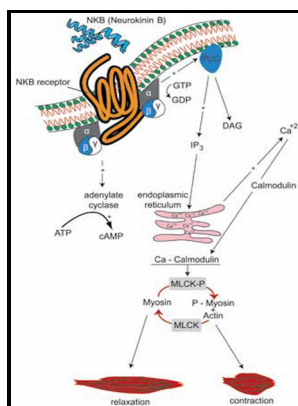


# Parathyroid polyhormone action on the contractility of pregnant mouse uterus - role of nitric oxide

University of Portsmouth, School of Pharmacy and Biomedical Sciences - Normal parathyroid function: How parathyroid glands work, Parathyroid hormone (PTH) production, and controlling calcium in bones and blood.



Description: -

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## Reduced Blood Pressure and Increased Sensitivity of the Vasculature to Parathyroid Hormone

Species Gestational Length days Placentation Fetus Reproductive Biology Advantages Disadvantages Mouse 18 Nonvillous hemochorial Multiple fetuses; delayed myelination of cerebral white matter Corpus luteum is source of progesterone; progesterone withdrawal precedes parturition Inexpensive and readily available; genetic manipulation is possible knockout variants are available Progesterone dependence; delayed cerebral maturation; short gestation Rat 21 Nonvillous hemochorial Multiple fetuses; delayed myelination of cerebral white matter Corpus luteum is source of progesterone; progesterone withdrawal precedes parturition Inexpensive and readily available Progesterone dependence; delayed cerebral maturation; short gestation Rabbit 31 Discoid hemoendothelial Multiple fetuses Corpus luteum is source of progesterone; progesterone withdrawal precedes parturition Transcervical inoculation of infectious stimuli possible Intermediate expense; progesterone dependence Sheep 150 Cotyledonary syndesmochorial Single fetus; myelination of cerebral white matter similar to that in humans; fetal growth similar to that in humans Cortisol surge precedes parturition Continuous access to intrauterine environment and myometrial contractility by chronic instrumentation Expense; cortisol and progesterone dependence Nonhuman primate 167 Discoid hemochorial Most similar to humans; single fetus; myelination of cerebral white matter similar to that in humans; fetal growth similar to that in humans Fetal HPA activation Most similar to human parturition; continuous access to intrauterine environment and myometrial contractility by chronic instrumentation Expense; limited availability NOTE: For reference, human parturition is characterized by a single fetus with a gestational length of 280 days and discoid hemochorial placentation; fetal hypothalamic adrenal axis activation, which is possibly influenced by placental CRH, occurs before parturition; fetal cerebral white matter maturation occurs at about 70 percent of the length of gestation; and no systemic progesterone withdrawal occurs.

## Parathyroid hormone

Before term, the uterus undergoes activation phase 1 and stimulation phase 2. Am J Physiol Endocrinol Metab.

## Induction of Epithelial Cell Apoptosis in the Uterus by a Mouse Uterine Ischemia

Proposed Mechanism of Labor Induction at Term. Another important factor involved in ovarian function is microRNA-375 miR-375.

### **Transforming growth factor $\beta$ signaling in uterine development and function**

In vivo studies have also found significant correlations between maternal psychosocial stress and the levels of CRH, ACTH, and cortisol in maternal plasma. Prostaglandin increases MMP-1 and MMP-3 levels in fibroblasts.

### **Altered responses to bacterial infection and endotoxic shock in mice lacking inducible nitric oxide synthase**

Interestingly, at the higher doses of PTHrP- 1—34 , the relaxation response observed in transgenic mice was similar in endothelium-intact and denuded aortic preparations. It is likely that genetic differences in inflammatory responsiveness play a major role in determining whether or not a preterm birth occurs.

## Related Books

- [Molecular basis of neurological disorders and their treatment](#)
- [Rapport van de Commissie alimentatienormen, maart 1978.](#)
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