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Epigenetic regulation of DNA replication studied by super resolution microscopy

By Alexei Budco

GRIN Verlag Aug 2015, 2015. Taschenbuch. Book Condition: Neu. 210x148x7 mm. Neuware - Master's Thesis from the year 2014 in the subject Biology - Genetics / Gene Technology, grade: 1.0 (A+), LMU Munich (Department Biologie II), language: English, abstract: DNA replication is a fundamental biological process responsible for accurate duplication of genetic information necessary for its faithful inheritance to the two daughter cells. Despite much effort, the underlying mechanisms controlling this process are not fully understood. In order to accommodate very large and complex genomes, replication dynamics in eukaryotes evolved to become controlled by major epigenetic mechanisms. Moreover, the spatio-temporal organization of S-phase progression changes throughout cell differentiation and development. The study of genome duplication has been largely hindered by the lack of appropriate monitoring techniques, and any comprehensive understanding ultimately requires quantitative approach. In this master's thesis, we analyzed replication patterns in mouse somatic and embryonic stem cells (mESCs) with newly developed three-dimensional structured illumination microscopy (3D-SIM) to register the progression of S-phase in more detail than previously described. We successfully established an automated workflow to produce reliable and reproducible replication foci (RF) counts in C2C12 cells from 3DSIM data and TANGO (Tools for Analysis of Nuclear Genome Organization)....

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