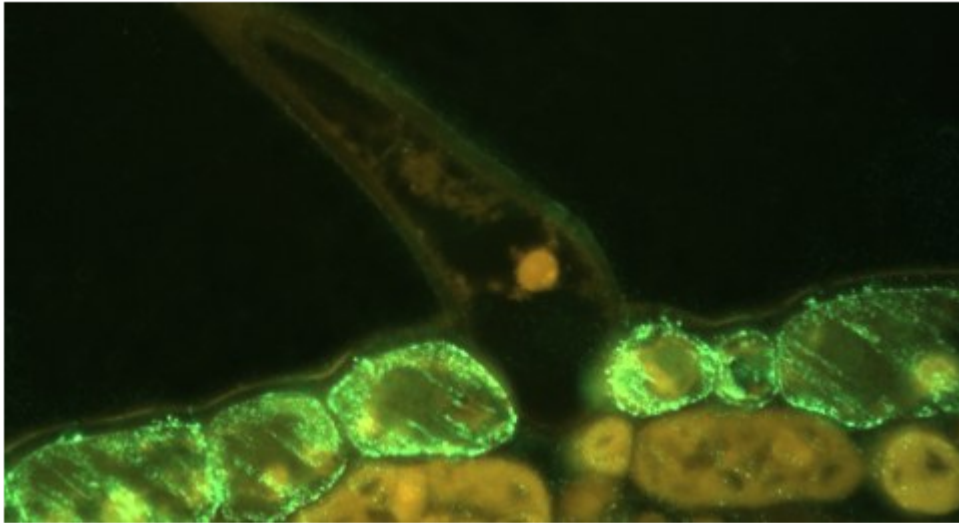


Molecular Evolution of Biotic Interactions (biol247)

Further information:

https://www.ober.botanik.uni-kiel.de/en/teaching/master-sciences-biology/biol247?set_language=en



Interactions between organisms are a prominent part of biology. They are the result of millions of years of evolution. Which is the impact of the mutual adaptations on RNA, DNA, and proteins? How can the processes of evolution be reconstructed by the footprints they left within the genomes? In the lecture of the module basics of molecular evolution and some fundamental models of gene evolution will be presented. In the practical part, modern research strategies will be presented in the lab, supplemented with seminars about sequence analyses, strategies for the identification of unknown sequences for a specific function, interpretation of phylogenetic trees, cloning strategies for heterologous protein expression, and natural compound analyses. You will get an overview about the research and the methods of our group that focusses on the evolution of plant-insect interactions.

During the module you will give a seminar talk. The module ends with a written exam.

In this module you will learn various methods that allow to address modern scientific questions in the field of evolution of interactions between organisms. During this course you will work in the labs of the working group and you are supervised by various members of our group in small group seminars

For the moment, due to the difficult situation, we cannot give you any serious timetable. But we will collect all new information on our homepage as soon as we have any news

We are looking forward to see you as a participant in this module

Diemich Ae