

Colloquia in Cellular Signaling

Venue: Medical University Vienna, Center for Physiology and Pharmacology,
Institute of Pharmacology, Waehringerstrasse 13a, 1090 Vienna, "**Leseraum**".
(Sonja Sucic, Tel.: (01) 40160-31371, E-mail: sonja.sucic@meduniwien.ac.at)

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11:00

Host: Sonja Sucic

**Signaling of kinases and Rho GTPases in time
& space: relevance for migration
and proliferation of cancer cells**

Hesso Farhan

Faculty of Medicine
Institute of Basic Medical Research
University of Oslo
Norway

E-mail: hesso.farhan@medisin.uio.no

Homepage: <http://mitochondria.cs.ucl.ac.uk/cfmr/>

Abstract:

Traditionally, signaling has been studied mainly by focusing on temporal dynamics. However, mounting evidence in the past decade strongly advocates for the importance of studying the spatial control of cellular signaling. Organelles of the secretory pathway compartmentalize the cellular cytosol and thus it is not surprising to find that a wide range of signaling molecules localize to endomembranes. These membranes may receive signaling inputs and thus be regulated by signaling networks. Conversely, they may also be the source of signaling pathways. Recent findings on signaling of Cdc42 at the Golgi apparatus and its role in the regulation of cell polarity and directed cell migration will be presented, as well as how this spatial signaling system may be deregulated and involved in cancer.