Matthias G. Friedrich earned his MD at the Friedrich-Alexander-University Erlangen/Nuernberg, Germany. He completed his training as an internist and cardiologist at the Charité University Medicine Center, Humboldt University in Berlin.

After appointments with the University of Calgary and the Université de Montréal/Montreal Heart Institute, he joined the Departments of Medicine and Diagnostic Radiology as a Full Professor, and also acts as Chief of Cardiovascular Imaging and Scientific Director of the Courtois Cardiovascular Signature Program at the McGill University Health Centre. He also has an appointment with the Department of Medicine at Heidelberg University in Germany.

He is staff cardiologist at the Royal Victoria Hospital and an active researcher with a strong interest in novel imaging techniques. He has focused the research activities of his team of 20+ researchers on cardiac MRI of myocardial injury, including acute ischemic and inflammatory conditions.

His scientific interest is focused on new approaches for diagnosing cardiovascular disease using Cardiovascular Magnetic Resonance (CMR) Imaging, with a special interest in novel diagnostic approaches to visualize heart disease. Currently, his team is working on Simultaneous Multiparametric Acquisition and Reconstruction Technique CMR, oxygenation-sensitive CMR, and the diagnostic utility of breathing maneuvers in diagnosing coronary vascular diseases.

He authored or co-authored more than 200 peer-reviewed publications, with over 20,000 citations (current h index: 61).

He was the Founding President of the Canadian Society for Cardiovascular Magnetic Resonance and President of the Society for Cardiovascular MR (SCMR).

Dr. Friedrich is also Scientific Director of the Courtois Cardiovascular Signature Program, a long-term initiative for developing AI-informed strategies for personalized cardiovascular health management.

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