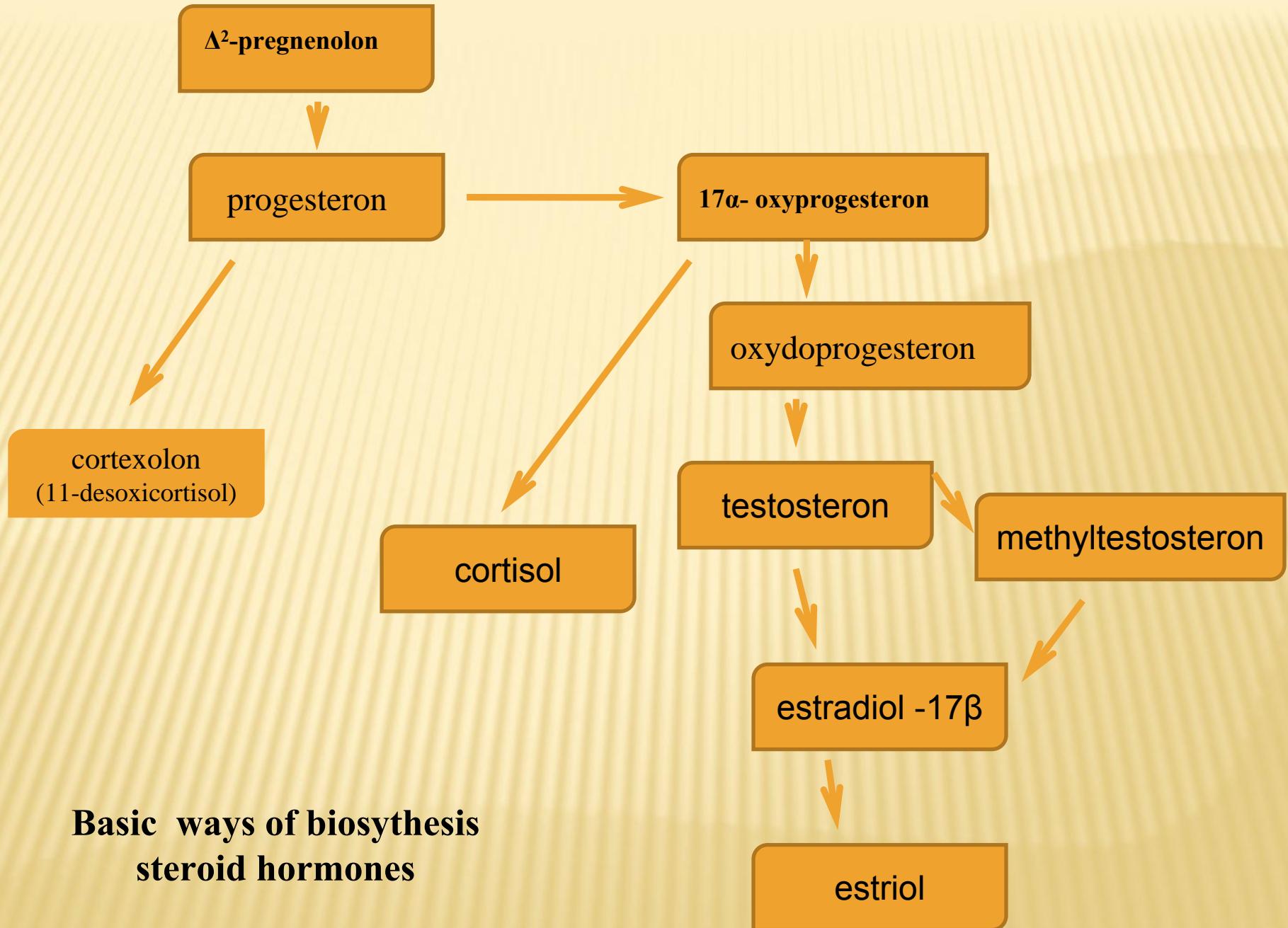
Ovarian follicle before maturation



- 1 – follicular cells;
- 2 - germinal vesicle (nucleus of oocyte);
- 3 – nucleolus;
- 4 - cytoplasm

