

## The ACQUIFER HIVE - Solution for Large Image Data

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### Abstract

Modern microscopy techniques acquire an ever-increasing amount of multidimensional image data.

3D microscopy techniques, such as selective plane illumination microscopy (SPIM), easily generate multiple terabytes of raw image data in a single experiment that require tailored solutions for interactive or automated analysis.

The ACQUIFER HIVE is the established solution for efficient and safe management and storage of large image data without USB drives or network copy. The HIVE allows fast access to acquired data for swift processing and flexible analysis workflows. It is designed as a modular platform that is configured for your specific applications and will grow with your needs.

In this workshop, we will introduce the concepts of HIVE workflows, and we will present new solutions to expand existing HIVE installations to serve a higher user base and larger projects. Multi-GPU and Multi-HIVE solutions are outlined. Besides scaling in processing, concepts about data safety with large storage pools are discussed.

As part of the workshop, we offer RDP access on the centralized multi user system HIVE for testing. We encourage participants to bring their own laptops.

The logo for ACQUIFER, a Bruker company. The word "ACQUIFER" is written in a large, bold, sans-serif font. The letter "Q" is highlighted in blue, while the other letters are in a dark grey color. Below "ACQUIFER", the words "A BRUKER COMPANY" are written in a smaller, all-caps, sans-serif font, also in a dark grey color.