

# ARAE 2017

7th Symposium on Antimicrobial Resistance in Animals and the Environment

26.-28.06.2017, Braunschweig, Germany

Final Scientific Programme as of June 23, 2017

Sunday, 25 June 2017		
18:00	Registration and Welcome Reception at the old town hall (Altstadtrathaus) in Braunschweig	
19:00	Opening	Kristina Kadlec / Lothar Kreienbrock / Dr. Blöcker

Monday, 26 June 2017		
8:30	Registration	
9:00	Welcome Note	Stefan Schwarz
<b>1<sup>st</sup> Session: Monitoring and Epidemiology of AMR</b>		<b>Chairs: Axel Cloeckart, Stefan Schwarz</b>
9:15	Key Note: Pandoras box- full of eastern (AMR) delights!	Séamus Fanning Dublin, IE
10:00	QnrD in fluoroquinolone-resistant <i>Proteae</i> of animal origin	Marisa Haenni Lyon, France
10:15	Human health risk of dietary intake of antibiotic residues in beef in Maroua, Cameroon	Ronald R. B. Vougat Ngom Maroua, Cameroon
10:30	WGS-based elucidation of linezolid resistance locus <i>optrA</i> in clinical <i>Enterococcus</i> spp. isolates from Germany	Jennifer Bender Wernigerode, Germany
10:45	Coffee break	
<b>2<sup>nd</sup> Session: AmpC and carbapenemase-producing <i>Enterobacteriaceae</i></b>		<b>Chairs: Anne Käsbohrer, Yvonne Pfeifer</b>
11:00	Prevalence of extended-spectrum $\beta$ -lactamase- and AmpC-producing <i>Escherichia coli</i> in dairy calves: does age matter?	Maaïke Gonggrijp Deventer, The Netherlands
11:15	NGS-based analysis of AmpC- $\beta$ -lactamase CMY-2-producing <i>Escherichia coli</i> from humans, livestock and food in Germany	Michael Pietsch Wernigerode, Germany
11:30	Faecal carriage and characterization of extended-spectrum $\beta$ -lactamase- and AmpC $\beta$ -lactamase-producing <i>Escherichia coli</i> from healthy horses in France	Benoît Doublet Nouzilly, France
11:45	Faecal carriage of ESBL- and AmpC-producing <i>Escherichia coli</i> from co-habiting people and pets	Leah Toombs-Ruane Massey, New Zealand
12:00	Epidemiology of carbapenemase-producing <i>Enterobacteriaceae</i> in a farrow-to-finish swine production system in the United States	Dixie F. Mollenkopf Columbus, USA
12:15	Carbapenemase producing <i>Escherichia coli</i> isolated from German retail seafood	Nicole Roschanski Berlin, Germany
12:30	Lunch	
<b>3<sup>rd</sup> Session: AMR in the Environment</b>		<b>Chairs: René Hendriksen, Kristina Kadlec</b>
14:00	Key Note: Wastewater treatment plant effluents and their implications for antimicrobial resistance in surface water and water reuse	Thomas U. Berendonk Dresden, DE
14:45	Antibiotic resistance prevalence of <i>Pseudomonas</i> spp. and identification of metallo- $\beta$ -lactamase producing <i>Pseudomonas</i> spp. in wastewater treatment plant effluent	Thi Thuy Do Maynooth, Ireland
15:00	Frequent detection of CRE in Dutch municipal wastewater	Hetty Blaak Bilthoven, The Netherlands
15:15	Poster Speed Presentations	
15:45	Poster Session	
16:15	Coffee break	
<b>4<sup>th</sup> Session: Use of Antimicrobial Agents</b>		<b>Chairs: Scott McEwen, Lothar Kreienbrock</b>
16:45	Monitoring antibiotic usage in animals: Do existing systems provide comparable data?	Nicole Werner Hannover, Germany
17:00	Used Daily Dose vs. Defined Daily Dose – Advantages and disadvantages of different dosage assumptions for the monitoring of antimicrobial usage in livestock	Svetlana Kasabova Hannover, Germany
17:15	Association between veterinary antibiotic use and resistance in commensal <i>Escherichia coli</i> from livestock in Belgium between 2011 and 2015	Bénédicte Callens Brussels, Belgium
17:30	The effect of antibiotic use on resistance in commensal <i>Escherichia coli</i> from pre-weaned calves on a large commercial dairy farm in Washington State	Josephine A. Afema Pullman, USA
17:45	The use of antimicrobial drugs in fattening pigs in Italy	Rosanna Desiato Torino, Italy
18:00	Monitoring antimicrobial resistance in the Norwegian environment using wild red foxes as an indicator	Solveig S. Mo Oslo, Norway
18:15	Closing of Day 1	
18:30	Departure to Braunschweig City / Hotels	

