

Curriculum Vitae

Personal information

Engeline van Duijkeren

Work experience

1. Employer: National Institute for Public Health and the Environment
 - Start date: 092011
 - End date:
 - Position: senior researcher
 - Activities: project coordinator antimicrobial resistance
 - Country: Netherlands
2. Employer: Utrecht University, Faculty of Veterinary Medicine, Department of Infectious Diseases and Immunology
 - Start date: 1995
 - End date: 092011
 - Position: assistant professor
 - Activities: teaching students (bachelor and master) in all aspects of infectious diseases including zoonoses; deputy head of the Veterinary Microbiological Diagnostic Laboratory (VMDC), researcher with special interest in antimicrobial resistance
 - Country: Netherlands
3. Employer: Utrecht University, Faculty of Veterinary Medicine, Department of Large Animal Medicine and Nutrition of Utrecht
 - Start date: 1991
 - End date: 1995
 - Position: PhD student, staff member
 - Activities: Staff member at the Department of Large Animal Medicine and Nutrition of Utrecht University PhD study with PhD degree on 30_03_1995. Thesis entitled "Trimethoprim/sulphonamide combinations in relation to equine salmonellosis"
 - Country: Netherlands
4. Employer: Utrecht University, Faculty of Veterinary Medicine, Department of Clinical Science of Companion Animals
 - Start date: 1989
 - End date: 1991
 - Position: Staff member at the Department of Clinical Science of Companion Animals of Utrecht University
 - Activities:
 - Country: Netherlands
5. Employer: Utrecht University, Faculty of Veterinary Medicine, Department of Veterinary Obstetrics
 - Start date: 1986
 - End date: 1988
 - Position: Staff member at the Department of Veterinary Obstetrics
 - Activities:
 - Country: Netherlands
6. Employer: DAP Barneveld, DAP Berkel Enschoot
 - Start date: 121984
 - End date: 1986
 - Position: Veterinarian in several private practices
 - Activities: Companion animals and farm animals
 - Country: Netherlands

Education and training

1. Subject: Utrecht University
 - Start date: 1977
 - End date: 1984
 - Qualification: DVM
 - Organisation:
 - Country: Netherlands
2. Subject: Utrecht University
 - Start date: 1991
 - End date: 1995
 - Qualification: PhD
 - Organisation: Trimethoprim/sulfonamide combinations in relation to equine salmonellosis
 - Country: Netherlands
3. Subject: Utrecht University
 - Start date:
 - End date: 1999
 - Qualification: Senior University Teaching Qualification
 - Organisation:
 - Country:
4. Subject:
 - Start date:
 - End date: 1995
 - Qualification: Specialist Equine Internal Medicine
 - Organisation:
 - Country:

5. Subject:

- Start date:
- End date: 1996
- Qualification: Specialist Veterinary Microbiology
- Organisation:
- Country:

Additional information

Publications

van Duijkeren E, Brouwer MSM, Wullings B, Rapallini M, Wit B, Cuperus T, Hengeveld PD, Witteveen S, Hendrickx APA, Dierikx CM, Veldman KT. Methicillin-resistant *Staphylococcus aureus* GG0398 on livestock farms and meat in the Netherlands. J Glob Antimicrob Resist. 2025 Apr 19; 43:79-85. doi: 10.1016/j.jgar.2025.04.007.

Meijs AP, Rozwandowicz M, Hengeveld PD, Dierikx CM, de Greeff SC, **van Duijkeren E**, van Dissel JT. Human carriage of ESBL/pAmpC-producing *Escherichia coli* and *Klebsiella pneumoniae* in relation to the consumption of raw or undercooked vegetables, fruits and fresh herbs. Microbiol Spectr 2024;12(2):e0284923.

Deng H, Chanamé Pinedo L, Meijs AP, Sanders P, Veldman KT, Brouwer MSM, Altorf-van der Kuil W, Wullings B, ISIS-AR study group, van den Beld MJC, de Greeff SC, Dierikx CM, **van Duijkeren E**, Franz E, Mughini-Gras L, Pijnacker R. Reducing antimicrobial use in livestock alone may be not sufficient to reduce antimicrobial resistance among human *Campylobacter* infections: an ecological study in the Netherlands. Epidemiol Infect. 2024 Nov 27;152:e148. doi: 10.1017/S0950268824001511

Meijs AP, Chanamé-Pinedo L, Deng H, Veldman KT, Brouwer MSM, van den Beld MJC, Dierikx CM, Sanders P, Wullings B, ISIS-AR study group, de Greeff SC, **van Duijkeren E**, Franz E, Pijnacker R, Mughini-Gras L. Association between antimicrobial use in livestock and antimicrobial resistance in *Escherichia coli* isolates from human urinary tract infections in the Netherlands, 2009-2020. J Antimicrob Chemother. 2024 Aug 2;dkae268. doi: 10.1093/jac/dkae268.

Chaname Pinedo L; Meijs A; Deng H; de Greeff S; **van Duijkeren E**; Dierikx C; Veldman K; Sanders P; van den Beld M; Wullings B; Franz E; Pijnacker R; Mughini-Gras L. Temporal association of antimicrobial use in livestock with antimicrobial resistance in non-typhoid Salmonella human infections in the Netherlands, 2009-2019. One Health. 2024 Jun 20;19:100844. doi: 10.1016/j.onehlt.2024.100844. eCollection 2024 Dec

van Duijkeren E, Rantala M, Bouchard D, Busani L, Catry B, Kaspar H, Pomba C, Moreno M, Nilsson O, Ružauskas M, Sanders P, Teale C, Wester A, Ignate K, Juhl H, Kunsagi Z, Schwarz C. The use of aminopenicillins in animals within the EU, emergence of resistance in bacteria of animal and human origin and its possible impact on animal and human health. J Antimicrob Chemother 2023. <https://doi.org/10.1093/jac/dkad157>

Dierikx CM, Hengeveld P, Witteveen S, Maas M, van Santen-Verheuevel M, Montizaan M, Schouls L, Hendrickx A, van Duijkeren E. Whole Genome Sequence comparison of *mecC*-carrying methicillin resistant *Staphylococcus aureus* from hedgehogs and humans in the Netherlands. J Antimicrob Chemother 2023 Mar 30;dkad047. doi: 10.1093/jac/dkad047.