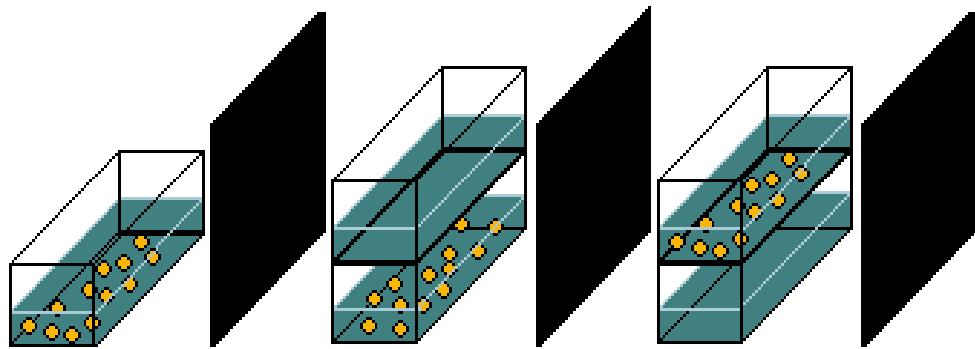


The hormone–receptor interactions in target cells

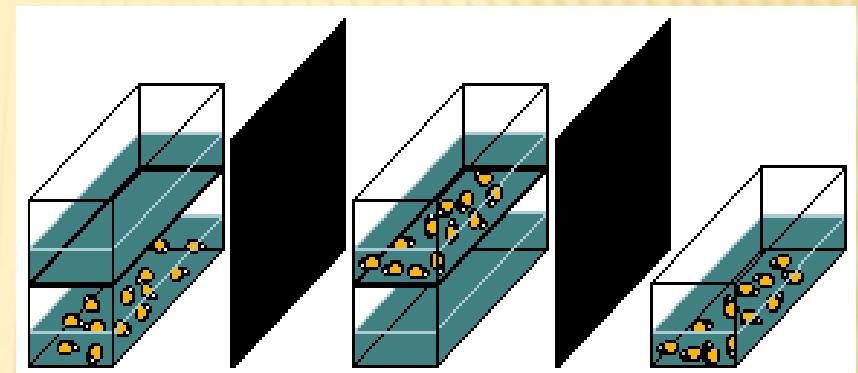


Control series

up-initial dose of hormone

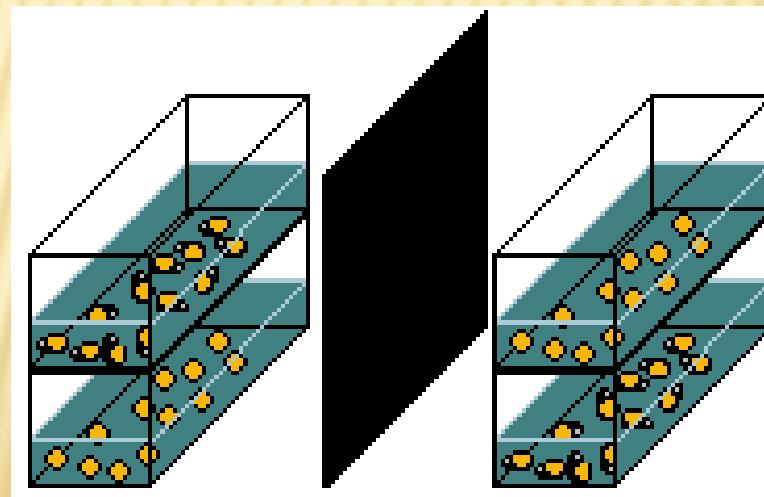


doun-initial dose of hormone



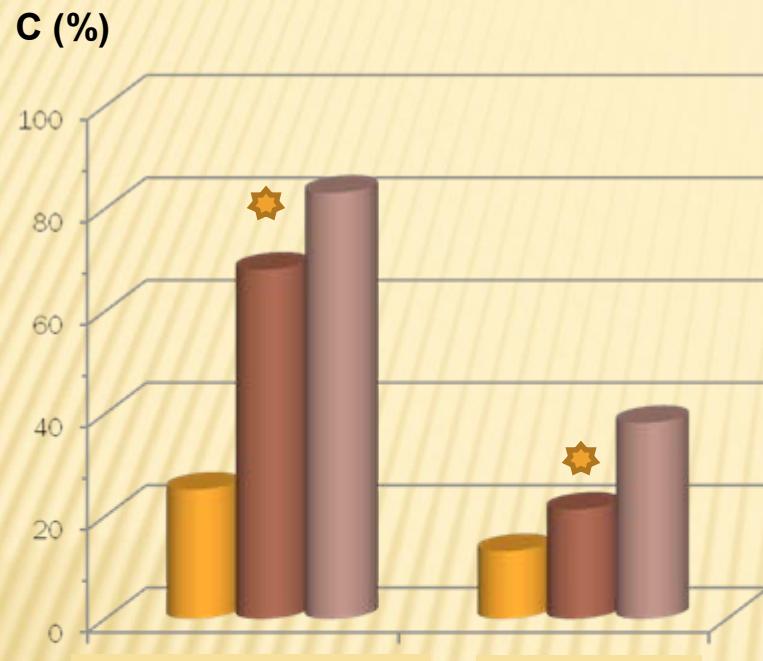
Experimental series

up-initial dose
doun-initial dose



