

Henrik Westh
Professor

Department of Clinical Microbiology

Type of address: Postal address.

445

Email: henrik.torkil.westh@regionh.dk

Email: Henrik.Torkil.Westh@regionh.dk



Curriculum Vitae 2013

Positions: Professor, University of Copenhagen. Consultant Microbiologist, Department of Clinical Microbiology, Hvidovre Hospital, Hvidovre, Denmark since 1997.

Responsibilities: Head of MRSA Knowledge Center. Consultant for Molecular Biology, Virology and Chlamydia section. Head of Research and Development. Founder and Member of Board, QuantiBact A/S.

Academic degrees: Medical doctor, University of Copenhagen 1980, Specialist in Clinical Microbiology 1994, Business Economy, Copenhagen College of Business 1992, Doctor of Medical Science 1996.

Areas of Expertise: Expert in MRSA, Infection control, HIV and Chlamydia. Has consulted for UNICEF (HIV-testing), for Euro Health Group (Laboratory implementation of a HIV treatment program in Mombasa, Kenya), The Danish National Board of Health, The Danish Environmental Protection Agency, The Danish Medicines Agency, The Danish Cancer Society. A founder of QuantiBact A/S, a Biotech company based on a patent by Henrik Westh and Gorm Lisby. Chairmen of Advisory board SeqNet.org.

Major Research Focus: The MRSA KnowledgeCenter has been established to control MRSA in our Region. Our research has a practical approach looking at evolution, epidemiology, typing, carriage, characteristics of patients' illnesses and outcomes, infection-control and eradication therapies with the goal of keeping MRSA out of hospitals.

More than 120 scientific papers and more than 250 presentations at International congresses and meetings. 2300 citations and h-index 27

Advisor of PhD students

PhD, MD Margit Staum Kaltoft. Streptococcus pneumoniae in childhood. 2003.

MD, DMSc Kristian Schønning. Antibody neutralization ved HIV-1. 2003

PhD Cand scient Nuno Faria. Molecular epidemiology of methicillin-resistant Staphylococcus aureus: typing strategies and epidemiology trends 2009.

PhD, MD Sidsel Böcher. The influence of eradication of MRSA carriage for spread of MRSA. 2010

PhD Cand scient Teresa Conceicao. New methods for typing staphylococci. 2010.

PhD MD Mette Damkjær Bartels. Evolution of Community onset MRSA in Copenhagen. 2011

PhD MD Uffe Schneider. Properties of twisted intercalated nucleic acid (TINA). 2011.

PhD student Cand scient Ana Tavares. Oeiras Portugal. Community associated MRSA in Portugal. 2008-

PhD student MD Sissel Skovgaard. How biocides modulate the population of Staphylococcus epidermidis. Submitted May 2013

PhD student MD Maria Frølund. New causes of urethritis. 2010-

PhD student MD Katrine Hartung Hansen, ESBL 2011-

PhD student Cand scient Mara Baldry Antivirulence Therapy (Marie Curie PhD scholarship) 2013-

PhD student MD Mette Pinholdt. Battling antimicrobial resistance by reducing importance of Enterococcus resistome. 2013-

International collaborating partners

Professor Herminia de Lencastre ITQB, Portugal, Professor Alexander Tomasz, Rockefeller University, NY, USA. Alex Friedrich and Bert Niesters, Groningen, The Netherlands. Uli Nübel, Wernigerode, Germany, Francois Balloux, London, UK, Rory Bowden, Oxford, UK.

Publications

Placental pathology of 153 SARS-CoV-2 positive women in relation to alpha, delta & omicron variations - a nested case-control study

Fich, L., Skau, A. M., Engel, U. H., Deshpande, V., Jørgensen, H. L., Westh, H., Lundgaard, A., Westergaard, D., Hviid, K., Madsen, E. P., Freiesleben, N. & Nielsen, H. S., 24 Jun 2026, In: Placenta. 181, p. 95-101 7 p.

Vaginal microbiota transplantation for treatment of vaginal dysbiosis without the use of antibiotics: a double-blind, randomised controlled trial in women with vaginal dysbiosis

Wrønding, T., Vomstein, K., Lundgaard, A. T., DeLong, K., Møllerup, S., Mortensen, B., Bosma, E. F., Hellerung, A. M., Engel, E. V., Wiil, K. D., Heintz, J. E., Halkjær, S. I., Hugerth, L. W., Hartwig, T. S., Petersen, A. M., Thomsen, A. B., Westergaard, D., la Cour Freiesleben, N., Westh, H. & van Hylckama Vlieg, J. E. T. & 2 others, Ensijn, L. M. & Nielsen, H.

S., Apr 2026, In: The Lancet. Microbe. 7, 4, 101294.

Remodeling of *Staphylococcus epidermidis* genome over three decades of nosocomial exposure

Rolo, J., Botelho, A., Espadinha, D., Worning, P., Sobral, R., Westh, H. & Miragaia, M., Jan 2026, In: Genomics. 118, 1, 111167.

A prospective cohort study of the rectal microbiome in patients with suspected appendicitis

Fonnes, S., Møllerup, S., Paulsen, S. J., Petersen, A. M., Holzknecht, B. J., Westh, H. & Rosenberg, J., 1 Sept 2025, In: Clinics and Research in Hepatology and Gastroenterology. 49, 8, p. 102675 102675.

Genetic Variation in the blaZ Gene Leading to the BORSA Phenotype in *Staphylococcus aureus*

Aarris, M., Hertz, F. B., Nielsen, K. L., Sato, A., Johansen, H. K., Westh, H., Kemp, M., Ellermann-Eriksen, S., Løbner-Olesen, A., Frimodt-Møller, N. & Charbon, G., 29 Apr 2025, In: Antibiotics. 14, 5, 12 p., 449.

One day in Denmark: whole-genome sequence-based analysis of *Escherichia coli* isolates from clinical settings

Rebello, A. R., Bortolaia, V., Leekitcharoenphon, P., Hansen, D. S., Nielsen, H. L., Ellermann-Eriksen, S., Kemp, M., Røder, B. L., Frimodt-Møller, N., Søndergaard, T. S., Coia, J. E., Østergaard, C., Westh, H. & Aarestrup, F. M., 2 Apr 2025, In: The Journal of antimicrobial chemotherapy. 80, 4, p. 1011-1021 11 p.

Maternal-Fetal Outcomes and Antibody Transfer, Depending on the Trimester of SARS-CoV-2 Infection in Non-Vaccinated Women-A Danish Nationwide Prospective Cohort Study

Fich, L., Christiansen, A.-M. H., Hviid, K. V. R., Aabakke, A. J. M., Hoffmann, E., Ingham, A., Ollé-López, J., Bello-Rodríguez, J., Juul-Larsen, H. G., Kelstrup, L., Perslev, K., Clausen, T. D., Rode, L., Vinter, C., Hedermann, G., Vestgaard, M. J., Farlie, R., Sørensen, A., Sundtoft, I. & Godtfredsen, A. C. & 17 others, Burmester, L. W., Lindman, J., Severinsen, E. R., Kann, C. E., Hansen, C. B., Petersen, M. M. B. S., Egerup, P., Zedeler, A., Boje, A. D., Bertelsen, M.-L. M. F., Prætorius, L., Kristensen, A. G., Jørgensen, F. S., Westh, H., Jørgensen, H. L., la Cour Freiesleben, N. & Nielsen, H. S., 12 Mar 2025, In: International Journal of Molecular Sciences. 26, 6, 2533.

Dried blood spot: A diagnostic detection method for HBV, HCV and HIV nucleic acid using a single drop of blood

Nilsson, S. S., Demant, J., Thønnings, S., Weis, N., Westh, H. & Pinholt, M., Mar 2025, In: Diagnostic Microbiology and Infectious Disease. 111, 3, 116661.

Minimum inhibitory concentration distribution of Mecillinam in clinical *Staphylococcus saprophyticus* isolates from Europe

Andreasen, M. R., Jansåker, F., Iversen, J., Lawal, O. U., Miragaia, M., Gonçalves, L., Paixão, P., Gonçalves, E., Toscano, C., Luzon, M. D., Urbaś, M., Jelsbak, L., Westh, H. & Knudsen, J. D., Mar 2025, In: Journal of Global Antimicrobial Resistance. 41, p. 253-257 5 p.

Genomic epidemiology of vancomycin-resistant *Enterococcus faecium* in Eastern Denmark from 2020 to 2022, and identification of vanB Tn1549 insertion sites

Knudsen, M. J. S., Castruita, J. A. S., Rubin, I. M. C., Møllerup, S., Johansen, H. K., Marvig, R. L., Nielsen, K. L., Holzknecht, B. J., Hoppe, M., Kemp, M., Westh, H. & Pinholt, M., 27 Feb 2025, In: European journal of clinical microbiology & infectious diseases : official publication of the European Society of Clinical Microbiology. 44, 6, p. 1425-1432 8 p.

Comparison of whole-genome sequencing-based analysis methods for taxonomic classification of isolates unclassified by MALDI-TOF MS

Møllerup, S., Paulsen, S. J., Pedersen, M. & Westh, H., 2025, In: FEMS Microbiology Letters. 372, fnaf120.

Investigation of mobile genetic elements and their association with antibiotic resistance genes in clinical pathogens worldwide

Johansson, M. H. K., Petersen, T. N., Nag, S., Lagermann, T. M. R., Birkedahl, L. E. K., Tafaj, S., Bradbury, S., Collignon, P., Daley, D., Dougnon, V., Fabiyi, K., Coulibaly, B., Dembélé, R., Magloire, N., Ouindgueta, I. J., Hossain, Z. Z., Begoum, A., Donchev, D., Diggle, M. & Turnbull, L. & 54 others, Lévesque, S., Berlinger, L., Søgaaard, K. K., Guevara, P. D., Duarte, C., Maikanti, P., Amlerova, J., Drevinek, P., Tkadlek, J., Dilas, M., Kaasch, A., Westh, H. T., Bachtarzi, M. A., Amhis, W., Salazar, C. E. S., Villacis, J. E., Lúzon, M. A. D., Palau, D. B., Duployez, C., Paluche, M., Asante-Sefa, S., Møller, M., Ip, M., Mareković, I., Pál-Sonnevend, A., Cocuzza, C. E., Dambrauskiene, A., Macanze, A., Cossa, A., Mandomando, I., Nwajjobi-Princewill, P., Okeke, I. N., Kehinde, A. O., Adebisi, I., Akintayo, I., Popoola, O., Onipede, A., Blomfeldt, A., Nyquist, N. E., Bocker, K., Ussher, J., Ali, A., Ullah, N., Khan, H., Gustafson, N. W., Jarrar, I., Al-Hamad, A., Luvira, V.,

Paveenkittiporn, W., Baran, I., Mwansa, J. C. L., Sikakwa, L., Yamba, K. & Aarestrup, F. M., 2025, In: PLoS One. 20, 8, e0330304.

Immune changes in pregnancy: associations with pre-existing conditions and obstetrical complications at the 20th gestational week-a prospective cohort study

Westergaard, D., Lundgaard, A. T., Vomstein, K., Fich, L., Hviid, K. V. R., Egerup, P., Christiansen, A.-M. H., Nielsen, J. R., Lindman, J., Holm, P. C., Hartwig, T. S., Jørgensen, F. S., Zedeler, A., Kolte, A. M., Westh, H., Jørgensen, H. L., la Cour Freiesleben, N., Banasik, K., Brunak, S. & Nielsen, H. S., 18 Dec 2024, In: BMC Medicine. 22, 1, 583.

