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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

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

Fonnes, S., Rasmussen, T., Holzknicht, B. J., Olesen, C. S., Olsen, J. H. H., Schmidt, L., Alder, R., Sørensen, S. G., Gülen, S., Klarskov, L. L., Krogfelt, 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., 7 Apr 2023, (E-pub ahead of print) In: APMIS - Journal of Pathology, Microbiology and Immunology.

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., Mollerup, 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., Mollerup, 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

Mollerup, 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., Mollerup, 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., Holzkecht, 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., Mollerup, 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

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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., Kavalaris, 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: *Ugeskrift 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., Holzknacht, B. J., Nygaard, S., Nielsen, K. L., Hasman, H., Roer, L., Hammerum, A. M., Westh, H. & Schønning, K., Sep 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., Holzkecht, B. J., Larsen, 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 othersStener 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 othersWilken-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., Schlager, R., Vanneste, K., Weber, L. M., Westh, H. & Angers-Loustau, A., 2021, In: F1000Research. 10, p. 1-37 37 p., 80.

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

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

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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

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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)

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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., Sep 2019, In: European journal of obstetrics, gynecology, and reproductive biology. 240, p. 178-181 4 p.

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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

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