Institute of Molecular Genetics
of the Czech Academy of Sciences

Regular Wednesday IMG seminar

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"Antiviral activity of avian tetherin"

Tetherin is a key antiviral restriction factor stimulated by interferon. It inhibits the release of newly formed viral particles from the infected cells by directly binding (tethering) them at the cell surface. Tetherin displays a broad range of activity against many distinct enveloped viruses including retroviruses. Tetherin orthologs were previously identified in multiple mammalian and eventually several non-mammalian vertebrates. Recently, we have identified tetherin gene in domestic chicken and demonstrated its antiviral activity against avian retroviruses. Avian tetherins were found to undergo strong positive selection, presumably as a reaction on viral escape strategies. Further, we characterized the first case of evolutionary loss of tetherin in birds.

The seminar will be held

on Wednesday 6th April 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)