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Swiss Confederation

Federal Department of Economic Affairs,  
Education and Research EAER

**Agroscope**

Methods Development and Analysis (MEA)



**COST Action CA15215**

“innovative approaches for pork production with entire males”

*Training*

# **Analysis of androstenone and skatole in fat samples**

**Hands-on in: sample preparation, calibration curve, extraction and quantification of real & reference samples**

**A set of reference samples will be offered**

Agroscope, Posieux Switzerland, 13 – 15 November 2019



## ***PARTICIPANTS***

The training is intended for scientists, laboratory personnel and students interested in the analysis of boar taint compounds.

## ***AIM***

The objective of the training is to provide participants with a real experience in the analysis (HPLC) of boar taint compounds in fat. Most chapters, including the preparation of calibration standards, sample preparation, data processing and troubles with the analysis are easily transferable to other techniques / methods. Participants will also be briefly trained in the analysis of skatole, indole and metabolites in matrices other than fat. In addition, participants will receive a set of reference samples (high, medium and low concentrations of androstenone and skatole) to take home, which will eventually allow them to standardize any calibration curve established in their own laboratory.

## ***DATES***

Wednesday, November 13 from 14:00 to Friday, November 15 at noon.

## ***LOCATION***

The training will take place at :

AGROSCOPE    Route de la Tioleyre 4  
                  CH-1725 Posieux  
                  Switzerland

<https://www.agroscope.admin.ch/agroscope/en/home.html>

<https://www.agroscope.admin.ch/agroscope/en/home/about-us/locations-contacts/posieux.html>

## ***HOTEL***

We suggest the following hotel, to book personally (the transport will be organized daily, back and for, from NH Fribourg Hotel to Agroscope):