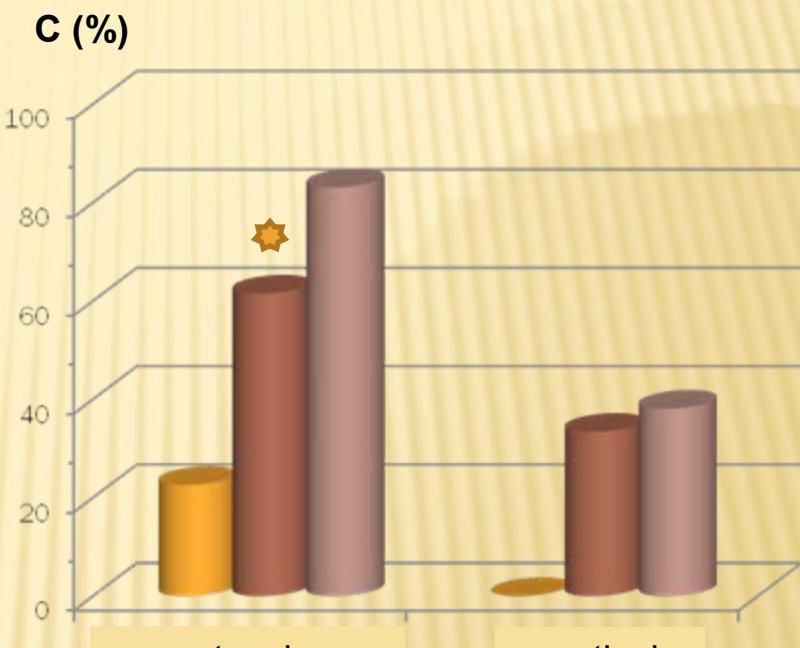
up-initial dose
without hormone

The longe range interaction of ovarian follicles *in vitro* during maturation by corticosteroid hormones



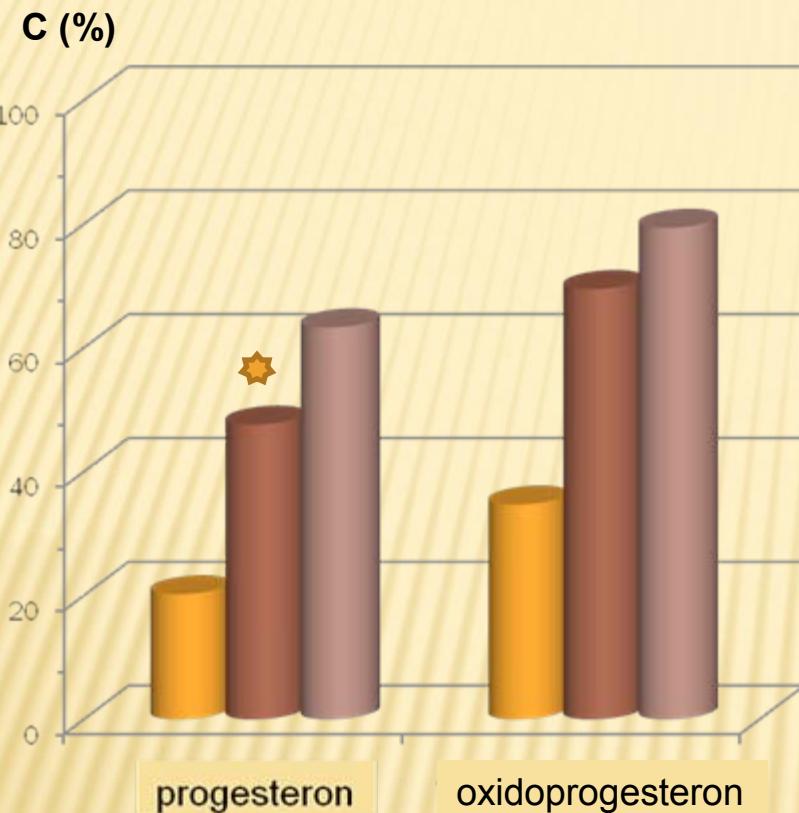
- - experimental group, down-initial dose
- - experimental group, up-initial dose,
- -- control group, up-initial dose

