



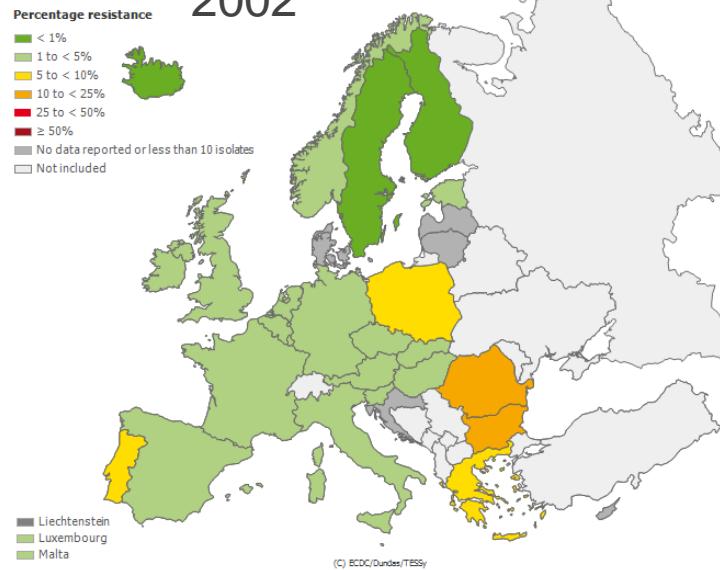
BEEP, ARMMD ja uued AMR projektid

Oktoober 2014

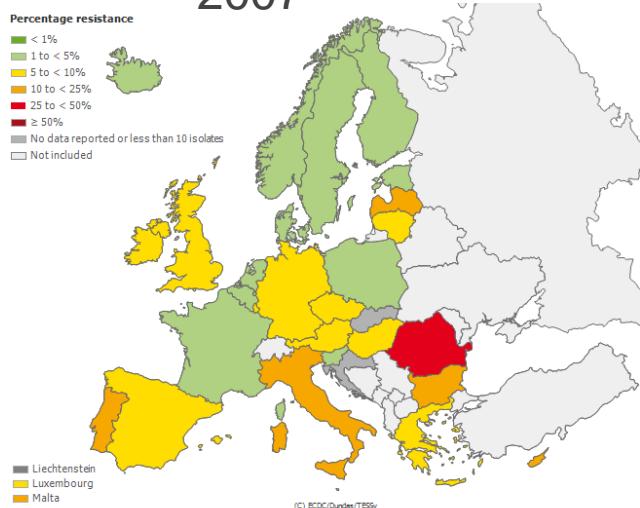
**Paul Naaber
Marina Ivanova**

3pk tsefalosporiinidele mittetundlik *E.coli*

2002



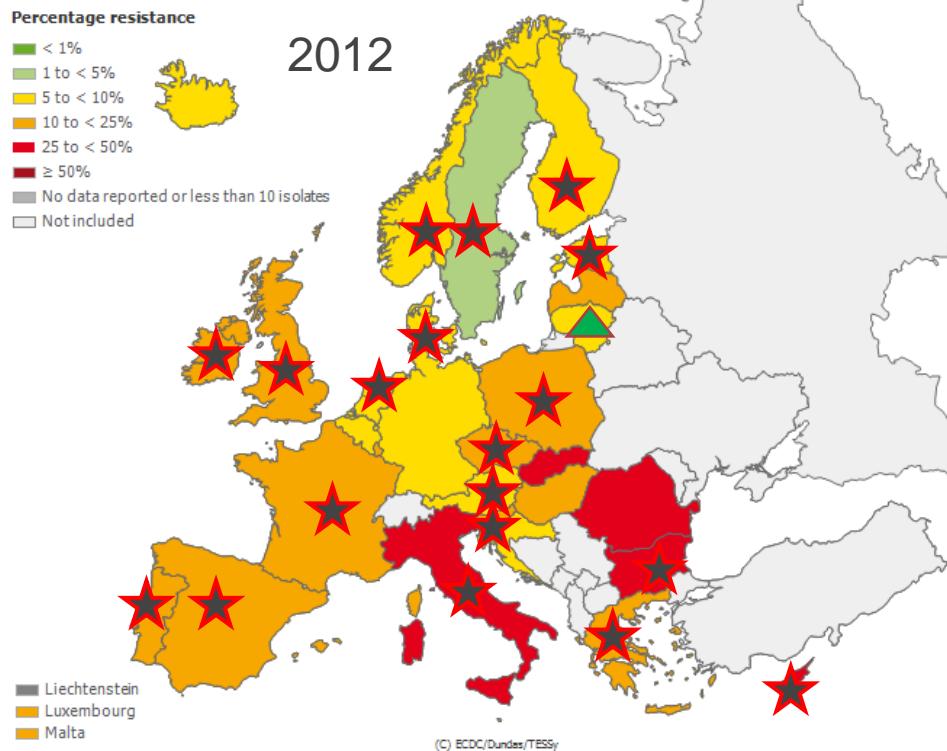
2007



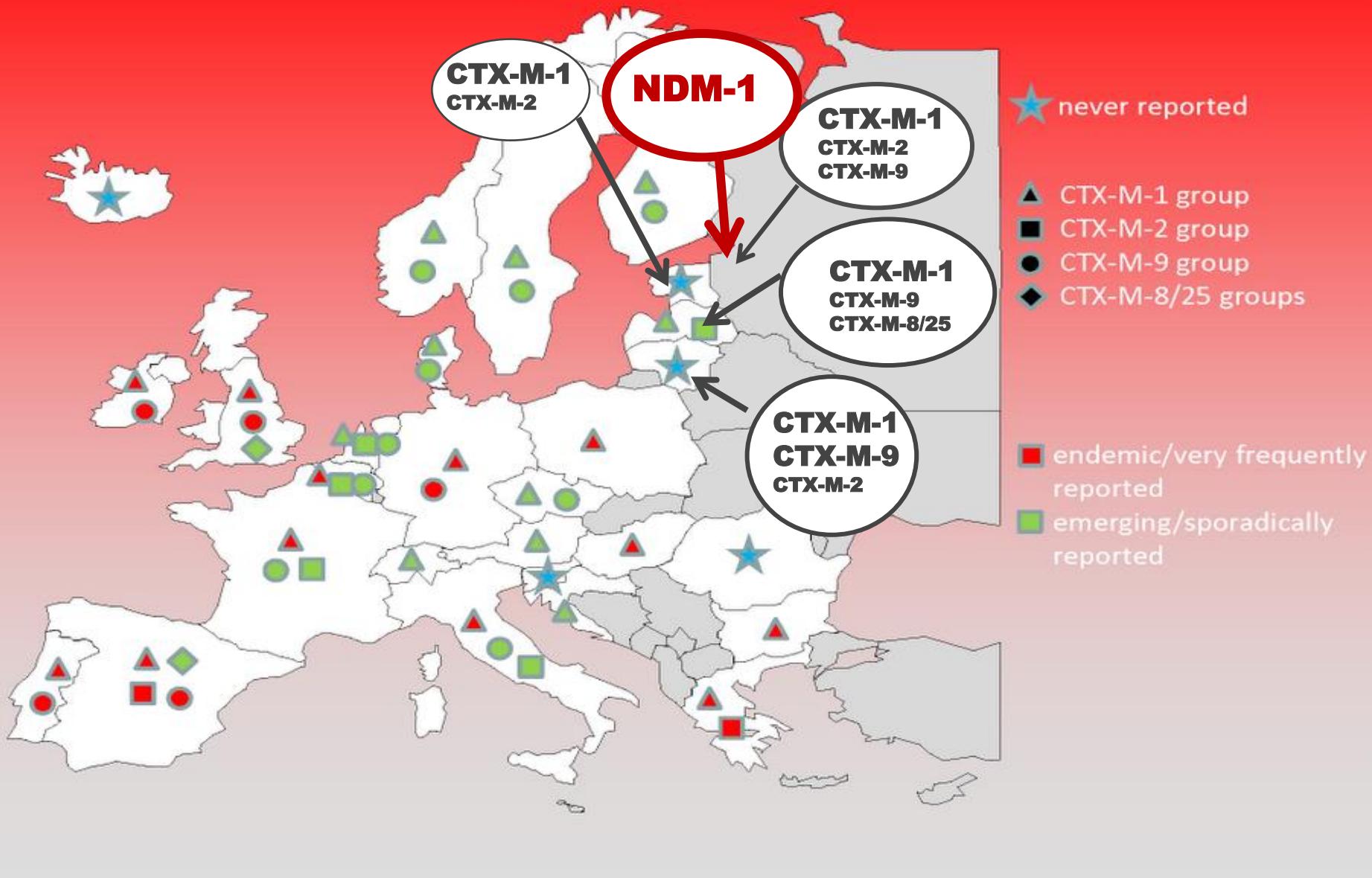
Statistiliselt oluline trend 2009-2012

- ★ - Resistentsuse tõus
- ▲ - Resistentsuse langus

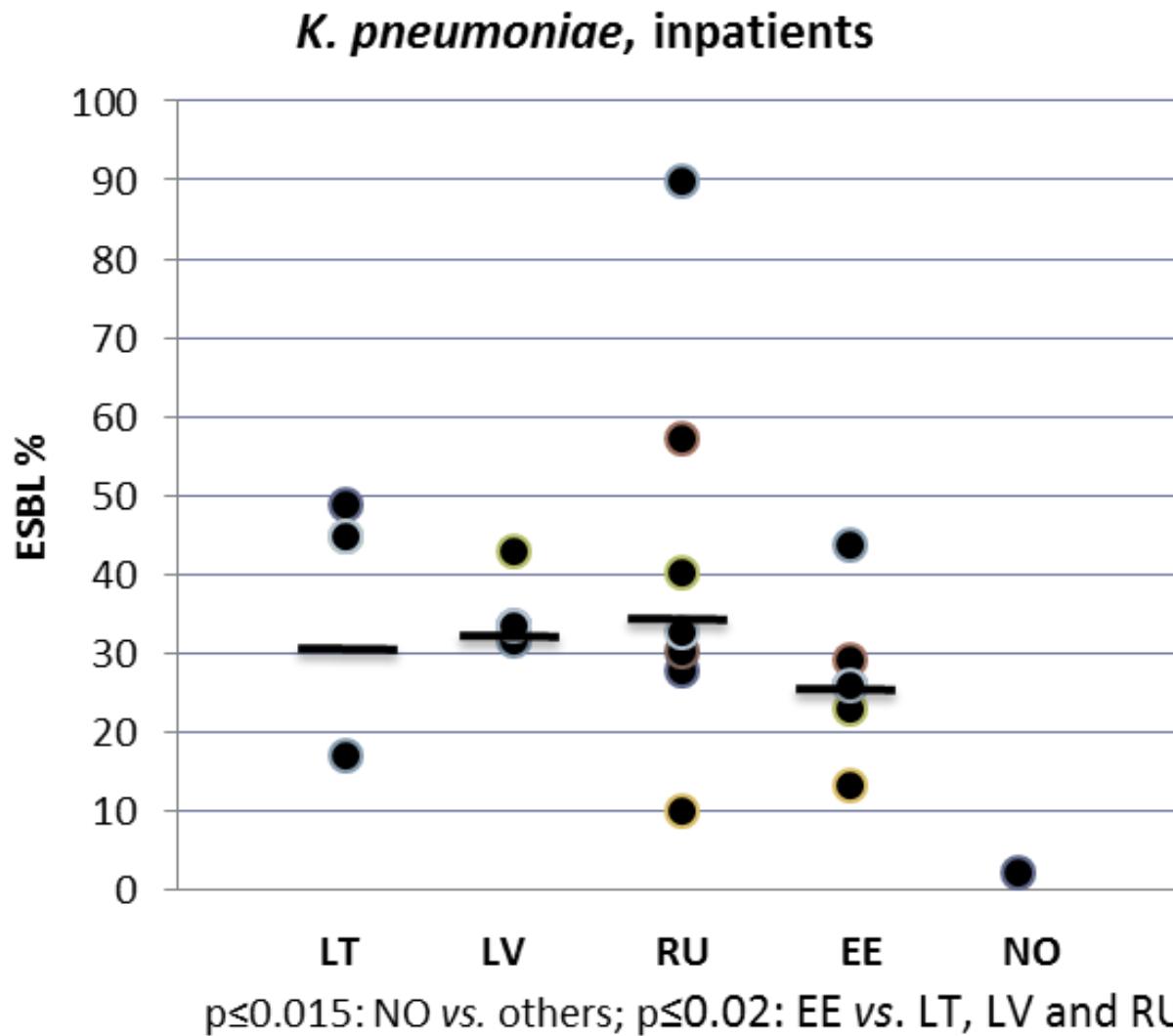
2012



CTX-M type ESBL in *Enterobacteriaceae*



Tulemused. *E. coli* ja *K. pneumoniae*: ESBL, CARBA esinemissagedus, levimus





