



**University of
Zurich** ^{UZH}



Institute of Parasitology

European Veterinary Parasitology College (EVPC)

VIPs in Zurich

Very Important Parasites in Zurich – from fundamental to applied research



23rd – 29th October 2016

Continuing Education in Veterinary Parasitology for EVPC Diplomates and Residents

Sponsors

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General Information

Course Organizers: Walter Basso and Cornelia Silaghi

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Secretary:

Institute of Parasitology, University of Zurich

Winterthurerstrasse 266a 8057-Zurich

Switzerland

Tel: +41 44 63 58501

E-mail: parasito@vetparas.uzh.ch

Venue: Institute of Parasitology (IPZ), Vetsuisse Faculty, University of Zurich, Winterthurerstrasse 266a, 8057-Zurich, Switzerland.



How to arrive:

Travelling by plane:

Zurich Airport (Zürich Flughafen) is located at 7 km from the venue, which can be reached by tram in about 30 min or taxi in about 15 min.

Travelling by tram from Zurich Airport: Take tram 10 (direction Zürich HB) until tram station “Milchbuck” (14 stops) and from there tram 7 (direction Stettbach) or tram 9 (direction Hirzenbach) to tram station “Tierspital” (next stop).

Travelling by train:

Zurich main train station (Zurich HB, Hauptbahnhof) can be reached from abroad with connections from all over Europe. It is located at 4 km from the venue, which can be reached by tram or by taxi in about 15 min.

Travelling by tram from Zurich main train station: Take tram 7 (direction Stettbach) at tram stop “Bahnhofstrasse/HB” until tram station “Tierspital” (11 stops).

Travelling by car

Zurich may be reached by car using existing major highways (National road tax), ensuring the shortest possible journey times. In the city or on the Campus parking is, however, severely limited and expensive; so you are encouraged to use public transportation.

Public transportation in Zurich

https://www.stadt-zuerich.ch/content/vbz/en/index/tickets/fare_zone_system.html



City of Zurich

No participation fee is asked.

In the course are included: Lunches, dinners and coffee breaks as outlined in the program; field excursion; teaching and laboratory materials.

Not included in the course are: travel to and from Zurich, accommodation, breakfast, and public transport tickets in Zurich.

Deadline for application: 1.8.2016

Language: The official language will be English

Number of participants: maximum 10

Participants selection: Priority: 1. EVPC Residents, 2. EVPC Diplomates, 3. Other interested candidates.

Accommodation

Zurich Tourismus

Zurich Tourismus can assist in bookings of your accommodation: <https://www.zuerich.com/de/suche>

Tel: +41 (0) 44 215 40 40

Also our secretary will be happy to help you with the accommodation.

Other possibilities

Bed & Breakfast in or around Zurich: <http://www.bnb.ch/>

Youth hostels: <http://www.youthhostel.ch/en/hostels/zurich>

Accademia Apartments: <http://www.accademia.li/>

A coffee bar in Zurich, **Kafi Schnaps**, offers 5 guestrooms: <http://www.kafischnaps.ch/schlafen.html>

Airbnb: <https://www.airbnb.ch/>

Couchsurfing: <https://www.couchsurfing.com/>

List of lecturers:

Peter Deplazes, Prof, Dr med vet, PD, Dipl EVPC (PD)

Adrian Hehl, Prof, Dr, PD, PhD (AH)

Alexander Mathis, Prof, Dr sc nat, PD (AM)

Felix Grimm, Dr phil II (FG)

Walter Basso, Dr med vet, PD, Dipl EVPC (WB)

Cornelia Silaghi, Dr med vet, PD, Dipl EVPC (CS)

Manuela Schnyder, Dr med vet, PD, Dipl EVPC (MS)

Hubertus Hertzberg, Dr med vet, PD, Dipl EVPC (HH)

Carmen Faso, Dr sc, PhD (CF)

Daniel Hegglin, Dr (DH)

Preliminary program

Sunday 23rd October

Arrival of participants

Welcome Dinner

Monday 24th October

8:15-9:30: Lecture (PD): *Cestodes - research and diagnostics*

Contents: Major cestodes - *Echinococcus multilocularis*; *E. granulosus*; *Taenia* spp.; epidemiology, hosts, clinic, diagnostics, research at IPZ, animal models, antigens, test development

9:30-10:00: Coffee break

10:00 - 12:30: Zurich city tour (PD, DH)

Contents: Visit of the city of Zurich and surroundings with focus on *Echinococcus multilocularis* epidemiology; collection of environmental samples for parasitological investigations

12:30-13:30: Lunch at Mensa of Veterinary Faculty

13:30-16:00: Practical activity (PD, MS):

Contents: Necropsy of foxes and rodents; recovery of parasites from fox intestine; (filtration-concentration method); fox lung necropsy; microscopy

16:00-16:30: Coffee break

16:30-18:30: Lecture and practical activity (MS): *Lungworms of carnivores*

Contents:

