

Sari Peura  
Department of Biological and  
Environmental Science  
University of Jyväskylä

## Report for the visit at the Uppsala University

I was very happy to receive a travel grant from NENUN for a one week stay at the Department of Ecology and Genetics, Uppsala University, visiting PhD Alexander Eiler. The aim of the trip was to learn about processing and analyzing of next generation sequencing data. For sequence processing I was learning how to use program AmpliconNoise and for sequence analysis I was concentrating in conducting a Local Similarity Analysis using R and visualizing these results with Cytoscape. Additionally I was introduced to another program that is also used for network analysis of massive datasets, called MINE.

The first two days I was studying and practicing the use of AmpliconNoise in computer cluster environment and the remaining days I spent in analyzing the sequence data with LSA and MINE. I found especially interesting the discussions about which kind of data these analyses can be used with and what kind of questions they may give answer to. I find the idea of network analysis very intriguing and think they can be very useful especially in making working hypothesis for the functions of complex environmental bacterial communities that can be then tested with more function oriented methods. I came up with many new ideas how to analyze my data and also learned many things that I'll need to consider in my future projects.

So thank you NENUN for making this trip possible!