

Jan Jacobs
Tropical Bacteriology
Type of address: Postal address.
Nationalestraat 155
2000
Antwerp
Belgium
Type of address: Postal address.
Nationalestraat
2000
Antwerpen
Belgium
Email: jjacobs@itg.be
Phone: +32(0)32476630



Research expertise

Jan Jacobs (*1959) Medical doctor KU Leuven, (Belgium 1984), Clinical Pathologist (Belgium, 1989), Clinical Microbiologist (The Netherlands, 1991), PhD "*Streptococcus milleri*", Maastricht University 1996), certified in Hospital Infection Prevention & Control (KU Leuven 1991).

From 1990 to 2005, I was appointed at the University of Maastricht (Faculty of Health, Medicine and Life Sciences). I was involved in diagnostic microbiology and infection prevention and control (University Hospital Maastricht), teaching (executive and coordinating functions, awards: Best Tutor/Coach (2x), Best Lecturer, Faculty Teaching Award) and research (invasive streptococci and bronchoalveolar lavage microscopy).

Since 2006, I am appointed at the Institute of Tropical Medicine (ITM, Antwerp, Belgium) as Professor in Tropical Laboratory Medicine and since 2014 as a 10% part-time associated professor at the Catholic University of Leuven (KU Leuven, Belgium). At ITM, I am heading the unit of Tropical Bacteriology at the Department of Clinical Sciences. I am involved in patient care (clinical laboratory of the travel clinic, Belgium reference laboratory for *Plasmodium* 2006 - 2016), teaching (Infection Control, Clinical Laboratory) and oversea capacity building projects about microbiological surveillance of invasive bacterial diseases (bloodstream infections) at the level of referral hospital. I am (co)-promoter of ITM capacity building projects in the sub-Saharan Africa, Cambodia and Peru. My research focuses on implementation of clinical bacteriology in tropical low resource settings, addressing field-adapted laboratory techniques, antibiotic resistance and hospital infection prevention and control.

I was technical advisor for the World Health Organization (WHO) Prequalification of Diagnostics Program (test product review, ISO 13485 manufacturing site inspections, 2012 – 2016), Chair of the Procurement and Supply Working Group Diagnostics of the Roll Back Malaria Partnership (2012-14) and member of the WHO Strategic Advisory Group of Experts on In Vitro Diagnostics (SAGE IVD, 2017) contributing to the WHO Essential Diagnostic List. Since 2016, I am expert for the WHO Expert Review Panel for Diagnostics (ERPD).

Qualifications

Graduate
Master
Doctor

Employment

Tropical Bacteriology
Institute of Tropical Medicine
Antwerpen, Belgium
1-Jan-2006 → present

Research outputs

Affordable blood culture systems from China: *in vitro* evaluation for use in resource-limited settings
Hardy, L., Vermoesen, T., Genbrugge, E., Natale, A., Franquesa, C., Gleeson, B., Ferreyra, C., Dailey, P. & Jacobs, J., 2024, In: EBioMedicine. 101, 9 p., 105004.

The barriers and facilitators of implementing a national laboratory-based AMR surveillance system in Cambodia: key informants' perspectives and assessments of microbiology laboratories
Mao, S., Soputhy, C., Lay, S., Jacobs, J., Ku, G. M., Chau, D., Chhea, C. & Ir, P., 21-Dec-2023, In: Frontiers in Public Health. 11, p. 1332423

Salmonella Typhi whole genome sequencing in Rwanda shows a diverse historical population with recent introduction of haplotype H58

Rutanga, J. P., de Block, T., Cuypers, W. L., Cafmeyer, J., Peeters, M., Umumalarungu, E., Ngabonziza, J. C. S., Rucogoza, A., Vandenberg, O., Martiny, D., Dusabe, A., Nkubana, T., Dougan, G., Muvunyi, C. M., Mwikarago, I. E., Jacobs, J., Deborggraeve, S. & Van Puyvelde, S., 2023, In: PLoS Neglected Tropical Diseases. 17, 6, 16 p., e0011285.

A genomic appraisal of invasive *Salmonella Typhimurium* and associated antibiotic resistance in sub-saharan Africa

Van Puyvelde, S., de Block, T., Sridhar, S., Bawn, M., Kingsley, R. A., Ingelbeen, B., Beale, M. A., Barbé, B., Jeon, H. J., Mbuiyi-Kalonji, L., Phoba, M-F., Falay, D., Martiny, D., Vandenberg, O., Affolabi, D., Rutanga, J. P., Ceyssens, P-J., Mattheus, W., Cuypers, W. L., van der Sande, M. A. B., & 28 othersPark, S. E., Kariuki, S., Otieno, K., Lusingu, J. P. A., Mbwana, J. R., Adjei, S., Sarfo, A., Agyei, S. O., Asante, K. P., Otieno, W., Otieno, L., Tahita, M. C., Lompo, P., Hoffman, I. F., Mvalo, T., Msefula, C., Hassan-Hanga, F., Obaro, S., Mackenzie, G., Deborggraeve, S., Feasey, N., Marks, F., MacLennan, C. A., Thomson, N. R., Jacobs, J., Dougan, G., Kariuki, S. & Lunguya, O., 2023, In: Nature Communications. 14, 17 p., 6392.

