



**EURO-FBP**  
European Network for Foodborne Parasites



COST Action FA1408

European Network for Foodborne Parasites in Europe (EURO-FBP)

## WG2 WORKSHOP

**“Towards a consensus on subtyping schemes for surveillance and outbreak investigations of *Cryptosporidium*”**

**Meeting date:** 16-17 June 2016

**Meeting venue:**

Robert Koch-Institut (RKI)

Seestrasse 10

room S05.A.EG.017 (Hörsaal)

13353 Berlin, Germany

Tel +49 30 18754 0

(Contact at RKI: Christian Klotz, klotzc@rki.de, +49 18754 2514)

**Local hosts:** Christian Klotz (Robert Koch-Institut, RKI, klotzc@rki.de) and Karsten Nöckler (Federal Institute for Risk Assessment, BfR, Karsten.Noeckler@bfr.bund.de)

**Scientific organizers:** Simone M. Cacciò (Istituto Superiore di Sanità, ISS, Rome, Italy, simone.caccio@iss.it) and Rachel Chalmers (national Cryptosporidium Reference Unit, Public Health Wales, Singleton Hospital, Swansea, United Kingdom, Rachel.Chalmers@wales.nhs.uk)

**Preliminary programme:**

**Day 1. Morning - Setting the scene**

9:00 Welcome, housekeeping

9:20 Introduction; purpose of the workshop - Rachel & Simone

9:30 Use of typing data for public health generally-Titia Kortbeek

10:00 The confusing world of *Cryptosporidium* genotyping– Giovanni Widmer

10:45 Coffee break

11:15 How diversity relates to transmission to humans?-Simone M Cacciò

11:45 Human epidemiology and foodborne outbreaks - Rachel Chalmers

12:15 Veterinary aspects - Karin Troell

12.4 General Discussion

13:15 Lunch

**14:30 Afternoon – our experiences**

A series of short reports (5-10 minutes each) from each country: where they are now and where they would like to be.

Questionnaire data presentation; Summing up – Simone & Rachel

**19:30 Dinner in outside location (further info will be provided at the workshop)**



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### Day 2. Synthesis from day 1

#### Morning: guided group discussions and feedback sessions

- What would a subtyping scheme for *Cryptosporidium* look like? How could it be applied?
- What kinds of samples – human, animal, food, water, environmental - and what challenges do they bring?
- What would be needed to deliver it? Limitations?
- Can we learn from ongoing projects based on whole genome sequencing?

#### Afternoon: What can we agree on?

- Development, validation, nomenclature, interpretation and quality control
- Can we propose an outline method? Do we need separate methods for *C. parvum* and *C. hominis*?
- Can we establish a working group to seek funding to validate, maintain and develop a scheme? (round robin, system for adding new markers, evaluation, reference standards?)
- Development and management of a database. Funding?

The workshop is intended to finish at 4 pm / 5 pm on Friday, so please book your flights accordingly.

#### Outcomes

A proposed method will be worked into a proposal for a proof-of-concept study to investigate whether researchers can compare MLVA results between different laboratories through use of a set of reference DNA in each laboratory.

Definition of the processes for

1. Establishing a reference DNA repository
2. Evolving the scheme
3. Developing a database

A model for a further EURO-FBP workshop or training meeting on new fast-developing techniques, such as whole genome sequencing.

#### Outputs

A paper describing the current situation (based on the questionnaire) will be submitted to Food and Waterborne Parasitology

A consensus paper will be submitted for publication in Eurosurveillance.



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### Travel information

**\*\*\* Please refer to the COST Vademecum for details on reimbursement claims: see pdf on this page <http://www.cost.eu/participate>**

**Important note: In order to be reimbursed by COST, please remember to answer the eCOST invite that will be sent to you in a separate email.**

### Flights

International flights to Berlin (BER) are available. Two airports are under the roof of BER, airport Tegel (TXL, 6 km distance to meeting venue) and airport Schoenefeld (SXF, 31 km distance to meeting venue). You can use both destinations to come to Berlin. See also direction maps below.

Given our budgetary constraints, we would be happy if those who can get a good flight home on Friday choose that option. We will be finished by 5 pm, and hopefully most participants will be able to fly home the same day.

Note: Air fares claims are **limited to EUR 1.200**. Air fares exceeding this require formal approval from the COST Association before the ticket is purchased by the eligible participant.

### Local transport

Local transport from airport to meeting venue is explained here:

[http://www.rki.de/EN/Content/Service/Adresses/Roadmap/Roadmap\\_Seestr.html?nn=2386896](http://www.rki.de/EN/Content/Service/Adresses/Roadmap/Roadmap_Seestr.html?nn=2386896)

The RKI is close to Tegel Airport (TXL), the main station (“Hauptbahnhof”) and one of the central highways. Berlin has excellent public transport system with a 24/7 service. If you are travelling by public transportation within Berlin you might want to check the trip planners of the local transport companies:

<http://fahrinfo.bvg.de/Fahrinfo/bin/query.bin/en>  
<http://www.vbb.de/en/index.html>

It is advisable to buy a “Tageskarte” (day ticket) if you use public transport more than 2 times per day (€ 7.00 (fair zone AB), 7.60 (zone ABC); single ticket is € 2.70 (AB), 3.30 (ABC)). Note: If you are traveling from/to airport Schoenefeld you need a fair zone ABC ticket, for public transport within the city you need only a ticket for fair zone AB.



