



PhD position open for a 3-4 year period in the project

**Connections between EMT and DNA damage response
in circulating breast tumor cells:
Mechanisms and therapeutic implications.**

Candidates will be given access to the **International PhD Programme in Molecular Medicine** at Ulm University, Germany. For application requirements visit the website:
<http://www.uni-ulm.de/mm/>

Our research is focused on the crosstalk between DNA replication, DNA repair and the development of cancer. The challenge will be to understand the mechanistic links between DNA replication/repair and mesenchymal/stem cell features in triple-negative and hormone receptor-positive breast cancer cells and transfer of knowledge to circulating tumor cells (CTCs) isolated from metastatic breast cancer patients. Techniques will cover the full range of molecular and cell biological methods from isolation and 2D/3D *ex vivo* analysis of CTCs, laser microdissection, single-molecule qPCR and multiparametric immunofluorescence microscopy to analysis of nascent DNA synthesis.

We are looking for a candidate with a pioneer spirit who enjoys to work independently as well as integrated in our interdisciplinary team of researchers.

For further reading:

Cancer Res. 2017. 77:5576; Proc Natl Acad Sci U S A. 2016. 113:E4311;
 Oncogene. 2016. 35:3796; Carcinogenesis. 2014. 35:2273;

Applications to :

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Deadline: October 31, 2018