

Regular Wednesday IMG seminar



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**“Life Through Color: Single-cell fluorescence-based reporter system
for monitoring gene expression”**

The presentation will illustrate the long journey from the decision to create a novel reporter system for RNA silencing to its actual development. This project led to the production of two types of triple-color reporter HeLa cell lines, where fluorescent reporters were inserted in-frame into endogenous genes encoding highly abundant, soluble nuclear proteins. The system now enables the monitoring of repression (loss of specific fluorescence) and derepression (reappearance of previously silenced fluorescence) across an entire population of cultured cells and, potentially, for high-throughput screening. Additionally, this system can be adapted to study other mechanisms that regulate gene expression.

The seminar will be held

on Wednesday 2nd April 2025 at 15:00

in the Milan Hašek Auditorium at IMG

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