

Modulation of vascular inflammation: cell type specific effects by ADAMs and HDL

Citation for published version (APA):

van der Vorst, E. P. C. (2015). *Modulation of vascular inflammation: cell type specific effects by ADAMs and HDL*. Maastricht University. <https://doi.org/10.26481/dis.20150521ev>

Document status and date:

Published: 01/01/2015

DOI:

[10.26481/dis.20150521ev](https://doi.org/10.26481/dis.20150521ev)

Document Version:

Publisher's PDF, also known as Version of record

Please check the document version of this publication:

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Propositions

Modulation of vascular inflammation Cell-type specific effects of ADAMs and HDL

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Maastricht, 21 May 2015

1. Caution is warranted for systemic therapeutic approaches for cardiovascular diseases; they should not only be disease- but also cell-type specific (valorisation).
2. Although ADAM8 expression is associated with atherosclerotic lesion progression, leukocyte specific deficiency of ADAM8 does not influence plaque development (this thesis).
3. ADAM10 has cell-type specific effects on atherogenesis, where myeloid deficiency improves plaque stability, and endothelial deficiency aggravates lesion development (this thesis).
4. High density lipoproteins inhibit chemokine secretion and proliferation of vascular smooth muscle cells, which depending on the disease type can be beneficial or detrimental (this thesis).
5. In contrast to endothelial and smooth muscle cells, high density lipoproteins stimulate the secretion of pro-inflammatory cytokines in macrophages, by passive cholesterol depletion and PKC activation (this thesis).
6. The most intriguing but also challenging projects are those that refute current dogmas.
7. Science is like cycling uphill, as long as you keep pushing you will eventually reach the top.
8. The most characteristic expression at the start of ground-breaking research is not 'Eureka!' but 'this can't be true'. (Inspired by Isaac Asimov)
9. The most important thing in science is to always keep an open mind and keep adjusting your ideas. (Inspired by Herbert Spencer)
10. The key to happiness is to aim high but to keep your expectations low. (Inspired by William Howard Stein)