C – % of matural oocytes



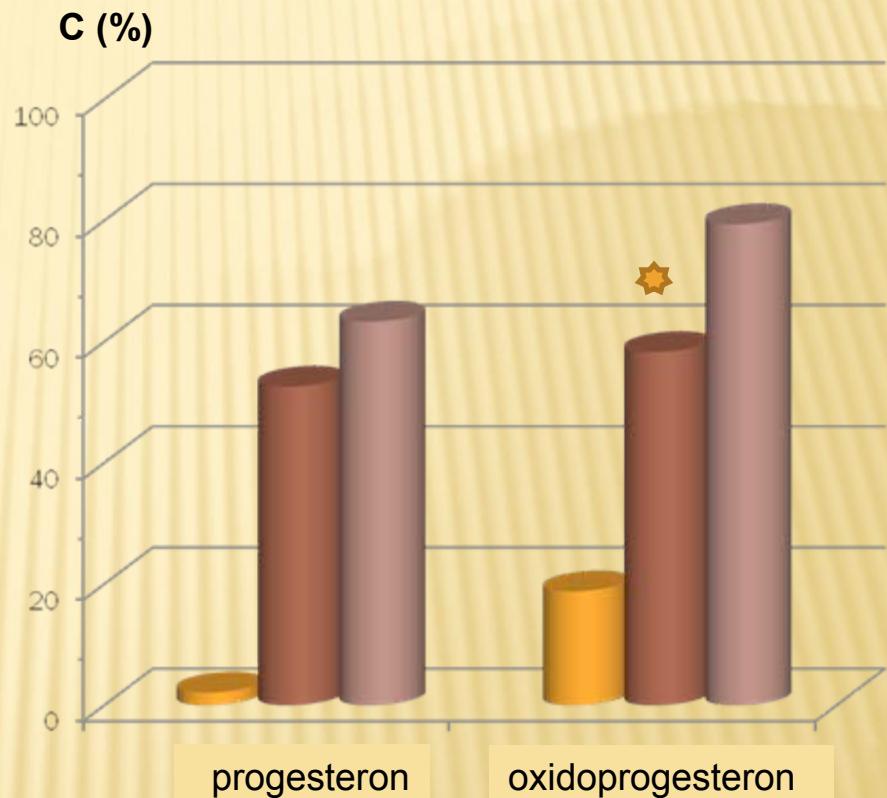
- - experimental group, without hormone
- - experimental group, up-initial dose,
- -- control group, up-initial dose

The longe range interaction of ovarian follicles *in vitro* during maturation by progestines