Research Article

Detection of Carbapenemase-Producing Enterobacteriaceae in the Baltic Countries and St. Petersburg Area

Anastasia Pavelkovich,^{1,2} Arta Balode,³ Petra Edquist,⁴ Svetlana Egorova,⁵ Marina Ivanova,² Lidia Kaftyreva,⁵ Irina Konovalenko,⁶ Siiri Kõljalg,¹ Jana Lillo,¹ Lidia Lipskaya,⁷ Jolanta Miculeviciene,⁸ Kristiine Pai,¹ Kristel Parv,¹ Katri Pärna,¹ Tiu Rööp,¹ Epp Sepp,¹ Jelena Štšepetova,¹ and Paul Naaber^{1,9}

Research Article

Differences in Extended-Spectrum Beta-Lactamase Producing *Escherichia coli* Virulence Factor Genes in the Baltic Sea Region

Jana Lillo,¹ Kristiine Pai,¹ Arta Balode,² Mariia Makarova,³ Kristi Huik,¹ Siiri Kõljalg,¹ Marina Ivanova,⁴ Lidia Kaftyreva,³ Jolanta Miculeviciene,⁵ Paul Naaber,^{1,6} Kristel Parv,¹ Anastasia Pavelkovich,⁴ Tiu Rööp,¹ Karolin Toompere,¹ Ludmila Suzhaeva,³ and Epp Sepp¹

Инфекция и иммунитет
2013, Т. 3, № 1, с. 29–36

Оригинальные статьи

**ШТАММЫ ЭНТЕРОБАКТЕРИЙ,
ПРОДУЦИРУЮЩИЕ БЕТА-ЛАКТАМАЗЫ
РАСШИРЕННОГО СПЕКТРА И МЕТАЛЛО-
β-ЛАКТАМАЗУ NDM-1, ВЫДЕЛЕННЫЕ
В СТАЦИОНАРАХ В СТРАНАХ
БАЛТИЙСКОГО РЕГИОНА**

С.А. Егорова¹, Л.А. Кафтырева¹, Л.В. Липская², И.Б. Коноваленко³,
М.Ф. Пясетская⁴, Т.С. Курчикова⁵, Н.Б. Ведерникова⁶, О.Т. Морозова⁷,
М.В. Смирнова⁸, Л.Н. Попенко⁹, М.И. Любушкина⁹, Ю.А. Савочкина¹⁰,
М.А. Макарова¹, Л.В. Сужаева¹, Ю.В. Останкова¹, М.Н. Иванова¹¹,
А.М. Павелкович¹¹, П. Наабер¹², Э. Сепп¹², С. Кыльялг¹²,
И. Мицюлявичене¹³, А. Балоде¹⁴

ECCMID 2013, 2014

P1203

Abstract (poster session)

The molecular epidemiology of extended-spectrum beta-lactamases-producing *Escherichia coli* and *Klebsiella pneumoniae* in the Baltic Sea region

