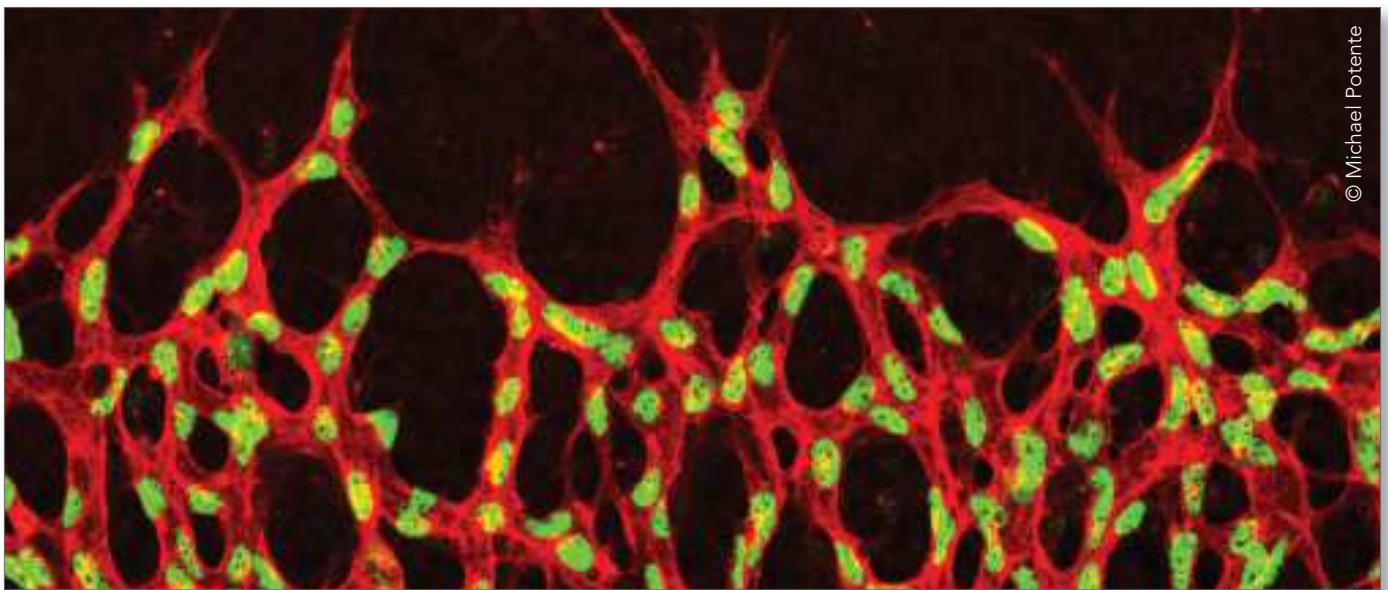


LOEWE Research Cluster Ub-Net

Ubiquitin Networks



The secret code of the small protein ubiquitin

Ubiquitin is a cellular all-rounder – it regulates the breakdown of proteins, the repair of DNA damage, signal transduction, cell death and many other processes. It occurs everywhere and is attached to other proteins in a variety of different ways, thus determining their fate. Errors in this sophisticated system have been linked to numerous diseases, e.g. cancer, Parkinson's, infectious diseases and inflammation. Ubiquitin even plays a role in biological ageing. Researchers call it a secret code, which is transmitted by ubiquitin and needs to be deciphered. This is where the LOEWE research cluster Ubiquitin Networks comes in. The cluster aims at analysing the molecular details of the ubiquitin networks in order to develop new therapeutic strategies.

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LOCATIONS

Frankfurt am Main
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SUBJECT AREAS

Biochemistry, Molecular biology,
Structural biology, Cell biology,
Developmental biology,
Protein Engineering, Bioinformatics,
Systems biology, Physical biology,
Biomedicine

FUNDING PERIOD

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LOEWE and ProLOEWE

Since 2008 the German federal state of Hessen has been promoting outstanding research initiatives through its own excellence programme, LOEWE. To date, 11 LOEWE research centres and 35 LOEWE research clusters have been selected in a competitive process to receive funding.

ProLOEWE is the LOEWE research initiatives network: their common aim is to provide information about their activities, speed up access to their research and intensify their cooperation. The website www.proloewe.de/en provides an overview of the LOEWE research initiatives.