

### Master Thesis Project “Nanopore sequencing of RNA viruses”

The Group for Aquatic Microbial Ecology (Environmental Microbiology and Biotechnology, Campus Essen) has an open position for a Master Thesis project. The master thesis will deal with **sequencing and discovery of novel RNA viruses from environmental samples** by employing:

- a) Cultivation of phage-host systems for RNA isolation.
- b) Sequencing of RNA with third-generation long-read Nanopore sequencing.
- c) Testing these methods for recovery of novel RNA viruses from environmental samples.

The candidate will receive wet-lab training in culturing, harvesting, and isolating different types of RNA phages from bacterial cultures and using state-of-the-art, long-read Nanopore sequencing to determine their genomic sequences. Particularly, handling **Nanopore technology for RNA sequencing** will equip the student with knowledge on the **latest technology on the market**. This master thesis will enrich the candidate’s skillset with a wide range of interdisciplinary and cutting-edge methods in the fields of environmental genomics, virology, and bioinformatics.

Start date: Any time after 1 February 2020

Please send applications or questions to:

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