

## Dr. Peter Rhein

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" Applications of High Speed  
High Content Image Analysis  
of Cells in Suspension Using  
Amnis® Imaging Flow Cytometry "

04 February 2014, 11:00 (s.t.)

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

All are welcome to attend.

Abstract:

## Applications of High Speed High Content Image Analysis of Cells in Suspension Using Amnis® Imaging Flow Cytometry

Amnis® Imaging Flow Cytometer perform high-speed, multispectral imaging of cells in flow. Up to 12 simultaneous fluorescent, brightfield, and darkfield images can be generated of every cell at speed in the range of 5000 cells/second, broadening the applications of traditional imaging techniques to include the quantitative analysis of rare cells in primary samples. The benefits of the technology will be presented in a seminar and include:

- Identification and objective quantification of events happening on, within or between cells
- Elimination of false positive and false negative events (gating with confidence)
- Evaluation and quantification of morphological changes in cells

Amnis® Imaging Flow Cytometry Applications include:

*Morphology / Shape Change DNA Damage and Repair  
Internalization Stem Cell Differentiation  
Cell Signalling / Nuclear Translocation Targeted  
Immunotherapy  
Co-localization Microbiology  
Cell Death and Autophagy Parasitology  
Cell Cycle and Mitosis Oceanography  
Cell-Cell Interactions and many more*