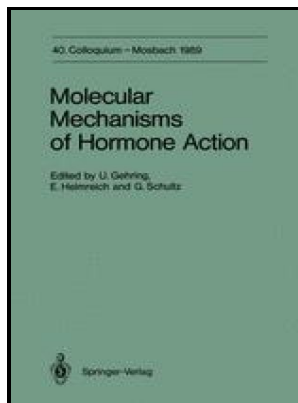


Glucocorticoid hormone action

Springer-Verlag - Mechanism of glucocorticoid action



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Mechanism of glucocorticoid action

Elevated fetal cortisol production enhances cyclooxygenase-2 expression, which increases production of PGs. Muscles have their own internal glycogen supply that allows them to respond to changes in ATP requirements rapidly.

Glucocorticoid hormone action

Resistance, which may involve any of a number of the steps in glucocorticoid action, is frequently due to loss of the specific glucocorticoid receptors.

Mechanisms of glucocorticoid hormone action

In the presence of cortisol, muscle cells decrease glucose uptake and consumption and increase protein degradation; this supplies gluconeogenesis with glucogenic amino acids. Within given species, effects in the offspring are highly dependent on the nature of the exposure to glucocorticoids i.

Glucocorticoid hormone action

The inactive form is converted to its active form by 11-beta-hydroxysteroid dehydrogenase 1 11-beta-HSD1 in most tissues, while 11-beta-HSD2 inactivates cortisol back to cortisone in the kidney and pancreas.

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