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Memorial Sloan Kettering
Cancer Center

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Thomas J. Kelly, MD, PhD

Benno C. Schmidt Chair of Cancer Research; Member, Memorial Sloan Kettering Cancer Center; Professor, Weill Graduate School of Biomedical Sciences, Cornell University

My long-term interest is to understand how the cellular genome is duplicated during the cell cycle. In the course of growth and division, eukaryotic cells duplicate their genomes with remarkable fidelity. The precision of this process depends in large measure upon stringent regulatory mechanisms that couple DNA replication to cell cycle progression. Initiation must be triggered at the appropriate time in the cell cycle at many hundreds or thousands of separate sites (origins of DNA replication) in the parental chromosomes. However, initiation must be prevented at these same sites in the newly synthesized daughter chromosomes. These controls ensure that each DNA segment in the genome is duplicated in a timely fashion exactly once each cell cycle.

Featured News

EVENT



[Memorial Sloan Kettering Celebrates at Convocation and Commencement Ceremony](#)

Degrees were presented and awards were given at the 35th annual ceremony held on May 14.

FEATURE



[Out of the Lab and into the World: Scientific and Medical Inventions Benefit Cancer Patients](#)

Memorial Sloan Kettering scientists, physicians, and administrators are developing and commercializing research discoveries to generate more-effective and affordable cancer treatments.



[Thomas Kelly Honored](#)

Sloan Kettering Institute Director Thomas J. Kelly is the co-recipient of the 2010 Louisa Gross Horwitz Prize from Columbia University.

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People



Thomas J. Kelly, MD, PhD

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Molecular biologist Thomas Kelly studies regulatory mechanisms that control DNA replication during the cell cycle of eukaryotic cells.

MD, PhD, Johns Hopkins University School of Medicine

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Members

Lab Alumni

+

Lab Affiliations

+

Achievements

Former Director, Sloan Kettering Institute 2002-2013

Doctor of Science, honoris causa, Louis V. Gerstner, Jr. Graduate School of Biomedical Sciences 2014

Louisa Gross Horwitz Prize 2010

Johns Hopkins Society of Scholars 2010

Alfred P. Sloan Jr Prize, General Motors Cancer Research Foundation

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+

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