Lecture - Lungworms of carnivores: epidemiology, hosts, clinic, diagnostic

Practical activity - Microscopy of adult lung worms and larvae, morphological identification

Tuesday 25th October

Full day excursion with farm visits

8:00: Departure from Zurich

Lectures (HH): *Management of gastrointestinal nematodes in ruminants and horses*

Contents: Gastrointestinal nematodes of ruminants and horses, epidemiology with focus on the (pre-) alpine region, pasture management, clinic, diagnostic, control measures (monitoring strategies), anthelmintic resistance

Practical activities (HH, WB, CS):

Visit of a sheep/goat and horse enterprises performing advanced parasite control measures.
Collection and analysis of samples from animals and pasture; FAMACHA test

Wednesday 26th October

8:15 - 9:30: Lecture (CF, AH): ***Giardia duodenalis: A protozoon as a model for fundamental research***

Contents: *Giardia* research at IPZ

9:30-10:00: Coffee break

10:00-12:30: Practical activity (CF, AH):

Contents: Confocal microscopy and *in vitro* culture of *Giardia*

12:30-13:30: Lunch at Mensa of Veterinary Faculty

13.30-14.30: Lecture (CS): ***Taxonomy and molecular epidemiology of Giardia duodenalis***

Contents: Current taxonomy of *Giardia*; zoonotic potential; methods for epidemiological studies

14.30 -15.30: Lecture (MS): ***Control of Giardiasis in dogs and cats***

Contents: Control measures, studies at IPZ.

15:30 -16:30: Coffee break

16:30-19:00: Lecture and practical activity (FG, WB): ***Diagnostic of Giardiasis***

Contents:

Lecture - Diagnostic possibilities of *Giardia* infections in animals, choice of tests.

Practical activity - Microscopy (SAFC, flotation methods), different commercial tests, coproantigen ELISA, immunofluorescence, rapid tests

Thursday 27th October

8:00-9:30: Lecture (AH): ***Toxoplasma gondii: from fundamental to applied research***

Contents: Biology of *Toxoplasma gondii*; genomics, transcriptomics and proteomics of *T. gondii*, vaccine development.

9:30-10:00: Coffee break

10:00-12:30: Lecture and practical activity (WB, CS): ***Toxoplasmosis, neosporosis and besnoitiosis***

Contents:

Lecture - epidemiology, clinic and diagnostic of toxoplasmosis, neosporosis and besnoitiosis in animals

Practical activity - microscopy of histological slides (intestine, liver, brain) and fresh material (oocysts, tachyzoites)

12:30-13:30: Lunch at Mensa of Veterinary Faculty

13:30- 15:30: Lecture and practical activity (FG): ***Diagnostic Laboratory***

Contents:

Lecture - Accreditation of a diagnostic laboratory, planning, quality management, standardization

Practical activity - Presentation of diagnostic highlights

15:30-16:00: Coffee break

16:00 - 17:30: Practical activity (PD):

Contents: egg detection in fox faeces and environmental and food samples

19:00 - 21:45: Dinner on the Lake Zurich: „Fondue Chinoise Ship” invitation from IPZ.

Meeting at 18:45 at Bürkliplatz, Zurich

Friday 28th October

8:00-10:00: Lecture and practical activity (CS, AM): ***Insect vector research in the laboratory***

Contents:

Lecture – insect life cycle (mosquitoes, biting midges), morphology, invasive species, vector competence, insect-borne-pathogens

Practical activity - demonstration of insect vector trapping, breeding and feeding methods

10:00-10:30: Coffee break

10:30 - 12:30: Practical activity (AM, CS): ***Classical and new methods for insect identification***

Contents:

Morphological insect identification (microscopy of eggs, larvae, pupae and adults of *Culex*, *Anopheles*, and *Aedes*; *Culicoides* species)

MALDI-TOF as a new tool for insect identification: Principles of the method, preparation of samples for MALDI and analysis of spectra

12:30-13:30: Lunch at Mensa of Veterinary Faculty

13:30-16:00: Practical activity (CS): ***Laboratory techniques in vector competence research***

Contents: mosquito dissection, collection of saliva for virus vector competence studies, microscopy
Dirofilaria stages in mosquitoes.

16:00-16:30: Coffee break

16:30-17:30

Exam

19:00: Farewell Raclette at IPZ

Saturday 29th October

Departure of participants

8:30-12:00: Optional for EVPC Residents: Study of IPZ specimen collection (WB, CS)

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Application Form

(To be sent before 1st August 2016)

To the organizing Comitee

E-mail: parasito@vetparas.uzh.ch

Tel: +41 44 63 58501 Fax: +41 44 63 58907

Name..... Surname.....

Institution.....

Address.....

City..... Country.....

Phone..... E-mail.....

Acceptance of terms and conditions

Please be aware that the course organizers are not responsible for any damage or injury in any way arising from transfers and field, clinical and laboratory activities during participation of the course. We strongly suggest you take out personal accident insurance if you do not already have it.

Place and date Signature.....