Research outputs:

High diversity of genes and plasmids encoding resistance to third-generation cephalosporins and quinolones in clinical Escherichia coli from commercial poultry flocks in Italy
Research output: Research - peer-review › Journal article – Annual report year: 2018

Multiplex PCR for detection of plasmid-mediated colistin resistance determinants, mcr-1, mcr-2, mcr-3, mcr-4 and mcr-5 for surveillance purposes
Research output: Research - peer-review › Journal article – Annual report year: 2018

A culture-independent method for studying transfer of IncI1 plasmids from wild-type Escherichia coli in complex microbial communities
Research output: Research - peer-review › Journal article – Annual report year: 2018

Cephalosporin-resistant Escherichia coli isolated from farm-workers and pigs in northern Vietnam
Dang, S. T. T., Bortolaia, V., Thi, N. T., Quang, H. L. & Dalsgaard, A. 2018 In : Tropical Medicine & International Health. 23, 4, p. 415-424
Research output: Research - peer-review › Journal article – Annual report year: 2018

Molecular Epidemiology of mcr-Encoded Colistin Resistance in Enterobacteriaceae From Food-Producing Animals in Italy Revealed Through the EU Harmonized Antimicrobial Resistance Monitoring
Research output: Research - peer-review › Journal article – Annual report year: 2018

The 22nd EURL-AR Proficiency Test - Enterococci, Staphylococci and E. coli 2017
Research output: Commissioned › Report – Annual report year: 2018

The 23rd EURL-AR Proficiency Test Salmonella, Campylobacter and genotypic characterisation 2017
Research output: Commissioned › Report – Annual report year: 2018

Vancomycin resistance in Enterococcus faecium isolated from Danish chicken meat is located on a pVEF4-like plasmid persisting in poultry for 18 years
Research output: Research - peer-review › Journal article – Annual report year: 2018
Erratum for Gudeta et al., The Soil Microbiota Harbors a Diversity of Carbapenem-Hydrolyzing beta-Lactamases of Potential Clinical Relevance (vol 60, pg 151, 2016)
Research output: Research - peer-review › Journal article – Annual report year: 2016

Expanding the Repertoire of Carbapenem-Hydrolyzing Metallo-beta-Lactamases by Functional Metagenomic Analysis of Soil Microbiota
Research output: Research - peer-review › Journal article – Annual report year: 2017

Host-Specific Patterns of Genetic Diversity among IncI1-I gamma and IncK Plasmids Encoding CMY-2 beta-Lactamase in Escherichia coli Isolates from Humans, Poultry Meat, Poultry, and Dogs in Denmark
Research output: Research - peer-review › Journal article – Annual report year: 2016

Human health risks associated with antimicrobial-resistant enterococci and Staphylococcus aureus on poultry meat
Research output: Research - peer-review › Review – Annual report year: 2016

Relation between tetR and tetA expression in tetracycline resistant Escherichia coli
Research output: Research - peer-review › Journal article – Annual report year: 2016

The Soil Microbiota Harbors a Diversity of Carbapenem-Hydrolyzing beta-Lactamases of Potential Clinical Relevance
Research output: Research - peer-review › Journal article – Annual report year: 2016

CTX-M-1 and CTX-M-15-producing Escherichia coli in dog faeces from public gardens
Damborg, P., Kjelin Morsing, M., Petersen, T., Bortolaia, V. & Guardabassi, L. 2015 In : Acta Veterinaria Scandinavica (Online). 57, 4 p., 83
Research output: Research - peer-review › Journal article – Annual report year: 2015

CTX-M-1 beta-lactamase expression in Escherichia coli is dependent on cefotaxime concentration, growth phase and gene location.
Research output: Research - peer-review › Journal article – Annual report year: 2015

Limited similarity between plasmids encoding CTX-M-1 beta-lactamase in Escherichia coli from humans, pigs, cattle, organic poultry layers and horses in Denmark
Research output: Research - peer-review › Journal article – Annual report year: 2015

Persistence of Vancomycin Resistance in Multiple Clones of Enterococcus faecium Isolated from Danish Broilers 15 Years after the Ban of Avoparcin
Research output: Research - peer-review › Journal article – Annual report year: 2015
Quantitative assessment of faecal shedding of beta-lactam-resistant Escherichia coli and enterococci in dogs
Research output: Research - peer-review ; Journal article – Annual report year: 2015