A global genomic analysis of *Salmonella Concord* reveals lineages with high antimicrobial resistance in Ethiopia

Cuypers, W. L., Meysman, P., Weill, F-X., Hendriksen, R. S., Beyene, G., Wain, J., Nair, S., Chattaway, M. A., Perez-Sepulveda, B. M., Ceyssens, P-J., de Block, T., Lee, W. W. Y., Pardos de la Gandara, M., Kornschober, C., Moran-Gilad, J., Veldman, K. T., Cormican, M., Torpdahl, M., Fields, P. I., Černý, T., & 9 othersHardy, L., Tack, B., Mellor, K. C., Thomson, N., Dougan, G., Deborggraeve, S., Jacobs, J., Laukens, K. & Van Puyvelde, S., 2023, In: Nature Communications. 14, 1, 12 p., 3517.

Antibiotic use by poultry farmers in Kiambu County, Kenya: exploring practices and drivers of potential overuse

Kariuki, J. W., Jacobs, J., Ngogang, M. P. & Howland, O., 2023, In: Antimicrobial Resistance and Infection Control. 12, 1, p. 3 11 p.

Challenges of antibiotic formulations and administration in the treatment of bloodstream infections in children under five admitted to Kisantu Hospital, Democratic Republic of Congo

Tack, B., Vita, D., Ntangu, E., Ngina, J., Mukoko, P., Lutumba, A., Vangeluwe, D., Toelen, J., Allegaert, K., Lunguya, O., Ravinetto, R. & Jacobs, J., 2023, In: American Journal of Tropical Medicine and Hygiene. 109, 6, p. 1245-1259 15 p.

Characterization of typhoid intestinal perforation in Africa: results from the severe typhoid fever surveillance in Africa program

Birkhold, M., Datta, S., Pak, G. D., Im, J., Ogundoyin, O. O., Olulana, D. I., Lawal, T. A., Afuwape, O. O., Kehinde, A., Phoba, M-F., Nkoji, G., Aseffa, A., Teferi, M., Yeshitela, B., Popoola, O., Owusu, M., Nana, L. R. W., Cakpo, E. G., Ouedraogo, M., Ouangre, E., & 15 othersOuedraogo, I., Heroes, A-S., Jacobs, J., Mogeni, O. D., Haselbeck, A., Sukri, L., Neuzil, K. M., Metila, O. L., Owusu-Dabo, E., Adu-Sarkodie, Y., Bassiah, A. S., Rakotozandrindrainy, R., Okeke, I. N., Zellweger, R. M. & Marks, F., 2023, In: Open Forum Infectious Diseases. 10, Suppl 1, p. S67-S73 7 p.

Coherence of output gaps in the euro area: the impact of the COVID-19 shock

de Haan, J., Jacobs, J. P. A. M. & Zijm, R., 2023, (E-pub ahead of print) In: European Journal of Political Economy. 102369.

Growth of gram-negative bacteria in antiseptics, disinfectants and hand hygiene products in two tertiary care hospitals in West Africa-a cross-sectional survey

Lompo, P., Heroes, A-S., Agbobli, E., Kazienga, A., Peeters, M., Tinto, H., Lagrou, K., Sangaré, L., Affolabi, D. & Jacobs, J., 2023, In: Pathogens. 12, 7, 917.

Health itinerary-related survival of children under-five with severe malaria or bloodstream infection, DR Congo

Tack, B., Vita, D., Nketo, J., Wasolua, N., Ndengila, N., Herssens, N., Ntangu, E., Kasidiko, G., Nkoji-Tunda, G., Phoba, M-F., Im, J., Jeon, H. J., Marks, F., Toelen, J., Lunguya, O. & Jacobs, J., 2023, In: PLoS Neglected Tropical Diseases. 17 , 3, p. e0011156 24 p.

Intestinal carriage of invasive non-typhoidal *Salmonella* among household members of children with *Salmonella* bloodstream infection, Kisangani, DR Congo

Falay, D., Hardy, L., Bonebe, E., Mattheus, W., Ngbonda, D., Lunguya, O. & Jacobs, J., 2023, In: Frontiers in Microbiology. 14, 9 p., 1241961.

