

Public Health Agency
of Canada



Upgrades & Accessories

Tecnai™ 20 TWIN LaB₆ Applications Upgrade at Public Health Agency of Canada

“Acquiring funding for upgrades allowed us to generate results within one year, instead of spending many years waiting for funding for a new tool”

“The FEI Company and SFR, FEI’s representative in Canada, have supported us continuously during the process of upgrading our microscope to support cryotomography, a fundamental requirement for our research program,” said Dr. Dan Beniac of Public Health Agency of Canada.

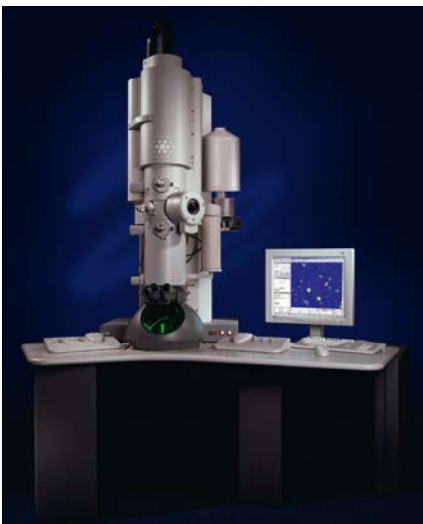
“Our tool was only 7 years old, too young to be replaced. The field of cryotomography had progressed rapidly in recent years and FEI played a key role in many of the important developments in both cryo and tomography applications. FEI’s Xplore3D™ package is a complete tomography package that covers acquisition, alignment, volume reconstruction, visualization and surface rendering. This complete, integrated solution, including the embedding of the 4K CCD Eagle™ camera, gives us a tool that enables high contrast and fast 3D reconstruction on our biological samples.”

The challenge:

It is an all too familiar scenario in research labs that the available instrument doesn’t have the capability required to support a new project, but funding to acquire a new tool is not really an option as the current tool is not old enough to justify complete replacement.

The solution:

Drs. Booth and Beniac of Public Health Agency of Canada needed to do cryotomography on their Tecnai™ 200 kV LaB₆ TEM. Together with FEI they looked carefully at what was required to meet this goal with their current tool. They invested in a new bottom-mounted FEI Eagle™ 4k CCD camera, FEI Xplore3D™ software for Cryotomography, and 5 days of on-site training by an FEI specialist in biological applications. They also upgraded the Tecnai software platform to Windows® XP applications based 3.x software to ensure their instrument is ready for future upgrades and enhancements as they become available.



The result:

The Tecnai 200 kV LaB₆ TEM is currently supporting Cryotomography. Only a year after applying for funding, and six months after funding approval, Beniac's lab is generating results, ensuring its leadership position.

Upgrade plan

- Tecnai 20 TWIN LaB₆ – Installed at the end of 2002
- Eagle 4K CCD camera + Xplore3D software + Windows® XP 3.0 software for Tecnai + Inspect3D Xpress – Installed at the end of 2006
- 5 days on-site Training at the end of 2006 once the entire installation was completed.

FEI's extensive service, applications and training capabilities provide critical support for their customers after the instrument purchase. Their training facility, FEI Academy, ensures that end-users of the equipment have the right knowledge to benefit fully from the system's leading edge technology and performance.

To keep up to date register with FEI's web based owner's forum at fei.com/owners. This unique FEI online tool enables users to:

- Learn and stay updated on new developments and applications
- Share expertise and knowledge with peers
- Discuss and communicate with FEI specialists
- Check for the latest upgrades & accessories



The owners forum helps the Public Health Agency of Canada maintain a close relationship with the FEI Company and SFR. They check regularly to ensure that they are aware of application developments, upgrades and enhancements that will allow them to continue their research leadership in health and medical sciences.

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Register on: www.fei.com/owners to learn more about latest developments, applications, upgrades and accessories.