

CFMM to welcome new magnet

Western's [Centre for Functional and Metabolic Mapping](#) is well into preparations to site a new 15.2 T 11 cm bore preclinical MRI system for mouse and ex-vivo sample imaging. Construction meetings and planning have been led by CFMM Managing Director Joe Gati with Schulich and Facilities Management interfacing with the architects and consultants.

This multinuclear system will be installed adjacent to the existing 9.4 T system in the CFMM, as well as the Robarts Behavioural facility, with easy access to ImPaKT and the new Biomedical Research Facility (BMRF). The system will incorporate a state-of-the-art Bruker Avance NEO console, identical to the one installed on the 9.4 T during a recent upgrade. With the installation of this system and its high powered gradient coil (6 cm) and amplifier system, all mouse scanning will move to the 15.2 T, dedicating the 9.4 T to the ever expanding marmoset and rat research programs. There are only five other 15.2 T systems in the world, of which only one is located in North America. The CFMM will house scanners totaling 34.6 T after installation of this system, reinforcing its position as Canada's National Ultra-high Field MRI platform.

The magnet is expected to arrive in November 2023, 3 months ahead of schedule. It was ordered in December 2022. While the majority of research on this system will be related to the recently awarded \$24M New Frontiers in Research Fund – Transformation Award to [Dr. Menon](#) and colleagues, other collaborations are welcome!