



# Workshop

## AUTOMATED MICROSCOPY AND SCREENING HOSTED BY THE MICROSCOPY NETWORK BASEL

Automated microscopy and screening is increasingly employed in biomedical and pharmaceutical research for the large scale phenotypic analysis of biological specimens. This has led to many solutions for various assay needs and also often to complex setups, limiting use to expert staff. To address this issue, ACQUIFER has developed a novel and easy-to-use high content screening platform.

In this workshop, we will present the **ACQUIFER Imaging Machine**, an automated microscope following a unique opto-mechanical design rendering it ideal for imaging non-adherent, motion sensitive or large specimens. The focus of this workshop will be:

- High Content Screening workflows – From image acquisition to data processing
- Advantages of the ACQUIFER Imaging Machine concept for reliable, reproducible and fast widefield screening in multi-well plates
- Tools and methods for reproducible mounting of e.g. zebrafish in multi-well plates

If you wish to attend the workshop, please send a message to [workshop@acquirer.de](mailto:workshop@acquirer.de) for registration. Should you wish to bring your own samples to the Hands-on Sessions, please also let us know so that we can accommodate you.

This workshop is free of charge but space is limited. **START YOUR REGISTRATION TODAY !!!**

**March 19, 2019** (IMCF seminar room 188)

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| 9:00          | Welcome   |
| 9:15 – 9:45   | High Content Screening by ACQUIFER.<br><b>Speaker: Bettina Göppert</b> , ACQUIFER   |
| 9:45 – 10:15  | Automated Microscopy for (Whole Organism) Screening Applications<br><b>Speaker: Jochen Gehrig</b> , ACQUIFER  |
| 10:15 – 10:45 | Coffee Break  |
| 10:45 – 11:15 | Automatic regions of interest detection for smart microscopy applications<br><b>Speaker: Laurent Thomas</b> , ACQUIFER  |
| 11:15 – 11:45 | A screening method to study the effects of pharmaceutical compounds on podocyte differentiation in cultured glomeruli<br><b>Speaker: Marie-Christin Böttcher</b> , University Hospital Greifswald |
| 13:00 – 17:00 | <b>Hands-on Session 1</b> (BioZ room 638)<br>One group with up to 5 participants  |

**March 20 and 21, 2019**

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| 9:00 – 18:00 | <b>Hands-on Sessions</b> (BioZ room 638)<br>(4 hours each in small groups with up to 5 participants) |
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**Location:**  
Biozentrum, University of Basel, Imaging Core Facility  
Klingelbergstraße 50/70  
4056 Basel- CH