Valcek A, Sismova P, Nesporova K, Overballe-Petersen S, Bitar I, Jamborova I, Kant A, Hrabak J, Wagenaar JA, Madec JY, Damborg P, van Duijkeren E, Ewers C, Hordijk J, Hasman H, Brouwer MSM, Dolejska M. Horsing around: *Escherichia coli* ST1250 of equine origin harbouring epidemic IncHI1/ST9 plasmid with *bla*_{CTX-1} and an operon for short-chain fructooligosaccharides metabolism. Antimicrob Agents Chemother. 2023 May 1;65(5):e02556-20.

Schouls LM, Veldman K, Brouwer M, Dierikx CM, Witteveen S, van Santen M_Verheuevel, Hendrickx A, Landman F, Hengeveld P, Wullings B, Rapallini M, Wit B, van Duijkeren E and the Dutch MRSA surveillance study group.. cfr and fexA genes in methicillin-resistant *Staphylococcus aureus* isolated from humans and livestock in the Netherlands. Nature Communications Medicine Commun Med. 2022; 2:135.

Takai S, Ohashi M, Suzuki Y, Sasaki Y, Kakuda T, Broens EM, Wagenaar JA, van Duijkeren E. Virulence plasmids in clinical isolates of *Rhodococcus equi* from sick foals in the Netherlands. Lett Appl Microbiol. 2022 Jun 16. doi: 10.1111/lam.13769.

Dierikx C, Meijs A, Hengeveld P, van der Klis FRM, J. van Vliet J, Gijsbers E, van Hoek A, Hendrickx A, Rozwandowicz, Hordijk J, Van Duijkeren E. Colistin resistance in Enterobacteriales in the Dutch population and among veterinary healthcare workers. JAC Antimicrob Resist. 2022 Apr 19;4(2):dlac041. doi: 10.1093/jacamr/dlac041.

Suzuki Y, Takaia S, Kubota H, Hasegawa N, Ito S, 4 Yabuuchi Y, Sasaki Y, van Duijkeren E, Kakuda T. *Rhodococcus equi* U19 strain harbors a nonmobilizable virulence plasmid. Microbiol. Infect. 2022; 1_10

Shetty SA, Stege PB, Hordijk J, Gijsbers E, Dierikx CM, van Duijkeren E, Franz E, Willems RJL, Paganelli FL, Fuentes S. Species-specific gut microbiome patterns in Dutch individuals with different long-term dietary habits. mSphere published online e00512-22

Stege PB, Hordijk J, Shetty SA, Visser M, Viveen MC, Rogers M, Gijsbers E, Dierikx CM, van de Plaats R, van Duijkeren E, Franz E, Willems RJL, Fuentes S, Paganelli FL. Impact of long-term dietary habits on the human gut resistome in the Dutch population. Scientific Reports 2022 Feb 3;12(1):1892.

Meijs AP, Gijsbers EF, Hengeveld PD, Kuijper EJ, Dierikx CD, de Greeff SC, van Duijkeren E. Fecal *Clostridioides difficile* carriage is low among healthy veterinarians in the Netherlands. Epidemiol Infect. 2022 Feb 28;150:e63

Meijs AP, Gijsbers EF, Hengeveld PD, Dierikx CM, de Greeff SC, van Duijkeren E. ESBL/pAmpC-producing *Escherichia coli* and *Klebsiella pneumoniae* carriage among veterinary healthcare workers in the Netherlands, 2018 to 2019: prevalence and prolonged carriage. Antimicrob. Resist. Infect. Control 2021;10(1):147.

Valcek A, Sismova P, Nesporova K, Overballe_Petersen S, Bitar I, Jamborova I, Kant A, Hrabak J, Wagenaar J, Madec J_Y, Damborg P, van Duijkeren E, Ewers C, Hordijk J, Hasman H, Brouwer M, and Dolejska M. Horsing around: *Escherichia coli* ST1250 of equine origin harbouring epidemic IncHI1/ST9 plasmid with *bla*_{CTX_M_1} and an operon for short-chain fructooligosaccharides metabolism. Antimicrob. Agents Chemother. 2021. 65:e02556_20. DOI: 10.1128/AAC.02556-20

Janse I, Beeloo R, Swart A, Visser M, Schouls L, van Duijkeren E, van Passel M. The extent of carbapenemase encoding genes in public genome sequences. PeerJ 2021. DOI 10.7717/peerj.11000

van Kleef E, Wielders CCH, Schouls LM, Feenstra SG, Hertogh CMPM, Bonten MJM, van Weert Y, Tostmann A, van der Lubben M, de Greeff SC; PPO study group. National point prevalence study on carriage of multidrug-resistant microorganisms in Dutch long-term care facilities in 2018. J Antimicrob Chemother. 2021 Mar 12;76(6):1604_1613.

Scholtzek AD, Hanke D, Eichhorn I, Walther B, Lübke-Becker A, van Duijkeren E, Köck R, Schwarz S, Feßler AT. Heterogeneity of antimicrobial susceptibility test results for sulfamethoxazole/trimethoprim obtained from clinical equine *Staphylococcus aureus* isolates using different methods. Vet. Microbiol. 2020 Mar;242:108600. doi: 10.1016/j.vetmic.2020.108600.