Invasive non-typhoidal *Salmonella* from stool samples of healthy human carriers are genetically similar to blood culture isolates: a report from the Democratic Republic of the Congo

Mbuyi-Kalonji, L., Hardy, L., Mbuyamba, J., Phoba, M-F., Nkoji, G., Mattheus, W., Im, J., Marks, F., Jeon, H. J., Jacobs, J. & Lunguya, O., 2023, In: *Frontiers in Microbiology*. 14, 15 p., 1282894.

Knowledge, attitude and practice survey of bacterial contamination of blood for transfusion in the Democratic Republic of the Congo

Heroes, A-S., Kabamba, P., Luyindula, A., Bongenya, B., Nzazi, P., Nasali, M., Akele, C., Lusinga, M-P., Ekofo, J., Coene, J., Van Cauwenberg, I., Vandekerckhove, P., Lunguya, O. & Jacobs, J., 2023, (E-pub ahead of print) In: *Blood Transfusion*. 21 p.

Methicillin-resistant *Staphylococcus aureus* bloodstream infections in hospitalized patients in Peru

García, C., Hinostroza, N., Gordillo, V., Inchaustegui, M. L., Astocondor, L., Chincha, O., Alejos, S., Olivera, M., Bojórquez-Fernández, D., Concha-Velasco, F., Vásquez, N., Castaneda-Sabogal, A., Sullón, P., Fernández, V., Villegas-Chiroque, M., López, E., Hueda-Zavaleta, M., Vidaurre, A., Bocángel, C., Barco, E., & 4 othersParicahua, E., Zervos, M., Jacobs, J. & Krapp, F., 2023, In: *American Journal of Tropical Medicine and Hygiene*. 109, 5, p. 1118-1121 4 p.

Not recommended fixed-dose antibiotic combinations in low- and middle-income countries - the example of Tanzania

Vliegenthart-Jongbloed, K. & Jacobs, J., 2023, In: *Antimicrobial Resistance and Infection Control*. 12, 10 p., 37.

Phylogenomic investigation of an outbreak of fluoroquinolone-resistant *Salmonella enterica* subsp. *enterica* serovar Paratyphi A in Phnom Penh, Cambodia

Dusadeepong, R., Delvallez, G., Cheng, S., Meng, S., Sreng, N., Letchford, J., Choun, K., Teav, S., Hardy, L., Jacobs, J., Hoang, T., Seemann, T., Howden, B. P., Glaser, P., Stinear, T. P. & Vandelennoote, K., 2023, In: *Microbial Genomics*. 9, 3, 12 p., 000972.

Plugging the leaks: antibiotic resistance at human-animal interfaces in low-resource settings

Nadimpalli, M., Stegger, M., Viau, R., Yith, V., de Lauzanne, A., Sem, N., Borand, L., Huynh, BT., Brisse, S., Passet, V., Overballe-Petersen, S., Aziz, M., Gouali, M., Jacobs, J., Phe, T., Hungate, BA., Leshyk, VO., Pickering, AJ., Gravéy, F., Liu, C., & 3 othersJohnson, TJ., Le Hello, S. & Price, LB., 2023, In: *Frontiers in Ecology and the Environment*. 21, 9, p. 428-434 7 p.

Prevalence of antimicrobial resistance in gram-negative bacteria bloodstream infections in Peru and associated outcomes: VIRAPERU Study

Krapp, F., García, C., Hinostroza, N., Astocondor, L., Rondon, C. R., Ingelbeen, B., Alpaca-Salvador, H. A., Amaro, C., Aguado Ventura, C., Barco-Yaipén, E., Bocangel Fernandez, C., Briones, A., Burgos, A., Campana, R., Castillo, K., Castañeda-Sabogal, A., Coaquira, A., Concha-Velasco, F., Cuadros, E. C., Chincha, O., & 16 othersDíaz, J. C., Díaz Sipión, R., Fernandez, V., Hueda-Zavaleta, M., López, E., Valera-Krumdieck, M., Vásquez, R., Vidaurre Torres, A. M., Villegas-Chiroque, M., Sarmiento Lopez, F., Sullón Zavaleta, P. A., Sierra Chavez, E., Paricahua Peralta, E., Peralta Córdova, T., Pino-Dueñas, J. E. & Jacobs, J., 2023, In: *American Journal of Tropical Medicine and Hygiene*. 109, 5, p. 1095-1106 12 p.

The burden of antimicrobial resistance in the Americas in 2019: a cross-country systematic analysis

Antimicrobial Resistance Colla, 2023, In: *Lancet Regional Health - Americas*. 25, 16 p., 100561.