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**Note: Claims for taxi trips between 7 am and 10 pm are only eligible for reimbursement** when there is a valid reason (no local transport available). Receipt with time and date is required.

### **Accommodation**

Note: accommodation claims limit is set to **EUR 90/per night** for a maximum of 3 nights.

We recommend the following hotels that are close by to the venue. However, there are hundreds of hotels to choose from, and due to the close distance of the venue to the tramway “M13” (Stop ‘Virchow-Klinikum’; Right at the entrance of the venue), underground line “U9” (Stop ‘Amrumer Strasse’; 1km walking distance) and “U6” (Change at stop ‘Seestrassen’ to tramway ‘M13’ towards ‘Virchow-Klinikum’), and the “S-Bahn S42 or S41” (Stop ‘Westhafen’, 1,1 km walking distance), it is also easy to choose a hotel in a Berlin neighborhood of your choice.

Note: Tramway ‘M13’ is currently replaced by bus service ‘M13’ due to construction. However, this will not affect your travel arrangements.

Note: It was not possible to make reservations at a guaranteed price.

\*\*\*MotelOne Berlin-Ku'Damm

Kantstraße 10

10623 Berlin

Tel. : +49/30/3 15 17 36-0

Fax : +49/30/3 15 17 36-10

berlin-kudamm@motel-one.com

<http://www.motel-one.com/de/hotels/berlin/hotel-berlin-ku-damm/>

6 km to meeting venue, 5 underground stops (U9/Amrumer Strasse, 1km walking distance to venue, see map below)

Alternative MotelOne hotels: <http://www.motel-one.com/de/hotels/berlin/>

\*\*\* Hotel Tiergarten Berlin

Alt-Moabit 89

10559 Berlin



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30 min walk (2,4 km to meeting venue), or 3 underground stops (U9/Amrumer Strasse, 1km walking distance to venue, see map below)

Tel +49 (0)30-399896

Fax +49 (0)30-39989735

info@hotel-tiergarten.de

<http://www.hotel-tiergarten.de>

\*\*\* Gästehaus Axel Springer

Föhler Straße 14

13353 Berlin

Tel +49 (0)30 4500-60

Fax +49 (0)30 4500-6146

gaestehaus@dhzb.de

[http://www.dhzb.de/en/patients/guest\\_house\\_axel\\_springer/](http://www.dhzb.de/en/patients/guest_house_axel_springer/)

Closest to the venue (1km walking distance), but only very few rooms (no reservation guaranteed). Right at the underground stop U9/Amrumer Strasse, see map below

\*\*\*\* Mercure Hotel MOA Berlin

Stephanstraße 41

10559 Berlin

Tel: +49 30 394043 – 0

Fax: +49(0) 30-39 40 43 - 999

HA0F7@accor.com

<http://www.hotel-moa-berlin.de/>

20 min walk (1.6 km to meeting venue), or 2 underground stops (U9/Amrumer Strasse, 1km walking distance to venue, see map below)