Meijs A, Hengeveld P, Dierikx CM, Maassen CM, de Greeff S, de Haan A, Bosch T, van Duijkeren E. Prolonged carriage of (livestock-associated) MRSA in individuals without professional livestock contact. J Antimicrob Chemother 2020 Jun 1;75(6):1405_1409

Wielders CCH, van Duijkeren E, van den Bunt G, Meijs AP, Dierikx CM, Bonten MJM, van Pelt W, E. Franz E, de Greeff SC. Seasonality in carriage of extended-spectrum β -lactamase-producing *Escherichia coli* and *Klebsiella pneumoniae* in the general population: a pooled analysis of nationwide cross-sectional studies. Epidemiol Infect. 2020 Feb 21;1_17. doi: 10.1017/S0950268820000539

van Hoek AHAM, Dierikx CM, Bosch T, Schouls L, van Duijkeren E, Visser M. Transmission of extended-spectrum beta-lactamase-producing *E. coli* between broilers and humans on broiler farms. J Antimicrob Chemother 2020;75(3):543_549.

Meijs AP, Gijsbers EF, Hengeveld PD, Veenman C, van Roon AM, van Hoek AHAM, de Greeff SC, van Duijkeren E, Dierikx CM. Do vegetarians less frequently carry ESBL/pAmpC-producing *E. coli*/K. pneumoniae compared to non-vegetarians? J Antimicrob Chemother 75(3):550_558.

van den Bunt G, Fluit AC, Bootsma M, van Duijkeren E, Scharringa J, van Pelt W, Bonten MJM. Dynamics of intestinal carriage of Extended-spectrum Beta-lactamase producing Enterobacteriaceae in the general population (2014_2016). Clin Infect Dis ciz1091, doi.org/10.1093/cid/ciz1091

Mughini_Gras L, Dorado_Garcia A, van Duijkeren E, van den Bunt G, Dierikx CD, Bonten MJM, Bootsma MCJ, Schmitt H, Hald T, Evers E, Franz E, Mevius DJ, Heederik DJJ, on behalf of the ESBLAT consortium. Attributable sources of community_acquired β -lactam antibiotic resistance: a population_based modelling study. *The Lancet Planetary Health* 2019; 3: 357–69.

E. van Duijkeren, Schwarz C, Bouchard D, Catry B, Pomba C, Rantala M, Baptiste KE, Moreno MA, Ružauskas M, Sanders P, Teale C, Wester AL, Kunsagi Z, Jukes H, Heederik DJJ. The use of aminoglycosides in animals within the European Union: development of resistance in animals and possible impact on human and animal health: a review. *J. Antimicrob. Chemother.* 2019; 74(9):2480_2496.

van Duijkeren E, Schink A_K, Roberts MC, Wang Y, Schwarz S. Mechanisms of Bacterial Resistance to Antimicrobial Agents. In *Antimicrobial Resistance in Bacteria from Livestock and Companion Animals*. Eds Aarestrup FM, Schwarz S, Shen J, Cavaco L. 2018 American Society for Microbiology, Washington, DC

van Hoek AHAM, Veenman C, Florijn A, Huijbers PMC, Graat EAM, de Jong MCM, de Greeff SC, Dierikx CM, van Duijkeren E. Longitudinal study on ESBL E. coli carriage on an organic broiler farm. *J Antimicrob Chemother.* 2018;73(12):3298_3304.

van Duijkeren E, Schink A_K, Roberts MC, Wang Y, Schwarz S. Mechanisms of bacterial resistance to antimicrobial agents. *Microbiol Spectr.* 2018 Jan;6(1). doi: 10.1128/microbiolspec.ARBA_0019_2017

Dorado_García, A Smid JH, van Pelt W, Bonten MJM, Fluit AC, van den Bunt G, Wagenaar JA, Hordijk J, Dierikx CM, Veldman KT, de Koeijer A, Dohmen W, Schmitz Liakopoulos A, Pacholewicz E, Lam T, Velthuis AG, Heuvelink A'Gonggrijp MA, van Duijkeren E, van Hoek AHAM, de Roda Husman AM, Blaak H, Havelaar AH, Mevius DJ, Heederik DJJ. Molecular relatedness of ESBL/AmpC-producing *Escherichia coli* from humans, animals, food and the environment: a pooled analysis. *J. Antimicrob. Chemother.* 2018;73(2):339_347.

Teunis PFM, Evers EG, Hengeveld PD, Dierikx CM, Wielders CCH, van Duijkeren E. Time to acquire and lose carriage of ESBL/pAmpC producing *E. coli* in humans in the Netherlands. *PlosOne* 13(3):e0193834. van Duijkeren E. Transmissie van ESBL-producerende Enterobacteriaceae tussen dieren en mensen. *Infectieziektenbulletin* November 2017.

van Duijkeren E, Wielders CCH, Dierikx CM, van Hoek AHAM, Hengeveld P, Veenman C, Florijn A, Lotterman A, Smit LAM, van Dissel JT, Maassen CBM, de Greeff SC. Long-term carriage of extended_spectrum β -lactamase-producing *Escherichia coli* and *Klebsiella pneumoniae* in the general population in the Netherlands. *Clin Infect. Dis.* 66 (9): 1368–1376

Zomer TP, van Duijkeren E, Wielders CCH, Veenman C, Hengeveld P, van der Hoek W, de Greeff SC, Smit LAM, Heederik DJ, Yzermans CJ, Kuijper EJ, Maassen CBM. Prevalence and risk factors for colonization of *Clostridium difficile* among persons living near livestock farms in the Netherlands. *Epidemiol. Infect.* 2017; 145(13):2745_2749

Apostolakis I., Franz E., van Hoek, A.H.A.M., Florijn A, Sloet van Oldruitenborgh-Oosterbaan MM, Dierikx CM., van Duijkeren, E. Occurrence and molecular characteristics of ESBL/AmpC-producing *E. coli* in faecal samples of horses in an equine clinic. *J. Antimicrob. Chemother.* 2017;72(7):1915_192.