Zoonotic Transmission of Antimicrobial Resistant Enterococci: A Threat to Public Health or an Overemphasised Risk?
Research output: Research - peer-review ; Book chapter – Annual report year: 2015

High diversity of plasmids harbouring blaCMY-2 among clinical Escherichia coli isolates from humans and companion animals in the upper Midwestern USA
Research output: Research - peer-review ; Journal article – Annual report year: 2014

Strain Diversity of CTX-M-Producing Enterobacteriaceae in Individual Pigs: Insights into the Dynamics of Shedding during the Production Cycle: insights into the dynamics of shedding during the production cycle
Research output: Research - peer-review ; Journal article – Annual report year: 2014

VanO, a new glycopeptide resistance operon in environmental Rhodococcus equi isolates
Research output: Research - peer-review ; Journal article – Annual report year: 2014

The first attempt of an active integrated laboratory-based Salmonella surveillance programme in the north-eastern region of Nigeria
Research output: Research - peer-review ; Journal article – Annual report year: 2013

Characterization of Isolates of Salmonella enterica Serovar Stanley, a Serovar Endemic to Asia and Associated with Travel
Research output: Research - peer-review ; Journal article – Annual report year: 2012

The 9th EURL-AR Proficiency Testing Salmonella and Campylobacter 2010
Research output: Research - peer-review ; Report – Annual report year: 2011

Population Genetics of Vibrio cholerae from Nepal in 2010: Evidence on the Origin of the Haitian Outbreak
Research output: Research - peer-review ; Journal article – Annual report year: 2011

Potential Pathogenicity and Host Range of Extended-Spectrum β-Lactamase-Producing Escherichia coli Isolates from Healthy Poultry
Research output: Research - peer-review ; Journal article – Annual report year: 2011

The External Quality Assurance System of the WHO Global Foodborne Infections Network 2009
Distribution and possible transmission of ampicillin- and nalidixic acid-resistant Escherichia coli within the broiler industry
Research output: Research › peer-review › Journal article – Annual report year: 2010

Escherichia coli Producing CTX-M-1,-2, and-9 Group beta-Lactamases in Organic Chicken Egg Production
Research output: Research › peer-review › Letter – Annual report year: 2010

High Diversity of Extended-Spectrum β-Lactamases in Escherichia coli Isolates from Italian Broiler Flocks
Research output: Research › peer-review › Journal article – Annual report year: 2010

Projects:

Infectious Diseases and Whole Genome Sequencing
Rebelo, A. R. B., Aarestrup, F. M. & Bortolaia, V.
Samfinansieret - Andet
01/06/2018 → 31/05/2021
Project: PhD

Bekæmpelse af ESBL producerende, colistin og multiresistente Salmonella og E. coli
Bortolaia, V.
01/09/2016 → 31/12/2016
Project: Research

Activities:

Carbapenemase epidemiology in bacteria of animal and environmental origin: the One Health prospective
Bortolaia, V. (Guest lecturer)
8 Jun 2018
Activity: Talks and presentations › Conference presentations

Genome dynamics of vancomycin-resistant Enterococcus faecium in clinical samples
Bortolaia, V. (Supervisor)
1 Aug 2017 → 1 Feb 2018
Activity: Examinations and supervision › Supervisor activities

EU capacity building projects: ENGAGE and COMPARE
Bortolaia, V. (Guest lecturer)
12 Jul 2017
Activity: Talks and presentations › Conference presentations

Phenotype prediction using WGS data: resistome and virulome
Bortolaia, V. (Guest lecturer)
12 Jul 2017
Activity: Talks and presentations › Conference presentations

Silent vanA in Enterococcus faecium from Danish pigs
Bortolaia, V. (Main supervisor)
22 May 2017 → 2 Jun 2017
Activity: Examinations and supervision › Supervisor activities
Applied Bioinformatics & Public Health Microbiology
Bortolaia, V. (Participant)
17 May 2017 → 19 May 2017
Activity: Attending an event › Participating in or organising a conference

