

# Cologne **Evolution** Colloquium

*Joint Seminar with Cologne Cancer Club*

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ICR Institute of Cancer Research, London

## **Cancer evolution: Molecular mechanisms and challenges for cancer prediction and therapy**

Intratumour heterogeneity and cancer evolution drive cancer progression and resistance development. Complex spatial clonal structures within solid tumour lesions and heterogeneity between metastatic sites as well as temporal heterogeneity have been widely demonstrated. However, detailed insights into the mechanisms that drive evolution and their relevance for cancer predictions and therapy are still in their infancy. I will discuss our work dissecting cancer evolution in kidney and gastro-intestinal cancers, which is providing increasingly detailed insights into phenotypic heterogeneity, the selection pressures which shape cancer evolution and the clinical implications.

Wednesday, June 20, 2018, 17:00

University of Cologne

Institute for Biological Physics

Zùlpicher Str. 77a (new building)

**Seminar Room 0.03, Ground Floor**

Hosted by Reinhard Bùttner and Michael Lässig