Recent Campylobacter activities overview and some preliminary results

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Let us introduce to you!

**Country**: Bosnia and Herzegovina (BiH)

**City**: Sarajevo

EU-RL Campylobacter workshop 3-5 October, Uppsala
National presentation Bosnia and Herzegovina

Veterinary Faculty / Institute Sarajevo
Laboratory for bacterial disease of poultry
**EU-RL Campylobacter workshop 3-5 October, Uppsala**

**National presentation Bosnia and Herzegovina**

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**Bosnia and Herzegovina Veterinary Faculty / Institute Sarajevo**

- **Laboratory for bacterial disease of poultry**
  - Established: 1949
  - Location: Sarajevo, Bosnia and Herzegovina
  - Today's building: 1974

- **Laboratory for viral disease of poultry**
- **Department for breeding of poultry**

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**CENTER FOR POULTRY**

<table>
<thead>
<tr>
<th>1. Laboratory for bacterial disease of poultry</th>
<th>1. Students education</th>
</tr>
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<tbody>
<tr>
<td>2. Laboratory for viral disease of poultry</td>
<td>2. Scientific and research work</td>
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<tr>
<td>3. Department for breeding of poultry</td>
<td>3. Monitoring of health status in commercial, backyard poultry and wild birds</td>
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HOW DID WE STARTED ?!

Study visit to National Veterinary Institute - NRL Campylobacter Slovenia in 2009. and 2010.

One day visit to Animal Science Group (WUR) - NRL Campylobacter Holland in 2010.
### OUR ACTIVITIES?

<table>
<thead>
<tr>
<th>Accreditation</th>
<th>Monitoring of health status in commercial, backyard poultry and in wild birds</th>
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<tbody>
<tr>
<td><strong>Salmonella</strong> (according to ISO 6579 + Amendement) and <strong>Campylobacter</strong> (according to ISO 10272)</td>
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#### Monitoring of Campylobacter in primary poultry production (WHEN?)

| Comparison of Campylobacter strains from different regions in Bosnia and Herzegovina |
| Comparison of strains from primary poultry production to those isolated from carcasses |
| Comparison of Campylobacter strains isolated in BiH and Slovenia |

- **from 2010**
- **in progress**

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WHAT HAVE WE BEEN DOING IN 2010-2011?

Samples from primary poultry production (pooled caecal content of 10 caeca)

Isolation and Identification according to 10272 Part 1 – Detection Method

Isolates stored at -75°C for further antimicrobial susceptibility testing (Sensititre) and PFGE

Results available in 2012.
**WHAT ARE THE RESULTS THEN?**

**Campylobacter in broiler flocks:**

<table>
<thead>
<tr>
<th>Description</th>
<th>Count</th>
</tr>
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<tbody>
<tr>
<td>Number of samples tested in 2011</td>
<td>123</td>
</tr>
<tr>
<td>Campylobacter positive (%)</td>
<td>88 (72%)</td>
</tr>
<tr>
<td>Campylobacter jejuni</td>
<td>50</td>
</tr>
<tr>
<td>Campylobacter coli</td>
<td>38</td>
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</table>
WHAT ARE THE PLANS FOR FUTURE?

Public Health
Human isolates

Retail
People

Primary poultry production
Parent and broiler flocks;
When does it occur ?

Slaughter line
Carcass samples
Is it the same ?
Critical moment ?

CAMPYLOBACTER PT RING TEST PARTICIPATION !!!
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Commercial poultry
Backyard poultry
Wild birds
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Huge thanks to:

Igor Gruntar

Ria van der Hulst-van Arkel

TAIEX

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We ll do everything for a Campylobacter, even night sampling!!