

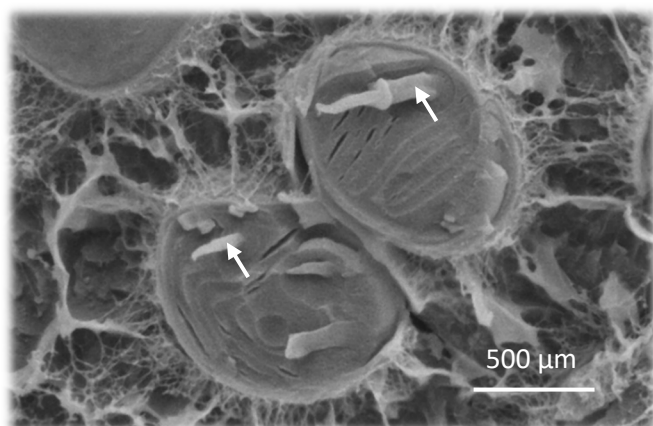
Online workshop „Advanced Cryo-SEM techniques in life science“

19th November 2020

Please, fill in the [registration form](#) and we can sent you the **ZOOM link** on your e-mail.
Deadline: **18.11.2020**

Preliminary program (for the updated [schedule](#))

- 9:00 – 9:10 **Welcome** (Vladislav Krzyžánek, Institute of Scientific Instruments of the CAS, Brno)
- 9:10 – 9:40 Eyal Shimoni ([Weizmann Institute of Science, Rehovot/Israel](#)):
Sample preparation for cryo-SEM
- 9:40 – 10:10 Thomas Heuser ([Vienna Biocenter Core Facilities, Vienna/Austria](#)):
New insights into thick samples by cryo-FIB-SEM
- 10:10 – 10:40 Jiří Nováček ([CEITEC Masaryk University, Brno](#)):
Preparation and cryo-FIB micromaniching of *Saccharomyces Cerevisiae* for cryo-electron tomography
- 10:40 – 11:00 Coffee break
- 11:00 – 11:40 Miroslava Schaffer ([Max Planck Institute of Biochemistry, Martinsried/Germany](#)):
The lift-out preparation of HPF sample
- 11:40 – 12:00 Jiří Týč ([Biology Centre of the CAS, České Budějovice](#)):
SBEM - overview and biological applications
- 12:00 – 12:30 Petr Matula ([Faculty of Informatics, Masaryk University, Brno](#)):
Deep learning in microscopy
- 12:30 – 12:50 Kamila Hrubanová ([Institute of Scientific Instruments of the CAS, Brno](#)):
Freeze-fracturing at liquid Helium temperature: cryo-SEM application in biotechnology
- 12:50 – 13:00 Vladislav Krzyžánek ([Institute of Scientific Instruments of the CAS, Brno](#)):
Closing



Questions:

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Microscopy for Biomedicine

*Cryo-SEM image of freeze-fractured bacteria
Cupriavidus necator H16 containing elastic polymeric
granules inside the cells (white arrow).*

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