

Join us for an informal science talk

Monday, November 28th at 4:00 pm

Zoom Online Presentation

Meeting ID: 963 9044 9124 Passcode: 985706

"Small tumor virus replication: viral helicases and cellular polymerases"



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Human polyomaviruses and papillomaviruses are two families of viruses that infect the majority of humans, and a small percentage of these infections can lead to cancers - altogether these cause over 5% of all human cancers. We have a longstanding interest in how these viruses recruit and utilize cellular DNA synthesis enzymes to replicate their viral genomes, and whether this information can be leveraged for antiviral approaches. The replication of polyomavirus genomes is responsive to cellular DNA damage response pathways to slow down DNA replication forks to allow additional time for DNA repair. Our studies on regulating replication fork progression provide insights into DNA replication stress, a new target for anti-cancer therapeutic approaches.



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