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Basic Study

Maternal low-protein diet induces persistent expression changes in metabolic genes in male rats

Allan de Oliveira Lira, José Luiz de Brito Alves, Mariana Pinheiro Fernandes, Diogo Vasconcelos, David Filipe Santana, João Henrique da Costa-Silva, Béatrice Moiro, Carol Góis Leandro, Luciano Pirola

Abstract

BACKGROUND

Perinatal exposure to a poor nutritional environment predisposes the progeny to

Match Overview

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Maternal low-protein diet induces persistent expression



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In rats, studies have shown that the consumption of a **low-protein (LP) diet** during the pre- or **postnatal periods induces changes** in **cardiovascular function and predisposes** the offspring to the development of hypertension , .

Cited by: 29

Author: M.A.V. Barros, J.L. De Brito Alves, V.O. N...

Publish Year: 2015

Maternal Low-Protein Diet Induces Gender-Dependent ...

<https://academic.oup.com/jn/article/142/9/1659/4630919> ▼

Jul 25, 2012 · **Maternal dietary protein restriction** throughout **gestation induces** hypomethylation of GR and/or **PPAR α gene** promoters in **male offspring rats** both at weaning and in adults , and a 30% food restriction in pregnant baboons causes hypomethylation of the PCK promoter in fetal liver .

Cited by: 86

Author: Yimin Jia, Rihua Cong, Runsheng Li, Xia...

Publish Year: 2012

Feeding a protein-restricted diet during pregnancy induces ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3191520>

Environmental constraint before birth is associated with increased risk of the **metabolic** syndrome in later life.15 Rodent models of **maternal** under-nutrition during pregnancy **induce** in the offspring **metabolic changes** which resemble the **metabolic** syndrome in humans.16 Feeding pregnant **rats** a protein-restricted (PR) **diet induces** in the offspring ...

Cited by: 47

Author: J. L. Slater-Jefferies, K. A. Lillycrop, P. A. ...

Maternal low-protein diet induces persistent expression



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Maternal low-protein diet induces changes in the ...

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We investigated the effects of a **maternal low-protein diet** on cardiovascular autonomic control in the offspring. Methods and results Male Wistar rats were divided into two groups according to the **diets** of their **mothers** during gestation and lactation: the control (normal **protein**, NP, 17% casein; n = 14) and **low-protein** (LP, 8% casein; n = 14) groups.

Cited by: 29

Author: M.A.V. Barros, J.L. De Brito Alves, V.O. N...

Publish Year: 2015

Feeding a protein-restricted diet during pregnancy induces ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3191520>

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Cited by: 47

Author: J. L. Slater-Jefferies, K. A. Lillycrop, P. A. ...

Publish Year: 2011