

THOSE DOORS,  
IT OPENED



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## **THOSE DOORS, IT OPENED**

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the fact that the *de novo* synthesis of cholesterol is inhibited by statins, which are used to treat hypercholesterolemia. The inhibition of cholesterol synthesis by statins is thought to be a major mechanism of their cholesterol-lowering effect.

The synthesis of cholesterol is a complex process involving many enzymes and cofactors. The rate-limiting step in the synthesis of cholesterol is the conversion of HMG-CoA to mevalonate by the enzyme HMG-CoA reductase.

The synthesis of cholesterol is a highly regulated process. The rate of synthesis is controlled by the availability of substrates, the activity of the enzymes involved, and the presence of feedback inhibitors.

The synthesis of cholesterol is essential for the production of cell membranes and the synthesis of steroid hormones. It is also a major component of the diet.

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