

Impromptu Seminar

Venue: Medical University Vienna, Center for Physiology and Pharmacology,
Institute of Pharmacology, Waehringerstrasse 13a, 1090 Vienna, "**Leseraum**".
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Friday 01.04.2016 11:00 s.t. **Mark C. Leake (host: K. H. Hilber)**

Biological Physical Sciences Institute
Chair of Biological Physics
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"Probing gene control at the molecular scale"

Mark C. Leake (email: mark.leake@york.ac.uk)

Abstract: Abstract: Genes can be switched on and off through the binding of proteins called transcription factors to specific regions of DNA. Here I will outline cutting-edge experiments and analyses using bespoke single-molecule fluorescence microscopy and theoretical biophysics approaches which enable us to monitor this process in individual living cells in their unique physical and chemical environment with molecular scale precision over a time scale faster than that set by the mobility of transcription factors themselves - in 'real time'.

