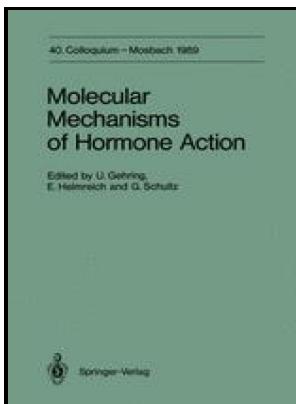


# Glucocorticoid hormone action

## Springer-Verlag - Mechanism of glucocorticoid action



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Monographs on endocrinology ; v. 12 Glucocorticoid hormone 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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