Faecal sample storage without ethanol for up to 24 h followed by freezing performs better than storage with ethanol for shotgun metagenomic microbiome analysis in patients with inflammatory and non-inflammatory intestinal diseases and healthy controls

Grønbaek, I. M. B., Mollerup, S., Halkjær, S. I., Paulsen, S. J., Pinholt, M., Westh, H. & Petersen, A. M., 15 Nov 2024, In: BMC Research Notes. 17, 1, p. 340 340.

Development of a PCR assay for rapid and accurate detection of an emerging vanB Enterococcus faecium clone in the Capital Region of Denmark

Knudsen, M. J. S., Barker Jensen, C., Jørgensen, R. L., Petersen, A. M., Qvist Kristiansen, G., Lisby, J. G., Worning, P., Westh, H. & Pinholt, M., 7 Nov 2024, In: JAC-antimicrobial resistance. 6, 6, p. dlac180 dlac180.

The microbiome of the appendix differs in patients with and without appendicitis: A prospective cohort study

Fonnes, S., Mollerup, S., Paulsen, S. J., Holzkecht, B. J., Westh, H. & Rosenberg, J., Jun 2024, In: Surgery. 175, 6, p. 1482-1488 7 p.

Predicting the primary infection source of Escherichia coli bacteremia using virulence-associated genes

Ilsby, C. S., Hertz, F. B., Westh, H., Monk, J., Worning, P., Johansen, H. K., Hansen, K. H. & Pinholt, M., Apr 2024, In: European journal of clinical microbiology & infectious diseases : official publication of the European Society of Clinical Microbiology. 43, 4, p. 641-648 8 p.

Gonorrhoea on the rise in Denmark since 2022: distinct clones drive increase in heterosexual individuals

Pedersen, T. R., Wessman, M., Lindegaard, M., Hallstrøm, S., Westergaard, C., Brock, I., Dzajic, E., Holmgard, D. B., Salgård Jensen, C., Justesen, U. S., Kornum, J. B., Søndergaard, T. S., Thomsen, M. K., Westh, H., Ostergaard, C., Hoffmann, S. & Stegger, M., 15 Feb 2024, In: Rapid Communications in Mass Spectrometry. 29, 7, 2400059.

Long-term carriage and evolution of VREfmLong-term carriage and evolution of vancomycin-resistant Enterococcus faecium: a genomic study on consecutive isolates

Knudsen, M. J. S., Samaniego Castruita, J. A., Mollerup, S., Holzkecht, B. J., Hoppe, M., Westh, H., Pinholt, M. & Rubin, I. M. C., Feb 2024, In: JAC-antimicrobial resistance. 6, 1, p. dlad153 dlad153.

The impact of acute SARS-CoV-2 on testicular function including insulin-like factor 3 [INSL3] in men with mild COVID-19: A longitudinal study

Lauritsen, M. P., Kristensen, T. L., Bo Hansen, C., Schneider, U. V., Talbot, A. L., Skytte, A.-B., Petersen, J. H., Johannsen, T. H., Zedeler, A., Albrethsen, J., Juul, A., Priskorn, L., Jørgensen, N., Westh, H., Freiesleben, N. L. C. & Nielsen, H. S., Feb 2024, In: Andrology. 12, 2, p. 437-446 10 p.

Within-host genomic evolution of methicillin-resistant Staphylococcus aureus in long-term carriers

Larsen, T. G., Worning, P., Samaniego Castruita, J. A., Westh, H. & Bartels, M. D., 11 Jan 2024, In: Applied microbiology and biotechnology. 108, 1, p. 95 9 p.

Whole genomes from bacteria collected at diagnostic units around the world 2020

Nag, S., Larsen, G., Szarvas, J., Birkedahl, L. E. K., Gulyás, G. M., Ciok, W. J., Lagermann, T. M., Tafaj, S., Bradbury, S., Collignon, P., Daley, D., Dougnon, V., Fabiyi, K., Coulibaly, B., Dembélé, R., Nikiema, G., Magloire, N., Ouindgueta, I. J., Hossain, Z. Z. & Begum, A. & 58 others, Donchev, D., Diggie, M., Turnbull, L., Lévesque, S., Berlinger, L., Sogaard, K. K., Guevara, P. D., Valderrama, C. D., Maikanti, P., Amlerova, J., Drevinek, P., Tkadlec, J., Dilas, M., Kaasch, A., Westh, H. T., Bachtarzi, M. A., Amhis, W., Salazar, C. E. S., Villacis, J., Lúzon, M. A. D., Palau, D. B., Duployez, C., Paluche, M., Asante-Sefa, S., Moller, M., Ip, M., Mareković, I., Pál-Sonnevend, A., Cocuzza, C. E., Dambrauskiene, A., Macanze, A., Cossa, A., Mandomando, I., Nwajobi-Princewill, P., Okeke, I. N., Kehinde, A. O., Adebisi, I., Akintayo, I., Popoola, O., Onipede, A., Blomfeldt, A., Nyquist, N. E., Bocker, K., Ussher, J., Ali, A., Ullah, N., Khan, H., Gustafson, N. W., Jarrar, I.,

Al-Hamad, A., Luvira, V., Paveenkittiporn, W., Baran, I., Mwansa, J. C. L., Sikakwa, L., Yamba, K., Hendriksen, R. S. & Aarestrup, F. M., 16 Sept 2023, In: *Scientific Data*. 10, 1, p. 628 628.

Immune Changes in Pregnancy: Associations with Pre-existing Conditions and Obstetrical Complications at the 20th Gestational Week - A Prospective Cohort Study

Westergaard, D., Lundgaard, A. T., Vomstein, K., Olsen, L. F., Hviid, K. V. R., Egerup, P., Christiansen, A.-M. H., Nielsen, J. R., Lindman, J., Holm, P. C., Hartwig, T. S., Jørgensen, F. S., Zedeler, A., Kolte, A. M., Westh, H., Jørgensen, H. L., Freiesleben, N. L. C., Banasik, K., Brunak, S. & Svarre Nielsen, H., 15 Aug 2023, (medRxiv : the preprint server for health sciences).

Antibiotic-free vaginal microbiota transplant with donor engraftment, dysbiosis resolution and live birth after recurrent pregnancy loss: a proof of concept case study

Wrønding, T., Vomstein, K., Bosma, E. F., Mortensen, B., Westh, H., Heintz, J. E., Møllerup, S., Petersen, A. M., Ensign, L. M., DeLong, K., van Hylckama Vlieg, J. E. T., Thomsen, A. B. & Nielsen, H. S., Jul 2023, In: *EClinicalMedicine*. 61, p. 102070 102070.

Diarrhoea-causing microorganisms are rare in adult patients undergoing diagnostic laparoscopy for suspected appendicitis: a prospective observational cohort study

Fonnes, S., Rasmussen, T., Holzkecht, B. J., Olesen, C. S., Olsen, J. H. H., Schmidt, L., Alder, R., Sørensen, S. G., Gülen, S., Klarskov, L. L., Krogh, K. A., Westh, H. & Rosenberg, J., Jun 2023, In: *APMIS - Journal of Pathology, Microbiology and Immunology*. 131, 6, p. 284-293 10 p.

Whole genome sequencing reveals two genetically distinct MRSA outbreaks among people who inject drugs and homeless people in Copenhagen

Bartels, M. D., Holm, M. K. A., Worning, P., Stavad, B., Schneider, U. V., Meiniche, H., Thiesen, H. & Westh, H., Jun 2023, In: *APMIS - Journal of Pathology, Microbiology and Immunology*. 131, 6, p. 294-302 9 p.

SARS-CoV-2 spike mRNA vaccine sequences circulate in blood up to 28 days after COVID-19 vaccination

Samaniego Castruita, J. A., Schneider, U. V., Møllerup, S., Leineweber, T. D., Weis, N., Bukh, J., Pedersen, M. S. & Westh, H., Mar 2023, In: *APMIS - Journal of Pathology, Microbiology and Immunology*. 131, 3, p. 128-132 5 p.

Estimated Roles of the Carrier and the Bacterial Strain When Methicillin-Resistant Staphylococcus aureus Decolonization Fails: a Case-Control Study

Holm, M. K. A., Jørgensen, K. M., Bagge, K., Worning, P., Pedersen, M., Westh, H., Monk, J. M. & Bartels, M. D., 26 Oct 2022, In: *Microbiology spectrum*. 10, 5, p. 1-12 12 p., e0129622.

Synbiotic Intervention with Lactobacilli, Bifidobacteria, and Inulin in Healthy Volunteers Increases the Abundance of Bifidobacteria but Does Not Alter Microbial Diversity

Rubin, I. M. C., Møllerup, S., Broholm, C., Baker, A., Holm, M. K. A., Pedersen, M. S., Pinholt, M., Westh, H. & Petersen, A. M., 11 Oct 2022, In: *Applied and Environmental Microbiology*. 88, 19, p. e0108722

Emergence of circulating influenza A H3N2 viruses with genetic drift in the matrix gene: Be alert of false negative test results

Jørgensen, R. L., Lerche, C. J., Pedersen, M. S., Kirkby, N., Botnen, A. B., Trebbien, R., Nilsson-Møller, S., Pinholt, M., Nielsen, A. C. Y., Westh, H., Lisby, J. G. & Schneider, U. V., Oct 2022, In: *APMIS - Journal of Pathology, Microbiology and Immunology*. 130, 10, p. 612-617 6 p.

Rapid in vivo development of resistance to daptomycin in vancomycin-resistant Enterococcus faecium due to genomic alterations

Møllerup, S., Elmeskov, C., Pinholt, M., Sejersen, T. S., Pedersen, M. S., Worning, P., Frees, D. & Westh, H., 13 Aug 2022, In: *FEMS Microbiology Letters*. 369, 1, fnac063.

No Effect of Lactobacillus rhamnosus GG on Eradication of Colonization by Vancomycin-Resistant Enterococcus faecium or Microbiome Diversity in Hospitalized Adult Patients

Rubin, I. M. C., Møllerup, S., Broholm, C., Knudsen, S. B., Baker, A., Helms, M., Holm, M. K. A., Kallemose, T., Westh, H., Dahl Knudsen, J., Pinholt, M. & Petersen, A. M., 29 Jun 2022, In: *Microbiology spectrum*. 10, 3, e0234821.

A randomized, placebo-controlled, double-blinded trial of MRSA throat carriage treatment, with either standard decolonization alone or in combination with oral clindamycin

Holm, M. K. A., Meiniche, H. K., Pedersen, M., Eriksen, H. B., Westh, H., Holzknicht, B. J. & Bartels, M. D., 16 Jun 2022, In: *Trials*. 23, 1, p. 1-8 8 p., 502.

One Day in Denmark: Comparison of Phenotypic and Genotypic Antimicrobial Susceptibility Testing in Bacterial Isolates From Clinical Settings

Rebelo, A. R., Bortolaia, V., Leekitcharoenphon, P., Hansen, D. S., Nielsen, H. L., Ellermann-Eriksen, S., Kemp, M., Røder, B. L., Frimodt-Møller, N., Søndergaard, T. S., Coia, J. E., Østergaard, C., Westh, H. & Aarestrup, F. M., 10 Jun 2022, In: *Frontiers in Microbiology*. 13, p. 804627 804627.

Attributable mortality of vancomycin resistance in ampicillin-resistant *Enterococcus faecium* bacteremia in Denmark and the Netherlands: A matched cohort study

Rottier, W. C., Pinholt, M., Van Der Bij, A. K., Arpi, M., Blank, S. N., Nabuurs-Franssen, M. H., Ruijs, G. J. H. M., Tersmette, M., Ossewaarde, J. M., Groenwold, R. H., Westh, H. & Bonten, M. J. M., Jun 2022, In: *Infection Control and Hospital Epidemiology*. 43, 6, p. 719-727 9 p.

