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Cholesterol Transport Systems And Their

The authors also report on new developments

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concerning the role of lipoprotein receptors, macrophages and apolipoprotein E polymorphism in cholesterol homeostasis. The combination of general outline form and very specific aspects of cholesterol transport will interest those in other disciplines following developments in the field, as well as ...

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**Cholesterol
Transport Systems
and Their Relation
to ...**

Cholesterol Transport,
Uptake, Control.

Cholesterol is exported
to the peripheral
tissues in LDL and

VLDL. About 70
percent of the

cholesterol molecules
in LDL are esterified

with a fatty acid (for
example, palmitate) on
the OH group (at

Carbon 3; see Figure 1

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). Cells take up cholesterol from the LDL by means of LDL receptors in the outer cell membrane.

Recent **Cholesterol Transport, Uptake, Control**

transport, termed the cholesterol transport system (CTS), to describe body cholesterol metabolism. The novel model not only involves the classical

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view of RCT but also contains other steps, such as cholesterol absorption in the small intestine, low-density lipoprotein uptake by the liver, and transintestinal

Cholesterol lipoprotein transport system: An integrated cholesterol ...

Cholesterol is a molecule required by every cell of the body in fairly large amounts.

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It can be easily synthesised by these cells, or taken up by them from LDL and other ApoB lipoproteins, but cannot be broken down. Cholesterol is not soluble in water, and thus must be carried through the blood on lipoprotein particles.

A short guide to reverse cholesterol transport | The ...

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Cholesterol Transport
Since cholesterol is a water-insoluble molecule it must be packaged for transport within the plasma. The particles that package cholesterol, cholesteryl esters, and triglycerides for transport, are called lipoproteins. There are five main classifications of lipoproteins based on their size and density.

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Cholesterol Transport | Sigma- Aldrich

Cholesterol is usually measured using a cholesterol esterase followed by a cholesterol oxidase linked to a peroxidase-chromogen detection system (Richmond, 1992). Lipoproteins are macromolecules that transport lipids and cholesterol within the bloodstream and can be classified as alpha

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or beta, or by a density value that varies inversely with size.

Lipid Transport - an overview |

ScienceDirect Topics

Cholesterol is a highly insoluble molecule that is transported in the circulation via

endogenous transporters known as lipoproteins.

Lipoproteins mediate the processing and delivery of dietary

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cholesterol to peripheral tissues and help maintaining the homeostatic balance by removing the excess cholesterol from peripheral tissues to the liver.

The role of cholesterol metabolism and cholesterol ...

Abstract Cell membranes actively change their local compositions, serving

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essential biological processes such as cellular signaling and endocytosis. Although membrane dynamics is vital in the cellu...

Ultra-Stable Freestanding Lipid Membrane Array: Direct ...

A lipoprotein is a biochemical assembly whose primary purpose is to transport hydrophobic lipid (also known as fat)

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molecules in water, as in blood plasma or other extracellular fluids. They consist of a Triglyceride and Cholesterol center, surrounded by a phospholipid outer shell, with the hydrophilic portions oriented outward toward the surrounding water and lipophilic portions oriented ...

**Lipoprotein -
Wikipedia**

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Martin Kohlmeier, in Nutrient Metabolism, 2003. Transport and cellular uptake. Blood circulation: All cholesterol in blood is contained in lipoproteins (Lp), and all Lp contain Chol. Lipoproteins are classified based on their buoyant density and additional pathogenetic characteristics.

Apolipoprotein C1 -

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an overview | **ScienceDirect Topics**

The idea of a fat transport system in the plasma of mammals evolved slowly over three centuries. At the turn of this century, it was discovered that plasma globulins contained lecithin and that the digestion of plasma proteins with pepsin liberated small amounts of fat and cholesterol.

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Discovery of the Lipoproteins, Their Role in Fat Transport ...

Reverse cholesterol transport is a multi-step process resulting in the net movement of cholesterol from peripheral tissues back to the liver first via entering the lymphatic system, then the bloodstream.

Cholesterol from non-hepatic peripheral tissues is transferred to

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Transport

HDL by the ABCA1 (ATP-binding cassette transporter). A

Their Relation To

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Reverse cholesterol transport - WikiMili, The Free ...

Recent Developments In

Lipid And

step process resulting

in the net movement of

cholesterol from

peripheral tissues back

to the liver first via

entering the lymphatic

system, then the

bloodstream.

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Cholesterol from non-hepatic peripheral tissues is transferred to HDL by the ABCA1 (ATP-binding cassette transporter).

Apolipoprotein A1 (ApoA-1), the major protein component of HDL, acts as an acceptor, and the phospholipid component of HDL acts as a sink for the mobilised cholesterol.

Reverse cholesterol

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transport -

Wikipedia

The LCAT reaction occurs at the surface of HDL particles. The transfer of one acyl chain from a lecithin (phosphatidylcholine) molecule to cholesterol produces a cholesterol ester and lysolecithin. The significance for cholesterol transport is illustrated in the next slide.

Cholesterol

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metabolism -

University of

Waterloo

The predominant route of cholesterol

elimination is by excretion into the bile.

Cholesterol from cells is transported from the

plasma membranes of peripheral cells to the

liver HDL-mediated

process...

Cholesterol

Physiology - News-

Medical.net

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Transport

The cholesterol in your blood comes from two sources: the foods you eat and your liver. Your liver makes all the cholesterol your body needs. Cholesterol and other fats are carried in your bloodstream as spherical particles called lipoproteins.

Research

Cholesterol in the Blood | Johns Hopkins Medicine

Low levels of HDL cholesterol, the so-

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called 'good' cholesterol, are the most common lipid disorder in countries in Latin America and the Caribbean, a new meta-analysis published in eLife shows.

Low levels of 'good' cholesterol common among people in ...

To get around this problem, the body packages cholesterol and other lipids into minuscule protein-

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covered particles that mix easily with blood. These tiny particles, called lipoproteins (lipid plus protein), move cholesterol and other fats throughout the body. Cholesterol and other lipids circulate in the bloodstream in several different forms.

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Research