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The ABC of cholesterol transport

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Document Version

Publisher's PDF, also known as Version of record

Publication date:

2004

[Link to publication in University of Groningen/UMCG research database](#)

Citation for published version (APA):

Plösch, T. (2004). *The ABC of cholesterol transport*. s.n.

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Stellingen behorende bij het proefschrift:

The ABC of cholesterol transport

Torsten Plösch

Groningen, 27 oktober 2004

In contrast with the classical concept of the reverse cholesterol transport pathway, hepatobiliary cholesterol excretion does not critically depend on delivery of HDL cholesterol.

(dit proefschrift)

An increasing popularity of plant sterol-enriched functional foods may lead to identification of previously undetected carriers of ABCG5/ABCG8 mutations.

(dit proefschrift)

Gallbladder cholesterol concentrations do not reflect hepatobiliary cholesterol excretion rates.

(dit proefschrift)

In addition to the important contribution of Abcg5/Abcg8 to hepatobiliary cholesterol excretion (Yu *et al.*, PNAS 2002), alternative Abcg5/g8-independent excretory routes also exist.

(dit proefschrift)

Intestinal cells actively contribute to fecal cholesterol excretion in mice.

(dit proefschrift)

Intestine-specific LXR activation represents a potential strategy to lower cholesterol absorption efficiency.

(dit proefschrift)

To decipher the ABC of cholesterol transport, it is crucial to understand its ACGT.
(dit proefschrift)

In the united Europe of 2004, it is easier to pay tax in a foreign county than to get university degrees accepted.

The observation by Adolf Windaus that "*cholesterol, which is so extremely similar to sitosterol in its physical and chemical properties, behaves physiologically in quite a different manner*" (Nobel Lecture, 1928) may be based on the slow rate of esterification of sitosterol as noted by Gerald Salen and colleagues (JCI 1970).

Fetal undernutrition predisposes to cardiovascular disease later in life.
(Barker *et al.*, Ann Med 1999)

Nuclear receptor ligands comprise at least 20% of all current US prescriptions.
(Baxter *et al.*, Trends Endocrinol Metab 2004)

Journal impact factors correlate poorly with actual citations of individual articles.
(Seglen, BMJ 1997)

"Man kann nie so kompliziert denken, wie es plötzlich kommt."
(Willy Brandt, 1913-1992)

"Wie groß eine Herausforderung auch sein mag, sie ist auf jeden Fall leichter zu bewältigen, wenn man vorher eine ordentliche Mahlzeit zu sich genommen hat."
(Walter Moers, Die 13 1/2 Leben des Käpt'n Blaubär, 1999)

"We live in a society exquisitely dependent on science and technology, in which hardly anyone knows anything about science and technology."
(Carl Sagan, 1934-1996)