***Escherichia coli* from urine samples of pregnant women as an indicator for antimicrobial resistance in the community: a field study from rural Burkina Faso**

Post, A. S., Guiraud, I., Peeters, M., Lombo, P., Ombelet, S., Karama, I., Yougbare, S., Garba, Z., Rouamba, E., Tinto, H. & Jacobs, J., 2022, In: *Antimicrobial Resistance and Infection Control*. 11, 1, p. 112 10 p., 112.

Accuracy of C-reactive protein and procalcitonin for diagnosing bacterial infections among subjects with persistent fever in the tropics

Van Duffel, L., Yansouni, C. P., Jacobs, J., Van Esbroeck, M., Ramadan, K., Buyze, J., Tsoumanis, A., Barbé, B., Boelaert, M., Verdonck, K., Chappuis, F. & Bottieau, E., 2022, In: *Open Forum Infectious Diseases*. 9, 9, p. ofac434 9 p., 434.

Antibiotic use from formal and informal healthcare providers in the Democratic Republic of Congo: a population-based study in two health zones

Ingelbeen, B., Phanza, D. M., Phoba, M-F., Budiongo, M. Y., Berhe, N. M., Kamba, F. K., Kalonji, L., Mbangi, B., Hardy, L., Tack, B., Im, J., Heyerdahl, L. W., Da Luz, R. I., Bonten, M. J., Lunguya, O., Jacobs, J., Mbala, P. & van der Sande, M. A. B., 2022, In: Clinical Microbiology and Infection. 28, 9, p. 1272-1277 6 p.

Biphasic versus monophasic manual blood culture bottles for low-resource settings: an *in-vitro* study

Ombelet, S., Natale, A., Ronat, J-B., Kesteman, T., Vandenberg, O., Jacobs, J. & Hardy, L., 2022, In: Lancet Microbe. 3, 2 , p. e124-e132 9 p.

Blood culture surveillance in a secondary care hospital in Benin: epidemiology of bloodstream infection pathogens and antimicrobial resistance

Ombelet, S., Kpossou, G., Kotchare, C., Agbobli, E., Sogbo, F., Massou, F., Lagrou, K., Barbé, B., Affolabi, D. & Jacobs, J., 2022, In: BMC Infectious Diseases. 22, 1, p. 1-15 15 p., 119.

Considerations in evaluating equipment-free blood culture bottles: a short protocol for use in low-resource settings

Ombelet, S., Natale, A., Ronat, J-B., Vandenberg, O., Jacobs, J. & Hardy, L., 2022, In: PLoS ONE. 17, 4, 14 p., e0267491.

Distribution of serotypes and antibiotic resistance of invasive *Pseudomonas aeruginosa* in a multi-country collection

Nasrin, S., Hegerle, N., Sen, S., Nkeze, J., Sen, S., Permalal-Booth, J., Choi, M., Sinclair, J., Tapia, M. D., Johnson, J. K., Sow, S. O., Thaden, J. T., Fowler, V. G., Krogfelt, K. A., Brauner, A., Protonotariou, E., Christaki, E., Shindo, Y., Kwa, A. L., Shakoor, S., & 7 othersSingh-Moodley, A., Perovic, O., Jacobs, J., Lunguya, O., Simon, R., Cross, A. S. & Tennant, S. M., 2022, In: BMC Microbiology. 22, 1, p. 1-12 12 p., 13.

Epidemiological cut-off value and antibiotic susceptibility test methods for azithromycin in a collection of multi-country invasive non-typhoidal *Salmonella*

Tack, B., Phoba, M-F., Thong, P., Lombo, P., Hupko, C., Desmet, S., Martiny, D., Mattheus, W., De La Gandara, M. P., Mbuyi-Kalonji, L., Kuijpers, L., Prevost, B., Barbé, B., Vandenberg, O., Lunguya, O., Ruiz, J., Jacobs, J. & Hardy, L., 2022 , In: Clinical Microbiology and Infection. 28, 12, p. 1615-1623 9 p.

Etiological spectrum of persistent fever in the tropics and predictors of ubiquitous infections: a prospective four-country study with pooled analysis

Bottieau, E., Van Duffel, L., El Safi, S., Koirala, K. D., Khanal, B., Rijal, S., Bhattacharai, N. R., Phe, T., Lim, K., Mukendi, D., Kalo, J-R. L., Lutumba, P., Barbé, B., Jacobs, J., Van Esbroeck, M., Foqué, N., Tsoumanis, A., Parola, P., Yansouni, C. P., Boelaert, M., & 2 othersVerdonck, K. & Chappuis, F., 2022, In: BMC Medicine. 20, 1, p. 144

Field experiences with handheld diagnostic devices to triage children under five presenting with severe febrile illness in a district hospital in DR Congo

Tack, B., Vita, D., Mansosa, I., Mbaki, T. N., Wasolua, N., Luyindula, A., Toelen, J., Lunguya, O. & Jacobs, J., 2022, In: Diagnostics (Basel). 12, 3, 21 p., 746.