ESVAC annual network meeting
Bortolaia, V. (Participant)
2 Mar 2017 → 3 Mar 2017
Activity: Attending an event › Participating in or organising a conference

Prediction of antibiotic resistance phenotypes from whole genome sequence data of clinically relevant bacteria
Bortolaia, V. (Main supervisor)
27 Feb 2017 → 10 Jul 2017
Activity: Examinations and supervision › Supervisor activities

First meeting of the One Health Network on Antimicrobial Resistance
Bortolaia, V. (Participant)
23 Feb 2017
Activity: Attending an event › Participating in or organising a conference

Bacterial factors determining changes in epidemiology of cephalosporin-resistant Escherichia coli in Danish poultry
Bortolaia, V. (Main supervisor)
30 Jan 2017 → 14 Jun 2017
Activity: Examinations and supervision › Supervisor activities

Antimicrobial resistance as a global threat
Bortolaia, V. (Guest lecturer)
1 Dec 2016
Activity: Talks and presentations › Conference presentations

Expert Commission on Addressing the Contribution of Livestock to the Antibiotic Resistance Crisis (External organisation)
Bortolaia, V. (Participant)
15 Oct 2016 → …
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar

The ESBL/AmpC resistome in Escherichia coli from pigs and pig farmers, Vietnam
Bortolaia, V. (Supervisor)
1 Sep 2016 → 15 May 2017
Activity: Examinations and supervision › Supervisor activities

Differential fitness of avian CTX-M-1- and CMY-2-encoding plasmids in Escherichia coli
Bortolaia, V. (Supervisor)
Sep 2016 → Dec 2016
Activity: Examinations and supervision › Supervisor activities

Cephalosporin resistance in the Danish chicken meat production chain
Bortolaia, V. (Speaker)
20 May 2016
Activity: Talks and presentations › Conference presentations

GLOBAL MEETING OF WHO COLLABORATING CENTRES ON FOOD SAFETY AND OTHER STAKEHOLDERS
Bortolaia, V. (Participant)
16 May 2016 → 17 May 2016
Activity: Attending an event › Participating in or organising a conference
Plasmids without frontiers: animal contribution to plasmid-mediated antimicrobial resistance problems in human medicine
Bortolaia, V. (Guest lecturer)
9 Apr 2016
Activity: Talks and presentations › Conference presentations

27th European Congress of Clinical Microbiology and Infectious Diseases (ECCMID) (Event)
Bortolaia, V. (Member)
2016 → …
Activity: Membership › Membership in review committee

Antibiotic induced transmission of antibiotic resistance in Escherichia coli
Bortolaia, V. (Supervisor)
2016 → …
Activity: Examinations and supervision › Supervisor activities

European Committee on Antimicrobial Susceptibility Testing (External organisation)
Bortolaia, V. (Member)
2016 → …
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar

Public health risks linked to antimicrobial-resistant enterococci in meat
Bortolaia, V. (Supervisor)
2016 → …
Activity: Examinations and supervision › Supervisor activities

Animal contribution to ESBL-producing Escherichia coli and MRSA infections in humans
Bortolaia, V. (Guest lecturer)
29 Oct 2015
Activity: Talks and presentations › Conference presentations

26th European Congress of Clinical Microbiology and Infectious Diseases (ECCMID) (Event)
Bortolaia, V. (Member)
2015 → …
Activity: Membership › Membership in review committee

European Society for Clinical Microbiology and Infectious Diseases (ECCMID) (Event)
Bortolaia, V. (Member)
2015 → …
Activity: Membership › Membership in review committee

Modelling of horizontal transfer of extended-spectrum beta-lactamases (ESBLs) in the gut microbiota
Bortolaia, V. (Supervisor)
2015 → …
Activity: Examinations and supervision › Supervisor activities

Origin and evolution of clinically important antimicrobial resistance genes
Bortolaia, V. (Supervisor)
2012 → 2015
Activity: Examinations and supervision › Supervisor activities

Plasmid-mediated cephalosporin resistance in human and animal Escherichia coli
Bortolaia, V. (Supervisor)
2012 → 2015
Activity: Examinations and supervision › Supervisor activities