

	GL leader	Assoc. Prof. Pavel Plevka, PhD
1	CEIPEX RESEARCH TOPIC LEVEL2	Structural Biology: structural virology
2	RESEARCH GROUP	Structural Virology
3	TOPICS/FOCUS	Structural virology - processes of cell entry and genome delivery of non-enveloped viruses
4	SUMMARY	The post-doc will participate in a research project focused on characterizing the processes of cell entry and genome delivery of non-enveloped viruses from families Picornaviridae, Polyomaviridae, Papillomaviridae, Adenoviridae, and Parvoviridae, using cryo-electron microscopy and tomography. The project will also include structural studies of endocytosis of well-characterized markers of various types of endocytosis, such as transferrin (clathrin-mediated endocytosis), anti-b1-adrenergic receptor (fast endophilin-mediated endocytosis), anti-CD44 antibody (clathrin-independent endocytosis). We aim to determine the mechanisms of virus cell entry and genome delivery, and possible means of preventing it.
5	RG WEBPAGE/CONTACT	https://plevkalab.ceitec.cz/