Genetic and structural variation in the O-antigen of *Salmonella enterica* serovar Typhimurium isolates causing bloodstream infections in the Democratic Republic of the Congo

Van Puyvelde, S., Gasperini, G., Biggel, M., Phoba, M-F., Raso, M. M., de Block, T., Vanheer, L. N., Deborggraeve, S., Vandenberg, O., Thomson, N., Ravenscroft, N., MacLennan, C. A., Bellich, B., Cescutti, P., Dougan, G., Jacobs, J., Lunguya, O. & Micoli, F., 2022, In: MBio. 13, 4, 15 p., e0037422.

Global burden of bacterial antimicrobial resistance in 2019: a systematic analysis

Antimicrobial Resistance Collabora, 2022, In: Lancet. 399, 10325, p. 629-655 27 p.

Nasopharyngeal colonisation dynamics of bacterial pathogens in patients with fever in rural Burkina Faso: an observational study

Martens, L., Kaboré, B., Post, A., van der Gaast-de Jongh, C. E., Langereis, J. D., Tinto, H., Jacobs, J., van der Ven, A. J., de Mast, Q. & de Jonge, M. I., 2022, In: BMC Infectious Diseases. 22, 1, p. 1-10 10 p., 15.

Pilot testing of the "turbidimeter", a simple, universal reader intended to complement and enhance bacterial growth detection in manual blood culture systems in low-resource settings

Barbé, B., Corsmit, E., Jans, J., Kaur, K., Baets, R., Jacobs, J. & Hardy, L., 2022, In: *Diagnostics (Basel)*. 12, 3, 13 p., 615.

Presence of Gram-negative bacteria and *Staphylococcus aureus* on the skin of blood donors in the Democratic Republic of the Congo

Heroes, A-S., Okitale, P., Ndalingosu, N., Vandekerckhove, P., Lunguya, O. & Jacobs, J., 2022, (E-pub ahead of print) In: *Transfusion*.

Urban rats as carriers of invasive *Salmonella Typhimurium* sequence type 313, Kisangani, Democratic Republic of Congo

Falay, D., Hardy, L., Tanzito, J., Lunguya, O., Bonebe, E., Peeters, M., Mattheus, W., Van Geet, C., Verheyen, E., Akaike, D., Katuala, P., Ngbonda, D., Weill, F-X., Pardos de la Gandara, M. & Jacobs, J., 2022, In: *PLoS Neglected Tropical Diseases*. 16, 9, 21 p., e0010740.

Use of WATCH antibiotics prior to presentation to the hospital in rural Burkina Faso

Valia, D., Ingelbeen, B., Kaboré, B., Karama, I., Peeters, M., Lompo, P., Vlieghe, E., Post, A., Cox, J., de Mast, Q., Robert, A., van der Sande, M. A. B., Villalobos, H. R., van der Ven, A., Tinto, H. & Jacobs, J., 2022, In: *Antimicrobial Resistance and Infection Control*. 11, 1, 7 p., 59.

A comparative evaluation of mobile medical APPS (MMAS) for reading and interpreting malaria rapid diagnostic tests

Visser, T., Ramachandra, S., Pothin, E., Jacobs, J., Cunningham, J., Menach, A. L., Gatton, M. L., Dos Santos Souza, S., Nelson, S., Rooney, L. & Aidoo, M., 2021, In: *Malaria Journal*. 20, 1, 12 p., 39.

Aetiology of acute febrile illness in children in a high malaria transmission area in West Africa

Kaboré, B., Post, A., Lompo, P., Bognini, J. D., Diallo, S., Kam, B. T. D., Rahamat-Langendoen, J., Wertheim, H. F. L., van Opzeeland, F., Langereis, J. D., de Jonge, M. I., Tinto, H., Jacobs, J., van der Ven, A. J. & de Mast, Q., 2021, In: *Clinical Microbiology and Infection*. 27, 4, p. 590-596 7 p.

Altered ex-vivo cytokine responses in children with asymptomatic *Plasmodium falciparum* infection in Burkina Faso: an additional argument to treat asymptomatic malaria?

Post, A., Kaboré, B., Berendsen, M., Diallo, S., Traore, O., Arts, R. J. W., Netea, M. G., Joosten, L. A. B., Tinto, H., Jacobs, J., de Mast, Q. & van der Ven, A., 2021, In: *Frontiers in Immunology*. 12, 13 p., 614817.

