



Giovanni Traverso, MB, BChir, PhD

Assistant Professor, Department of Mechanical Engineering, Massachusetts Institute of Technology

Assistant Professor of Medicine (part-time), Division of Gastroenterology, Brigham and Women's Hospital, Harvard Medical School

Dr. Traverso is an Assistant Professor in the Department of Mechanical Engineering at the Massachusetts Institute of Technology and in the Division of Gastroenterology, Brigham and Women's Hospital (BWH), Harvard Medical School. Dr. Traverso grew up in Peru, Canada and the United Kingdom. He received his BA from Trinity College, University of Cambridge, UK, and his PhD from the lab of Prof. Bert Vogelstein at Johns Hopkins University. He subsequently completed medical school at the University of Cambridge, internal medicine residency at the Brigham and Women's Hospital and his gastroenterology fellowship training at Massachusetts General Hospital, both at Harvard Medical School. Dr. Traverso's previous work focused on the development of novel molecular tests for the early detection of colon cancer which was published in the New England Journal of Medicine and The Lancet. This work was licensed to Exact Sciences and informed the development of the FDA-approved non-invasive test Cologuard for colon cancer screening. For his post-doctoral research, he worked in the laboratory of Professor Robert Langer at the Massachusetts Institute of Technology (MIT) where he developed a series of novel technologies for drug delivery as well as physiological sensing via the gastrointestinal tract.

Dr. Traverso's contributions have been recognized through several awards including, the Grand Prize of the Collegiate Inventors Competition, a Research Fellowship from Trinity College (Cambridge, UK), being recognized on the MIT Tech Review's TR 35 list and receiving the 2023 Acta Biomaterials Silver Medal. Additionally, Dr. Traverso has been elected to the American Society for Clinical Investigation, the National Academy (NAM) Emerging Leaders in Health and Medicine Scholars program, the College of Fellows of the Controlled Release Society, and most recently the National Academy of Inventors.

His current research program is focused on developing the next generation of drug delivery systems to enable efficient delivery of therapeutics through the gastrointestinal tract as well developing novel ingestible electronic devices for sensing a broad array of physiologic and pathophysiologic parameters.