

## Regular Wednesday IMG seminar



**Zdeněk Trachtulec, Ph.D.**

**Laboratory of Germ Cell Development**

***“Prdm9 deficiency causes premature ovarian failure and aneuploidy via synapsis of non-homologous chromosomes”***

PRDM9 is DNA-binding histone-methyltransferase, which participates in the localization of programmed meiotic DNA breaks in many mammalian species. PRDM9 deficiency causes various degrees of fertility reduction in both rodents and human. The speaker will present the recent findings of the laboratory describing the plausible mechanism of aneuploidy (abnormal chromosome number) formation in the germ cells of rat females lacking PRDM9 function. These females display premature ovarian failure (POF), and POF in human is associated with aneuploidy and with some PRDM9 variants. We therefore speculate that the same mechanism of aneuploidy formation may apply to some human cases.

**The seminar will be held**

**on Wednesday 16<sup>th</sup> November 2022 at 15:00**

**in the Milan Hašek Auditorium at IMG**

(Institute of Molecular Genetics of the Czech Academy of Sciences, Vídeňská 1083, Prague 4)

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