



University  
of Basel

Swiss Nanoscience Institute

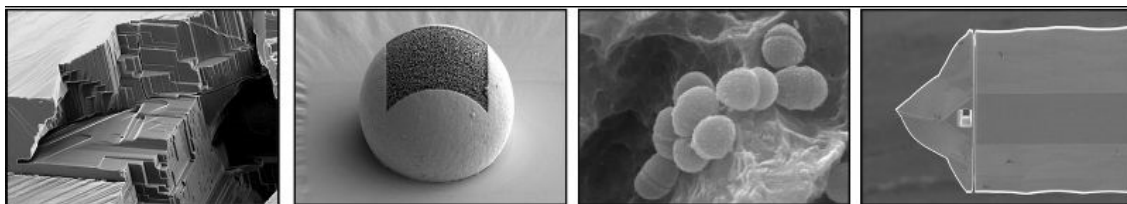


Swiss Nanoscience Institute  
Exzellenzzentrum  
der Universität Basel und  
des Kantons Aargau

# NANO IMAGING LAB

Newsletter

April 25, 2024



## Annual project meeting of WiVitis



For an intensive exchange of the INTERREG VI project network WiVitis on 10 April 2024, Marcus Wyss and Evi Bieler of the Nano Imaging Lab traveled to the Julius Kühn Institute (JKI) in Germany.

The annual WiVitis project meeting this year took place in Siebeldingen and was attended by (almost) all project partners from Germany, France and Switzerland. As the WiVitis network has only been fully staffed for a few months, all partners involved got to know each other personally and presented their methodologies and initial results. Data collection strategies for the 2024 season were discussed in more detail, experimental set-ups were discussed and

protocols were agreed. This is of particular importance, as comparable data sets are collected at the various research sites in the Upper Rhine region and used for cross-site variety characterisation. The PIWI grape varieties being comprehensively analysed in the project include Sauvignier Gris, Calardis Blanc, Cabernet Blanc and Floreal.

The scientific part of the meeting was rounded off by a report from the Basel Nano Imaging Lab (NILab). The use of scanning electron microscopy (cryo-SEM) is the optimal method for characterising the surface properties of berries and structural differences in the overlying waxes. In this way, samples of the selected grape varieties will be collected and analysed in various vineyards in the Upper Rhine programme region.

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## **Inspiring User meeting 2024 at the Nano Imaging Lab**

On April 23rd 2024 the Nano Imaging Lab's User Event took place. In short presentations, six researchers described their research approaches and how they are supported by the Nano Imaging Lab (NI Lab) team. The range of research topics reflected the wealth of tasks that the NI Lab deals with on a daily basis.

The researchers demonstrated their collaboration with the NI Lab in imaging and analyzing tiny nanowires. They explained their research of the coherence time of electrons in quantum dots and the coating of titanium dioxide nanoparticles, which are to be used as catalysts for the fixation of carbon dioxide. The NI Lab also provided support in investigating the magnetic properties of a bacterium and in researching bacteria that shoot at each other with "harpoons" or that colonize the oral cavity as microfilms and can lead to numerous diseases.

Many thanks all speakers and participants for the exciting morning with great electron microscope images and analyses that make the nano world "visible".

Further information about the SNI's Nano Imaging Lab – your partner for imaging and analyzing nanostructures: <https://nanoscience.unibas.ch/de/>



The Nano Imaging Lab User Event was a great opportunity to hear from other research groups, learn more about the many possibilities of the Nano Imaging Lab and witness the honouring of the Nano Imaging Lab's two thousandth customer.

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## Anticipation of a new FIB/SEM

For the arrival of another FIB/SEM to the Nano Imaging Lab all preparations for the installation of the device are in full swing.

The **Crossbeam 540** from **ZEISS** is expected in June and the instrument is primed for both nanofabrication and analytical work. It is a state of the art FIB/SEM system featuring the Zeiss Capella FIB column and Gemini II SEM column.

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