



## Institute colloquium

# Institute Colloquium: Deforming the nucleus during cell migration: mechanism, consequence

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Host:

In tissues, cells have their physical space constrained by neighboring cells and extracellular matrix. In the recent years, we have developed simple and versatile devices to precisely and dynamically control this confinement parameter in cultured cells. I will present results we obtained on the effect of confinement on cell migration focusing on the main parameter limiting cell migration in confinement: the deformation of its nucleus. I will conclude presenting intriguing results showing that large deformations of migrating cells induce strong damages of their nucleus raising the question of how immune cells such as dendritic cells can combine high motility and long term survival.

**Monday, November 24, 2014 04:30pm - 05:30pm**

Raiffeisen Lecture Hall, Central Building



This invitation is valid as a ticket for the ISTA Shuttle from and to Heiligenstadt Station. Please find a schedule of the ISTA Shuttle on our webpage: <https://ista.ac.at/en/campus/how-to-get-here/> The ISTA Shuttle bus is marked ISTA Shuttle (#142) and has the Institute Logo printed on the side.