#### High cholesterol diets modify gene expression in atherosclerosis

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Too much cholesterol in the blood, or high blood cholesterol have chance of getting heart disease. High blood cholest does not cause symptoms, so many people are una their cholesterol level is too high.

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# High cholesterol diets modify gene expression in atherosclerosis



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# Cholesterol :: High cholesterol diets modify gene expression in atherosclerosis

Scientists from the department of Biochemistry and Molecular Biology 1 of the Unive Granada have proven that a high cholesterol diet causes changes in gene expres chicken aortic smooth muscle cells at the early stages of an experimental atheroscleros study associates cholesterol intake with the expression of genes codifying certain person before the disease is detected on blood vessel walls.

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Experts from the University of Granada (Universidad de Granada) carried out reseatherosclerosis from its earliest stages to discover the origin of atheromatous plaques deposits gradually and irregularly formed in the main arteries, causing the narrowing blood vessel. Although there are many causes for this disease, UGR scientists focu smooth muscle cells (SMCs) transformation into dedifferentiated and proliferative cells, carry lipids in culture. In this sense, cells from animals fed with control diet repredifference.

Experts carried out an early cell atherosclerosis experimental model with chickens, a birds develop atherosclerosis very rapidly: a 20-day high cholesterol diet is enough to atheromatous plaques in their arteries.

Experts obtained SMCs from arteries before the formation of the plaques. Ten days a start of the high cholesterol diet – when atheromatous plaques are not still visible u electron microscopic – aortic SMCs are extracted and in-vitro cultured. Experts culture Cs (obtained from animals without a cholesterol dietary supplement) and SMC-Chs (ex

from animals with cholesterol dietary supplement) under the same conditions. After analysis, scientists confirmed that regarding the samples (without cholesterol) modif took place in birds fed with a high cholesterol diet. Differences show that cholesterol changes in messenger RNA synthesis in proteins related to lipid metabolism proliferation and apoptosis (programmed cell de ath) and, therefore, that diet has an ir on gene expression.

Through other studies, these experts discovered that, whilst cholesterol causes cha gene expression, fish oil reverts such changes. In this case, scientists fed the animals high cholesterol diet for ten days, then substituted cholesterol for fish oil (rich in omegange-6 polyunsaturated fatty acids) for another ten days.

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