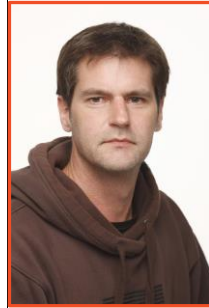

Regular Wednesday IMG seminar



Björn Schuster, Dr. rer. nat.

Laboratory of Cell Differentiation

“Switcher ON! CRISPR-inducible Cre regulating CRISPR activity”

In this seminar we present a novel genetic switch we term Switcher based on a floxed wild-type Cre-construct representing a CRISPR-inducible and self-limiting kill switch. By leveraging CRISPR/Cas12a-mediated crRNA-array maturation, we showcase Switcher's dual role – not just as a recombinase but as a CRISPR-switch, orchestrating intricate CRISPR applications with precise spatial and temporal control. Consequently, this versatile system holds the potential to streamline complex, multi-layered orthogonal CRISPR applications, both in vitro and in vivo.

The seminar will be held

on Wednesday 11th October 2023 at 15:00

in the Milan Hašek Auditorium at IMG

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