

Hypoxia in experimental atherosclerosis

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PROPOSITIONS

BELONGING TO THE THESIS:
"HYPOXIA IN EXPERIMENTAL ATHEROSCLEROSIS
LINKING CELLULAR OXYGEN SENSORS
AND CHOLESTEROL METABOLISM"

1. Systemic oxygen therapy alleviates atherosclerotic plaque burden (this dissertation).
2. Enhanced cellular oxygen consumption rather than oxygen diffusion limitations underlies murine atherosclerotic plaque hypoxia (this dissertation).
3. PHD1 deficiency promotes a metabolically favourable cardiovascular phenotype, with reduced glucose intolerance, hypercholesterolemia and atherosclerosis development (this dissertation).
4. PHD enzymes exhibit isoform- and cell-type specific effects on atherosclerosis and cholesterol metabolism (this dissertation).
5. The oxygen sensor PHD1 presents an interesting target to lower plasma LDL-cholesterol levels in an LDLr-independent manner (this dissertation).
6. Mathematical modelling of cholesterol metabolism presents a valuable tool to discover critical and new cholesterol-regulating processes.
7. In order to become a successful group leader in science, administration should be outsourced and kept to a minimum.
8. Sprachen erklären einen Grossteil von Kulturen und sind unersetzlich für die erfolgreiche Integration im Ausland.

ELKE MARSCH
MAASTRICHT, 18 MAY 2016
