Amitochondriates

Postdoctoral and PhD positions opened

Location: BIOCEV, Charles University, Vestec, Czech Republic (www.biocev.eu)
Employer: Charles University, Prague, Czech Republic
Description: Positions are available in our team focused on the investigation of anaerobic protists (microbial eukaryotes) classified as Preaxostyla. Our major aims are to disclose the mitochondrial metabolism in Paratrimastix pyriformis and the mechanisms of Fe-S cluster synthesis in closely related oxymonads that lack mitochondria entirely. We also examine biotic interactions between these protists and their prokaryotic companions in the culture and natively in the termite hindgut. Furthermore, we test the possibilities of directed evolution via mitochondrial knock-outs in other selected anaerobes and develop tools to study the evolution of protein targeting into organelles.
Qualification in cell biology (cell fractionation, LOPIT proteomics, immunofluorescence, genetic transformation, RNAi, immunolocalisation, immunoprecipitation, two-hybrid system, FISH) and/or genomics (single-cell methods, NGS library preparations and data handling, binning, metagenomics, metabarcoding, transcriptome and genome assembly and annotation, methods of comparative genomics, programming) is an advantage but enthusiasm and invention are necessary conditions.
If you wish to work on other organisms (e.g. euglenids) do not hesitate to ask 😊

Team web page: www.protistologie.cz/hampllab
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