

LOEWE Research Cluster Tumours and Inflammation



What does chronic inflammation have to do with tumours?

Systemic and local inflammatory processes are a hallmark of many tumours and have a direct impact on tumour development. Around one-fifth of all tumorous diseases are now thought to be caused by chronic inflammation. It has long been known that patients who suffer from chronic inflammatory diseases, such as Crohn's disease, chronic gastritis and ulcerative colitis, have a higher risk of a tumour developing in the affected tissues or organs. Many environmental and lifestyle factors – for instance smoking, excessive alcohol consumption, obesity and sunburn – cause inflammatory reactions in the body and therefore increase the risk of cancer. The LOEWE research cluster "Tumours and Inflammation" investigated precisely how inflammatory and tumour cells affect each other as the first stage in the development of new cancer treatment strategies. Most of the research groups are continuing their work in the DFG-funded Collaborative Research Centre "Chromatin Changes in Differentiation and Malignancies" and at the newly established Centre for Tumour and Immunobiology.



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LOCATION

Marburg

SUBJECT AREAS

Cell biology
Genetics
Molecular biology
Bioinformatics
Immunology
Medicine

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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.