



Universiteit
Leiden
The Netherlands

Cholesterol metabolism in mouse models of atherosclerosis and adrenal steroidogenesis

Sluis, R.J. van der

Citation

Sluis, R. J. van der. (2020, November 19). *Cholesterol metabolism in mouse models of atherosclerosis and adrenal steroidogenesis*. Retrieved from <https://hdl.handle.net/1887/138374>

Version: Publisher's Version

License: [Licence agreement concerning inclusion of doctoral thesis in the Institutional Repository of the University of Leiden](#)

Downloaded from: <https://hdl.handle.net/1887/138374>

Note: To cite this publication please use the final published version (if applicable).

Cover Page



Universiteit Leiden



The handle <http://hdl.handle.net/1887/138374> holds various files of this Leiden University dissertation.

Author: Sluis, R.J. van der

Title: Cholesterol metabolism in mouse models of atherosclerosis and adrenal steroidogenesis

Issue date: 2020-11-19

CHOLESTEROL METABOLISM IN MOUSE MODELS OF ATHEROSCLEROSIS AND ADRENAL STEROIDOGENESIS

1. PLTP is essential for the enlargement of HDL particles in SR-BI knockout mice (*This Thesis*).
2. HDL deficiency in mice impairs the ability of established atherosclerotic lesions to regress (*This Thesis*).
3. The VLDL/LDL fraction serves as cholesterol source for glucocorticoid synthesis in hypercholesterolemic mice (*This Thesis*).
4. ApoE produced locally in the adrenal does not impact on steroidogenesis (*This Thesis*).
5. Better understanding of HDL's functions is required before therapeutic targeting of HDL to stimulate atherosclerosis regression can become a realistic prospect (*adapted from Jomard A. et al. 2020 Front. Cardiovasc. Med. 7:39*).
6. It is essential to discriminate between lesion shrinkage and lesional macrophage disappearance when classifying atherosclerosis regression.
7. The most powerful strategy to reduce future cardiovascular disease events is educating our children a healthy life-style for life (*adapted from Steinberger et al. 2009 Circulation. 2009;119:628–647*).
8. Although the ambition of the government to “use less animals” in scientific research is readily met due to the changed Dutch funding landscape, it is doubtful whether the “more knowledge” goal will also be effectively achieved.
9. The effect of home isolated binge watching will have on the long term more impact on the COVID19 related mortality than the SARS-COV2 infection itself.
10. Success involves going from failure to failure without loss of enthusiasm (*adapted from Winston Churchill*).