Antibiotic use prior to seeking medical care in patients with persistent fever: a cross-sectional study in four low- and middle-income countries

Ingelbeen, B., Koirala, K. D., Verdonck, K., Barbé, B., Mukendi, D., Thong, P., El Safi, S., Van Duffel, L., Bottieau, E., van der Sande, M., Boelaert, M., Chappuis, F. & Jacobs, J., 2021, In: *Clinical Microbiology and Infection*. 27, 9, p. 1293-1300 8 p.

COVID-19 antibody detecting rapid diagnostic tests show high cross-reactivity when challenged with pre-pandemic malaria, schistosomiasis and dengue samples

Vanroye, F., Van den Bossche, D., Brosius, I., Tack, B., Esbroeck, M. V. & Jacobs, J., 2021, In: *Diagnostics (Basel)*. 11, 7 , 13 p., 1163.

Culture media for clinical bacteriology in low- and middle-income countries: challenges, best practices for preparation and recommendations for improved access

Orekan, J., Barbé, B., Oeng, S., Ronat, J-B., Letchford, J., Jacobs, J., Affolabi, D. & Hardy, L., 2021, In: *Clinical Microbiology and Infection*. 27, 10, p. 1400-1408 9 p.

Direct association between rainfall and non-typhoidal *Salmonella* bloodstream infections in hospital-admitted children in the Democratic Republic of Congo

Tack, B., Vita, D., Phoba, M-F., Mbuyi-Kalonji, L., Hardy, L., Barbé, B., Jacobs, J., Lunguya, O. & Jacobs, L., 2021, In: *Scientific Reports*. 11, 1, p. 21617

Effect of bovine lactoferrin on prevention of late-onset sepsis in infants: a pooled analysis of individual patient data from two randomized controlled trials

Ochoa, T. J., Loli, S., Mendoza, K., Carcamo, C., Bellomo, S., Cam, L., Castañeda, A., Campos, M., Jacobs, J., Cossey, V. & Zegarra, J., 2021, In: Biochemistry and Cell Biology = Biochimie et Biologie Cellulaire. 99, 1, p. 14-19 6 p.

Evaluation of MicroScan bacterial identification panels for low-resource settings

Ombelet, S., Natale, A., Ronat, J-B., Vandenberg, O., Hardy, L. & Jacobs, J., 2021, In: Diagnostics. 11, 2, 19 p., 349.

High frequency of *Taenia solium* antigen positivity in patients admitted for neurological disorders in the rural hospital of Mosango, Democratic Republic of Congo

Mukendi, D., Kalo, J-R. L., Lutumba, P., Barbé, B., Jacobs, J., Yansouni, C. P., Gabriël, S., Dorny, P., Chappuis, F., Boelaert, M., Winkler, A. S., Verdonck, K. & Bottieau, E., 2021, In: BMC Infectious Diseases. 21, 1, p. 359

Infection Manager System (IMS) as a new hemocytometry-based bacteremia detection tool: a diagnostic accuracy study in a malaria-endemic area of Burkina Faso

Post, A., Kaboré, B., Bognini, J., Diallo, S., Lombo, P., Kam, B., Herssens, N., van Opzeeland, F., van der Gaast-de Jongh, C. E., Langereis, J. D., de Jonge, M. I., Rahamat-Langendoen, J., Bousema, T., Wertheim, H., Sauerwein, R. W., Tinto, H., Jacobs, J., de Mast, Q. & van der Ven, A. J., 2021, In: PLoS Neglected Tropical Diseases. 15, 3, 20 p., e0009187.

Nonautomated blood cultures in a low-resource setting: optimizing the timing of blind subculture

Ombelet, S., Peeters, M., Phe, C., Tsoumanis, A., Kham, C., Teav, S., Vlieghe, E., Phe, T. & Jacobs, J., 2021, In: American Journal of Tropical Medicine and Hygiene. 104, 2, p. 612-621 10 p.

Onchocerciasis prevalence among persons with epilepsy in an onchocerciasis hypo-endemic area in the Democratic Republic of Congo: a cross-sectional study

Hotterbeekx, A., Verdonck, K., Mukendi, D., Lilo-Kalo, J-R., Lutumba, P., Boelaert, M., Hardy, L., Barbé, B., Jacobs, J., Bottieau, E. & Colebunders, R., 2021, In: Pathogens. 10, 4, 8 p., 389.

Performance of automated point-of-care respiratory rate counting versus manual counting in children under five admitted with severe febrile illness to Kisantu Hospital, DR Congo

Tack, B., Vita, D., Mbaki, T. N., Lunguya, O., Toelen, J. & Jacobs, J., 2021, In: Diagnostics (Basel). 11, 11

Triazole-resistance in environmental *Aspergillus fumigatus* in Latin American and African countries

Resendiz-Sharpe, A., Dewaele, K., Merckx, R., Bustamante, B., Vega-Gomez, M. C., Rolon, M., Jacobs, J., Verweij, P. E., Maertens, J. & Lagrou, K., 2021, In: Journal of Fungi. 7, 4, 14 p., 292.