Evers, EG, Pielaat A, Smid, JH, van Duijkeren E., Vennemann, FBC., Wijnands LM, Chardon, JE. Comparative exposure assessment of ESBL-producing *Escherichia coli* through meat consumption. *PlosOne.* 2017;12(1):e0169589

Wielders CCH, van Hoek AHAM, Hengeveld PD, Veenman C, Dierikx CM, Zomer TP, Smit LAM, van der Hoek W, Heederik DJ, de Greeff SC, Maassen CBM, van Duijkeren E. Extended_spectrum β -lactamase- and AmpC-producing Enterobacteriaceae among the general population in a livestock_dense area. *Clin. Microbiol Infect.* 2017; 23(2):120.e1_120.e8.

Köck R, Kreienbrock L, van Duijkeren, E, Schwarz, S. Antimicrobial Resistance at the Interface of Human and Veterinary Medicine. *Vet. Microbiol.* 2017; 200:1_12

Pomba, C; Rantala, M; Greko, C; Baptiste, K; Catry, B; van Duijkeren, E; Mateus, A; Moreno, M; Pyöralä, S; Sanders, P; Teale, C; Threlfall, J; Kunsagi, Z; Torre, E.J; Jukes, H; Törneke, K.. The public health risk of antimicrobial resistance transfer from companion animals. *J. Antimicrob. Chemother.* 2017; 72(4):957_968

Zomer TP, Wielders CCH, Veenman C, Hengeveld P, van der Hoek W, de Greeff SC, Smit LAM, Heederik DJ, Yzermans CJ, Bosch T, Maassen CMB, van Duijkeren E. MRSA in persons not living or working on a farm in a livestock_dense area: prevalence and risk factors. *J. Antimicrob. Chemother.* 2017; 72(3):893_899

Larsen J., Stegger M., Andersen PS, Petersen A, Larsen AR, Westh H, Agersø Y, Fetsch A, Kraushaar B, Kaesbohrer A, Fessler AT, Schwarz S, Cuny C, Witte W, Butaye P, Denis O, Haenni M, Madec JY, Jouy E, Laurent F, Battisti A, Franco A, Alb P, Mammina C, Pantosti A, Monaco M, Wagenaar JA, de Boer E, van Duijkeren E, Heck M, Dominguez L, Torres C, Zarazaga M, Price LB, Skov RL. Evidence for human adaptation and foodborne transmission of livestock-associated MRSA. *Clin. Infect. Dis.* 2016; 63(10):1349_1352.

Huijbers PMC, Graat EAM, van Hoek AHAM, Veenman C, de Jong MCM, van Duijkeren E. Transmission dynamics of extended_spectrum β -lactamase and AmpC β -lactamase-producing *Escherichia coli* in a broiler flock without antibiotic use. *Prev. Vet. Med.* 2016 ;131:12_9. Schwarz S, Virve Enne V, van Duijkeren E. 40 years of veterinary papers in JAC – what have we learnt? *J. Antimicrob. Chemother.* 2016; 71(10):2681_90.

Dierikx, C.M., P. Hengeveld, K.T. Veldman, T. Bosch, S. van der Voorde, P. Dop, E. van Duijkeren. Ten years later: still high prevalence of MRSA in slaughter pigs despite significant reduction in antimicrobial usage. *J. Antimicrob. Chemother.* 2016; 71(9):2414_8. Hoek AHAM, Stalenhoeef J, van Duijkeren E, Franz E. Comparative virulotyping of extended_spectrum cephalosporin-resistant *E. coli* isolated from broilers, humans on broiler farms and in the general population and UTI patients. *Vet. Microbiol.* 2016. pii: S0378_1135(16)30090_6.

van Duijkeren E, Hengeveld P, Zomer T, Landman F, Bosch T, Haenen A, van de Giessen A. Transmission of methicillin-resistant *Staphylococcus aureus* between humans and animals on duck_ and turkey farms. *J. Antimicrob. Chemother.* 2016; 71: 58_62.

Duim B, Verstappen KMH, Broens EM, Laarhoven LM, van Duijkeren E, Hordijk J, de Heus P, Spaninks M, Timmerman AJ, Wagenaar JA. Expansion of the population of methicillin-resistant *Staphylococcus pseudintermedius* lineages and the dissemination of antimicrobial resistant phenotypes. *J. Clin. Microbiol.* 2016; 54: 283_288.

Catry, B. Cavaleri M., Baptiste K., Grave K., Grein K, Holm A, Jukes H, Liebana E, Navas AL, Mackay D, Magiorakos AP, Romo MA, Moreno, M.A., Moulin, G., Muñoz Madero, C., Pomba, C., Powell, M., Pyöralä, S., Rantala, M., Ružauskas, M., Sanders, P., Teale, C., Threlfall, E.J., Törneke, K., van Duijkeren, E., Torren_Edo, J. Use of colistin products in animals within the European Union and European Economic Area (EU/EEA): development of resistance and possible impact on human and animal health. *Int. J. Antimicrob. Agents* 2015; 46: 297_306.

van Duijkeren E, van Overbeek WM, Huijbers PMC, van de Giessen AW, van Hoek AHAM. Inoculation of mice with avian blaCTX_M_1 or blaCMY_2-carrying *E. coli* strains does not lead to long-term colonization. *J. Antimicrob. Chemother.* 2015; 70: 3164_3165.

van Duijkeren E, Schouls L, van Santen MG, Florijn A, de Greeff SC, van Hoek AHAM. Molecular characteristics of extended_spectrum cephalosporin-resistant Enterobacteriaceae from humans in the community. *PlosOne* 2015; 10(6):e0129085.

