

# Dendritic cells in hyperlipidemia-associated atherosclerosis

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## Propositions

belonging to the thesis

### ***Dendritic cells in hyperlipidemia-associated atherosclerosis***

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1. The presence of a complex dendritic cell network within the atherosclerotic lesion makes it challenging to understand dendritic cell subset contribution to plaque burden. (*this dissertation*)
2. Plasmacytoid dendritic cells act athero-protective in LDL receptor knockout mice by affecting peripheral T cell fate. As such they are interesting targets for immunotherapy in atherosclerosis. (*this dissertation*)
3. Whole genome arraying of human plasmacytoid dendritic cell enriched plaque segments provides new insights into plasmacytoid dendritic cell actions on its local immune cell context. (*this dissertation*)
4. Lipoprotein inclusion by peripheral dendritic cell subsets critically modifies their phenotype. (*this thesis*)
5. Impaired dendritic cell functionality in a hyperlipidemic environment has profound implications on the host's pathogen defense capacity. (*this dissertation*)
6. Given that atherosclerosis mainly affects the elderly, therapy timing is an important issue, as immuno-aging alters immune cell functionality.
7. As genomic responses in mouse inflammatory disease models moderately reflect the human conditions, mouse models of atherosclerosis have limited predictive value for human disease.
8. Success implies going from one failure to the next without losing motivation and the sense for enthusiasm.
9. Science becomes visible in new insights and tangible results, but it is our curiosity and passion that drives our research.

**Anette Christ, 12 september 2013**