Underutilization and quality gaps in blood culture processing in public hospitals of Peru

Krapp, F., Rondon, C., Amaro, C., Barco-Yaipén, E., Valera-Krumdieck, M., Vásquez, R., Briones, A., Casapia, M., Burgos, A., López, F. S., Vilcapoma, P., Sipión, R. D., Villegas-Chiroque, M., Castillo, K., Pino-Dueñas, J., Cuadros, E. C., Alpaca-Salvador, H., Campana, R., Córdova, T. P., Chavez, E. S., & 4 othersVentura, C. A., Peeters, M., Jacobs, J. & Garcia, C., 2021, (E-pub ahead of print) In: American Journal of Tropical Medicine and Hygiene. 106, 2, p. 432–440

Bacterial contamination of blood products for transfusion in the Democratic Republic of the Congo: temperature monitoring, qualitative and semi-quantitative culture

Heroes, A-S., Ndalingosu, N., Kalema, J., Luyindula, A., Kashitu, D., Akele, C., Kabinda, J., Lagrou, K., Vandekerckhove, P., Jacobs, J. & Lunguya, O., 2020, In: Blood Transfusion. 18, 5, p. 348-358 11 p.

High genetic similarity between non-typhoidal *Salmonella* isolated from paired blood and stool samples of children in the Democratic Republic of the Congo

Phoba, M-F., Barbé, B., Ley, B., Van Puyvelde, S., Post, A., Mattheus, W., Deborggraeve, S., Lunguya, O. & Jacobs, J., 2020, In: PLoS Neglected Tropical Diseases. 14, 7, 15 p., e0008377.

Implementing COVID-19 (SARS-CoV-2) rapid diagnostic tests in sub-Saharan Africa: a review

Jacobs, J., Kühne, V., Lunguya, O., Affolabi, D., Hardy, L. & Vandenberg, O., 2020, In: *Frontiers in Medicine*. 7, 17 p., 557797.

Invasive non-typhoidal *Salmonella* infections in sub-Saharan Africa: a systematic review on antimicrobial resistance and treatment

Tack, B., Vanaenrode, J., Verbakel, J. Y., Toelen, J. & Jacobs, J., 2020, In: *BMC Medicine*. 18, 1, 22 p., 212.

Is mother's own milk Lactoferrin intake associated with reduced neonatal sepsis, necrotizing enterocolitis, and death?

Ochoa, T. J., Mendoza, K., Carcamo, C., Zegarra, J., Bellomo, S., Jacobs, J. & Cossey, V., 2020, In: *Neonatology*. 117, 2 , p. 167-174 8 p.

Non-typhoidal *Salmonella* intestinal carriage in a *Schistosoma mansoni* endemic community in a rural area of the Democratic Republic of Congo

Mbuyi-Kalonji, L., Barbé, B., Nkoji, G., Madinga, J., Roucher, C., Linsuke, S., Hermy, M., Heroes, A-S., Mattheus, W., Polman, K., Lutumba, P., Phoba, M-F., Lunguya, O. & Jacobs, J., 2020, In: *PLoS Neglected Tropical Diseases*. 14, 2, 15 p., e0007875.

Non-typhoidal *Salmonella* bloodstream infections in Kisantu, DR Congo: emergence of O5-negative *Salmonella* Typhimurium and extensive drug resistance

Tack, B., Phoba, M-F., Barbé, B., Kalonji, L. M., Hardy, L., Van Puyvelde, S., Ingelbeen, B., Falay, D., Ngbonda, D., van der Sande, M. A. B., Deborggraeve, S., Jacobs, J. & Lunguya, O., 2020, In: *PLoS Neglected Tropical Diseases*. 14, 4, 22 p., e0008121.

Red blood cell homeostasis in children and adults with and without asymptomatic malaria infection in Burkina Faso

Kaboré, B., Post, A., Berendsen, M. L. T., Diallo, S., Lompo, P., Derra, K., Rouamba, E., Jacobs, J., Tinto, H., de Mast, Q. & van der Ven, A. J., 2020, In: *PLoS ONE*. 15, 11, 19 p., e0242507.

