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Prof. Müller studied medicine in Zurich and received his medical degree in 2000. After finishing his clinical training in Switzerland, he was a postdoctoral research fellow from 2006 until 2008 at Heidelberg University Hospital. Since 2010, he is head of the Division 'Minimally Invasive and Robot-assisted Surgery' and in 2014 he was granted the title 'Associate Professor of Surgery' at Heidelberg University. In 2018, he became the managing senior attending surgeon and since 2019, he holds the position of the deputy medical director at the Department of General, Visceral and Transplant Surgery, directed by Prof. Markus Büchler.

From the very beginning of his surgical career, Beat Müller was interested in minimally invasive surgery and new technologies. As Scientific Coordinator of the Research Training Group 1126 'Intelligent Surgery' and the Collaborative Research Centre/Transregio 125 'Cognition-Guided Surgery' he was granted several times by the German Research Foundation (DFG). His main clinical research focus is on minimally invasive oncological surgery and metabolic surgery. Actually he is a co-principal investigator in the 'Data Science driven Surgical Oncology' programme, a research project of the National Center for Tumor Diseases in cooperation with the German Cancer Research Center, Heidelberg.

Beat has performed more than 6500 surgical procedures on his own including major oncologic surgeries (esophagectomies, pancreatectomies, hepatectomies, multivisceral resections), transplantation (liver, kidney, pancreas), advanced laparoscopic and robotic surgeries with particular interest in upper GI including metabolic surgery, and pancreas surgery.

Since 2003, he has been author of more than 200 scientific publications on several topics, e.g. surgical oncology, minimally invasive and robotic surgery.