Lekkerkerk WSN, van Wamel, WJB., Snijders, SV, Willems RJ, van Duijkeren E, Broens EM, Wagenaar, J, Lindsay JA, Vos MC. What is the origin of Livestock-associated CC398 MRSA from humans without livestock contact: an epidemiological and genetic analysis. *J. Clin. Microbiol.* 2015; 53(6):1836_1841.

Huijbers P.M.C., van Hoek, A.H.A.M, Graat, E.A.M., Haenen, A.P.J., van der Meij_Florijn, A. Hengeveld P.D., van Duijkeren, E., Methicillin-Resistant *Staphylococcus aureus* and Extended-Spectrum Beta-Lactamase/AmpC-producing *Escherichia coli* in broilers and in people living and/or working on organic broiler farms. *Vet. Microbiol.* 2015; 176: 120–125.

Couto N, Belas A, Centeno M, van Duijkeren E, Pomba C. First description of fexA-positive methicillin-resistant *Staphylococcus aureus* ST398 from calves in Portugal. *J. Global Antimicrob. Res.* 2014; 2(4): 342–343.

Butaye P, van Duijkeren E, Prescott JF, Schwarz S. Antimicrobial resistance in bacteria from animals and the environment. *Vet. Microbiol.* 2014; 171: 269_272.

Van Duijkeren, E., Hengeveld, P.D., Albers, M. Pluister G., Jacobs, P., Heres, L., van de Giessen A.W. Prevalence of methicillin-resistant *Staphylococcus aureus* carrying mecA or mecC in dairy cattle. *Vet. Microbiol.* 2014; 171: 364_367.

Wendlandt, S., Kadlec, K., Feßler, A.T., van Duijkeren, E., Schwarz, S. Two different erm(C)-carrying plasmids in the same methicillin-resistant *Staphylococcus aureus* CC398 isolate from a broiler farm. *Vet. Microbiol.* 2014; 171: 382_387.

Wendlandt, S., Feßler, A.T., Kadlec, K., van Duijkeren E., Schwarz S. Identification of the novel spectinomycin resistance gene *spd* in a different plasmid background among methicillin-resistant *Staphylococcus aureus* CC398 and methicillin-susceptible *S. aureus* ST433. *J. Antimicrob. Chemother.* 2014;69(7):2000_2003.

Pyörälä, S., Baptist, K.E., Catry, B., van Duijkeren, E., Greko, C., Moreno, M.A., Pomba, C., Rantala, M., Ružauskas, M., Sanders, P., Threlfall, E.J., Torren_Edo, J., Törneke, K. Macrolides and lincosamides in cattle and pigs – use and development of antimicrobial resistance. *Vet. J.* 2014; 200: 230_239.

van Duijkeren, E., Greko, C., Pringle, M., Baptiste, K.E., Catry, B., Jukes, H., Moreno, M.A., Pomba, C., Pyörälä, S., Rantala, M., Ružauskas, M., Sanders, P., Teunissen, C., Threlfall, E.J., Torren_Edo, J., Törneke, K. Pleuromutilins: use in food-producing animals in the European Union, development of resistance and impact on human and animal health. *J. Antimicrob. Chemother.* 2014;69(8): 2022_2031.

Gaastera, W., Kusters, J.G., van Duijkeren, E., Lipman, L.J.A. *Escherichia fergusonii*. *Vet. Microbiol.* 2014;172: 7_12. Huijbers, P.M.C., Graat, E.A.M., Haenen, A., van Santen, M.G., van Essen_Zandbergen, A., Mevius, D.J., van Duijkeren, E., van Hoek, A.H.A.M. Extended_Spectrum β -Lactamase_ and AmpC β -lactamase-producing *Escherichia coli* in broilers and people living and/or working on broiler farms: prevalence, risk factors, and molecular characteristics. *J. Antimicrob. Chemother.* 2014;69(10):2669_2675.

Schijffelen, M., Konstantinov, S., Lina G., Spiliopoulou, I., van Duijkeren, E., Brouwer, E.C., Fluit, A.C. Whole genome analysis of epidemiologically closely related *Staphylococcus aureus* isolates. *PlosOne*, 2013; 8(10):e78340

Wendlandt, S., Kadlec, K., Feßler A.T., Mevius, D., van Essen_Zandbergen, E., Hengeveld, P.D., Bosch, T., Schouls L., Schwarz, S., van Duijkeren, E. Transmission of methicillin-resistant *Staphylococcus aureus* isolates on broiler farms. *Vet. Microbiol.* 2013;167: 632_637

Wendlandt S., Kadlec K., Feßler AT, Monecke S., Ehrlich R., de Giessen AW, Hengeveld, P.D., Huijsdens, X., Schwarz S., van Duijkeren E. Resistance phenotype and genotypes of methicillin-resistant *Staphylococcus aureus* isolates from broiler chickens at slaughter and abattoir workers. *J Antimicrob Chemother.* 2013; 67: 2458_2463

