
The 157th iCeMS SEMINAR

Wed 19 March 2014
15:00-17:00

Microenvironmental regulation of tumor metastasis

Lecturer: **Prof Jonathan Sleeman**

Medical Faculty Mannheim
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Venue: 2nd Floor Seminar Room (#A207)
iCeMS Main Building (#70), Kyoto University

The reception and integration of the plethora of signals a cell receives from its microenvironment is decisive in determining cell behaviour. External signals that regulate cell behaviour and properties include signalling molecules such as growth factors and cytokines, extra cellular matrix (ECM) components, contacts with other cells, mechanical stress, the redox status of the surrounding milieu, and the local oxygen tension. Perturbation of extracellular cues or an inappropriate response or integration of these signals lies at the root of many diseases such as cancer. Accordingly it is increasingly recognised that changes in the extracellular environment can drive tumorigenesis, tumor progression and metastasis, and can act dominantly for example over genetic aberrations in the tumor cells. In this talk I will discuss some of our recent findings about how the microenvironment regulates tumor metastasis.

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