The use of core genome multilocus sequence typing to determine the duration of vancomycin-resistant *Enterococcus faecium* outbreaks

Søndergaard Knudsen, M., Maria Cecilia Rubin, I., Gisselø, K., Møllerup, S., Munk Petersen, A., Pinholt, M., Westh, H. & Damkjaer Bartels, M., Jun 2022, In: *APMIS - Journal of Pathology, Microbiology and Immunology*. 130, 6, p. 323-329 7 p., 13216.

Topical niclosamide (ATx201) reduces *Staphylococcus aureus* colonization and increases Shannon diversity of the skin microbiome in atopic dermatitis patients in a randomized, double-blind, placebo-controlled Phase 2 trial

Weiss, A., Delavenne, E., Matias, C., Lagler, H., Simon, D., Li, P., Hansen, J. U., Dos Santos, T. P., Jana, B., Priemel, P., Bangert, C., Bauer, M., Eberl, S., Nussbaumer-Pröll, A., Anne Österreicher, Z., Matzneller, P., Quint, T., Weber, M., Nielsen, H. M. & Rades, T. & 17 others, Johansen, H. K., Westh, H., Kim, W., Mylonakis, E., Friis, C., Guardabassi, L., Pace, J., Lundberg, C. V., M'Zali, F., Butty, P., Sørensen, N., Nielsen, H. B., Toft-Kehler, R., Guttman-Yassky, E., Stingl, G., Zeitlinger, M. & Sommer, M., May 2022, In: *Clinical and Translational Medicine*. 12, 5, p. 1-21 21 p., e790.

One Day in Denmark: Nationwide point-prevalence survey of human bacterial isolates and comparison of classical and whole-genome sequence-based species identification methods

Rebelo, A. R., Ibfelt, T., Bortolaia, V., Leekitcharoenphon, P., Hansen, D. S., Nielsen, H. L., Ellermann-Eriksen, S., Kemp, M., Røder, B. L., Frimodt-Møller, N., Søndergaard, T. S., Coia, J. E., Østergaard, C., Pedersen, M., Westh, H. & Aarestrup, F. M., 11 Feb 2022, In: *PLoS One*. 17, 2, p. 1-17 17 p., e0261999.

Genomic analysis of 600 vancomycin-resistant *Enterococcus faecium* reveals a high prevalence of ST80 and spread of similar *vanA* regions via IS1216E and plasmid transfer in diverse genetic lineages in Ireland

Egan, S. A., Kavanagh, N. L., Shore, A. C., Møllerup, S., Samaniego Castruita, J. A., O'Connell, B., McManus, B. A., Brennan, G. I., Pinholt, M., Westh, H. & Coleman, D. C., 2 Feb 2022, In: *The Journal of antimicrobial chemotherapy*. 77, 2, p. 320-330 11 p., dkab393.

Substantial Decrease in Vancomycin-Resistant *Enterococcus faecium* Outbreak Duration and Number of Patients During the Danish COVID-19 Lockdown: A Prospective Observational Study

Gisselø, K. L., Rubin, I. M. C., Knudsen, M. S., From-Hansen, M., Stangerup, M., Kavalari, C. P., Pinholt, M., Møllerup, S., Westh, H., Bartels, M. D. & Petersen, A. M., Jan 2022, In: *Microbial drug resistance (Larchmont, N.Y.)*. 28, 1, p. 73-80 8 p.

Next-generation sequencing in routine clinical microbiology and infectious diseases: an ESGMD-ESGEM ESCMID postgraduate course

Aamot, H. V., Claas, E. C. J., Couto, N., Westh, H., Greub, G. & Rossen, J., 2022, In: *ScienceDirect Connections Newsletter*. 49-50

Forekomst af SARS-CoV-2 i sæd og påvirkning af de mandlige reproduktive organer ved COVID-19

Hansen, C. B., Leineweber, T. D., Jørgensen, N., Schneider, U. V., Westh, H., Freiesleben, N. L. C., Svarre Nielsen, H. & Lauritsen, M. P., 20 Dec 2021, In: *Ugerskrift for Læger*. 183, V07210573, p. 1 9 p.

Presence of SARS-CoV-2 in semen and the impact of COVID-19 on the male reproductive system

Hansen, C. B., Leineweber, T. D., Jørgensen, N., Schneider, U. V., Westh, H., Freiesleben, N. L. C., Nielsen, H. S. & Lauritsen, M. P., 20 Dec 2021, In: Ugeskrift for Læger. 183, 51, p. 1-9 9 p., V07210573.

Danish Whole-Genome-Sequenced *Candida albicans* and *Candida glabrata* Samples Fit into Globally Prevalent Clades

Szarvas, J., Rebelo, A. R., Bortolaia, V., Leekitcharoenphon, P., Schrøder Hansen, D., Nielsen, H. L., Nørskov-Lauritsen, N., Kemp, M., Røder, B. L., Frimodt-Møller, N., Søndergaard, T. S., Coia, J. E., Østergaard, C., Westh, H. & Aarestrup, F. M., 12 Nov 2021, In: Journal of fungi (Basel, Switzerland). 7, 11, p. 1-12 12 p., 962.

A major outbreak of covid-19 at a residential care home

Andersen, C. Ø., Buch, I., Castruita, J. A. S., Jakobsen, N. G., Jensen, C. B., Westh, H., Marvig, R. L., Pedersen, M. S., Schønning, K. & Pinholt, M., 1 Oct 2021, In: Danish Medical Journal. 68, 10, A03210227.

Evaluation of the Hologic Panther Fusion MRSA Assay for the detection of MRSA in ESwab specimens obtained from nose, throat, and perineum

Bartels, M. D., Knudsen, D., Westh, H. & Schønning, K., Oct 2021, In: European journal of clinical microbiology & infectious diseases : official publication of the European Society of Clinical Microbiology. 40, 10, p. 2177-2183 7 p.

Investigation of the introduction and dissemination of vanB *Enterococcus faecium* in the Capital Region of Denmark and development of a rapid and accurate clone-specific vanB *E. faecium* PCR

Pinholt, M., Møllerup, S., Boye, K., Worning, P., Holzknicht, B. J., Nygaard, S., Nielsen, K. L., Hasman, H., Roer, L., Hammerum, A. M., Westh, H. & Schønning, K., Sept 2021, In: The Journal of antimicrobial chemotherapy. 76, 9, p. 2260-2267 8 p., dkab198.

***Staphylococcus saprophyticus* Causing Infections in Humans Is Associated with High Resistance to Heavy Metals**

Lawal, O. U., Fraqueza, M. J., Worning, P., Bouchami, O., Bartels, M. D., Goncalves, L., Paixão, P., Goncalves, E., Toscano, C., Empel, J., Urbaś, M., Domínguez, M. A., Westh, H., de Lencastre, H. & Miragaia, M., 17 Jun 2021, In: Antimicrobial Agents and Chemotherapy. 65, 7, p. 1-17 17 p., e0268520.

***Staphylococcus saprophyticus* From Clinical and Environmental Origins Have Distinct Biofilm Composition**

Lawal, O. U., Barata, M., Fraqueza, M. J., Worning, P., Bartels, M. D., Goncalves, L., Paixão, P., Goncalves, E., Toscano, C., Empel, J., Urbaś, M., Domínguez, M. A., Westh, H., de Lencastre, H. & Miragaia, M., 7 Jun 2021, In: Frontiers in Microbiology. 12, p. 1-13 13 p., 663768.

Rapid Open-Source SNP-Based Clustering Offers an Alternative to Core Genome MLST for Outbreak Tracing in a Hospital Setting

Szarvas, J., Bartels, M. D., Westh, H. & Lund, O., 1 Apr 2021, In: Frontiers in Microbiology. 12, p. 1-8 8 p., 636608.

The global dissemination of hospital clones of *Enterococcus faecium*

van Hal, S. J., Willems, R. J. L., Gouliouris, T., Ballard, S. A., Coque, T. M., Hammerum, A. M., Hegstad, K., Westh, H., Howden, B. P., Malhotra-Kumar, S., Werner, G., Yanagihara, K., Earl, A. M., Raven, K. E., Corander, J., Bowden, R. & Enterococcal Group, 30 Mar 2021, In: Genome Medicine. 13, 1, p. 1-12 12 p., 52.

Foodborne Origin and Local and Global Spread of *Staphylococcus saprophyticus* Causing Human Urinary Tract Infections

Lawal, O. U., Fraqueza, M. J., Bouchami, O., Worning, P., Bartels, M. D., Gonçalves, M. L., Paixão, P., Gonçalves, E., Toscano, C., Empel, J., Urbaś, M., Domínguez, M. A., Westh, H., de Lencastre, H. & Miragaia, M., Mar 2021, In: Emerging Infectious Diseases. 27, 3, p. 880-893 14 p.

Repeated introduction and spread of the MRSA clone t304/ST6 in Northern Europe

Bartels, M. D., Worning, P., Andersen, L. P., Bès, M., Enger, H., Ås, C. G., Hansen, T. A., Holzknicht, B. J., Larssen, K. W., Laurent, F., Mäkitalo, B., Pichon, B., Svartström, O. & Westh, H., Feb 2021, In: Clinical Microbiology and Infection. 27, 2, p. 284.e1-284.e5

Prevalence of MRSA nasal carriage among pregnant women in Copenhagen

Holm, M. K. A., Winther, T. N., Kammann, S., Rasmusson, M. S., Brooks, L., Westh, H. & Bartels, M. D., 29 Jan 2021, In: PLoS One. 16, 1, p. 1-6 6 p., e0246343.

Sex-associated Risk Factors for Co-infection with Chlamydia trachomatis and Neisseria gonorrhoea among Patients Presenting to a Sexually Transmitted Infection Clinic

Barati Sedeh, F., Thomsen, S. F., Larsen, H. K., Westh, H. & Salado-Rasmussen, K., 4 Jan 2021, In: Acta Dermato-Venereologica. 101, 1, p. 1-7 7 p., adv00356.

SARS-CoV-2 in first trimester pregnancy: a cohort study

la Cour Freiesleben, N., Egerup, P., Vauvert Römmelmayer Hviid, K., Rosenbek Severinsen, E., Kolte, A. M., Westergaard, D., Fich Olsen, L., Prætorius, L., Zedeler, A., Hellerung Christiansen, A.-M., Reinhardt Nielsen, J., Bang, D., Berntsen, S., Ollé-López, J., Ingham, A., Bello-Rodríguez, J., Marie Storm, D., Ethelberg-Findsen, J., Hoffmann, E. R. & Wilken-Jensen, C. & 4 others, Stener Jørgensen, F., Westh, H., Løvendahl Jørgensen, H. & Nielsen, H. S., 1 Jan 2021, In: Human reproduction (Oxford, England). 36, 1, p. 40-47 8 p., deaa311.

Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) Antibodies at Delivery in Women, Partners, and Newborns

Egerup, P., Fich Olsen, L., Christiansen, A.-M. H., Westergaard, D., Severinsen, E. R., Hviid, K. V. R., Kolte, A. M., Boje, A. D., Bertelsen, M.-L. M. F., Prætorius, L., Zedeler, A., Nielsen, J. R., Bang, D., Berntsen, S., Ethelberg-Findsen, J., Storm, D. M., Bello-Rodríguez, J., Ingham, A., Ollé-López, J. & Hoffmann, E. R. & 7 others, Wilken-Jensen, C., Krebs, L., Jørgensen, F. S., Westh, H., Jørgensen, H. L., la Cour Freiesleben, N. & Nielsen, H. S., 1 Jan 2021, In: Obstetrics and Gynecology. 137, 1, p. 49-55 7 p., 0000000000004199.

