Frequency
Every year

Remarque
3-day Block course, every year in January. To register, contact EDMS Administration

Summary
Telomere biology. The students will obtain theoretical and practical insight into telomere biology and the roles of telomeres during cellular senescence and for genome stability.

Content
A general theoretical introduction will be given in the beginning of the course. In the laboratory, human cells will be used as model systems. Biochemical, molecular biological and cell biological assays will be performed. Specifically, telomerase activity will be measured in cellular extracts, the affinity of an RNA-protein interaction will be determined in band-shift assays and telomere integrity will be assessed by immunofluorescence.

Note
Note that while the course is open to all first and second year EPFL doctoral students, priority will be given to 1st & 2nd-year EDMS students, given that they are mandated to take three EDMS practicals modules. Note also that doctoral students from the Lingner laboratory cannot take this course. Access is limited to 4 students. Takes place every year in January.

Keywords
Telomeres, telomerase, reverse transcriptase, cellular senescence, genome stability

Learning Prerequisites

Recommended courses

Resources
Websites
• http://lingner-lab.epfl.ch/