Training school date: 17th – 20th September, 2018

Training school venue:
Faculty of Biology, University of Latvia
Jelgavas street 1,
Riga, Latvia

Local hosts: Gunita Deksne (gunita.deksne@bior.lv)

Training objectives:
The training school is aimed at teaching optimization and troubleshooting of methods used to extract, amplify, and sequence nucleic acids from contaminated matrices and isolated foodborne parasites.

Techniques/ topics included in the training school:
The course will include lectures, wet labs and discussions on relevant methods used for different parasites (protozoa and helminths) and from different matrixes (fecal samples, environmental samples (including food), and isolated individual worms. The Training school will be mainly focused on *Toxoplasma gondii*, *Cryptosporidium* spp. and *Anisakis* spp. molecular detection from different sample matrices.

A preliminary outline program is provided here – but further information will become available on the Euro-FBP homepage: http://www.euro-fbp.org/

Trainers:
Karin Troell (SVA, Sweden), Kristin Elwin (NHS Wales, UK), Marco Lalle (ISS, Italy), and Gereon Scharfes (FLI, Germany)
**Preliminary Program:**

<table>
<thead>
<tr>
<th>Time</th>
<th>17th of September</th>
<th>18th of September</th>
<th>19th of September</th>
<th>20th of September</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Monday</td>
<td>Tuesday</td>
<td>Wednesday</td>
<td>Thursday</td>
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<tr>
<td>8.30-10</td>
<td>Welcome, introduction</td>
<td>PCR and other amplification technique, how to set up a reaction, how to optimize, primer design etc (Karin)</td>
<td>Sanger sequencing and fragment analysis (Karin)</td>
<td>Lecture: How to analyze sequences. BLAST</td>
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<tr>
<td>10-10.30</td>
<td>coffee</td>
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<tr>
<td>10.30-12.00</td>
<td>Extraction methods. (Gereon)</td>
<td>Lecture on qPCR. (Kristin)</td>
<td>Species determination, typing, variant calling</td>
<td>Computer lab analysis of sequencing results</td>
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<tr>
<td>12-13</td>
<td>Lunch</td>
<td>Lunch</td>
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<tr>
<td>14-15</td>
<td><strong>Wet lab</strong> introduction. Extraction methods</td>
<td><strong>Wet lab</strong>. Extraction methods continued</td>
<td><strong>Wet lab</strong>. Set up PCR and qPCR,</td>
<td><strong>Wet lab</strong>. Optimize PCR, run gels from optimization</td>
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<td>15-15.30</td>
<td>coffee</td>
<td>coffee</td>
<td>coffee</td>
<td>coffee</td>
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<tr>
<td>15.30-17</td>
<td><strong>Wet lab</strong>. Extraction methods continued and nt concentrations</td>
<td><strong>Wet lab</strong>. Run gel, discuss results, purify products</td>
<td><strong>Wet lab</strong>. Run gel, discuss results, purify products</td>
<td><strong>Wet lab</strong>. Run gel, discuss results, purify products</td>
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<tr>
<td>evening</td>
<td>Mixer and presentations by participants</td>
<td>Course dinner</td>
<td>Optional discussion: Crypto typing and nomenclature Or DNA fishing</td>
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How to apply?

Fill in the application form and send it by e-mail (gunita.deksne@bior.lv and euro.fbp@nmbu.no) the latest by 16th of July.

If you have any questions about the course, mail either these addresses and your mail will be forwarded to the correct person to help you.

Please be aware that last year’s training school was over-subscribed, so application to the school does not guarantee selection to participate.

Deadline:
16th July

Eligibility criteria:
Trainees eligible to receive fix grant:
1) Trainees from all COST countries that have signed the MoU¹;
2) Trainees from approved NNC institutions²;

COST contribution to Trainee expenses (fixed Trainee Grant):
Each eligible trainee can apply for a fixed grant (probable amount: 700 Euro). This is Trainee Grant is a contribution to the overall travel, accommodation and meal expenses of the Grantee. Currently, the Grant amount is set at 800 Euros. It is intended that costs will be minimized by local organizers arranging student or low cost accommodation. Trainees must register in eCOST in order to receive the grant.

Maximum number of participants:
20

¹COST countries: Austria, Belgium, Bosnia and Herzegovina, Bulgaria, Croatia, Czech Republic, Denmark, Estonia, France, FYR Macedonia, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey, United Kingdom.
²Approved NNC institutions: Israel, Tunisia, the Palestinian Authority
APPLICATION FORM

1. Name / Surname

2. Gender

3. Degree (MSc/PhD, if the latter, when obtained)

4. Country

5. Institution

6. Position at the institution

7. Member of EURO-FBP Yes/ No

8. In which groups of parasites are you interested:
   - Protozoans
   - Trematodes
   - Platyhelminthes
   - Nematodes
   - Others ________________________________

9. Do you have an access to molecular diagnostic laboratory on routinely base?
   - Yes
   - No

9. With which laboratory diagnostic methods do you have previous experience?
   - Basic biological methods (fresh smear microscopy, flotation methods etc.)
   - Immunodiagnostic methods (serology)
   - Molecular diagnostic methods (please specify) ________________________________

10. How would you describe your level of experience with the methods on this course:
    - Complete beginner – never done this previously
    - Some experience, but limited, and woolly about optimization or trouble-shooting
    - Relatively experienced but in need of a refresher course
    - Have good experience.
11. Please provide a couple of sentences on how you will use the knowledge back in your laboratory.

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12. Please provide a couple of sentences on how your current studies are related to the scope of the training school.

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Data___________________________

Signature___________________________