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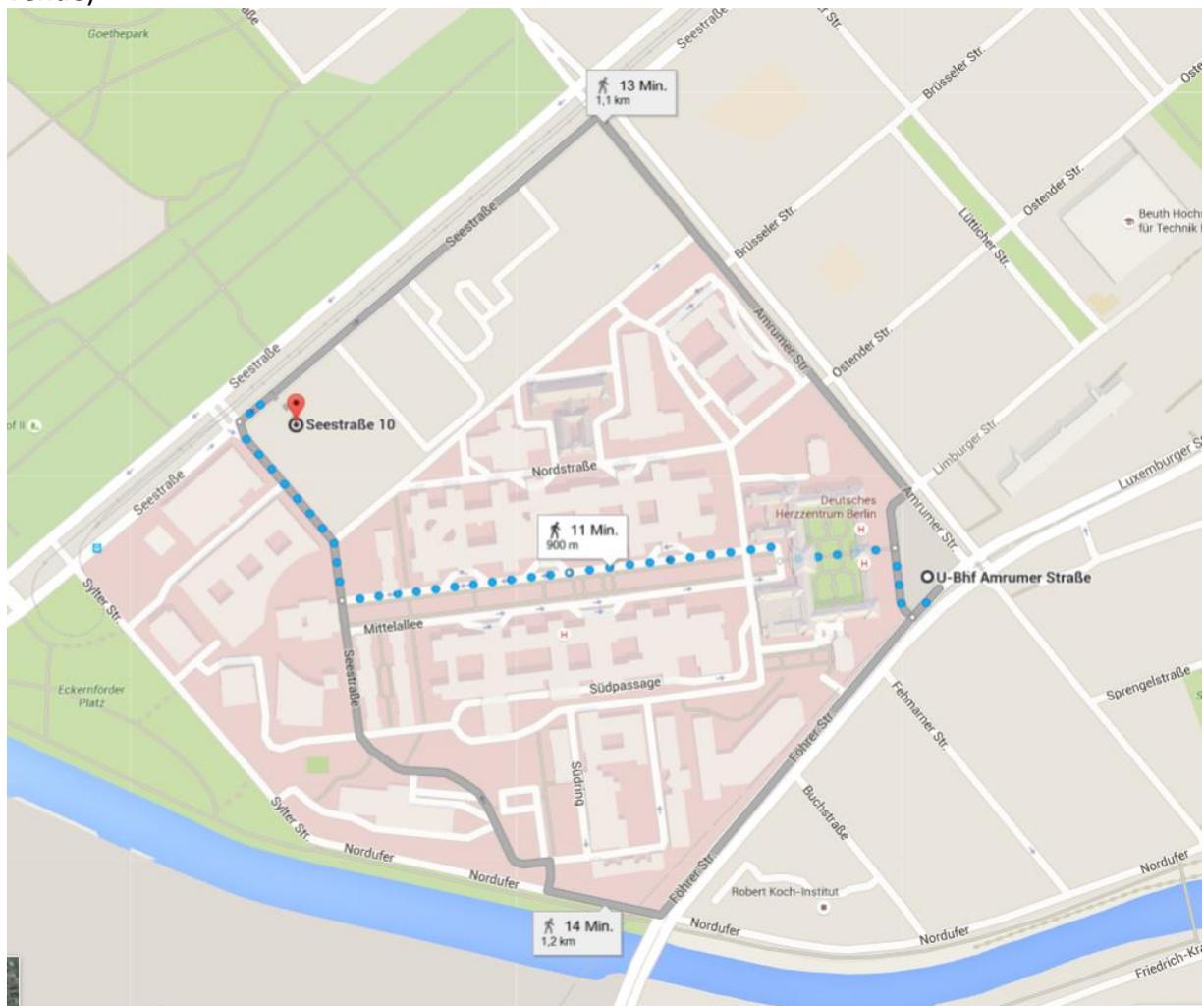
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### Maps/directions:

\*\*\* from U9/Amrumer Strasse (Gästehaus Axel Springer) -> RKI/Seestrasse 10 (Meeting venue)





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\*\*\* from Airport Schoenefeld -> RKI/Seestrasse 10 (Meeting venue): only one of several alternative routes is shown.

Robert Koch-Institut Portal... to / from airport SXF: VBB -... VBB-Fahrinfo - Individual e... +

fahrinfo.vbb.de/bin/query.exe/en?seqnr=1&ident=b6.05792811.1461936409&&O Suchen

Flughafen Schönefeld Terminal (Airport) 15:42 from 1:02 3,30 €  
13353 Berlin-Wedding, Seestr. 10 16:44 at 2,40 €

Detailed view Intermediate stops Map Text version of route Calendar Email Fares\*

**Route**

- Bus X7
- Flughafen Schönefeld Terminal (Airport)
- U Rudow (Berlin)
- U7
- U Rudow (Berlin)
- U Mehringdamm (Berlin)
- U6
- U Mehringdamm (Berlin)
- U Seestr. (Berlin)
- Bus M13
- U Seestr. (Berlin)
- Virchow-Klinikum (Berlin)
- Footpath 2 min.  
Distance: approx. 0,1 km
- Virchow-Klinikum (Berlin)
- 13353 Berlin-Wedding, Seestr. 10

Show complete route on map



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\*\*\* from Airport Schoenefeld -> RKI/Seestrasse 10 (Meeting venue): only one of several alternative routes is shown.

The screenshot shows a web browser window displaying the VBB Fahrinfo website. The browser tabs include 'Robert Koch-Institut Portal...', 'to / from airport TXL: VBB ...', and 'VBB-Fahrinfo - Individual e...'. The address bar shows the URL 'fahrinfo.vbb.de/bin/query.exe/en?seqnr=1&iident=by.0138611.1461936521&Ok'. The search bar contains 'Suchen'. The main content area shows a route from 'Flughafen Tegel (Airport) (Berlin)' at 15:43 from to '13353 Berlin-Wedding, Seestr. 10' at 16:09 at, with a total duration of 0:26 and a fare of 2,70 € (reduced to 1,70 €). The route is displayed as a map with a list of stops on the left:

- Route
- Bus TXL
- Flughafen Tegel (Airport) (Berlin)
- S Beusselstr. (Berlin)
- Bus 106
- S Beusselstr. (Berlin)
- Virchow-Klinikum (Berlin)
- Footpath 2 min., Distance: approx. 0,1 km
- Virchow-Klinikum (Berlin)
- 13353 Berlin-Wedding, Seestr. 10

The map shows the route starting at Flughafen Berlin-Tegel Otto Lilienthal, passing through Beusselstr. in Charlottenburg-Nord, and ending at Seestr. 10 in Wedding. A scale bar indicates 1000 m. The map data is attributed to OpenStreetMap and Mapbox.