A roadmap for the generation of benchmarking resources for antimicrobial resistance detection using next generation sequencing

Petrillo, M., Fabbri, M., Kagkli, D. M., Querci, M., Van den Eede, G., Alm, E., Aytan-Aktug, D., Capella-Gutierrez, S., Carrillo, C., Cestaro, A., Chan, K.-G., Coque, T., Endrullat, C., Gut, I., Hammer, P., Kay, G. L., Madec, J.-Y., Mather, A. E., McHardy, A. C. & Naas, T. & 11 others, Paracchini, V., Peter, S., Pightling, A., Raffael, B., Rossen, J., Ruppé, E., Schlaberg, R., Vanneste, K., Weber, L. M., Westh, H. & Angers-Loustau, A., 2021, In: F1000Research. 10, p. 1-37 37 p., 80.

ResFinder 4.0 for predictions of phenotypes from genotypes

Bortolaia, V., Kaas, R. S., Ruppe, E., Roberts, M. C., Schwarz, S., Cattoir, V., Philippon, A., Allesoe, R. L., Rebelo, A. R., Florensa, A. F., Fagelhauer, L., Chakraborty, T., Neumann, B., Werner, G., Bender, J. K., Stingl, K., Nguyen, M., Coppens, J., Xavier, B. B. & Malhotra-Kumar, S. & 15 others, Westh, H., Pinholt, M., Anjum, M. F., Duggett, N. A., Kempf, I., Nykäsenoja, S., Oikkola, S., Wiczorek, K., Amaro, A., Clemente, L., Mossong, J., Losch, S., Ragimbeau, C., Lund, O. & Aarestrup, F. M., 1 Dec 2020, In: The Journal of antimicrobial chemotherapy. 75, 12, p. 3491-3500 10 p.

Clinical Manifestations in Children with Staphylococcal Bacteremia Positive for Panton-Valentine Leucocidin: A Nationwide Survey in a Low Methicillin-Resistance Setting

Bybeck Nielsen, A., Larsen, A. R., Petersen, A., Schønheyder, H. C., Westh, H., Benfield, T. & Nygaard, U., Sept 2020, In: The Pediatric infectious disease journal. 39, 9, p. 274-276 3 p.

Association between vancomycin-resistant Enterococcus faecium colonization and subsequent infection: a retrospective WGS study

Rubin, I. M. C., Pedersen, M. S., Møllerup, S., Kaya, H., Petersen, A. M., Westh, H. & Pinholt, M., 1 Jul 2020, In: The Journal of antimicrobial chemotherapy. 75, 7, p. 1712-1715 4 p.

Sensitivity, specificity, inclusivity and exclusivity of the updated Aptima Combo 2 assay, which provides detection coverage of the new diagnostic-escape Chlamydia trachomatis variants

Unemo, M., Hansen, M., Hadad, R., Puolakkainen, M., Westh, H., Rantakokko-Jalava, K., Thilesen, C., Cole, M. J., Boiko, I., Lan, P. T., Golparian, D., Ito, S. & Sundqvist, M., 16 Jun 2020, In: BMC Infectious Diseases. 20, 1, p. 1-6 6 p., 419.

A Chlamydia trachomatis 23S rRNA G1523A variant escaping detection in the Aptima Combo 2 assay (Hologic) was widespread across Denmark in July-September 2019

Hadad, R., Skov Jensen, J., Westh, H., Grønbaek, I., Jessen Schwartz, L., Nielsen, L., Müller Vang, T., Nielsen, R., Sandborg Weinreich, L., Skov, M. N., Olsen, M., Kjølseth Møller, J., Kolmos, B., Unemo, M. & Hoffmann, S., Jun 2020, In: APMIS - Journal of Pathology, Microbiology and Immunology. 128, 6, p. 440-444 5 p.

Core genome multi-locus sequence typing as an essential tool in a high-cost livestock-associated methicillin-resistant *Staphylococcus aureus* CC398 hospital outbreak

Slott Jensen, M. L., Skov, M. N., Kristiansen, H. P., Toft, A., Lundgaard, H., Gumpert, H., Westh, H., Holm, A., Kolmos, H. J. & Kemp, M., Apr 2020, In: The Journal of hospital infection. 104, 4, p. 574-581 8 p.

Aktuel kighosteepidemi - hvad skal jeg vide?

Ignatiussen, M., Westh, H. & Bartels, M. D., Feb 2020, In: Månedsskrift for Almen Praksis. p. 889-893 5 p.

Evolution and Global Transmission of a Multidrug-Resistant, Community-Associated Methicillin-Resistant *Staphylococcus aureus* Lineage from the Indian Subcontinent

Steinig, E. J., Duchene, S., Robinson, D. A., Monecke, S., Yokoyama, M., Laabei, M., Slickers, P., Andersson, P., Williamson, D., Kearns, A., Goering, R. V., Dickson, E., Ehricht, R., Ip, M., O'Sullivan, M. V. N., Coombs, G. W., Petersen, A., Brennan, G., Shore, A. C. & Coleman, D. C. & 18 others, Pantosti, A., de Lencastre, H., Westh, H., Kobayashi, N., Heffernan, H., Strommenger, B., Layer, F., Weber, S., Aamot, H. V., Skakni, L., Peacock, S. J., Sarovich, D., Harris, S., Parkhill, J., Massey, R. C., Holden, M. T. G., Bentley, S. D. & Tong, S. Y. C., 26 Nov 2019, In: mBio. 10, 6, p. 1-20 20 p., e01105-19.

Resistance to piperacillin/tazobactam in *Escherichia coli* resulting from extensive IS26-associated gene amplification of blaTEM-1

Hansen, K. H., Andreasen, M. R., Pedersen, M. S., Westh, H., Jelsbak, L. & Schønning, K., 1 Nov 2019, In: The Journal of antimicrobial chemotherapy. 74, 11, p. 3179-3183 5 p.

Trends and prediction of antimicrobial susceptibility in urinary bacteria isolated in European emergency departments: the EuroUTI 2010-2016 Study

Westh, H. (Member of author group), Pedersen, M. (Member of author group) & EuroUTI 2010-2016 Study Group , 1 Oct 2019, In: The Journal of antimicrobial chemotherapy. 74, 10, p. 3069-3076 8 p.

Implications of identifying the recently defined members of the *Staphylococcus aureus* complex *S. argenteus* and *S. schweitzeri*: A position paper of members of the ESCMID Study Group for staphylococci and Staphylococcal Diseases (ESGS)

Becker, K., Schaumburg, F., Kearns, A., Larsen, A. R., Lindsay, J. A., Skov, R. L. & Westh, H., Sept 2019, In: Clinical microbiology and infection : the official publication of the European Society of Clinical Microbiology and Infectious Diseases. 25, 9, p. 1064-1070 7 p.

Prevalence and treatment of group B streptococcus colonization based on risk factors versus intrapartum culture screening

Johansen, N. R., Kjærbye-Thygesen, A., Jønsson, S., Westh, H., Nilas, L. & Rørbye, C., Sept 2019, In: European journal of obstetrics, gynecology, and reproductive biology. 240, p. 178-181 4 p.

Surveillance of vancomycin-resistant enterococci reveals shift in dominating clones and national spread of a vancomycin-variable vanA *Enterococcus faecium* ST1421-CT1134 clone, Denmark, 2015 to March 2019

Hammerum, A. M., Justesen, U. S., Pinholt, M., Roer, L., Kaya, H., Worning, P., Nygaard, S., Kemp, M., Clausen, M. E., Nielsen, K. L., Samulionienė, J., Kjærsgaard, M., Østergaard, C., Coia, J., Søndergaard, T. S., Gaini, S., Schønning, K., Westh, H., Hasman, H. & Holzkecht, B. J., Aug 2019, In: Eurosurveillance. 24, 34

WGS of 1058 *Enterococcus faecium* from Copenhagen, Denmark, reveals rapid clonal expansion of vancomycin-resistant clone ST80 combined with widespread dissemination of a vanA-containing plasmid and acquisition of a heterogeneous accessory genome

Pinholt, M., Bayliss, S. C., Gumpert, H., Worning, P., Jensen, V. V. S., Pedersen, M., Feil, E. J. & Westh, H., Jul 2019, In: The Journal of antimicrobial chemotherapy. 74, 7, p. 1776-1785 10 p.

Ceftriaxone-resistant *Salmonella enterica* serotype Typhi in a pregnant traveller returning from Karachi, Pakistan to Denmark, 2019

Engsbro, A. L., Riis Jespersen, H. S., Goldschmidt, M. I., Møllerup, S., Worning, P., Pedersen, M. S., Westh, H. & Schneider, U. V., 23 May 2019, In: Eurosurveillance. 24, 21

Eradicating MRSA carriage: the impact of throat carriage and Panton-Valentine leukocidin genes on success rates
Bagge, K., Benfield, T., Westh, H. & Bartels, M. D., Apr 2019, In: European journal of clinical microbiology & infectious diseases : official publication of the European Society of Clinical Microbiology. 38, 4, p. 683-688 6 p.

Increased risk of Staphylococcus aureus bacteremia in hemodialysis-A nationwide study
Chaudry, M. S., Gislason, G. H., Kamper, A.-L., Rix, M., Larsen, A. R., Petersen, A., Andersen, P. S., Skov, R. L., Fosbøl, E. L., Westh, H., Schønheyder, H. C., Benfield, T. L., Fowler, V. G., Torp-Pedersen, C. & Bruun, N. E., Apr 2019, In: Hemodialysis international. International Symposium on Home Hemodialysis. 23, 2, p. 230-238 9 p.

Evolution of the β -lactam-resistant Streptococcus pneumoniae PMEN3 clone over a 30year period in Barcelona, Spain
Càmara, J., Cubero, M., Martín-Galiano, A. J., García, E., Grau, I., Nielsen, J. B., Worning, P., Tubau, F., Pallarés, R., Domínguez, M. Á., Kilian, M., Liñares, J., Westh, H. & Ardanuy, C., Nov 2018, In: Journal of Antimicrobial Chemotherapy. 73, 11, p. 2941-2951

European external quality assessments for identification, molecular typing and characterization of Staphylococcus aureus
Study Group on Staphylococci and Staphylococcal Infections (ESGS) of ESCMID, 1 Oct 2018, In: The Journal of antimicrobial chemotherapy. 73, 10, p. 2662-2666

Update on prevalence and mechanisms of resistance to linezolid, tigecycline and daptomycin in enterococci in Europe: Towards a common nomenclature
Bender, J. K., Cattoir, V., Hegstad, K., Sadowy, E., Coque, T. M., Westh, H., Hammerum, A. M., Schaffer, K., Burns, K., Murchan, S., Novais, C., Freitas, A. R., Peixe, L., Del Grosso, M., Pantosti, A. & Werner, G., 1 Sept 2018, In: Drug resistance updates : reviews and commentaries in antimicrobial and anticancer chemotherapy. 40, p. 25-39 15 p.

