

YaleNewHavenHealth

Smilow Cancer Hospital

Yale CANCER CENTER

A Comprehensive Cancer Center Designated
by the National Cancer Institute

Grand Rounds

Join us
in person
for lunch!

TUESDAY, November 29, 12:00pm

55 Park Street, Smilow Auditorium | [Zoom](#)

Hosted by: Genetics, Genomics and Epigenetics Research Program

"Why me?" The mutagenic origins of cancer for individual tumors and tumor types



Jeffrey Townsend, PhD

Elihu Professor of Biostatistics and Professor of
Ecology and Evolutionary Biology

Needs: To date, risk factors are nearly the only answer that science or medicine has been able to give patients who ask "why me?" I will report on our discovery of an answer to these questions—an answer that directs our research efforts toward these most important causes, and toward effective public health prioritization, by informing all of us of what actions we can take to prevent cancer.

Objectives: Understand how the cancer effect of every single-nucleotide mutation can be quantified, and the importance of cancer effect estimation for guiding basic research, pharmaceutical development, clinical trials, and precision medicine; understand how the mutagenic sources of single-nucleotide mutations in individual tumor genomes can be quantified.



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