

How to best conduct aquatic ecotoxicity tests according to the International Guidelines

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Abstract

The course provides guidance on how to perform the base set testing of acute algae-, daphnia and fish-tests (mainly biological part of the study whereas the statistical analysis is covered in Short Course 8), taking into account the EU regulations, US-EPA and OECD-test Guidelines, and how to produce scientifically valid studies accepted by the authorities in the EU, US and Japan. Each test method is exemplified with reactions of the authorities to studies submitted showing why authorities declared that a particular study did not satisfy the guideline requirements.

Last but not least, guidance will be given on how to best interpret and report studies. A case study based on an acute fish test with a 'difficult to test substance' will illustrate reporting needs and deficiencies. Examples will be discussed on how to best report results of aquatic ecotoxicology studies.

Course objectives

The course provides guidance on testing methods and strategies in aquatic ecotoxicology based on tests of algae, daphnia and fish. It provides the knowledge and skills to optimise the testing in order to avoid the production of invalid data and the repetition of studies.

Course level

Intermediate