A Sporadic Four-Year Hospital Outbreak of a ST97-IVa MRSA With Half of the Patients First Identified in the Community
Rubin, I. M., Hansen, T. A., Klingenberg, A. M., Petersen, A. M., Worning, P., Westh, H. & Bartels, M. D., 1 Aug 2018, In: Frontiers in Microbiology. 9, 1494

Emergence of a vancomycin-variable Enterococcus faecium ST1421 strain containing a deletion in vanX
Hansen, T. A., Pedersen, M. S., Nielsen, L. G., Ma, C. M. G., Søres, L. M., Worning, P., Østergaard, C., Westh, H., Pinholt, M. & Schønning, K., 1 Aug 2018, In: Journal of Antimicrobial Chemotherapy. 73, 11, p. 2936-2940

Analytical performance of the Hologic Aptima HBV Quant Assay and the COBAS Ampliprep/COBAS TaqMan HBV test v2.0 for the quantification of HBV DNA in plasma samples
Schønning, K., Johansen, K., Nielsen, L. G., Weis, N. & Westh, H., Jun 2018, In: Journal of clinical virology : the official publication of the Pan American Society for Clinical Virology. 104, p. 83-88

Gonorrhoea

Tolstrup, J., Westh, H. & Vestergaard, T., 14 May 2018, In: Ugeskrift for Laeger. 180, 20

Clinical and analytical evaluation of the new Aptima Mycoplasma genitalium assay, with data on M. genitalium prevalence and antimicrobial resistance in M. genitalium in Denmark, Norway and Sweden in 2016
Unemo, M., Salado-Rasmussen, K., Hansen, M., Olsen, A. O., Falk, M., Golparian, D., Aasterød, M., Ringlander, J., Steczko Nilsson, C., Sundqvist, M., Schønning, K., Moi, H., Westh, H. & Jensen, J. S., 1 May 2018, In: Clinical microbiology and infection : the official publication of the European Society of Clinical Microbiology and Infectious Diseases. 24, 5, p. 533-539

Genomics-Based Identification of Microorganisms in Human Ocular Body Fluid

Kirstahler, P., Bjerrum, S. S., Friis-Møller, A., la Cour, M., Aarestrup, F. M., Westh, H. & Pamp, S. J., 1 May 2018, In: Scientific Reports. 8, 4126

Identification of a PVL-negative SCCmec-IVa sub-lineage of the methicillin-resistant Staphylococcus aureus CC80 lineage: Understanding the clonal origin of CA-MRSA

Edslev, S. M., Westh, H. T., Andersen, P. S., Skov, R., Kobayashi, N., Bartels, M. D., Vandenesch, F., Petersen, A., Worning, P., Larsen, A. R. & Stegger, M., Mar 2018, In: Clinical microbiology and infection : the official publication of the European Society of Clinical Microbiology and Infectious Diseases. 24, 3, p. 273-278

Use of a Regression Model to Study Host-Genomic Determinants of Phage Susceptibility in MRSA

Zschach, H., Larsen, M. V., Hasman, H., Westh, H., Nielsen, M., Międzybrodzki, R., Jończyk-Matysiak, E., Weber-Dąbrowska, B. & Górski, A., 1 Feb 2018, In: *Antibiotics*. 7, 1

Pelvic inflammatory disease risk following negative results from chlamydia nucleic acid amplification tests (NAATs) versus non-NAATs in Denmark: A retrospective cohort

Davies, B., Turner, K. M. E., Benfield, T., Frølund, M., Andersen, B., Westh, H., Ward, H. & Danish Chlamydia Study, 1 Jan 2018, In: *PLOS Medicine*. 15, 1

Gonorrhé

Tolstrup, J., Westh, H. & Vestergaard, T., 2018, In: *Ugeskrift for Laeger*. 180, p. 2-5

Susceptibility of vancomycin-resistant and -sensitive *Enterococcus faecium* obtained from Danish hospitals to benzalkonium chloride, chlorhexidine and hydrogen peroxide biocides

Alotaibi, S. M. I., Ayibieke, A., Pedersen, A. F., Jakobsen, L., Pinholt, M., Gumpert, H., Hammerum, A. M., Westh, H. & Ingmer, H., 14 Nov 2017, In: *Journal of Medical Microbiology*. p. 1744-1751 p.

Signatures of cytoplasmic proteins in the exoproteome distinguish community- and hospital-associated methicillin-resistant *Staphylococcus aureus* USA300 lineages

Mekonnen, S. A., Palma Medina, L. M., Glasner, C., Tsompanidou, E., de Jong, A., Grasso, S., Schaffer, M., Mäder, U., Larsen, A. R., Gumpert, H., Westh, H., Völker, U., Otto, A., Becher, D. & van Dijk, J. M., 1 Oct 2017, In: *Virulence*. 8, 6, p. 891-907

Analytical and clinical performance of the Hologic Aptima HCV Quant Dx Assay for the quantification of HCV RNA in plasma samples

Schønning, K., Pedersen, M. S., Johansen, K., Landt, B., Nielsen, L. G., Weis, N. & Westh, H., Oct 2017, In: *Journal of Virological Methods*. 248, p. 159-165

Multidrug-resistant *Neisseria gonorrhoeae* infection with ceftriaxone resistance and intermediate resistance to azithromycin, Denmark, 2017

Terkelsen, D., Tolstrup, J., Johnsen, C. H., Lund, O., Larsen, H. K., Worning, P., Unemo, M. & Westh, H., Oct 2017, In: *Eurosurveillance*. 22, 42

Genetic characterization confirms sporadic occurrence of vancomycin-resistant *Enterococcus faecalis* in Copenhagen, Denmark

Holzknacht, B. J., Pinholt, M., Gumpert, H., Hammerum, A. M. & Westh, H., 1 Sept 2017, In: *International Journal of Antimicrobial Agents*. 50, 3, p. 501-502

Draft genome sequence of a *Kluyvera intermedia* isolate from a patient with a pancreatic abscess

Thele, R., Gumpert, H., Christensen, L. B., Worning, P., Schønning, K., Westh, H. & Arn Hansen, T., Sept 2017, In: *Journal of Global Antimicrobial Resistance*. 10, p. 1-2

RUCS: Rapid identification of PCR primers for unique core sequences

Thomsen, M. C. F., Hasman, H., Westh, H., Kaya, H. & Lund, O., 30 Aug 2017, In: *Bioinformatics (Online)*. p. 3917-3921 p.

Emergence of *vanA* *Enterococcus faecium* in Denmark, 2005-15

Hammerum, A. M., Baig, S., Kamel, Y., Roer, L., Pinholt, M., Gumpert, H., Holzknacht, B., Røder, B., Justensen, U. S., Samulionienė, J., Kjærsgaard, M., Østergaard, C. M., Holm, A., Dzajic, E., Søndergaard, T. S., Gaini, S., Edquist, P., Alm, E., Lilje, B. & Westh, H. & 2 others, Stegger, M. & Hasman, H., 1 Aug 2017, In: *The Journal of antimicrobial chemotherapy*. 72, 8, p. 2184-2190

Genome-wide-analyses of *Listeria monocytogenes* from food-processing plants reveals clonal diversity and dates the emergence of persisting sequence types

Knudsen, G. M., Nielsen, J. B., Marvig, R. L., Ng, Y., Worning, P., Westh, H. & Gram, L., 1 Aug 2017, In: *Environmental Microbiology*. 9, 4, p. 428-440

Erratum to: Evaluating next-generation sequencing for direct clinical diagnostics in diarrhoeal disease

Joensen, K. G., Engsbro, A. L. Ø., Lukjancenko, O., Kaas, R. S., Lund, O., Westh, H. & Aarestrup, F. M., 1 Jul 2017

Evaluating next-generation sequencing for direct clinical diagnostics in diarrhoeal disease

Joensen, K. G., Engsbro, A. L. Ø., Lukjancenko, O., Kaas, R. S., Lund, O., Westh, H. & Aarestrup, F. M., 1 Jul 2017, In: European journal of clinical microbiology & infectious diseases : official publication of the European Society of Clinical Microbiology. 36, 7, p. 1325-1338

Methicillin-resistant Staphylococcus aureus emerged long before the introduction of methicillin into clinical practice

Harkins, C. P., Pichon, B., Doumith, M., Parkhill, J., Westh, H., Tomasz, A., de Lencastre, H., Bentley, S. D., Kearns, A. M. & Holden, M. T. G., 1 Jul 2017, In: Genome Biology (Online Edition). 18, 1, p. 130

Evolutionary origin of the staphylococcal cassette chromosome mec (SCCmec)

Rolo, J., Worning, P., Nielsen, J. B., Bowden, R., Bouchami, O., Damborg, P. P., Guardabassi, L., Perreten, V., Tomasz, A., Westh, H., de Lencastre, H. & Miragaia, M., 1 Jun 2017, In: Antimicrobial Agents and Chemotherapy. 61, 6, p. 1-16 e02302-16.

Comparison of the Hologic Aptima HIV-1 Quant Dx Assay to the Roche COBAS Ampliprep/COBAS TaqMan HIV-1 Test v2.0 for the quantification of HIV-1 RNA in plasma samples

Schønning, K., Johansen, K., Landt, B., Benfield, T. & Westh, H., 1 May 2017, In: Journal of clinical virology : the official publication of the Pan American Society for Clinical Virology. 92, p. 14-19

Evidence for the evolutionary steps leading to mecA-mediated β -lactam resistance in staphylococci

Rolo, J., Worning, P., Boye Nielsen, J., Sobral, R., Bowden, R., Bouchami, O., Damborg, P. P., Guardabassi, L., Perreten, V., Westh, H., Tomasz, A., de Lencastre, H. & Miragaia, M., 1 Apr 2017, In: P L o S Genetics. 13, 4, p. 1-22 e1006674.

Comparison of the population excess fraction of Chlamydia trachomatis infection on pelvic inflammatory disease at 12-months in the presence and absence of chlamydia testing and treatment: Systematic review and retrospective cohort analysis

Davies, B., Turner, K. M. E., Leung, S., Yu, B. N., Frølund, M., Benfield, T., Blanchard, J., Westh, H. & Ward, H., 1 Feb 2017, In: P L o S One. 12, 2

Determination of Elizabethkingia Diversity by MALDI-TOF Mass Spectrometry and Whole-Genome Sequencing

Eriksen, H. B., Gumpert, H., Faurholt, C. H. & Westh, H., Feb 2017, In: Emerging Infectious Diseases (Print Edition). 23, 2, p. 320-323 4 p.

Genomic analysis of 495 vancomycin-resistant Enterococcus faecium reveals broad dissemination of a vanA plasmid in more than 19 clones from Copenhagen, Denmark

Pinholt, M., Gumpert, H., Bayliss, S., Nielsen, J. B., Vorobieva, V., Pedersen, M., Feil, E., Worning, P. & Westh, H., 2017, In: The Journal of antimicrobial chemotherapy. 72, 1, p. 40-47

Staphylococcal aureus Enterotoxin C and Enterotoxin-Like L Associated with Post-partum Mastitis

Franck, K. T., Gumpert, H., Olesen, B., Larsen, A. R., Petersen, A., Bangsborg, J., Albertsen, P., Westh, H. & Bartels, M. D., 2017, In: Frontiers in Microbiology. 8, p. 173 5 p.

Whole Genome Sequencing of Danish Staphylococcus argenteus Reveals a Genetically Diverse Collection with Clear Separation from Staphylococcus aureus

Hansen, T. A., Bartels, M. D., Høgh, S. V., Dons, L. E., Pedersen, M., Jensen, T. G., Kemp, M., Skov, M. N., Gumpert, H., Worning, P. & Westh, H., 2017, In: Frontiers in Microbiology. 8, p. 1512

Dansk stafylokokovervågning og - forskning 1955-2015

Westh, H., Skov, R., Kolmos, H. J. & Rosdahl, V. T., Dec 2016, In: Bibliotek for Laeger. p. 425 11 p.

Novel pathways for ameliorating the fitness cost of gentamicin resistant small colony variants

Vestergaard, M., Paulander, W. E. A., Leng, B., Nielsen, J. B., Westh, H. & Ingmer, H., 22 Nov 2016, In: *Frontiers in Microbiology*. 7, NOV, 1866.

