





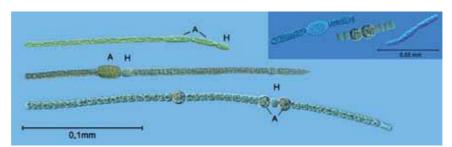
## Toxic Cyanobacteria and Environmental Changes (NOSTOTOX)

Toxic nostocalian cyanobacteria are on the rise in lakes of the Berlin region - local species as much as species of tropical origin. The toxin cylindrospermopsin produced by nostocales, in addition, is spreading and often exceeds the recommended threshold value for drinking water of 1  $\mu$ g L-1. The hypothesis is that the combination of reduced trophication and warming of water bodies affects nostocales positively and results in a changed mixture of species and changes in toxin production.

## Aim of the project

## Work packages

- To provide a sound scientific basis for formulating recommendations for water management as well as decision aids for risk assessment in water supply
- Comparative screening of 15 lakes in the Berlin region for changes in phytoplankton and cyanotoxin composition since 1995
- Continuation of long-term monitoring of well investigated lakes in the Berlin region
- Laboratory and mesocosm experiments on factors affecting phytoplancton growth and toxin production as well as on toxin degradation
- Development of a decision support system for risk assessment in drinking water supplies and swimming sites



Microscopic image of nosticalian cyanobacteria



Lake Stechlinsee, Germany

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