

Advertisement for **BSc thesis project** in the

### **Metagenomics of springtail microbiomes**

Springtails are common in many terrestrial habitats. Their adaptation might be supported by associated microorganisms. We generated genome sequences for tens of springtail species. These genomes contain DNA sequences from associated microbiomes. I am looking for a BSc candidate to carry out his/her BSc thesis research in metagenomic sequence identification, as part of the Functional Environmental Genomics working group of Senckenberg / JLU / LOEWE-TBG.

The project consists of the evaluation of these microbial sequences, and their assignment to particular taxa, and provides you with hands-on experience and insight into metagenomics data processing and analysis. The goal of the project is to produce a comprehensive metagenomic database using genome refinement techniques. You will have ample opportunities to interact with an international team with diverse interests and expertise (ecology, evolution, phylogenetics, taxonomy, bioinformatics).

In line with the Examination Regulations of the degree programme Agricultural Sciences at JLU, the duration of the project is three months. As a BSc thesis project, the position is unpaid. The project might start immediately and should be done from home office until the SARS-COV-2 situation eases. After this, at least some in-person visits to the AG Bálint labs are expected (Senckenberg Biodiversity and Climate Research Centre (SBIK-F), Frankfurt). The project is supervised by Prof. Dr. Miklós Bálint (SBIK-F, Justus-Liebig-University, Institute for Insect Biotechnology, LOEWE Centre for Translational Biodiversity Genomics - LOEWE TBG), and supported by several colleagues from TBG. Some experience in the usage of Linux based consoles and command line programs is advised.

More information about the group and the larger context of the project:

<https://tbg.senckenberg.de/tbg-project-miklos-balint-and-team/>

If interested, please send an email to [miklos.balint@senckenberg.de](mailto:miklos.balint@senckenberg.de)