Tuesday, 27 June 2017		
<b>5<sup>th</sup> Session: Colistin Resistance</b> Chairs: Séamus Fanning, Geovana B. Michael		
9:00	Key Note: Plasmid-mediated resistance to polymyxins; animals as reservoirs for humans?	Laurent Poirel Fribourg, CH
9:45	Prevalence, risk factors, outcomes, and molecular epidemiology of <i>mcr-1</i> -positive <i>Enterobacteriaceae</i> in patients and healthy adults from China: an epidemiological and clinical study	Yingbo Shen Beijing, China
10:00	The environmental contamination of NDM and MCR-1 in food animal production chain	Yang Wang Beijing, China
10:15	Coffee break	
<b>6<sup>th</sup> Session: more about the Colistin Resistance Gene <i>mcr</i></b> Chairs: Laurent Poirel, Yang Wang		
10:45	The dissemination of <i>mcr-1</i> among <i>Escherichia coli</i> of human and animal origins	Shaolin Wang Beijing, China
11:00	Occurrence of colistin resistance gene <i>mcr-1</i> in <i>Escherichia coli</i> isolates associated with diarrhea and edema disease in piglets in Europe	Christa Ewers Gießen, Germany
11:15	Detection of plasmid-mediated colistin-resistance genes in <i>Enterobacteriaceae</i> isolates from food-producing animals and meat. Identification of the novel variant <i>mcr-3</i> , Portugal, 2010-2015	Manuela Caniça Lisbon, Portugal
11:30	Poster Speed Presentations	
12:00	Poster Session	
12:30	Lunch	
<b>7<sup>th</sup> Session: Novel Diagnostic Tools</b> Chairs: Patrick Boerlin, Heike Kaspar		
14:00	Key Note: Metagenomics analysis – surveillance of all AMR genes from sewage	Rene Hendriksen Lyngby, DK
14:45	Validation of a Novel Susceptibility Testing Method for <i>Haemophilus parasuis</i>	Sandra Prüller Hannover, Germany
15:00	Biocide susceptibility testing – development of a new testing method	Andrea T. Feßler Berlin, Germany
15:15	ARIBA: a new high throughput tool to identify antimicrobial resistance determinants from short read sequencing data	Alison E. Mather Cambridge, UK
15:30	Coffee break	
<b>8<sup>th</sup> Session: MRSA</b> Chairs: Engeline van Duijkeren, Marisa Haenni		
16:00	Variability of SCC <i>mec</i> elements in livestock-associated CC398 MRSA	Stefan Monecke Jena, Germany
16:15	Unexpected occurrence of MRSA in Swedish wild hedgehogs ( <i>Erinaceus europaeus</i> ) - A pilot study	Stefan Börjesson Uppsala, Sweden
16:30	Carriage dynamics of methicillin resistant <i>Staphylococcus aureus</i> and changes in the nasal microbiome after long- and short-term exposure to the pig farm environment.	Md Zohorul Islam Copenhagen, Denmark
16:45	Closing of Day 2	
17:15	Departure to dinner and social event at the Mühlenmuseum Gifhorn	

Wednesday, 28 June 2017		
<b>9<sup>th</sup> Session: Novel and Alternative Approaches in Fighting AMR</b> Chairs: Alison E. Mather, Nicole Werner		
9:00	Key Note: CIA list of the WHO	Scott McEwen CA, Guelph
9:45	Reduction in antimicrobial usage following veterinary intervention in dairy herds	Scott McDougall Morrinsville, New Zealand
10:00	Testing the susceptibility of bacterial mastitis isolates to host defense peptides: technical challenges and data output for clinical isolates	Maren von Köckritz-Blickwede Hannover, Germany
10:30	Coffee break	
<b>10<sup>th</sup> Session: ESBL-producing <i>E. coli</i> in animals</b> Chairs: Guido Werner, Katja Hille		
11:00	Longitudinal study of ESBL-carriage on an organic broiler farm: horizontal plasmid transmission	Angela H.A.M. van Hoek Utrecht, The Netherlands
11:15	Plasmid and chromosomal location of <i>bla</i> <sub>CTX-M-15</sub> genes detected in <i>Escherichia coli</i> from diseased cattle	Geovana Brenner Michael Berlin, Germany
11:30	Antimicrobial resistance prevalence in Harbour ( <i>Phoca vitulina</i> ) seal pups stranded in the Netherlands and antibiotic treatment effect in their gut microbiome during rehabilitation	Ana Rubio-Garcia Pieterburen, The Netherlands
11:45	Extended spectrum $\beta$ -lactamase producing <i>Enterobacteriaceae</i> in imported and domestic food products purchased at retail in Canada	Michael Mulvey Guelph, Canada
12:00	Key Note: Epidemiology of ESBL- <i>E.coli</i> from the One Health perspective	Engeline van Duijkeren Bilthoven, The Netherlands
12:45	Closing of the 7 <sup>th</sup> ARAE	
13:15	Coffee break	
14:00	Departure to Braunschweig City / Main station	