Bacterial viruses enable their host to acquire antibiotic resistance genes from neighbouring cells

Haaber, J., Leisner, J. J., Cohn, M. T., Catalan-Moreno, A., Nielsen, J. B., Westh, H., Penadés, J. R. & Ingmer, H., 7 Nov 2016, In: *Nature Communications*. 7, p. 13333

Risk of reproductive complications following chlamydia testing: a population-based retrospective cohort study in Denmark

Davies, B. J. V., Turner, K. M. E., Frølund, M., Ward, H., May, M. T., Rasmussen, S., Benfield, T., Westh, H. & Danish Chlamydia Study Group, Sept 2016, In: *Lancet Infectious Diseases*. 16, 9, p. 1057-1064

Fatal Septicemia Linked to Transmission of MRSA Clonal Complex 398 in Hospital and Nursing Home, Denmark

Nielsen, R. T., Kemp, M., Holm, A., Skov, M. N., Detlefsen, M., Hasman, H., Aarestrup, F. M., Kaas, R. S., Nielsen, J. B., Westh, H. & Kolmos, H. J., May 2016, In: *Emerging Infectious Diseases (Online)*. 22, 5, p. 900-2 3 p.

Erratum for Gudeta et al., The Soil Microbiota Harbors a Diversity of Carbapenem-Hydrolyzing β -Lactamases of Potential Clinical Relevance

Gudeta, D. D., Bortolaia, V., Amos, G., Wellington, E. M. H., Brandt, K. K., Poirel, L., Nielsen, J. B., Westh, H. & Guardabassi, L., Apr 2016

Evidence for Human Adaptation and Foodborne Transmission of Livestock-Associated Methicillin-Resistant *Staphylococcus aureus*

Larsen, J., Stegger, M., Andersen, P. S., Petersen, A., Larsen, A. R., Westh, H., Agersø, Y., Fetsch, A., Kraushaar, B., Käsbohrer, A., Feßler, A. T., Schwarz, S., Cuny, C., Witte, W., Butaye, P., Denis, O., Haenni, M., Madec, J.-Y., Jouy, E. & Laurent, F. & 15 others, Battisti, A., Franco, A., Alba, P., Mammina, C., Pantosti, A., Monaco, M., Wagenaar, J. A., de Boer, E., van Duijkeren, E., Heck, M., Domínguez, L., Torres, C., Zarazaga, M., Price, L. B. & Skov, R. L., 2016, In: *Clinical infectious diseases : an official publication of the Infectious Diseases Society of America*. 63, 10, p. 1349-1352

Hospital-acquired vancomycin-resistant *Enterococcus faecium* in Denmark

Pinholt, M. & Westh, H. (Ph.d.-supervisor), 2016

Sexually transmitted infections and use of contraceptives in women living with HIV in Denmark - the SHADE cohort

Thorsteinsson, K., Ladelund, S., Storgaard, M., Rønsholt, F. F., Johansen, I. S., Pedersen, G., Nielsen, L. N., Bonde, J., Westh, H., Obel, N., Katzenstein, T. L. & Lebech, A.-M., 2016, In: *B M C Infectious Diseases*. 16, 1, p. 81 11 p.

The Soil Microbiota Harbors a Diversity of Carbapenem-Hydrolyzing β -Lactamases of Potential Clinical Relevance

Gudeta, D. D., Bortolaia, V., Amos, G., Wellington, E. M. H., Brandt, K. K., Poirel, L., Nielsen, J. B., Westh, H. & Guardabassi, L., 19 Oct 2015, In: *Antimicrobial Agents and Chemotherapy*. p. 151-160 9 p.

A core genome MLST scheme for high-resolution typing of *Enterococcus faecium*

de Been, M., Pinholt, M., Top, J., Bletz, S., Mellmann, A., van Schaik, W., Brouwer, E., Rogers, M., Kraat, Y., Bonten, M., Corander, J., Westh, H., Harmsen, D. & Willems, R. J. L., 23 Sept 2015, In: *Journal of Clinical Microbiology*.

Multiple hospital outbreaks of vanA *Enterococcus faecium* in Denmark, 2012-13, investigated by WGS, MLST and PFGE

Pinholt, M., Larner-Svensson, H., Littauer, P., Moser, C. E., Pedersen, M., Lemming, L. E., Ejlersen, T., Søndergaard, T. S., Holzknecht, B. J., Justesen, U. S., Dzajic, E., Olsen, S. S., Nielsen, J. B., Worning, P., Hammerum, A. M., Westh, H. & Jakobsen, L., Sept 2015, In: *The Journal of antimicrobial chemotherapy*. 70, 9, p. 2474-82 9 p.

Screening for MRSA på danske hospitaler - virker det?

Westh, H., 6 Jul 2015, In: *Ugeskrift for Laeger*.

The New Macrolide-Lincosamide-Streptogramin B Resistance Gene erm(45) Is Located within a Genomic Island in *Staphylococcus fleurettii*

Wipf, J. R. K., Schwendener, S., Nielsen, J. B., Westh, H. & Perreten, V., Jun 2015, In: *Antimicrobial Agents and Chemotherapy*. 59, 6, p. 3578-81 4 p.

Increased risk of arterial thromboembolic events after *Staphylococcus aureus* bacteremia: A matched cohort study
Mejer, N., Gotland, N., Uhre, M. L., Westh, H., Schønheyder, H. C., Petersen, A., Jensen, A. G., Larsen, A. R., Skov, R., Benfield, T. & Danish Staphylococcal Bacteremia Study Group, 29 Apr 2015, In: Journal of Infection. p. 167-178 11 p.

Staphylococcus aureus spa type t437: identification of the most dominant community-associated clone from Asia across Europe

Glasner, C., Pluister, G., Westh, H., Arends, J. P., Empel, J., Giles, E., Laurent, F., Layer, F., Marstein, L., Matussek, A., Mellmann, A., Pérez-Vásquez, M., Ungvári, E., Yan, X., Žemličková, H., Grundmann, H. & van Dijk, J. M., Feb 2015, In: Clinical microbiology and infection : the official publication of the European Society of Clinical Microbiology and Infectious Diseases. 21, 2, p. 163.e1-8

Core Genome Multilocus Sequence Typing Scheme for High-resolution Typing of *Enterococcus faecium*

de Been, M., Pinholt, M., Top, J., Bletz, S., Mellmann, A., van Schaik, W., Brouwer, E., Rogers, M., Kraat, Y., Bonten, M., Corander, J., Westh, H., Harmsen, D. & Willems, R. J. L., 2015, In: Journal of Clinical Microbiology. p. 3788-3797 9 p.

Monitoring methicillin resistant *Staphylococcus aureus* and its spread in Copenhagen, Denmark, 2013, through routine whole genome sequencing

Bartels, M. D., Larner-Svensson, H., Meiniche, H., Kristoffersen, K. L., Schonning, K., Nielsen, J. B., Rohde, S. M., Christensen, L. B., Skibsted, A., Jarlov, J. O., Johansen, H. K., Andersen, L. P., Petersen, I. S., Crook, D. W., Bowden, R., Boye, K., Worning, P. & Westh, H., 2015, In: Eurosurveillance (Online Edition). 20, 17

Detection of *mecC* methicillin-resistant *Staphylococcus aureus* with a semi-selective enrichment broth

Ekenberg, C., Boye, K., Schønning, K., Westh, H. & Lisby, J. G., Oct 2014, In: The Journal of antimicrobial chemotherapy. 69, 10, p. 2864

Insights into alpha-hemolysin (Hla) evolution and expression among *Staphylococcus aureus* clones with hospital and community origin

Tavares, A., Nielsen, J. B., Boye, K., Rohde, S., Paulo, A. C., Westh, H., Schønning, K., de Lencastre, H. & Miragaia, M., Jul 2014, In: PLoS One. 9, 7, p. e98634

Fuldgenomsekventering af mikroorganismer: et nyt værktøj i klinisk mikrobiologi

Bartels, M. D., Nielsen, X. C., Christensen, J. J. & Westh, H., 2 Jun 2014, In: Ugeskrift for læger.

Increased risk of venous thromboembolism within the first year after *Staphylococcus aureus* bacteraemia: a nationwide observational matched cohort study

Mejer, N., Westh, H., Schønheyder, H. C., Jensen, A. G., Larsen, A. R., Skov, R. & Benfield, T., Apr 2014, In: Journal of Internal Medicine. 275, 4, p. 387-397 10 p.

Nasal carriage of methicillin resistant staphylococci

Faria, N. A., Conceição, T., Miragaia, M., Bartels, M. D., de Lencastre, H. & Westh, H., Apr 2014, In: Microbial drug resistance (Larchmont, N.Y.). 20, 2, p. 108-117 10 p.

Evolution of methicillin-resistant *Staphylococcus aureus* towards increasing resistance

Strommenger, B., Bartels, M. D., Kurt, K., Layer, F., Rohde, S. M., Boye, K., Westh, H., Witte, W., de Lencastre, H. & Nübel, U., Mar 2014, In: Journal of Antimicrobial Chemother.. 69, 3, p. 616-622 6 p.

Comparing Whole-Genome Sequencing with Sanger Sequencing for spa Typing of Methicillin-Resistant *Staphylococcus aureus*

Bartels, M. D., Petersen, A., Worning, P., Nielsen, J. B., Larner-Svensson, H., Johansen, H. K., Andersen, L. P., Jarløv, J. O., Boye, K., Larsen, A. R. & Westh, H., 2014, In: Journal of Clinical Microbiology. 52, 12, p. 4305-8 4 p.

Recently introduced *qacA/B* genes in *Staphylococcus epidermidis* do not increase chlorhexidine MIC/MBC

Skovgaard, S., Larsen, M. H., Nielsen, L. N., Skov, R. L., Wong, C., Westh, H. & Ingmer, H., Oct 2013, In: Journal of Antimicrobial Chemotherapy. 68, 10, p. 2226-2233 8 p.

A nationwide study of comorbidity and risk of reinfection after *Staphylococcus aureus* bacteraemia

Wiese, L., Mejer, N., Schønheyder, H. C., Westh, H., Jensen, A. G., Larsen, A. R., Skov, R. & Benfield, T., Sept 2013, In: *Journal of Infection*. 67, 3, p. 199-205 7 p.

***Staphylococcus aureus* but not *Listeria monocytogenes* adapt to triclosan and adaptation correlates with increased *fabI* expression and *agr* deficiency**

Nielsen, L. N., Larsen, M. H., Skovgaard, S., Kastbjerg, V. G., Westh, H., Gram, L. & Ingmer, H., 30 Jul 2013, In: *BMC Microbiology*. 13, 1, p. 177

Complete Genome Sequence of *Staphylococcus aureus* Strain M1, a Unique t024-ST8-IVa Danish Methicillin-Resistant *S. aureus* Clone.

Larner-Svensson, H., Worning, P., Bartels, M. D., Hestbjerg Hansen, L., Boye, K. & Westh, H., May 2013, In: *Genome announcement*. 1, 3, p. 1-2 2 p., e00336-13.

A genomic portrait of the emergence, evolution, and global spread of a methicillin-resistant *Staphylococcus aureus* pandemic

Holden, M. T. G., Hsu, L.-Y., Kurt, K., Weinert, L. A., Mather, A. E., Harris, S. R., Strommenger, B., Layer, F., Witte, W., de Lencastre, H., Skov, R., Westh, H., Zemlicková, H., Coombs, G., Kearns, A. M., Hill, R. L. R., Edgeworth, J., Gould, I., Gant, V. & Cooke, J. & 17 others, Edwards, G. F., McAdam, P. R., Templeton, K. E., McCann, A., Zhou, Z., Castillo-Ramírez, S., Feil, E. J., Hudson, L. O., Enright, M. C., Balloux, F., Aanensen, D. M., Spratt, B. G., Fitzgerald, J. R., Parkhill, J., Achtman, M., Bentley, S. D. & Nübel, U., Apr 2013, In: *Cytogenetic and Genome Research*. 23, 4, p. 653-64 12 p.

