

# Apolipoproteins E and C1 in the brain: role in Alzheimer's disease

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## **Apolipoproteins E and C1 in the brain: role in Alzheimer's disease**

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20 december 2006

1. 24(S)-hydroxycholesterol regulates lipid supply to neurons during synaptogenesis or neuritic remodelling (*this thesis*).
2. Natural brain specific 24(S)-hydroxycholesterol induces apoE and ABC transporter expression in astrocytes via a Liver X Receptor mediated mechanism (*this thesis*).
3. ApoCI plays an important role in hippocampal-dependent memory functions (*this thesis*).
4. ApoC1, rather than apoE, is the main risk factor for the development of Alzheimer's disease (*this thesis*).
5. Plant sterols enter the brain (*this thesis*).
6. Despite the anti-cholesterol hysteria, research continues to show that cholesterol is one of the most vital and important substance in our brains.
7. Raising cholesterol is generally helpful in improving or preserving cognitive function, not deteriorating it.
8. The new cholesterol-lowering drugs, the statins, can impair synaptic plasticity/cognitive function.
9. The credibility of a biomedical hypothesis correlates with the amount of funding available for it.
10. He who possesses art and science has religion; he, who does not possess them, needs religion.  
(*von Goethe, Johann Wolfgang*)
11. The opposite of a profound truth may be another profound truth.  
(*after Bohr, Niels (1885-1962)*)
12. All locked Dutch bicycles have the same weight.