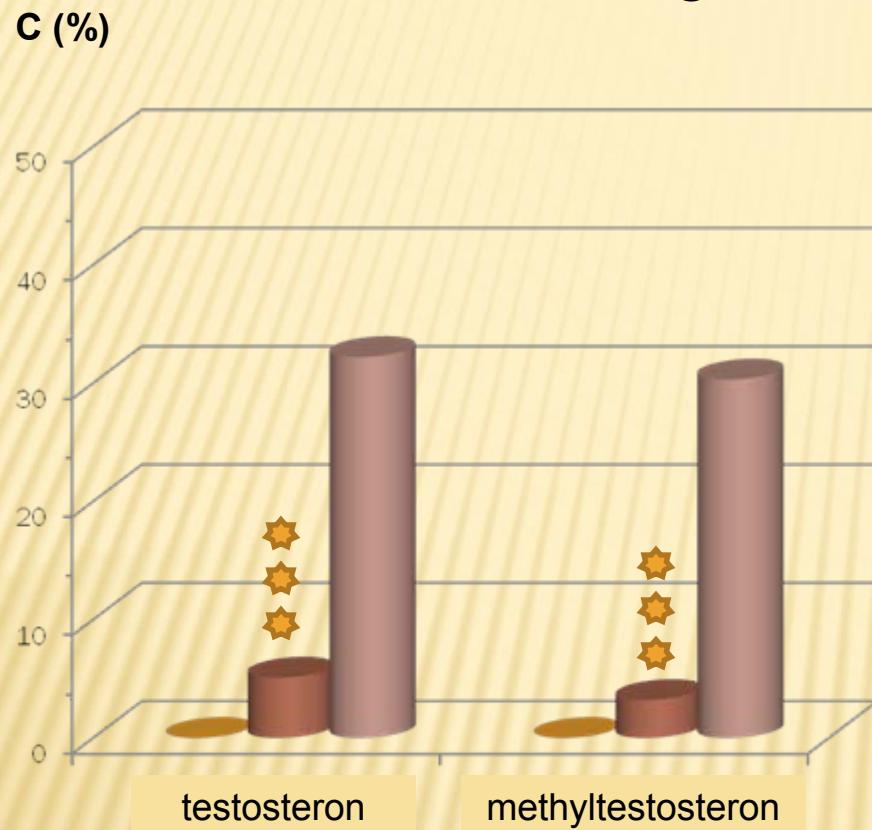
- - experimental group, down-initial dose
- - experimental group, up-initial dose,
- -- control group, up-initial dose

C – % of matural oocytes



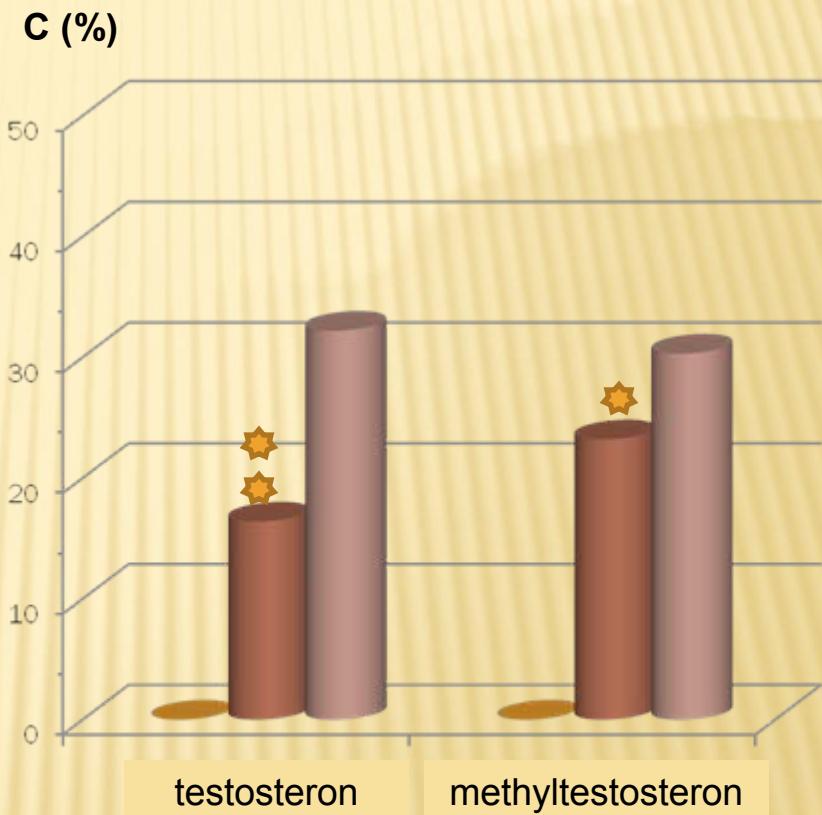
- - experimental group, without hormone
- - experimental group, up-initial dose,
- -- control group, up-initial dose

The longe range interaction of ovarian follicles *in vitro* during maturation by androgenes



