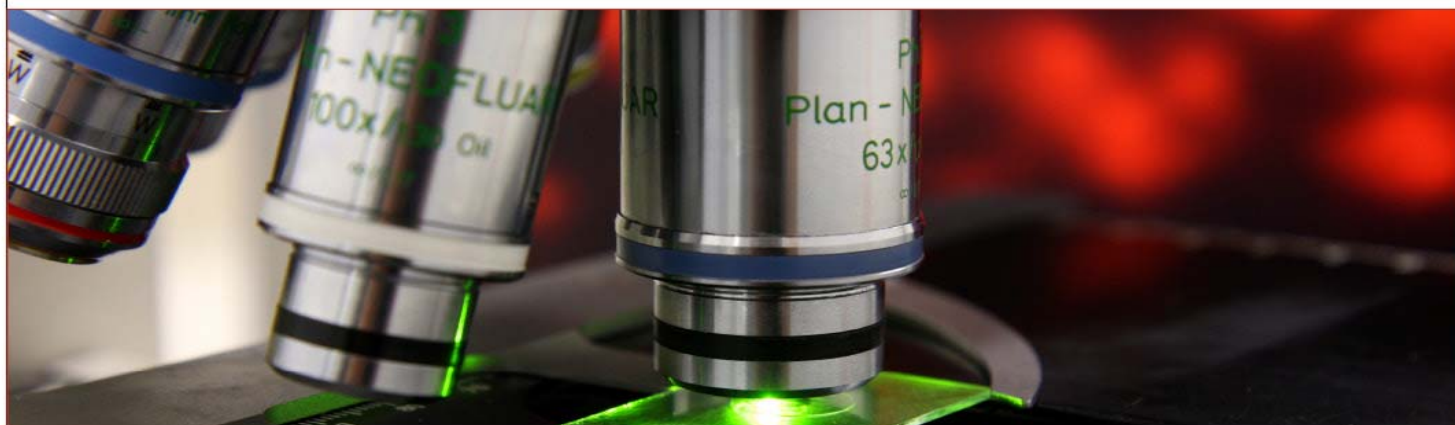


SÉMINAIRES ET CONFÉRENCES



Pascal Chartrand

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Département de biochimie et médecine moléculaire

« A single-molecule view of telomeres maintenance by telomerase in living cancer cells »

Telomeres cap the ends of eukaryotic chromosomes and are essential for their integrity. The overall length of telomeric repeats is determined genetically and, in most eukaryotes, maintained by a ribonucleoprotein enzyme called telomerase. Cellular transformation requires telomerase re-activation and telomere elongation in most cancer cells, making telomerase and telomeres interesting targets for cancer treatment. So far, the processes leading to telomerase biogenesis, recruitment and activity at telomeres in vivo are still not fully understood. In this talk, I will present our recent effort to combine genome editing with single-molecule imaging to study telomerase recruitment and regulation at telomeres in living cancer cells. I will also show how we can use live-cell imaging to study the role of subnuclear bodies in telomerase biogenesis. Our findings provide novel insights into telomerase biogenesis and dynamics at telomeres in vivo, which complement current approaches to study this enzyme.



Faculté de médecine
Département de biochimie
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Le lundi 22 octobre 2018, 11h30

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