K. Pai, A. Balode, S. Egorova, K. Huik, M. Ivanova, L. Kaftyreva, S. Kõlalg, J. Lillo, J. Miciculeviciene, P. Naaber, K. Parv, A. Pavelkovich, T. Rööp, E. Sepp* (Tartu, EE; Riga, LV; St. Petersburg, RU; Vilnius, LT)

P1204

Abstract (poster session)

Epidemiology of extended-spectrum beta-lactamases-producing *Escherichia coli* and *Klebsiella pneumoniae* in the Baltic Sea region

P. Naaber, A. Balode, T. Djundika, S. Egorova, K. Huik, L. Kaftyreva, N. Kamõnina, K. Kirs, S. Kõlalg, I. Konovalenko, T. Kurchikova, J. Lillo, L. Lipskaya, K. Lõivukene, M. Makarova, G. Makstutis, J. Miciculeviciene, O. Morozova, K. Pai, K. Parv, A. Pavelkovich, M. Paysetchkaya, T. Rööp, S. Rudenko, D. Rudzite, E. Sepp, M. Smirnova, L. Suzhaeva, N. Vedernikova, M. Ivanova* (Tartu, EE; Riga, Liepaja, LV; St. Petersburg, RU; Kohtla Järve, Tallinn, EE; Siauliai, Vilnius, LT)

P1154

Poster Session IV

Resistance in Enterobacteriaceae

DETECTION AND MOLECULAR CHARACTERIZATION OF EXTENDED-SPECTRUM BETA-LACTAMASE-PRODUCING *ESCHERICHIA COLI* SEQUENCE TYPE ST131 FROM THE BALTIC REGION

k¹, M. Ivanova², S. Kõlalg¹, A. Pavelkovich², K. Parv¹, T. Rööp¹, E. Sepp¹, P. Naaber³,

P1429

Abstract (poster session)

Differences in virulence factors of *Escherichia coli* isolated from the Baltic Sea region

J. Lillo, A. Balode, S. Egorova, K. Huik, M. Ivanova, L. Kaftyreva, M. Makarova, J. Miciculeviciene, P. Naaber, K. Pai, K. Parv, A. Pavelkovich, T. Rööp, E. Sepp, L. Suzhaeva, S. Kõlalg* (Tartu, EE; Riga, LV; St. Petersburg, RU; Vilnius, LT)

R2641

Abstract (publication only)

Detection of carbapenem-non-susceptible *Escherichia coli* and *Klebsiella pneumoniae* in the Baltic Sea region

A. Pavelkovich*, A. Balode, P. Edquist, S. Egorova, M. Ivanova, L. Kaftyreva, S. Kõlalg, J. Lillo, L. Lipskaya, J. Miciculeviciene, K. Pai, E. Sepp, K. Sparbier, P. Naaber (Tartu, EE; Riga, LV; Stockholm, SE; St. Petersburg, RU; Vilnius, LT; Bremen, DE)

P1015

Poster Session IV

Molecular epidemiology of MDR Enterobacteriaceae

DETECTION OF CLASS 1, 2, AND 3 INTEGRONS AMONG EXTENDED-SPECTRUM BETA-LACTAMASE PRODUCING *KLEBSIELLA PNEUMONIAE* ISOLATED FROM BALTIC SEA REGION

K. Põornal¹, A. Balode A- Edquist P- Egorova S- Kaftyreva L - Miciculeviciene J², M. Ivanova³, S. Kõlalg¹, K. Pai¹, A. Pavelkovich¹, T. Rööp¹, E. Sepp¹, P. Naaber⁴, J. Stsepetaova¹

