This week’s Grand Rounds will be held during the inaugural Translational Research Retreat at TAC Auditorium, 300 Cedar Street. 

**Investigating the Complex Biology of Drug Resistance for Clinical Impact**

**featuring**

**Katerina Politi, PhD**
Professor of Pathology; Scientific Director, Center for Thoracic Cancers

Friday, March 22, 9:00am
TAC Auditorium, 300 Cedar Street | Zoom Access

Needs: Mutations in the EGFR gene are found in 10-20% of lung adenocarcinomas. These mutations are most common in tumors in never-smokers and are associated with sensitivity to drugs that specifically block the activity of the mutant receptor.

Objectives: What are the alterations in cellular pathways that cause tumors to form? How can we interfere with these pathways to get tumors to regress? How do tumors become resistant to drugs?

Dr. Katerina Politi studied Biology at the University of Pavia in Italy. She then moved to New York, where she obtained her PhD in Genetics and Development working with Dr. Arigis Efstratiadis at Columbia University. She was a research fellow and senior research scientist at Memorial Sloan Kettering. Following graduate school, Dr. Politi joined Dr. Harold Varmus's lab at Memorial Sloan Kettering and began her work on the molecular basis of lung cancer. Her lab currently focuses on studying lung cancer to answer the following questions: What are the alterations in cellular pathways that cause tumors to form? How can we interfere with these pathways to get tumors to regress? How do tumors become resistant to drugs? How can we detect tumors early when they are still curable?