Huijbers, P.M.C., de Kraker, M., Graat, E.A.M., van Hoek, A.H.A.M., van Santen, M.G., de Jong, M.C.M., van Duijkeren, E., de Greeff, S.C. Prevalence of extended_spectrum β -lactamase-producing Enterobacteriaceae in humans living in municipalities with high and low broiler density. *Clin. Microbiol. Infect.* 2013; 16(6), E256_E259. Solymán, S.M., Black, C.C., Duim, B., Perreten, V., van Duijkeren, E., Wagenaar, J.A., Eberlein, L.C., Sadeghi, L.N., Videla, R., Bemis, D.A., Karch, S.A. Multilocus sequence typing for characterization of *Staphylococcus pseudintermedius*. *J. Clin. Microbiol.* 2013; 51 (1), 306_310. van Duijkeren, E., van Exel, J., Overgaauw, P.A., Sprong, H. Zoonoses from ticks and fleas in dogs and cats. Zoonosen van teken_ en vlooien bij honden en katten. *Tijdschr. Diergeneesk.*, 2013; 138 (1), 22_27. Geenen, P.L., Graat, E.A., Haenen, A., Hengeveld, P.D., van Hoek, A.H., Huijsdens, X.W., Kappert, C.C., Lammers, G.A., van Duijkeren, E., van Giessen A.W. Prevalence of livestock-associated MRSA on Dutch broiler farms and in people living and/or working on these farms. *Epidemiol. Infect.* 2013; 141 (1099_1108. Dierikx, C.M., van Duijkeren, E., Schoormans, A.H., van Essen_Zandbergen, A., Veldman, K., Kant, A., Huijsdens, X.W., van der Zwaluw, K., Wagemans, J.A., Mevius, D.J. Occurrence and characteristics of extended_spectrum β -lactamase_ and AmpC-producing clinical isolates derived from companion animals and horses. *J. Antimicrob. Chemother.* 2012; 67: 1368_1374. Overgaauw PA, van Duijkeren E, Sprong H, van Exel JC. Flea and tick control in dogs and cats. *Tijdschr. Diergeneesk.* 2012;137: 316_320. De Regt MAJ, van Schaik W, van Luit Asbroek M, Dekker HAT, van Duijkeren E, Koning CJM, Bonten MJM, Willems R. Hospital-acquired and community ampicillin-resistant *Enterococcus faecium* are evolutionarily closely linked but have diversified through niche adaptation. *PlosOne* 2012, February, 7. e30319. Graveland H, Duim B, van Duijkeren E, Heederik D, Wagenaar JA. Livestock-associated methicillin-resistant *Staphylococcus aureus* in animals and humans. *Int. J. Med. Microbiol.* 2011; 301: 630_634 Laarhoven LM, de Heus P, van Luijn J, Duim B, Wagenaar JA, van Duijkeren E. Longitudinal study on methicillin-resistant *Staphylococcus pseudintermedius* in households. *PlosOne* 2011;6(11):e27788. van Duijkeren E, Catry B, Greko C, Moreno MA, Pomba MC, Pyörälä S, Ružauskas M, Sanders P, Threlfall EJ, Torren_Edo J, Törneke K; [Scientific Advisory Group on Antimicrobials (SAGAM)] Review on methicillin-resistant *Staphylococcus pseudintermedius*. *J. Antimicrob. Chemother.* 2011; 66: 2705_2714. van Duijkeren E, Verstappen K, Duim B, Wagenaar JA. MRSA bij paarden in Nederland: mogelijke transmissie naar de mens? *Infectieziekten Bulletin* 2011, jaargang 22 (8); 288_289. Wagenaar JA, Houwers DJ, van Duijkeren E. Gezelschapsdieren, bron van methicilline resistente stafylokokken? *Infectieziekten Bulletin* 2011, jaargang 22 (8); 298_299 van Duijkeren E., Kamphuis M, van der Mijle IC, Laarhoven LM, Duim B, Wagenaar JA, Houwers DJ. Transmission of methicillin-resistant *Staphylococcus pseudintermedius* between infected dogs and cats and contact pets, humans and the environment in households and private veterinary clinics. *Vet. Microbiol.* 2011; 150: 338–343 Kadlec K., van Duijkeren E, J. Wagenaar JA., Schwarz S. Molecular basis of rifampicin resistance in methicillin-resistant *Staphylococcus pseudintermedius* isolates from dogs. *J. Antimicrob. Chemother.* 2011; 66: 1236–1242. van Duijkeren E, ten Horn L, Wagenaar JA, de Buijn M, Laarhoven L, Verstappen K, de Weerd W, Meessen N., Duim B. Suspected horse-to-human transmission of a methicillin-resistant *Staphylococcus aureus* ST398 resulting in clinical infection. *Emerg Infect Dis* 2011;17(6):1133_1135. Broens EM, Graat EAM, van der Wolf PJ, van de Giessen AW, van Duijkeren E, Wagenaar JA, van Nes A, Mevius DJ, de Jong MCM. MRSA CC398 in the pig production chain. *Prev Vet Med* 2011. 98 (2_3); 182_189. Budding AE, Vandenbroucke-Grauls CMJE, Melles DC, van Duijkeren E, Kluytmans JA, Savelkoul PHM. Binary IS typing for *Staphylococcus aureus*. *PLoS One* 2010; 5(10): e13671. Graveland H, Wagenaar JA, Heesterbeek H, Mevius D, van Duijkeren E, Heederik D. Methicillin-resistant *Staphylococcus aureus* ST398 in veal calf farming: human MRSA carriage related with animal antimicrobial usage and farm hygiene. *PLoS One*. 2010 Jun 8;5(6): Kadlec K, Schwarz S, Perreten V, Grönlund Andersson U, Finn M, Greko C, Moodley A, Kania S, Frank L, Bemis DA, Franco A, Iurescia M, Battisti A, Duim B, Wagenaar JA, van Duijkeren E, Weese JS, Fitzgerald JR, Rossano A, Guardabassi L. Molecular analysis of methicillin-resistant feline *Staphylococcus pseudintermedius* from different European countries and North America. *J Antimicrob Chemother* 2010; 65: 1826–1837. Perreten V, Kadlec K, Schwarz S, Grönlund Andersson U, Finn M, Greko C, Moodley A, Kania S, Frank L, Bemis DA, Franco A, Iurescia M, Battisti A, Duim B, Wagenaar JA, van Duijkeren E, Weese JS, Fitzgerald JR, Rossano A, Guardabassi L. Clonal spread of methicillin-resistant *Staphylococcus pseudintermedius* in Europe and North America: an international multicentre study. *J Antimicrob Chemother* 2010; 65(6):1145_54. Catry, B., van Duijkeren, E., Pomba, M.C., Greko, C., Moreno, M.A., Pyörälä, S., Ružauskas, M., Sanders, P., Threlfall, E.J., Ungemach, F., Törneke, K., Muñoz-Madero, C., Torren_Edo, J.