BEEP, ARMMMD tegevus jätkub

- Tüvede sekveneerimine: MLST geenid, Res geenid

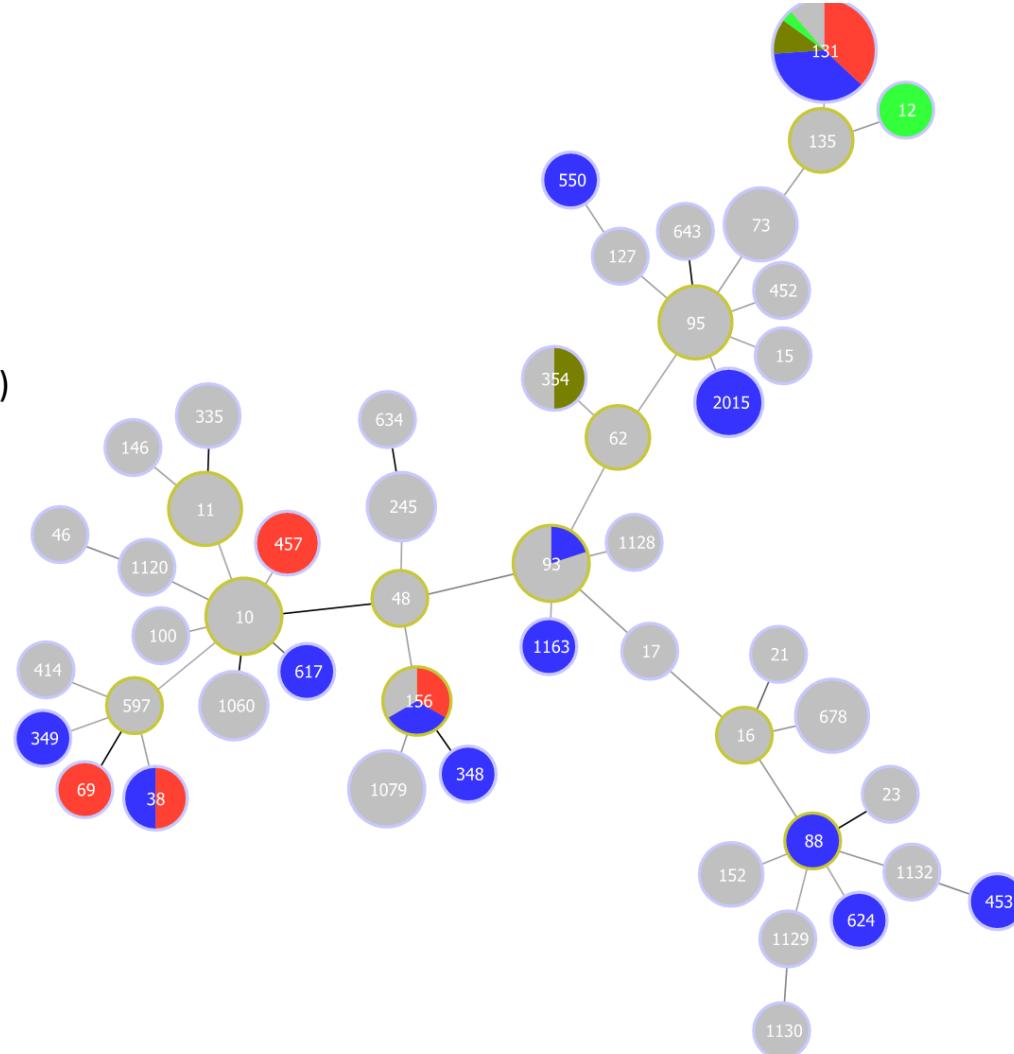
■ LTKA/B

■ TUKA

■ ITKB

■ IVKB

■ OTHERS (NCBI)



