

Maternal diet matters

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Maternal diet matters

The molecular impact of dietary fat on the offspring's immunologic, metabolic and pulmonary health

1. Changes in DNA methylation and gene expression drive the adverse metabolic effects observed in offspring exposed to a perinatal high-fat diet. *This thesis*
2. The effect of a maternal high-fat diet on ozone susceptibility in offspring is influenced by offspring sex. *This thesis*
3. Lowered extracellular cytokine levels during polarization of CD4⁺ T cells contribute to the anti-asthmatic effects of maternal supplementation with n-3 polyunsaturated fatty acids. *This thesis*
4. To elucidate the relationship between maternal fatty acid status and offspring health, it is crucial to consider the window of exposure, since maternal fatty acid status changes throughout pregnancy. *This thesis*
5. Litter effects should be taken into account during the design of an experiment when multiparous species are used for studying effects of maternal exposures on offspring health. *This thesis*
6. Dietary recommendations for supplementation with n-3 polyunsaturated fatty acids during pregnancy should include upper dosage limits. *This thesis*
7. Though the fetal genome determines growth potential, it seems that the dominant determinant of fetal growth is the milieu in which the fetus develops. *Godfrey and Barker, 2007. Public Health Nutrition*
8. Maternal diet not only affects the health of the first generation offspring, but of the second and third generation as well, even when those generations consume a normal diet themselves. *Saben et al. 2016. Cell reports*
9. If you can't explain it simply, you don't understand it well enough. *Albert Einstein*
10. Beautiful is what we see, more beautiful is what we know, most beautiful by far is what we don't. *Nicolas Steno*