(SAGAM). Reflection paper on MRSA in food-producing and companion animals: epidemiology and control options for human and animal health. *Epidemiol Infect*, 138(5):626_44. Review Ikawaty R, Brouwer EC, van Duijkeren E, Mevius D., Verhoef J, Fluit AC. Virulence factors of genotyped bovine mastitis *Staphylococcus aureus* isolates in The Netherlands. *International Journal of Dairy Science* 2011; 14(2), 60_70 Vo AT, van Duijkeren E, Gaastera W, Fluit AC. Antimicrobial resistance, class 1 integrons, and genomic island 1 in *Salmonella* isolates from Vietnam. *FEMS Microbiol Lett* 2010; 266(5/6):e9440. Schwarz S, Silley P, Simjee S, Woodford N, van Duijkeren E, Johnson AP, Gaastera W. Editorial: assessing the antimicrobial susceptibility of bacteria obtained from animals. *J Antimicrob Chemother* 2010; 65(4):601_4. Schwarz, S., Silley, P., Simjee, S., Woodford, N., van Duijkeren, E., Johnson, A.P., Gaastera, W. Assessing the antimicrobial susceptibility of bacteria obtained from animals. *Vet Microbiol*, 2010; 141 (1_2): 1_4. van Duijkeren, E., Moleman, M., Sloet van Oldruitenborgh_Oosterbaan, M.M., Multem, J., Troelstra, A., Fluit, A.C., van Wamel, W.J.B., Houwers, D.J., de Neeling, A.J., Wagenaar, J.A. Methicillin-resistant *Staphylococcus aureus* in horses and horse personnel: An investigation of several outbreaks. *Vet Microbiol*, 2010; 141 (1_2): 96_102. Weese JS., van Duijkeren, E. Methicillin-resistant *Staphylococcus aureus* and *Staphylococcus pseudintermedius* in veterinary medicine. *Vet Microbiol*, 2010; 140 (3_4):418_429. Review van Wamel, W.J.B., Hansenová Maňásková, S., Fluit, A.C., Verbrugh, H., De Neeling, A.J., van Duijkeren, E., van Belkum, A. Short term micro-evolution and PCR-detection of methicillin-resistant and -susceptible *Staphylococcus aureus* sequence type 398. *Eur J Clin Microbiol Infect Dis* 2010; 29(1):119_122. Greko C, J. I. Badiola, B. Catry, van Duijkeren E, M. A. Moreno, M. C. Matias Ferreira Pomba, S. Pyörälä, M. Ružauskas, P. Sanders, E. J. Threlfall, F. Ungemach, K. Törneke and J. Torren_Edo.(SAGAM). Reflection paper on the use of third and fourth generation cephalosporins in food-producing animals in the European Union: development of resistance and impact on human and animal health. *J. vet. Pharmacol. Therap.* 2009 Dec;32(6):515_33. Review. Wagenaar, J.A. Yue, H., Pritchard, J., Broekhuizen_Stins, M., Huijsdens, X., Mevius, D.J., Bosch, T., van Duijkeren, E. Unexpected sequence types in livestock-associated methicillin-resistant *Staphylococcus aureus* (MRSA): MRSA ST9 and a single locus variant of ST9 in pig farming in China. *Vet Microbiol*, 2009;139 (3_4): 405_410. Graveland, H., van Duijkeren, E., van Nes, A., Schoormans, A., Broekhuizen_Stins, M., Schothorst, I.O.-v., Heederik, D., Wagenaar, J.A. Evaluation of isolation procedures and chromogenic agar media for the detection of MRSA in nasal swabs from pigs and veal calves. *Vet Microbiol*, 2009;139 (1_2): 121_125. Melchior, M.B., van Osch, M.H.J., Graat, R.M., van Duijkeren, E., Mevius, D.J., Nielsen, M., Gaastera, W., Fink-Gremmels, J. Biofilm formation and genotyping of *Staphylococcus aureus* bovine mastitis isolates: Evidence for lack of penicillin resistance in Agr_type II strains. *Vet Microbiol*, 2009; 137 (1_2): 83_89. Ikawaty, R., Brouwer, E., Jansen, M.D., van Duijkeren, E., Mevius, D., Verhoef, J., Fluit, A.C. Characterization of Dutch *Staphylococcus aureus* from bovine mastitis using a Multiple Locus Variable Number Tandem Repeat Analysis. *Vet Microbiol*, 2009;136 (3_4):277_284. Houwers, D.J., van Duijkeren, E., Wagenaar, J.A., Nieuwendijk, H.A. Beheersing van MRSA in de gezelschapsdierenpraktijk; overeenkomsten en verschillen met MRSA. *Tijdschrift voor Diergeneeskunde*, 2009;134 (6):242_244. Van Oldruitenborgh_Oosterbaan, M.M.S., Troelstra, A., Barneveld, A., Wagenaar, J.A., Houwers, D.J., van Duijkeren, E. Methicilline resistente *Staphylococcus aureus* de paardenpraktijk. *Tijdschrift voor Diergeneeskunde*, 2008;133 (24): 1056_1060. Werners-Butler, C.M., Daha, T.J., Van Door, D.C.K., van Duijkeren, E., Goehring, L.S., Houwers, D.J., Laan, T.T.J.M., Van Maanen, C., Picavet, T., Van Sloet Oldruitenborgh_Oosterbaan, M.M.Leidraad III _ Infectieuze aandoeningen – teekgerelateerd. *Tijdschrift voor Diergeneeskunde*, 2008; 133 (11): 478_480. Sloet Van Oldruitenborgh_Oosterbaan, M.M., Butler, C.M., Daha, T.J., Van Doorn, D.C.K., van Duijkeren, E., Goehring, L.S., Houwers, D.J., Laan, T.T.J.M., Van Maanen, C., Picavet, T. Leidraad III _ Infectieuze aandoeningen – huid. *Tijdschrift voor Diergeneeskunde*, 2008; 133 (9): 388_392. Goehring, L.S., Butler, C.M., Daha, T.J., Van Doorn, D.C.K., van Duijkeren, E., Houwers, D.J., Laan, T.T.J.M., Van Maanen, C., Picavet, T., Van Oldruitenborgh_Oosterbaan, M.M.S. Leidraad III _ Infectieuze aandoeningen – Zenuwstelsel. *Tijdschrift voor Diergeneeskunde*, 2008; 133 (7): 288_294. van Duijkeren, E., Houwers, D.J., Schoormans, A., Broekhuizen_Stins, M.J., Ikawaty, R., Fluit, A.C., Wagenaar, J.A. Transmission of methicillin-resistant *Staphylococcus pseudintermedius* between humans and animals. *Vet Microbiol*, 2008;128 (1_2): 213_215. Picavet, T., Butler, C.M., Daha, T.J., van Doorn, D.C.K., van Duijkeren, E., Goehring, L.S., Houwers, D.J., Laan, T.T.J.M., Van Maanen, C., Van Oldruitenborgh_Oosterbaan, M.M.S. Leidraad III _ Infectieuze aandoeningen _ Digestie (deel II). *Tijdschrift voor Diergeneeskunde*, 2008; 133 (5): 190_195. Van Belkum, A., Melles, D.C., Peeters, J.K., Van Leeuwen, W.B., van Duijkeren, E., Huijsdens, X.W., Spalburg, E., De Neeling, A.J., Verbrugh, H.A. Methicillin-resistant and -susceptible *Staphylococcus aureus* sequence type 398 in pigs and humans. *Emerg Infect Dis*, 2008; 14 (3): 479_483. Vo, A., van Duijkeren, E., Fluit, A., Gaastera, W. Antibioticresistentie bij *Salmonella*: Vergelijkende isolaten uit Vietnam en Nederland. *Tijdschrift voor Diergeneeskunde*, 2008; 133 (4): 144_145. Picavet, T., Butler, C.M., Daha, T.J., Van Doorn, D.C.K., van Duijkeren, E., Goehring, L.S., Houwers, D.J., Laan, T.T.J.M., Van Maanen, C., Sloet Van Oldruitenborgh_Oosterbaan, M.M. Leidraad III _ Infectieuze aandoening _ Digestie (deel I). *Tijdschrift voor Diergeneeskunde*, 2008; 133 (3); 110_114. van Duijkeren, E., Ikawaty, R., Broekhuizen_Stins, M.J., Jansen, M.D., Spalburg, E.

