



Universiteit  
Leiden  
The Netherlands

## **From molecules to monitoring: integrating genetic tools into freshwater quality assessments**

Beentjes, K.K.

### **Citation**

Beentjes, K. K. (2021, April 8). *From molecules to monitoring: integrating genetic tools into freshwater quality assessments*. Retrieved from <https://hdl.handle.net/1887/3158798>

Version: Publisher's Version

License: [Licence agreement concerning inclusion of doctoral thesis in the Institutional Repository of the University of Leiden](#)

Downloaded from: <https://hdl.handle.net/1887/3158798>

**Note:** To cite this publication please use the final published version (if applicable).

Cover Page



Universiteit Leiden



The handle <https://hdl.handle.net/1887/3158798> holds various files of this Leiden University dissertation.

**Author:** Beentjes, K.K.

**Title:** From molecules to monitoring: integrating genetic tools into freshwater quality assessments

**Issue Date:** 2021-04-08

AACTTTATATTTTCATTTTTGGTATTTGATCTGGTATAGTT  
GGAACATCATTAAAGATGATTAATTCTGAATTGAATTAGGAC  
AACCAGGATCATTTATTGGAGATGATCAAATTTATAATGT  
AATTGTAACAGCACATGCATTCATTATAATTTTTCTTTATA  
GTTATACCTATTATAATTGGAGGATTTGGTAATTGACTGG  
TACCATTAATAATTGGAGCACCTGATATAGCATTTCCTCG  
AATAAATAATATAAGATTTTTGATTATTACCACCATCATT  
ACATTACTTTTTAGCAAGATCAATTGTAGATAATGGAGCAG  
GAACAGGATGAACAGTTTACCACCACCTATCAAGAAATTT

# FROM MOLECULES TO MONITORING

Integrating genetic tools into  
freshwater quality assessments



Kevin K. Beentjes



The influence of macroinvertebrate abundance on the assessment of freshwater quality in the Netherlands

Increased performance of DNA metabarcoding of macroinvertebrates by taxonomic sorting

The effects of spatial and temporal replicate sampling on eDNA metabarcoding

Environmental DNA metabarcoding reveals comparable responses to agricultural stressors on different trophic levels of a freshwater community