Stanford

Michael Angelo
Associate Professor of Pathology

Bio

BIO

Michael Angelo, MD PhD is a board-certified pathologist and assistant professor in the department of Pathology at Stanford University School of Medicine. Dr. Angelo is a leader in high dimensional imaging with expertise in tissue homeostasis, tumor immunology, and infectious disease. His lab has pioneered the construction and development of Multiplexed Ion Beam Imaging by time of flight (MIBI-TOF). MIBI-TOF uses secondary ion mass spectrometry and metal-tagged antibodies to achieve rapid, simultaneous imaging of dozens of proteins at subcellular resolution. In recognition of this achievement, Dr. Angelo received the NIH Director's Early Independence award in 2014. His lab has since used this novel technology to discover previously unknown rule sets governing the spatial organization and cellular composition of immune, stromal, and tumor cells within the tumor microenvironment in triple negative breast cancer. These findings were found to be predictive of single cell expression of several immunotherapy drug targets and of 10-year overall survival. This effort has led to ongoing work aimed at elucidating structural mechanisms in the TME that promote recruitment of cancer associated fibroblasts, tumor associated macrophages, and extracellular matrix remodeling. Dr. Angelo is the recipient of the 2020 DOD Era of Hope Award and a principal investigator on multiple extramural awards from the National Cancer Institute, Breast Cancer Research Foundation, Parker Institute for Cancer Immunotherapy, the Bill and Melinda Gates Foundation, and the Human Biomolecular Atlas (HuBMAP) initiative.

ACADEMIC APPOINTMENTS

- Associate Professor, Pathology
- Member, Bio-X
- Member, Maternal & Child Health Research Institute (MCHRI)
- Member, Stanford Cancer Institute

LINKS

- Lab Website: https://www.angelolab.com

Teaching

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Markus Diehl, Benjamin Oberlton

Postdoctoral Faculty Sponsor

Inna Averbukh, Kelly Bruton, Andreas Lackner, Jolene Ranek

Doctoral Dissertation Advisor (AC)

Potchara Boonrat, Noah Greenwald, Ke Leow, Candace Liu, Jodie Lunger, Cameron Walker

Doctoral Dissertation Co-Advisor (AC)

Alea Delmastro

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Cancer Biology (Phd Program)

- Immunology (Phd Program)