



HBIGS Lecture

by

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„Lipid Rafts“

Date: Wednesday, 09 June 2010

Start of Lecture: 14:00 s.t.

Venue: INF 282 (ZMBH), R001

Abstract:

"Lipid rafts" is a term for specialized membrane microdomains, which are found in cellular membranes of eukaryotic cells. These membrane microdomains are rich in shingolipids and cholesterol and therefore differ in their lipid composition and biophysical properties from the rest of the membrane. Certain proteins such as GPI-anchored surface proteins, G-coupled receptors, hetero trimeric G proteins and some integral membrane proteins are concentrated in these membrane microdomains, which makes them platforms for the initiation of signaling processes. In this lecture the basic principles of lipid rafts and a critical assessment of their existence will be discussed. Furthermore, our research on the role of these domains for the regulation of function of immune cells such as natural killer cells will be presented.