A microbiological evaluation of level of disinfection for flexible cystoscopes protected by disposable endosheaths

Jørgensen, P. H., Slotsbjerg, T., Westh, H., Buitenhuis, V. & Hermann, G. G., 2013, In: *B M C Urology*. 13, p. 46

Associations between *dru* Types and SCCmec Cassettes

Bartels, M. D., Boye, K., Oliveira, D. C., Worning, P., Goering, R. & Westh, H., 2013, In: *P L o S One*. 8, 4, p. e61860

First outbreak with MRSA in a danish neonatal intensive care unit: risk factors and control procedures

Ramsing, B. G. U., Arpi, M., Andersen, E. A., Knabe, N., Mogensen, D., Buhl, D., Westh, H. & Andersen, C. Ø., 2013, In: *P L o S One*. 8, 6, p. e66904

***Staphylococcus epidermidis* Isolated in 1965 Are More Susceptible to Triclosan than Current Isolates**

Skovgaard, S., Nielsen, L. N., Larsen, M. H., Skov, R. L., Ingmer, H. & Westh, H., 2013, In: *P L o S One*. 8, 4, p. e62197

Phylogeographic variation in recombination rates within a global clone of Methicillin-Resistant *Staphylococcus aureus* (MRSA)

Castillo-Ramírez, S., Corander, J., Marttinen, P., Aldeljawi, M., Hanage, W. P., Westh, H., Boye, K., Gulay, Z., Bentley, S. D., Parkhill, J., Holden, M. T. & Feil, E. J., 27 Dec 2012, In: *Genome Biology (Online Edition)*. 13, 12, p. R126

Stable incidence and continued improvement in short term mortality of *Staphylococcus aureus* bacteraemia between 1995 and 2008

Mejer, N., Westh, H., Schønheyder, H. C., Jensen, A., Larsen, A. R., Skov, R., Benfield, T. & Danish Staphylococcal Bacteraemia Study Group, 17 Oct 2012, In: *B M C Infectious Diseases*. 12, p. 260

Guidelines for reporting novel *mecA* gene homologues

Ito, T., Hiramatsu, K., Tomasz, A., de Lencastre, H., Perreten, V., Holden, M. T. G., Coleman, D. C., Goering, R., Giffard, P. M., Skov, R. L., Zhang, K., Westh, H., O'Brien, F., Tenover, F. C., Oliveira, D. C., Boyle-Vavra, S., Laurent, F., Kearns, A. M., Kreiswirth, B. & Ko, K. S. & 7 others, Grundmann, H., Sollid, J. E., John, J. F., Daum, R., Soderquist, B., Buist, G. & International Working Group on the Classification of Staphylococcal Cassette Chromosome Elements (IWG-SCC), 6 Aug 2012, In: *Antimicrobial Agents and Chemotherapy*. 56, 10, p. 4997-9 3 p.

Nosocomial transmission of community-associated methicillin-resistant *Staphylococcus aureus* in Danish Hospitals
Hetem, D. J., Westh, H., Boye, K., Jarløv, J. O., Bonten, M. J. M. & Bootsma, M. C. J., 20 Apr 2012, In: *Journal of Antimicrobial Chemotherapy*. 67, 7, p. 1775-80 6 p.

Basisbog i Diagnostiske Fag

Thomsen, H. S., Dziegiel, M. H. (Editor), Hellebek, A. (Editor), Højgaard, L., Nordestgaard, B. G., Poulsen, H. E., Schrøder, H. D., Skovby, F. & Westh, H., 2012, København.

Genital and extra-genital screening for gonorrhoea using the BD Probetec ET system with an in-house PCR method targeting the *porA* pseudogene as confirmatory test

Skovgaard, S., Larsen, H. K., Sand, C., Friis-Møller, A., Schønning, K., Jensen, J. S. & Westh, H., 2012, In: *Acta Dermato Venereologica*. 92, 1, p. 45-9 5 p.

High genetic diversity among community-associated *Staphylococcus aureus* in Europe: results from a multicenter study

Rolo, J., Miragaia, M., Turlej-Rogacka, A., Empel, J., Bouchami, O., Faria, N. A., Tavares, A., Hryniewicz, W., Fluit, A. C., de Lencastre, H., CONCORD Working Group & Westh, H., 2012, In: *P L o S One*. 7, 4, p. e34768

Klinisk Mikrobiologi og infektionshygiejne

Westh, H., Knudsen, I. J. D. & Kolmos, H. J., 2012, *Basisbog i diagnostiske fag*. Munksgård Danmark

Meticillin-resistant *Staphylococcus aureus* (MRSA): global epidemiology and harmonisation of typing methods

Stefani, S., Chung, D. R., Lindsay, J. A., Friedrich, A. W., Kearns, A. M., Westh, H. & Mackenzie, F. M., 2012, In: *International Journal of Antimicrobial Agents*. 39, 4, p. 273-82 10 p.

An unexpected location of the arginine catabolic mobile element (ACME) in a USA300-related MRSA strain

Bartels, M. D., Hansen, L. H., Boye, K., Sørensen, S. & Westh, H., 2011, In: *P L o S One*. 6, 1, p. e16193

Molecular detection of *Chlamydia trachomatis* and *Neisseria gonorrhoeae*.

Westh, H., Møller, J. K., Hermann, B. & Jensen, J. S., 2011, *Molecular Microbiology: Diagnostic Principles and Practice*. 2nd Edition ed. p. 383-96

Structural variations of staphylococcal cassette chromosome *mec* type IVa in *Staphylococcus aureus* clonal complex 8 and unrelated lineages

Damborg, P. P., Bartels, M. D., Boye, K., Guardabassi, L. & Westh, H., 2011, In: *Antimicrobial Agents and Chemotherapy*. 55, 8, p. 3932-5 4 p.

A novel FRET pair for detection of parallel DNA triplexes by the LightCycler

Schneider, U. V., Severinsen, J. K., Géci, I., Okkels, L. M., Jøhnik, N., Mikkelsen, N. D., Klinge, T., Pedersen, E. B., Westh, H. & Lisby, G., 2010, In: *BMC Biotechnology*. 10, p. 4

A timescale for evolution, population expansion, and spatial spread of an emerging clone of methicillin-resistant *Staphylococcus aureus*

Nübel, U., Dordel, J., Kurt, K., Strommenger, B., Westh, H., Shukla, S. K., Zemlicková, H., Leblois, R., Wirth, T., Jombart, T., Balloux, F. & Witte, W., 2010, In: *PLoS pathogens*. 6, 4, p. 6(4)

Changing epidemiology of methicillin-resistant *Staphylococcus aureus* in Iceland from 2000 to 2008: a challenge to current guidelines

Holzknacht, B. J., Hardardottir, H., Haraldsson, G. H., Westh, H., Valsdottir, F., Boye, K., Karlsson, H. S., Kristinsson, K. & Gudlaugsson, O., 2010, In: *Journal of Clinical Microbiology*. 48, 11, p. 4221-7 6 p.

Growth phase-dependent regulation of the global virulence regulator Rot in clinical isolates of *Staphylococcus aureus*.

Jelsbak, L., Hemmingsen, L., Donat, S., Ohlsen, K., Boye, K., Westh, H., Ingmer, H. & Frees, D., 2010, In: *International Journal of Medical Microbiology*. 300, 4, p. 229-36 8 p.

Optimal design of parallel triplex forming oligonucleotides containing Twisted Intercalating Nucleic Acids—TINA

Schneider, U. V., Mikkelsen, N. D., Jøhnk, N., Okkels, L. M., Westh, H. & Lisby, G., 2010, In: *Nucleic Acids Research*. 38, 13, p. 4394-403 9 p.

Rise and subsequent decline of community-associated methicillin resistant *Staphylococcus aureus* ST30-IVc in Copenhagen, Denmark through an effective search and destroy policy

Bartels, M. D., Kristoffersen, K., Boye, K. & Westh, H., 2010, In: *Clinical Microbiology and Infection*. 16, 1, p. 78-83 5 p.

Semi-selective broth improves screening for methicillin-resistant *Staphylococcus aureus*.

Böcher, S., Middendorf, B., Westh, H., Mellmann, A., Becker, K., Skov, R. & Friedrich, A., 2010, In: *Journal of Antimicrobial Chemother.* 65, 4, p. 717:20 4 p.

Variations in spa types found in consecutive MRSA isolates from the same patients

Boye, K. & Westh, H., 2010, In: *FEMS Microbiology Letters*. 314, 1, p. 101-5 4 p.

A common variant of staphylococcal cassette chromosome mec type IVa in isolates from Copenhagen, Denmark, is not detected by the BD GeneOhm methicillin-resistant *Staphylococcus aureus* assay

Bartels, M. D., Boye, K., Rohde, S. M., Larsen, A. R., Torfs, H., Bouchy, P., Skov, R. & Westh, H., 2009, In: *Journal of Clinical Microbiology*. 47, 5, p. 1524-7 3 p.

Management of recurrent pacemaker-related bacteraemia with small colony variant *Staphylococcus aureus* in a haemodialysis patient

Nielsen, X. C., Nielsen, F. T., Kurtzhals, J. A. L., Moser, C., Boye, K., Christensen, J. J., Johansen, U. R. & Westh, H., 2009, In: *BMJ Case Reports*. 2009

Multiplex real-time PCR and blood culture for identification of bloodstream pathogens in patients with suspected sepsis

Westh, H., Lisby, G., Breyse, F., Böddinghaus, B., Chomarat, M., Gant, V., Goglio, A., Raglio, A., Schuster, H., Stuber, F., Wissing, H. & Hoefft, A., 2009, In: *Clinical Microbiology and Infection*. 15, 6, p. 544-51 8 p.

Non-spa-typeable clinical *Staphylococcus aureus* strains are naturally occurring protein A mutants

Baum, C., Haslinger-Löffler, B., Westh, H., Boye, K., Peters, G., Neumann, C. & Kahl, B. C., 2009, In: *Journal of Clinical Microbiology*. 47, 11, p. 3624-9 5 p.

Two distinct clones of methicillin-resistant *Staphylococcus aureus* (MRSA) with the same USA300 pulsed-field gel electrophoresis profile: a potential pitfall for identification of USA300 community-associated MRSA

Larsen, A. R., Goering, R., Stegger, M., Lindsay, J. A., Gould, K. A., Hinds, J., Sørnum, M., Westh, H., Boye, K. & Skov, R., 2009, In: *Journal of Clinical Microbiology*. 47, 11, p. 3765-8 3 p.

Environmental methicillin-resistant *Staphylococcus aureus* (MRSA) disinfection using dry-mist-generated hydrogen peroxide

Bartels, M. D., Kristoffersen, K. L., Slotsbjerg, T. D., Rohde, S. M., Lundgren, B. & Westh, H., 2008, In: *Journal of Hospital Infection*. 70, p. 35-41

Frequent emergence and limited geographic dispersal of methicillin-resistant *Staphylococcus aureus*

Nübel, U., Roumagnac, P., Feldkamp, M., Song, J.-H., Ko, K. S., Huang, Y.-C., Coombs, G., Ip, M., Westh, H., Skov, R., Struelens, M. J., Goering, R. V., Strommenger, B., Weller, A., Witte, W. & Achtman, M., 2008, In: *Proceedings of the National Academy of Sciences of the United States of America*. 105, 37, p. 14130-5 5 p.

