

Animal Welfare Course C updated

Training course for registered persons performing animal experiments and for study directors

Endocrine Disruptors: Basic Principles, Sexual Development of Fish and Testing of Endocrine Active Substances

Monday & Tuesday, October 14 & 15, 2024

Course Focus:

Endocrine Active Substances: Endocrine disruptors, hormonal regulation of reproduction and metabolism, endocrine potency of substances

Sexual Development of Fish: Anatomy, gonads, sexual differentiation and development, secondary sex characteristics, sex and sex reversal

Testing of endocrine disruptors: Test methods with suitable endpoints and their sensitivity, what is an endocrine effect, test strategies

Removal of Blood and Gonads in order to assess endocrine effects on vitellogenin and histological effects on gonads.

Video on fatal health consequences due to exposure to endocrine disruptors

Duration, Purpose and Language of Course:

The course will take place on two mornings from 0800 to 1200h. It will be regarded as a one day further education course by the Swiss authorities or as part of the education of persons responsible for directing animal experiments in the context of MODUL ECOTOX corresponding to FELASA-C (MODUL ECOTOX consists of a total of six courses A, B1, B2, B3, D2 and P: theoretical and practical education of at least 40 hours for persons responsible for directing animal experiments). The course is adapted to registered persons performing animal experiments as well as for study directors. The course language is English or German depending on the audience.

Organisational Information:

Lead & Instructor. Dr. Hans Rufli, **ecotoxsolutions**, Basel

Registration: rufli@ecotoxsolutions.com

Costs: Fr.700.- including pdf-files of the presentations sent ca. 1 week prior to the course.

Your Video Equipment: "Zoom" should be installed on your Laptop/PC (<https://zoom.us/download> = English). Microphone and camera should be available as well. At 7h on the days of the course, an invitation link will be sent to your desired email-address previously announced to me. By clicking this link, you will be in the meeting.

Certificate: A written certificate will be handed out. This certificate will have to be shown to the Swiss authorities on request.

Programme of Course C

Time	Topics
	<i>Day 1</i>
0800-0815	Welcome, Information about Course
0815-1000	1) Endocrine Active Substances: a) Endocrine disruptors, hormonal regulation of reproduction and metabolism, endocrine potency of substances
1000-1100	2) Sexual Development of Fish: a) Gonad development and maturation stages
1100-1200	1) Endocrine Active Substances: b) What is an endocrine effect?
	<i>Day 2</i>
0800-0920	2) Sexual Development of Fish: b) Sexual differentiation of gonads & Sensitive Windows c) Endpoints and endocrine effects d) Sex determination and sex reversal
0920-1040	OECD-Test methods and Testing Strategies for endocrine substances
1040-1130	Removal of Blood and of Gonads to assess endocrine effects on vitellogenin and histological effects on gonads Dissection Manual & Video
1130-1200	Course Evaluation and Final Review