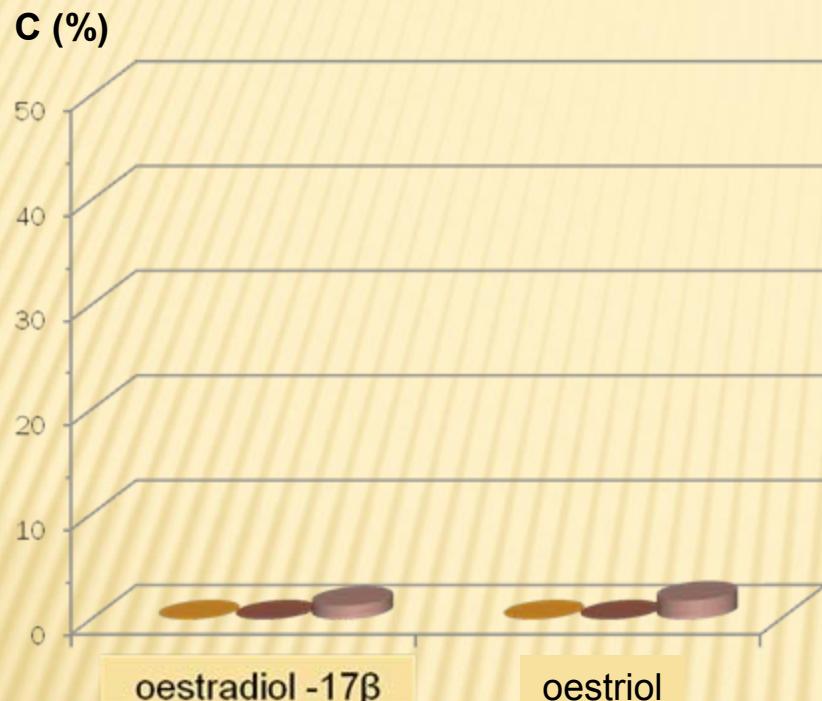
- - experimental group, down-initial dose
- - experimental group, up-initial dose,
- -- control group, up-initial dose

C – % of matural oocytes



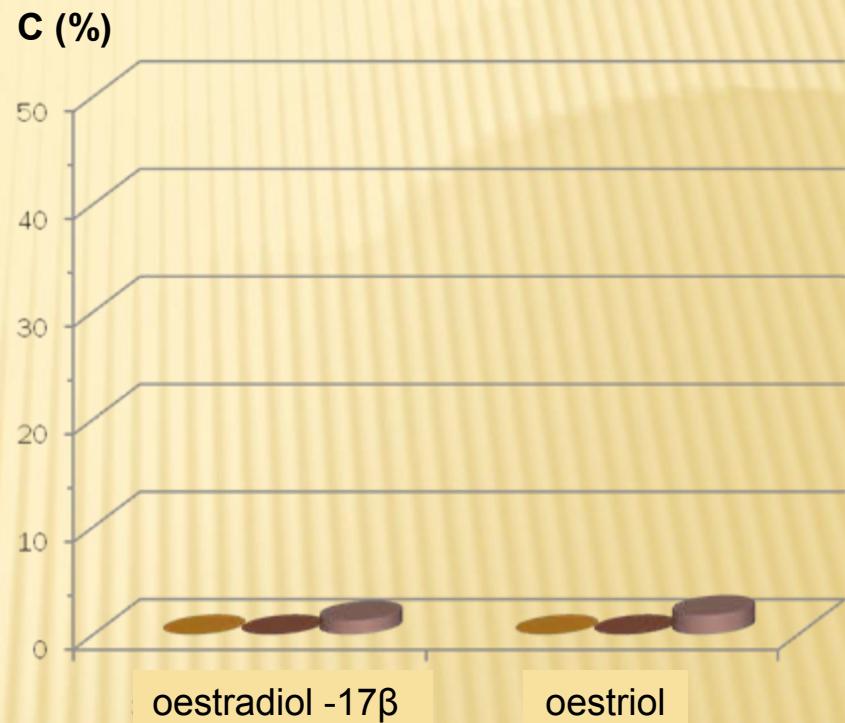
- - experimental group, without hormone
- - experimental group, up-initial dose,
- -- control group, up-initial dose

