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PREDITOX 2017 - Ecotoxicology and Predictive Modelling - 10-13 july 2017

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CNRS Thematic School
SETAC Summer School
SETAC CRA Approved Courses

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European guidelines for risk assessment of chemicals have recently been modified (REACH, directives for pesticides and biocides) in particular to improve their ecological realism while limiting the use of laboratory animal testing. In addition, the OECD undertook a revision of guidance documents for laboratory bioassays in order to strengthen the relevance of data analysis methods (e.g., OCDE guideline 243). These new official texts all recommend the use of appropriate mathematical and statistical modelling tools, for cognitive and predictive purposes. They promote the optimisation of data analysis (e.g., interpolation between the concentrations tested in bioassays) and the use of modelling as a basis for predicting effects under different environmental conditions (e.g., extrapolation between different scenarios and different exposure times, extrapolation from the individual to the population level, or extrapolation from one species to another).

This school aims at helping ecotoxicologists, regulators, managers, NGOs and other stakeholders to improve their skills in modeling and statistical inference for, among other things, a better analysis of their bioassay experimental data.