

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, November 6, 2018

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 from 0915 to 1800h. 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 & Instructors: Dr. Hans Rufli, **ecotoxsolutions**, Basel
Dr. Susanne Knörr, Heidelberg

Registration: rufli@ecotoxsolutions.com

Costs: Fr.700.- including pdf-files of the presentations sent prior to the course. Handouts in a file handed out at the start of the course can be organized on demand.
Fruits, croissants, sweets and mineral water will be offered during the course.

Location: **ecotoxsolutions**, meeting room R-1095.327
Entrance Rosental: Port 1047, Mattenstrasse (Tram stop „Gewerbeschule“). I will wait at Port 1047 and guide the participants to the meeting room.

Access: By car: Exit motorway „Badischer Bahnhof“, parking place „Parkhaus Badischer Bahnhof“, Schwarzwaldallee 160 (ca. 300 m distance)
By train: Basel „Badischer Bahnhof“ (10 min walk to port 1047), or „Bahnhof SBB“ (tram 2, direction „Riehen“ until stop „Gewerbeschule“) (5 min walk to port 1047).

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

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Time	Topics	Speaker
0915-0945	Welcome, Information about Course	H. Rufli
0945-1100	Endocrine Active Substances: 1) Endocrine disruptors, hormonal regulation of reproduction and metabolism, endocrine potency of substances 2) What is an endocrine effect?	S. Knörr H. Rufli
1100-1145	Sexual Development of Fish: 1) Gonad development and maturation stages	S. Knörr
1145-1245	<i>Lunch</i>	
1245-1520	Sexual Development of Fish: 2) Sexual differentiation & Sensitive Windows 3) Endpoints and endocrine effects 4) Sex determination and sex reversal	H. Rufli
1520-1600	OECD-Test methods for endocrine active substances Teststrategies for endocrine substances	H. Rufli
1600-1630	Removal of Blood and Gonads in order to assess endocrine effects on vitellogenin and histological effects on gonads	S. Knörr
1630-1730	Video on fatal health consequences due to exposure to endocrine disruptors	H. Rufli
1730-1800	Course Evaluation and Final Review	H. Rufli