

AACR-KCA Conference

AACR Speaker Short Bios

Senthil K. Muthuswamy

Senthil K. Muthuswamy, Ph.D., Director of the Cell Biology Program and Deputy Director of Translational Research in the Cancer Research Institute at Beth Israel Deaconess Medical Center (BIDMC), Harvard Medical School (HMS). Dr. Muthuswamy is a pioneer in the development and use of 3D organoid culture systems to grow breast and pancreatic epithelial ducts and acini from stem cells or patient tumor tissues. Dr. Muthuswamy was among the first to employ organoids, which look and function like mini-organs, to bridge the gap between growing cells as a flat monolayer and growing them under *in vivo* conditions and to use them as tractable model systems to unfold the complex dynamics of cell behavior both during normal tissue morphogenesis and during growth and death of cancer cells. Dr. Muthuswamy will discuss the development and use of organoids as a discovery and diagnostic platform for personalizing cancer treatments.

Dr. Muthuswamy is a recipient of the Rita Allen Scholar Award, the V Foundation Scholar Award, the U.S. Army Era of Hope Scholar Award, and the Canadian Society of Biochemistry, Molecular, and Cellular Biology Young Scientist Award for outstanding research achievements.