

VABILO

Biološki inštitut Jovana Hadžija Vas vabi, da se udeležite seminarja

»Mother's Curse: coevolution and the conflict between mitochondrial and nuclear genomes«,

ki ga bo predstavil

dr. Mirko ĐORĐEVIĆ



z Inštituta za biološke raziskave »Siniša Stanković«, Univerze v Beogradu

Seminar bo **11. maja 2020 ob 14.00 uri na Raziskovalni postaji Barje, Zagorica 20, Ig.**

Povzetek (Abstract):

Although mitochondria are the main site of energy production in the eukaryotic cell, the role of the haploid mitochondrial genome (mtDNA) in the evolution of life-histories has by tradition been considered neutral and nonfunctional. In order to investigate the relative contribution of nuclear and mitochondrial genes, as well as their epistatic (mito-nuclear) interactions in the life-history evolution and mitochondrial bioenergetics (i.e. electron transport chain, ETC), we used laboratory populations of the seed beetle (*Acanthoscelides obtectus*) that had been selected for short (E) and long (L) life for more than 35 years. Our experimental study showed that mito-nuclear epistasis has played an important role in the laboratory evolution of ETC complex activity, ageing and other life-history traits. Additionally, the mitonuclear architecture of evolved differences in life-histories and mitochondrial bioenergetics were sex-specific, which is the result of the intergenomic conflict known as Mother's Curse.

Seminar bo potekel v angleškem jeziku.

Za dodatne informacije smo na voljo preko e-maila: simona.kralj-fiser@zrc-sazu.si