

## Wednesday, 26 April 2017

11:00–11:30 a.m.

### Opening

*Prof. Dr Dr Andreas Hensel, BfR, Berlin*

### Welcome

*Bärbel Brumme-Bothe, BMBF, Berlin*

### Tasks and objectives of the consortia

11:30 a.m.–12:00 p.m.

### MedVet-Staph

*PD Dr Robin Köck, University Hospital Münster*

12:00 –12:30 p.m.

### RESET

*Prof. Dr Lothar Kreienbrock, TiHo Hannover*

12:30–1:30 p.m. lunch

### Main results of the consortia

1:30–2:30 p.m.

### MedVet-Staph

*The MedVet-Staph team*

2:30–3:30 p.m.

### RESET

*The RESET team*

3:30–4:00 p.m. coffee break

### Consequences from the research results

4:00–4:30 p.m.

#### Statement: Consequences – BMEL point of view

*Dr Karin Schwabenbauer, BMEL, Bonn*

#### Statement: Consequences – BMG point of view

*Dr Antina Ziegelmann, BMG, Berlin*

#### Statement: Consequences – Health authority point of view

*Dr Matthias Pulz, NLGA, Hannover*

4:30–5:30 p.m.

### Discussion

## Thursday, 27 April 2017

8:30–8:45 a.m.

### Welcome

*Prof. Dr Lothar Kreienbrock, TiHo Hannover*

8:45–9:30 a.m.

### Invited Talk: Antimicrobial resistance as a central One Health task

*Prof. Dr Lothar Wieler, RKI, Berlin*

## Research results from RESET

9:30–9:45 a.m.

### Molecular epidemiology of ESBL-/AmpC-producing enterobacteria in the broiler production chain

*Michaela Projahn, FU Berlin*

9:45–10:00 a.m.

### Occurrence of carbapenem-resistant *Escherichia coli* and *Salmonella enterica* isolates within German chicken fattening farms

*Dr Nicole Roschanski, FU Berlin*

10:00–10:30 a.m.

### Analyses of associations of *E. coli* isolate characteristics and epidemiological information

*Katja Hille, TiHo Hannover*

10:30–11:00 a.m. coffee break

## Research results from MedVet-Staph

11:00 –11:25 a.m.

### Multidrug-resistant bacteria entering a horse clinic

*Dr Birgit Walther, FU Berlin*

11:25–11:50 a.m.

### *Staphylococcus aureus* CC398: Factors promoting host adhesion and immune evasion

*Dr Phillip Jung, University Saarland, Homburg/Saar*

11:50 a.m.–12:15 p.m.

### How big is the risk? Update on MRSA in the food chain

*Dr Alexandra Fetsch, BfR, Berlin*

12:15–12:40 p.m.

### Living in livestock-dense regions: Impact of livestock-associated MRSA on human infection and colonization

*PD Dr Robin Köck, University Hospital Münster*

12:40–1:00 p.m.

### Development of diagnostic kits for selected markers of resistance, virulence and zoonotic transmission among methicillin-resistant *Staphylococcus aureus*

*Dr Boris Oberheitmann, Q-Bioanalytic, Bremerhaven*

1:00–2:00 p.m. lunch

## Research results from RESET

2:00–2:30 p.m.

### From ESBL colonisation to infection: rates and risk factors within the hospital setting

*Dr Rasmus Leistner, Charité, Berlin*

2:30–3:00 p.m.

### NGS-based Analysis of AmpC-beta-lactamase CMY-2-producing *Escherichia coli* from humans, livestock and food in Germany

*Dr Michael Pietsch, RKI, Wernigerode*

3:00–3:15 p.m.

### Resistance transmission dynamics and circulation of ESBL-encoding *E. coli* in the One Health context

*Linda Falgenhauer, Uni Gießen*

3:15–3:30 p.m.

### Novel insights into the phylogenomics of ESBL-*E. coli* in the One Health Concept

*Judith Schmiedel, Uni Gießen*

3:30–4:00 p.m. coffee break

## Research results from MedVet-Staph

4:00–4:20 p.m.

### Social networks in the pig barn – Implications for the infection dynamics of MRSA

*Tobias Kaufholz, BfR, Berlin*

4:20–4:50 p.m.

### Novel antimicrobial resistance genes among staphylococci in livestock environments

*Prof. Dr Stefan Schwarz, FU Berlin*

4:50–5:10 p.m.

### Antibiotic resistance profiles of coagulase-negative staphylococci in livestock environments

*Sonja Schoenfelder, University of Würzburg*

5:10–5:30 p.m.

