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).


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 unersättlich für die erfolgreiche Integration im Ausland.

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