The longe range interaction of ovarian follicles *in vitro* during maturation by estrogens



- - experimental group, down-initial dose
- - experimental group, up-initial dose.
- -- control group, up-initial dose

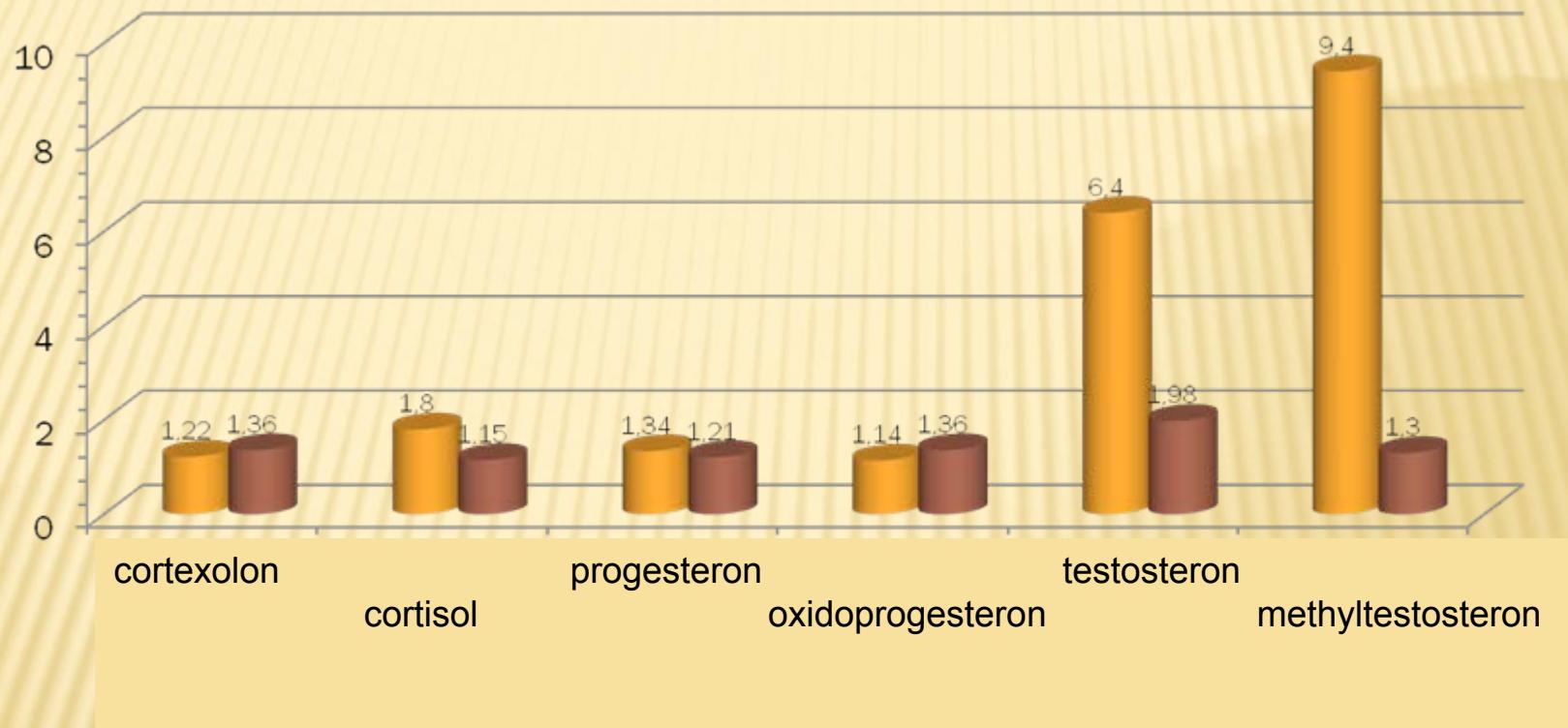
C – % of matural oocytes



- - experimental group, without hormone
- - experimental group, up-initial dose.
- -- control group, up-initial dose

The decrease of the effect of steroid's up-initial dose during the longe range interaction

K (relative units)



- interaction with follicles in down-initial dose of steroid



- interaction with follicles without steroid

$$K = C_{\text{contr, up-initial}} / C_{\text{exper, up-initial}}$$

