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## Teaching CV Alexander H. Treusch

### Formal educational training

Lecturer training programme (universitetspædagogikum), 2011  
PhD supervisor courses, 2013, 2019

### Courses currently taught

2010-now            Microbiology (BB509, bachelor level, 2. year)  
2010-now            Aquatic microbial and molecular ecology summer course (BB201, PhD level)  
2011-now            First year science project (FF501, bachelor level, 1. year)  
2014-now            A sustainable future innovation course (BB530/BB536/BB549, bachelor level, 2. year)  
2016-now            Microbial ecology and global element cycles (BB538/BB540, bachelor level, 3. year)

### Previously taught courses

2011/12            Introduction to biological methods for environmental monitoring (BB504/BB527, bachelor level, 2. year)  
2014/15            Biomonitoring of pollution in aquatic ecosystems (BB515, bachelor level, 3. year)  
2017                Lake Ecology (BB510, bachelor level, 2. year)

### Administrative tasks relating to education

- Member of the Danish external examiner corps in biology
- *Ad hoc* internal examiner at BI and BMB
- VIP contact person at the department for the laboratories in the *undervisningsoase*
- Planning group of the new teaching laboratories (*undervisningsoase*) of BI and BMB at SDU

### Methods, materials, and tools used

"Classical" frontal lectures, seminars with group work and discussions, laboratory exercises and excursions.

E-learn tools.

Use of Labster laboratory simulation software.

Assessments in the form of written exams, oral exams, presentations, reports, competitions.

Contributed to chapters in three textbooks that are used in the teaching of specialty courses for postgraduate students.

### Educational development and applied research into teaching

2014                E-learn development project "Implementation of the computer based learning program Labster to intensify practical skills and learning success"; publication of results in a scientific journal  
2019-2020        E-learn development project "Reducing exam anxiety by the implementation of continuous evaluation via e-learning tools"

### Teaching philosophy

For me, teaching is an important part of the academic experience. It is rewarding to see students grow with the education they receive and the duties and responsibilities they are challenged with during their studies. By teaching and guiding them along their way to become the next generation of academics, it is possible to not only teach the curriculum but also pass on values of the scientific community. From my scientific background I try to emphasize an ecologic view on microbiology as ultimately all questions we ask about microorganisms are related to the environment they are living in, their ecophysiology and the ecological networks they are part of. With my teaching I would like to create a similar kind of holistic thinking in students and illustrate how diverse, interconnected and exciting the field of microbiology is.