Täname



St-Petersburg Pasteur Institute



European Union
Regional Development Fund Investing in your future

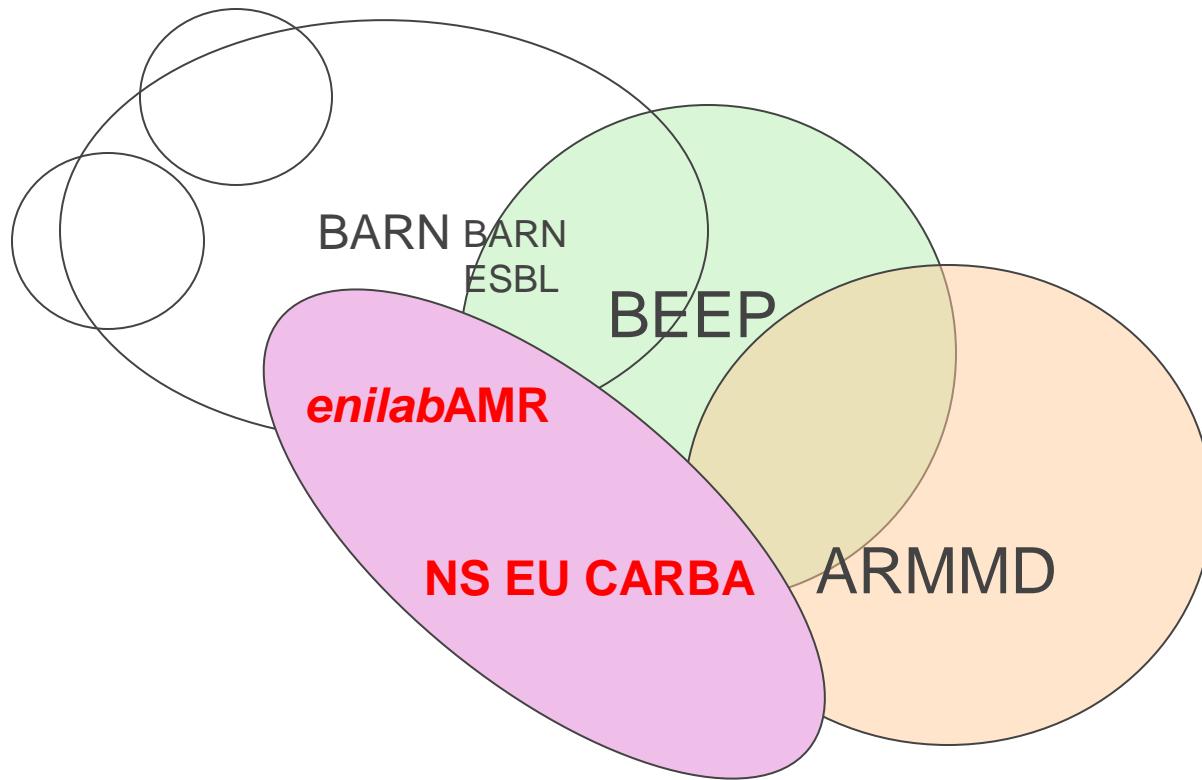


R. Ambrazaitiene, A. Balode,
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S. Rudenko, D. Rudzite, E. Sepp,
M. Smirnova, L. Suzhaeva,
N. Vedernikova

enilabAMR, NS EU CARBA plaan

- 2013 Varssavis BARN miiting, EUCAST Eestis tutvustus
- 2014 suvi Esialgne projekt lükati tagasi Swedish Institute poolt
- 2014 sept/okt Koosolekud Barbroga, uue taotluse esitamine
- 2015 jaan- dets Eeldatav projektiperiood
- 2015 aprill - juuni Carba res tüvede (Enterobacteriaceae, P. aeuginosa) kogumine

ARMMD, BEEP jt projektid



BARN -

Baltic Antimicrobial Resistance Collaborative Network

ARMMD

Antimicrobial Resistance Multiplex Diagnostics (EU, biotechnology)

BEEP

Baltic ESBL Epidemiology Project

NS EU CARBA

North-South European Carbapenemases Epidemiology Project

enilabAMR

Expansion of network and improvement of lab capacity for better AMR surveillance

BEEP koostöö

21 asutust

**6 riiki: Eesti, Läti, Leedu, Norra,
Rootsi, Venemaa (St. Peterburi)**

13 130 tüve skriinitud ESBL suhtes

1047 tüve kogutud

enilabAMR/NS EU CARBA

Iisaks kaasatavad riigid

**+ 6 riiki: Soome, Valgevene, Poola,
Ukraina, Moldova, Gruusia**

