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"Take control of your cells'  
micro-environment for better  
live cell imaging"

11 February 2014, **10:00 (s.t.)**

**Please note: start is earlier!**

Venue: 2nd Floor Seminar Room  
Institute of Molecular Biology (IMB)  
Johannes Gutenberg University Campus Mainz

All are welcome to attend.

Host: Dr. Sandra Ritz, Microscopy, IMB

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## Cells Gone Wild!

Control the action with CellASIC™ ONIX Microfluidics

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## Abstract:

Take control of your cells' micro-environment for better live cell imaging

To image living cells with a microscope over time, they must stay alive throughout the duration of the experiment. This requires maintaining the cellular microenvironment within the physiological range. In turn, this means controlling the temperature, humidity, media composition, and atmosphere (CO<sub>2</sub> concentration) around your cells so that they survive being imaged. This presentation will introduce how this can be achieved using the CellASIC ONIX microfluidic platform, showing different approaches for yeast, bacteria and mammalian cells. Applications like reversible gradients, host-pathogen interactions, hypoxia studies will be shown, together with the possibility to switch the media environment of your cells without interrupting the optical path.