Methicillin-resistant *Staphylococcus aureus* in hospitals in Tbilisi, the Republic of Georgia, are variants of the Brazilian clone

Bartels, M. D., Nanuashvili, A., Boye, K., Rohde, S. M., Jashiashvili, N., Faria, N., Kereselidze, M., Kharebava, S. & Westh, H., 2008, In: *European Journal of Clinical Microbiology & Infectious Diseases*. 27, 8, p. 757-60

A new multiplex PCR for easy screening of methicillin-resistant *Staphylococcus aureus* SCCmec types I-V

Boye, K., Bartels, M. D., Andersen, I. S., Moeller, J. A. & Westh, H., 2007, In: *Clinical Microbiology and Infection*. 13, 7, p. 725-7 3 p.

Changing epidemiology of pediatric Staphylococcus aureus bacteremia in Denmark from 1971 through 2000.

Frederiksen, M. S., Espersen, F., Frimodt-Møller, N., Jensen, A. G., Larsen, A. R., Pallesen, L. V., Skov, R., Westh, H., Skinhøj, P. & Benfield, T., 2007, In: The Pediatric infectious disease journal. 26, 5, p. 398-405 7 p.

Characterisation, dissemination and persistence of gentamicin resistant scherichia coli from a Danish university hospital to the waste water environment.

Jakobsen, L., Sandvang, D., Hansen, L., Bagger-Skjøt, L., Westh, H., Jørgensen, C., Hansen, D., Monnet, D., Pedersen, B., Frimodt-Møller, N., Sørensen, S. & Hammerum, A., 2007, In: Environment International. 34, 1, p. 108-115 7 p.

Increasing incidence but decreasing in-hospital mortality of adult Staphylococcus aureus bacteraemia between 1981 and 2000.

Benfield, T., Espersen, F., Frimodt-Møller, N., Jensen, A., Larsen, A. R., Pallesen, L. V., Skov, R., Westh, H. & Skinhøj, P., 2007, In: Clinical Microbiology and Infection. 13, 3, p. 257-63 6 p.

Primary pneumocystis infection in infants hospitalized with acute respiratory tract infection.

Larsen, H. H., von Linstow, M.-L., Lundgren, B., Høgh, B., Westh, H. & Lundgren, J. D., 2007, In: Emerging Infectious Diseases (Print Edition). 13, 1, p. 66-72 6 p.

Rapid increase of genetically diverse methicillin-resistant Staphylococcus aureus, Copenhagen, Denmark

Bartels, M. D., Boye, K., Rhod Larsen, A., Skov, R. & Westh, H., 2007, In: Emerging Infectious Diseases (Print Edition). 13, 10, p. 1533-40 7 p.

A European Laboratory Network on Sequence Based Typing of Microbial Pathogens

Friedrich, A., Witte, W., Harmsen, D., Lancastre, H. D., Hryniewicz, W., Scheres, J. & Westh, H., 2006, In: Eurourveillance : bulletin européen sur les maladies transmissibles = European communicable disease bulletin. 11, 11

A European-wide Certification Trial for Sequence-based Typing of Microbial Pathogens. and the SeqNet Org Participants SeqNet Org.

Friedrich, A., Mellmann, A., Witte, W., Harmsen, D., Lencastre, H. D., Hryniewicz, W., Scheres, J. & Westh, H., 2006.

A Multiplex PCR for Easy Screening of Methicillin-resistant Staphylococcus aureus SCCmec types I to V

Boye, K., Bartels, M. D., Larsen, A. & Westh, H., 2006.

An Effort to Eradicate the CA-MRSA Clone t019-st30 in Copenhagen, Denmark

Bartels, M. D., Kristoffersen, K. L., Boye, K. & Westh, H., 2006.

A New Computer Software for Methicillin-resistant Staphylococcus aureus typing based on Spa-sequencing: Comparison to MLST.

Boye, K., Bartels, M. D., Mellmann, A., Harmsen, D. & Westh, H., 2006.

Basics of Diagnostic PCR Assay Design

Høgh, M., Westh, H. & Lisby, J. G., 2006.

Clonal Spread of Staphylococcus aureus with Reduced Susceptibility to Oxacillin in a Dermatological Hospital Unit

Thomsen, M., Rasmussen, M., Fursted, K., Westh, H., Pedersen, L., Deuleran, M. & Møller, J., 2006, In: Acta Dermato Venereologica. 86, 3, p. 230-4

Diagnosis of Pneumocystis Pneumonia in Patients with Hematologic Malignancies: Microscopy versus PCR.

Larsen, H., Westh, H., Bergmann, O., Jarløv, J., Jensen, J. & Lundgren, J. D., 2006.

Epidemic Increase in Methicillin-resistant Staphylococcus aureus in Copenhagen.

Westh, H., Boye, K., Bartels, M. D., Kristoffersen, K. L., Bergen, L., Havstrey, J., Bagersted, J., Petersen, I., Lester, A., Lisby, J. G., Friis-Møller, A., Knudsen, I. J. D., Slotsbjerg, T. & Lundgren, B., 2006, In: Ugeskr Laeger. 168, 7, p. 671-673

Evaluation of Real-time PCR as a Rapid Method to Detect Carriage of Methicillin-Resistant *S. aureus* in the Investigation of a ST30 outbreak.

Bartels, M. D., Kristoffersen, K. L., Boye, K. & Westh, H., 2006.

Evaluation of SeptiFast - a new commercially available broad-range real-time PCR assay for detection of bacteria and fungi in blood.

Lisby, J. G. & Westh, H., 2006.

Evaluation of Sterinis® in Eliminating MRSA from the Hospital Environment and a Private Home.

Kristoffersen, K. L., Bartels, M. D., Slotsbjerg, T. D., Rohde, S. M., Lundgren, B. & Westh, H., 2006.

Excretion patterns of human metapneumovirus and respiratory syncytial virus among young children

von Linstow, M.-L., Eugen-Olsen, J., Koch, A., Winther, T. N., Westh, H. & Høgh, B., 2006, In: Eur J Med Res. 11, 8, p. 329-335 7 p.

High Interlaboratory Reproducibility of DNA Sequence-based Typing of Bacteria in a Multicenter Study

Sousa, M. D., Boye, K., Lencastre, H. D., Deplano, A., Enright, M., Etienne, J., Friedrich, A., Harmsen, D., Holmes, A., Huijsdens, X., Kearns, A., Mellmann, A., Meugnier, H., Rasheed, J., Spalburg, E., Strommenger, B., Struelens, M., Tenover, F., Thomas, J. & Vogel, U. & 3 others, Westh, H., Xu, J. & Witte, W., 2006, In: Journal of Clinical Microbiology. 44, p. 619-21

Latent tuberculosis in HIV positive, diagnosed by the *M. tuberculosis* specific interferon-gamma test

Brock, I., Ruhwald, M., Lundgren, B., Westh, H., Mathiesen, L. R. & Ravn, P., 2006, In: Resp Res. 7, p. 56

MRSA in Copenhagen - from detection to eradication.

Boye, K., Bartels, M. D., Kristoffersen, K. L., Rohde, S. M., Slotsbjerg, T. D. & Westh, H., 2006.

Non spa-typable *Staphylococcus aureus* strains are naturally occurring protein a mutants.

Wörmann, C., Fischer, A., Westh, H., Boye, K., Peters, G. & Kahl, B., 2006.

Origins and Evolution of Methicillin-Resistant *Staphylococcus aureus* Clonal Lineages.

Gomes, A., Westh, H. & Lencastre, H. D., 2006, In: Antimicrobial Agents and Chemotherapy. 50, 10, p. 3237-44

Point Mutations in Respiratory Syncytial Virus Detected by LightCycler PCR and Melting Curve Analysis-

Germer, U., Nielsen, L., Boye, K. & Westh, H., 2006.

Primary Pneumocystis Infection in Children Hospitalized with Acute Respiratory Tract Infection

Larsen, H., Linstow, M. V., Lundgren, B., Høgh, B., Westh, H. & Lundgren, J., 2006.

Primary Pneumocystis Infection in Infants Hospitalized with Acute Respiratory Tract Infection.

Larsen, H., von Linstow, M.-L., Lundgren, B., Høgh, B., Westh, H. & Lundgren, J., 2006.

Rapid Identification of Methicillin-resistant *Staphylococcus aureus* using *S. aureus* EVIGENE™ and MRSA EVIGENE™.

Larsen, A., Westh, H., Holt, M. & Madsen, K., 2006.

Rule-out *Staphylococcus*, including MRSA, directly from primary nasal swab cultures using *S. aureus* PNA FISH.

Madsen, K., Bartels, M. D., Shephard, J., Stender, H., Friis-Møller, A. & Westh, H., 2006.

suPar baseline levels in children at time of ART initiation is predictive of treatment efficacy.

Eugen-Olsen, J., Nuttall, J., Hansen, R. R., Westh, H., Hussey, G. & Eley, B., 2006.

An outbreak of borderline oxacillin-resistant Staphylococcus aureus (BORSA) in a dermatological unit.

Balslev, U., Bremmelgaard, A., Svejgaard, E., Havstrem, J. & Westh, H., 2005, In: Microbial Drug Resistance. 11, 1, p. 78-81 4 p.

An international multicenter study of antimicrobial consumption and resistance in Staphylococcus aureus isolates from 15 hospitals in 14 countries.

Westh, H. T., Zinn, C. S. & Rosdahl, V. T., 2004, In: Microbial Drug Resistance. 10, 2, p. 169-176 8 p.

Human metapneumovirus and respiratory syncytial virus in hospitalized danish children with acute respiratory tract infection.

von Linstow, M.-L., Henrik Larsen, H., Eugen-Olsen, J., Koch, A., Nordmann Winther, T., Meyer, A.-M., Westh, H. T., Lundgren, B., Melbye, M. & Høgh, B., 2004, In: Scandinavian Journal of Infectious Diseases. 36, 8, p. 578-584 7 p.

Comparison of the Becton Dickinson strand displacement amplification and Cobas Amplicor Roche PCR for the detection of Chlamydia trachomatis: pooling versus individual tests.

Bang, D., Angelsø, L., Schirakow, B. & Westh, H. T., 2003, In: Clinical Microbiology and Infection. 9, 10, p. 1020-1023 4 p.

Large-scale testing of women in Copenhagen has not reduced the prevalence of Chlamydia trachomatis infections.

Westh, H. T. & Kolmos, H. J., 2003, In: Clinical Microbiology and Infection. 9, 7, p. 619-624 6 p.

Ny virusforskning bekræfter, at den amerikanske indianerbefolkning er migreret fra Asien.

Westh, H. T. & Kolmos, H. J., 1999, In: Ugeskr Laeger. 161, 11, p. 0-0 1616 p.

Bacteraemia following orotracheal intubation and oesophageal balloon dilatation

Hansen, C. P., Westh, H., Brok, K. E., Jensen, R. & Bertelsen, S., Aug 1989, In: Thorax. 44, 8, p. 684-5 2 p.

Projects

Sepsis: Prognosis and evaluation of early diagnosis and intervention

Kofoed, K. (Other), Andersen, O. (Project Manager, organisational), Eugen-Olsen, J. (Project participant), Larsen, K. (Project participant), Nielsen, J. O. (Project participant), Kronborg, G. (Project participant), Lisby, J. G. (Project participant), Westh, H. T. (Project participant), Knudsen, I. J. D. (Project participant), Fenger, M. (Project participant), Carl, P. (Project participant), Østergaard, M. (Project participant), Ellekilde, G. E. (Project participant), Bendtsen, F. (Project participant), Andresen, L. C. K. (Project participant) & Mogensen, T. (Project participant)

01/11/2004 → 31/08/2007