



Institute of Animal Physiology and Genetics CAS

Laboratory of DNA integrity

Postdoctoral Researcher (Ph.D. student)

Lab focus: Our laboratory conducts research in the field of **chromosome dynamics, spindle formation, and cell cycle in mammalian oocytes and early preimplantation embryos**. We are using mouse genetic tools, combined with chemical biology approaches and advanced **live cell imaging** (both confocal and light sheet microscopy) and computer image analysis to uncover how chromosome segregation and integrity are ensured in mammalian oocytes and embryos. This research is connected to developmental disorders and infertility. It has a close connection to **human reproductive medicine**.

Eligible candidate: We are searching individual who is interested in science and wants to discover how cells work. The ideal candidate will have PhD degree in the field of cell, molecular or developmental biology, or biochemistry.

We offer interesting work on the international project, state of the art equipment, including light sheet microscopy, and solid salary.

Ph.D. position for a highly interested individual is also available.

Contact:

Assoc. Prof. Dr. Petr Šolc, Ph.D.

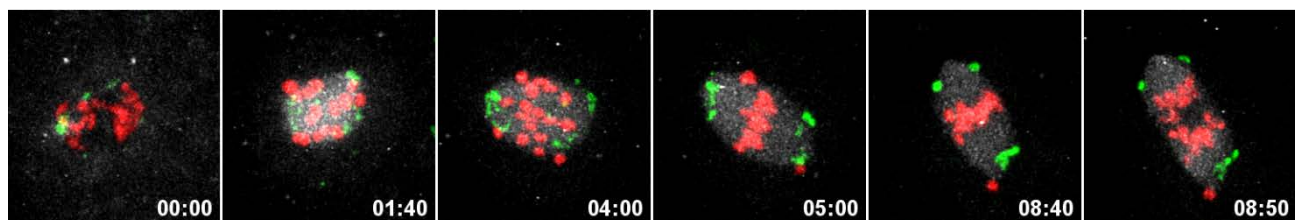
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The figure shows erroneous chromosome segregation in the oocyte in which genes coding Aurora B and C were functionally disrupted. The oocyte was imaged using confocal microscope and selected time points of meiotic maturation are shown.