### Colonisation with MRSA CC398 among a cohort of veterinarians in Germany

*Dr Jan Walter, RKI, Berlin*

5:30–6:30 p.m. poster

from 6:30 p.m. evening meal

Friday, 28 April 2017

### Research results from RESET

9:00–9:30 a.m.

**Significance of environmental contaminations on the development of bacterial resistance to antibacterial agents in indicator animals**

*Jessica Meißner, TiHo Hannover*

9:30–10:00 a.m.

**New occurrence of VIM-1 producing *E. coli* in German pig production**

*Dr Alexandra Irrgang, BfR, Berlin*

10:00–10:30 a.m.

**ESBL and plasmid-mediated PMQR gene-carrying plasmids in *E. coli* and *Salmonella* from diseased animals: their role in antimicrobial resistance, biocide tolerance and virulence of the isolates**

*Dr Geovanna Brenner Michael, FU Berlin*

10:30–10:45 a.m.

**Possibilities and limits of logistic regression for the study of the transmission dynamics of ESBL/AmpC producing *E. coli* between broiler flocks**

*Dr Guido Correia Carreira, BfR, Berlin*

10:45–11:00 a.m.

**Assessment of the foodborne transmission pathway for ESBLs**

*Prof. Dr Annemarie Käsbohrer, BfR, Berlin*

11:00–11:30 a.m. coffee break

### Research results from MedVet-Staph

11:30 a.m.–12:00 p.m.

**Breaking the species barrier: Epidemiological dynamics and genetic changes in livestock-associated MRSA**

*Sarah van Aalen, University Hospital Münster and Dr Britta Ballhausen, BfR, Berlin*

12:00–12:15 p.m.

**MRSA in equine clinics and the impact for humans**

*Dr Christine Cuny, RKI, Wernigerode*

12:15–12:30 p.m.

**Occurrence of *cfr*-encoded linezolid resistance in coagulase-negative staphylococci from livestock and exposed humans**

*Prof. Dr Wolfgang Witte, RKI, Wernigerode*

12:30–1:15 p.m.

**Invited Talk: Intercultural differences in the prevention of antimicrobial resistance – the Dutch experience**

*Prof. Dr Alexander W. Friedrich, University Medical Center Groningen, Netherlands*

1:15–1:30 p.m. farewell

### RESET & MedVet-Staph – Final scientific symposium, 26 – 28 April 2017

The research consortium RESET performs research on the resistance against the very important antimicrobial classes of  $\beta$ -lactam-antibiotics and (fluoro)quinolones in enterobacteria.

The relevance of antimicrobial-resistant livestock associated staphylococci including Methicillin-resistance *Staphylococcus aureus* (MRSA) for the health of human beings and animals is investigated in detail in the consortium MedVet-Staph.

In both consortia, financed by BMBF, scientists from human and veterinary medicine, basic and applied science as well as epidemiology work closely together.

In this final scientific workshop both consortia will present their results to the public, to stakeholders and to scientists.

The main topics presented are:

- ▶ Recent results from research on the zoonotic transmission of staphylococci and enterobacteria resistant to antimicrobials
- ▶ Consequences for the field work
- ▶ Future developments and research needs

On Wednesday, the meeting is held in German, the following two days in English.

The recognition of medical and veterinary education credits is being requested.

#### Organisation:

University of Veterinary Medicine Hannover, German Federal Institute for Risk Assessment and German Research Platform for Zoonoses.

#### Scientific Secretariat:

Prof. Dr Lothar Kreienbrock  
(University of Veterinary Medicine Hannover)

Prof. Dr Annemarie Käsbohrer  
(German Federal Institute for Risk Assessment)

PD Dr Robin Köck  
(University Hospital Münster)

FEDERAL INSTITUTE FOR RISK ASSESSMENT

## RESET & MedVet-Staph – Final scientific Symposium

26 – 28 April 2017, Berlin



## Venue:

German Federal Institute for Risk Assessment  
Lecture theatre  
Diedersdorfer Weg 1, 12277 Berlin (Marienfelde)

Directions:

[www.bfr.bund.de/de/marienfelde.html](http://www.bfr.bund.de/de/marienfelde.html)

Destination stop (on [www.bahn.de](http://www.bahn.de), [www.bvg.de](http://www.bvg.de))  
„Nahmitzer Damm/Marienfelder Allee (Berlin)“

## Registration:

Registration fee: 20 €

Please register online by 13.04.2017  
on the website of the BfR academy

<http://www.bfr.bund.de/en/events.html>

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