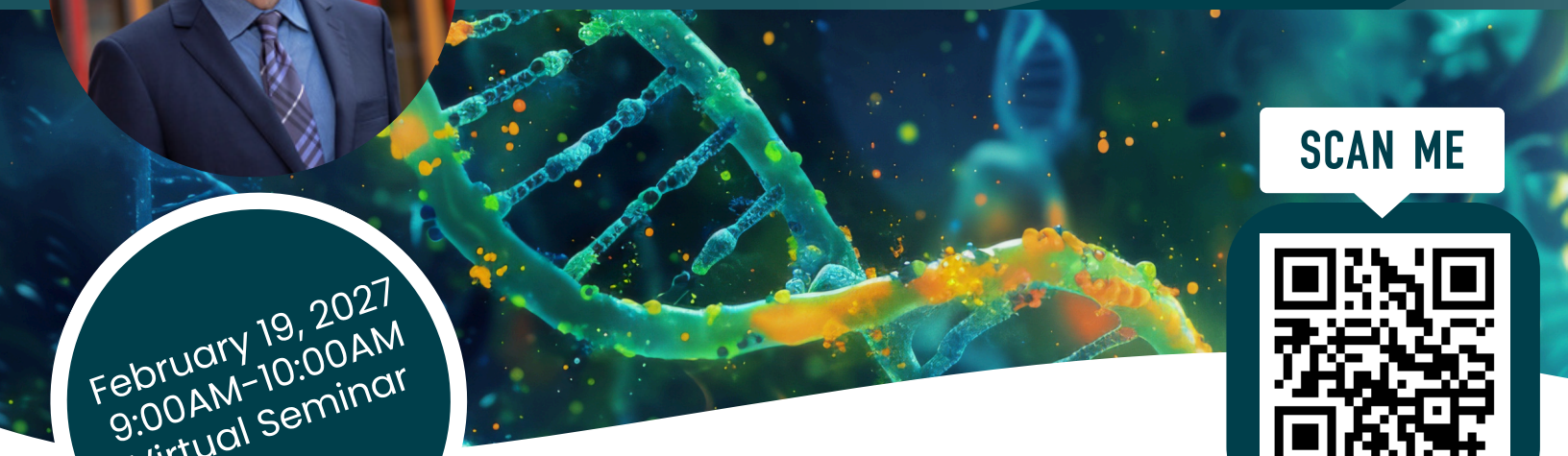
STRECH

Seminars in Translational Research



February 19, 2027
9:00AM-10:00AM
Virtual Seminar

SCAN ME

Synthetic lethal targeting of transcription-replication conflicts in synovial sarcoma using a DNA repair kinase degrader

Presented by Robert Hromas, MD, FACP

Senior Director of Drug Development, Macy Cancer Center
Professor of Medicine, Division of Hematology-Oncology
University of Texas Health Science Center of San Antonio

The SS18-SSX translocation driving synovial sarcomas results in an abnormal increase in R-loops, which are caused by mRNA still hybridized to the DNA template. When a replication fork collides with an R-loop, genomic damage can result, so synovial sarcoma cells rely on ATR to arrest the replication fork before an R-loop collision and on ATM to repair any fork damage after collision. We have generated a degrader of ATR/ATM that can cure mouse models of synovial sarcoma by increasing these replication fork collisions with R-loops.

For information on participating in the current monthly seminar.
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