



HBIGS Lecture

by

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„Atherogenesis and evolution of heart failure “

Date: Friday, 16 Nov 2012

Start of Lecture: 12:00 noon s.t.

Venue: INF 282 (ZMBH), R001

Abstract:

During progression of atherosclerosis, monocytes and macrophages destabilize lipid-rich plaque in the arterial wall and cause its rupture, thus triggering myocardial infarction and stroke. The same cells are also centrally involved in wound healing, for instance in ischemically injured myocardium. We have studied these processes in apoE^{-/-} mice and found that the systemic response to ischemic injury aggravates chronic atherosclerosis. On the other hand, pre-existing chronic inflammation during atherosclerosis impairs infarct healing. These observations provide new mechanistic insight into atherogenesis and evolution of heart failure, and novel therapeutic opportunities to mitigate disease progression.