### **NH Fribourg Hotel**

Price: from 111.80 EUR per night, breakfast included

Address: Grand Places, 14, 1700 Fribourg - Switzerland

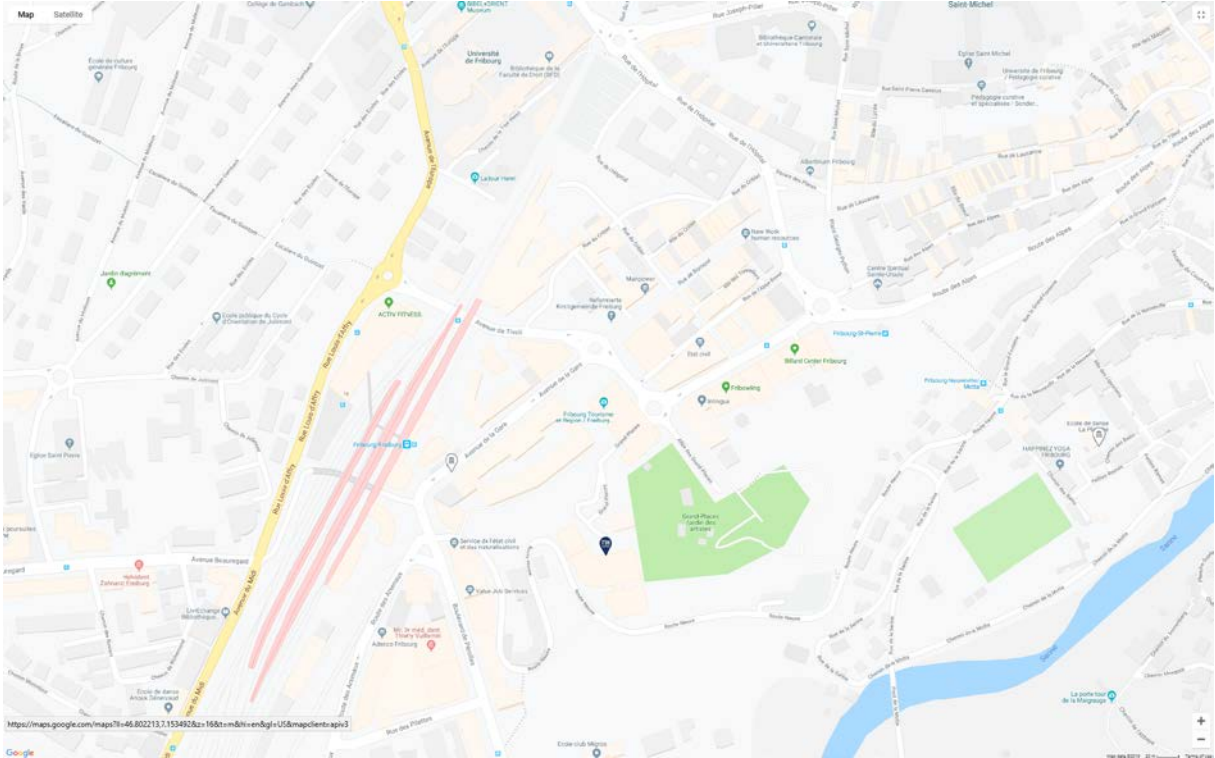
Reservations: +41 31 5208011

Tel.: +41 26 3519191

Email: [nhfribourg@nh-hotels.com](mailto:nhfribourg@nh-hotels.com)

<https://www.nh-hotels.com/hotel/nh-fribourg>

Map: <https://www.google.com/maps/place/Grand-Places+14,+1700+Fribourg/@46.8022289,7.1515216,17z/data=!3m1!4b1!4m5!3m4!1s0x478e692e98935e75:0x25c3ead2835770a1!8m2!3d46.8022252!4d7.1537156>



If you miss the organized transport: the public transfer from NH Fribourg hotel to Agroscope takes 27 min., door to door, by taking the bus 336 towards Bulle at the railway station of Fribourg (stop: Agroscope); it includes a 7 min. walk from NH Fribourg Hotel to the train station and 8 min. walk from Agroscope bus stop to Agroscope.

### **SOCIAL EVENTS**

On Thursday, November 14 at 16:15, a bus will leave from Agroscope to Romont, where a visit to the stained glass museum (<https://www.myswitzerland.com/en-ch/experiences/vitromusee-romont-stained-glass-museum/>), located in a medieval castle (<https://static.mycity.travel/manage/uploads/7/42/61576/1/brochure-balade-historique-2018-pdf.pdf>), and the event dinner will be organized.

On the evening of Wednesday 13 November, an optional group dinner will be held at “Les Trentenaires” <https://www.lestrentenaires.ch/>  
[https://fr.tripadvisor.ch/Restaurant\\_Review-g315924-d7283982-Reviews-Les\\_Trentenaires-Fribourg\\_Canton\\_of\\_Fribourg.html](https://fr.tripadvisor.ch/Restaurant_Review-g315924-d7283982-Reviews-Les_Trentenaires-Fribourg_Canton_of_Fribourg.html)



## **PROGRAM**

Trainers: Galia Zamaratskaia, Giuseppe Bee, Heidy Chavarria-Drécourt, Silvia Ampuero Kragten

Lunch is scheduled at Agroscope on November 14 (optionally also on November 13, 15), payed on site individually in Suisse francs (13.50 CHF per lunch, ~12.40 €).

### Wednesday, November 13<sup>th</sup>

13:30	Bus from NH Fribourg hotel to Agroscope
14:00 – 14:30	Welcome (Silvia & Giuseppe)
14:30 – 16:00	Preparation of calibration standards (Silvia & Heidy)
16:00 – 16:30	Coffee break
16:30 – 18:00	Preparation of samples (Silvia & Heidy)
18:00	Bus to the hotel
19:30	Dinner & drinks at “Les Trentenaires”

### Thursday, November 14<sup>th</sup>

8:00	Bus from hotel to Agroscope
8:30 – 10:30	Extraction of both analytes from calibration, reference and real samples (Silvia & Heidy)
10:30 – 11:00	Coffee break
11:00 – 12:00	HPLC analysis by in-situ derivatization (Silvia & Heidy)
12:00 – 13:00	Lunch at Agroscope
13:30 – 16:00	Visit of the animal production facilities, glimpse of current research projects at Agroscope-Animal Production Systems and Animal Health Division (Giuseppe)
16:00 – 16:15	Coffee break
16:15	Bus to Romont, social event and dinner
21:00	Bus to the hotel

### Friday, November 15<sup>th</sup>

8:00	Bus from hotel to Agroscope
8:30 – 10:00	Troubles with androstenone analysis (own experience). Skatole, indole analysis in plasma, fat and urine. Metabolites analysis (Galia)
10:00 – 10:15	Coffee break
10:15 – 11:00	Comprehensible inspection of chromatograms, integration of peaks (Silvia & Heidy)
11:00 – 12:00	Data treatment, establishment of calibration curve, determination of androstenone and skatol concentrations (Silvia & Heidy)
12:00 or 13:15	Bus to train station (Fribourg) or hotel