meticillin resistant Staphylococcus aureus (MRSA) in livestock, companion animals and foods. EFSA_Q_2009_00612 (EFSA Scientific Report 3011_10) and EMEA/CVMP/SAGAM/62464/2009. EMEA/CVMP/SAGAM/81730/2006_Rev.1. Reflection paper on the use of 3rd and 4th generation cephalosporins in food producing animals in the European Union: development of resistance and impact on human health. 2009

Projects

ZonMW project Establish EJP consortium Full_Force EJP consortium RADAR EJP consortium IMPART AREND (antimicrobial resistance in persons with contact with animals) ESBLAT consortium (ESBL_attribution from livestock to humans) VGO consortium (Livestock farming and neighbouring residents' health study) Vega (vegetarians and ESBL carriage) LA_MRSA consortium SOM AR_IMPACT

Memberships

Scientific Advisory Group on Antimicrobials (SAGAM), European Medicines Agency, London, UK (2007_2013) Antimicrobials Working Party (AWP) of CVMP/European Medicines Agency (London) (2013_present) Antimicrobial Advice Ad Hoc Expert Group (AMEG) of EMA (2017_2019) Member of the expert group on the reserved Member of the editorial advisory board of Veterinary Microbiology Guest editor of Veterinary Microbiology (3x) Editor of the Journal of Antimicrobial Chemotherapy (2011_2020) Senior editor of the Journal of Antimicrobial Chemotherapy (2016_2020) Study Group for Veterinary Microbiology (ESGVM) of ESCMID (2015_present) Editorial board of Frontiers in Microbiology Dutch Society for Microbiology (NvVM) Member of the "Formulariumcommissie varken" Member of the "Formulariumcommissie paard" former member of the "Formulariumcommissie gezelschapsdieren"

Other Relevant Information

Supervisor and Co_promotor PhD defense Anouk Meijs "The role of animals in the epidemiology of antimicrobial resistance in humans", Leiden 2024; Supervisor Co_promotor PhD defense Patricia Huijbers "Transmission of antimicrobial resistance from animals to humans: broilers as a reservoir for ESBL-producing bacteria", Wageningen, 2016 An Vo "Antimicrobial resistance in Salmonella", Utrecht, 2007 Member of external examining committee and opponent at PhD defence Anneli van den Eede "Diagnosis, extent and implications of equine MRSA carriage", Ghent, 2013 Karin Bergström "Prevention and Control of methicillin resistant Staphylococcus aureus in equine hospitals in Sweden", Uppsala, 2013 Carmen Espinosa_Gongora "Epidemiology and control of livestock-associated methicillin-resistant Staphylococcus aureus", Copenhagen, 2012 Opponent at PhD defence Pawel Tulinski "Molecular and ecological aspects of MRSA ST398 colonization in pigs", Utrecht, 2013 Risma Ikawaty "New insights into molecular typing methods for Staphylococcus aureus", Utrecht, 2009 Marielle Melchior "Biofilms: implications for the therapy of bovine Staphylococcus aureus mastitis", Utrecht 2007