The diversity of lipopolysaccharide (O) and capsular polysaccharide (K) antigens of invasive *Klebsiella pneumoniae* in a multi-country collection

Choi, M., Hegerle, N., Nkeze, J., Sen, S., Jamindar, S., Nasrin, S., Sen, S., Permala-Booth, J., Sinclair, J., Tapia, M. D., Johnson, J. K., Mamadou, S., Thaden, J. T., Fowler, V. G., Aguilar, A., Terán, E., Decre, D., Morel, F., Krogfelt, K. A., Brauner, A., & 13 othersProtonotariou, E., Christaki, E., Shindo, Y., Lin, Y-T., Kwa, A. L., Shakoor, S., Singh-Moodley, A., Perovic, O., Jacobs, J., Lunguya, O., Simon, R., Cross, A. S. & Tennant, S. M., 2020, In: *Frontiers in Microbiology*. 11, 12 p., 1249.

The Mini-Lab: accessible clinical bacteriology for low-resource settings

Mini-Lab Sci Comm, 2020, In: *Lancet Microbe*. 1, 2, p. E56-E58 3 p.

The Surveillance for Enteric Fever in Asia Project (SEAP), Severe Typhoid Fever Surveillance in Africa (SETA), Surveillance of Enteric Fever in India (SEFI), and Strategic Typhoid Alliance Across Africa and Asia (STRATAA) population-based enteric fever studies: a review of methodological similarities and differences

Carey, M. E., MacWright, W. R., Im, J., Meiring, J. E., Gibani, M. M., Park, S. E., Longley, A., Jeon, H. J., Hemlock, C., Yu, A. T., Soura, A., Aiemjoy, K., Owusu-Dabo, E., Terferi, M., Islam, S., Lunguya, O., Jacobs, J., Gordon, M., Dolecek, C., Baker, S., & 19 othersPitzer, V. E., Yousafzai, M. T., Tonks, S., Clemens, J. D., Date, K., Qadri, F., Heyderman, R. S., Saha, S. K., Basnyat, B., Okeke, I. N., Qamar, F. N., Voysey, M., Luby, S., Kang, G., Andrews, J., Pollard, A. J., John, J., Garrett, D. & Marks, F., 2020, In: *Clinical Infectious Diseases*. 71, Supplement_2, p. S102-S110 9 p.

***Escherichia coli* ST410 among humans and the environment in Southeast Asia**

Nadimpalli, M. L., de Lauzanne, A., Phe, T., Borand, L., Jacobs, J., Fabre, L., Naas, T., Le Hello, S. & Stegger, M., 2019, In: *International Journal of Antimicrobial Agents*. 54, 2, p. 228-232 5 p.

***Salmonella* Typhi from blood cultures in the Democratic Republic of the Congo: a 10-year surveillance**

Tack, B., Phoba, M-F., Van Puyvelde, S., Kalonji, L. M., Hardy, L., Barbé, B., Van der Sande, M. A. B., Monsieurs, E., Deborggraeve, S., Lunguya, O. & Jacobs, J., 2019, In: *Clinical Infectious Diseases*. 68, Suppl 2, p. S130-S137 8 p.

***Salmonella Typhi, Paratyphi A, Enteritidis and Typhimurium* core proteomes reveal differentially expressed proteins linked to the cell surface and pathogenicity**

Saleh, S., Van Puyvelde, S., Staes, A., Timmerman, E., Barbé, B., Jacobs, J., Gevaert, K. & Deborggraeve, S., 2019, In: PLoS Neglected Tropical Diseases. 13, 5, 16 p., e0007416.

A cross-sectional analysis of Zika virus infection in symptomatic and asymptomatic non-pregnant travellers: experience of a European reference center during the outbreak in the Americas

Huits, R., Maniewski, U., Van den Bossche, D., Lotgering, E., Tsoumanis, A., Cnops, L., Jacobs, J., Van Esbroeck, M. & Bottieau, E., 2019, In: Travel Medicine and Infectious Disease. 27, p. 107-114 8 p.

Accuracy of malaria diagnosis by clinical laboratories in Belgium

Loomans, L., Conesa Botella, A., D'hondt, A., Verschueren, J., Van den Bossche, D., Van Esbroeck, M. & Jacobs, J., 2019, In: Malaria Journal. 18, 1, 7 p., 104.

An African *Salmonella Typhimurium* ST313 sublineage with extensive drug-resistance and signatures of host adaptation

Van Puyvelde, S., Pickard, D., Vandelannoote, K., Heinz, E., Barbé, B., de Block, T., Clare, S., Coomber, E. L., Harcourt, K., Sridhar, S., Lees, E. A., Wheeler, N. E., Klemm, E. J., Kuijpers, L., Kalonji, L. M., Phoba, M-F., Falay, D., Ngbonda, D., Lunguya, O., Jacobs, J., & 2 others Dougan, G. & Deborggraeve, S., 2019, In: Nature Communications. 10, 1, 12 p., 4280.

Bacteriemia por *Acinetobacter baumannii* productor de oxacilinasa en hospitales de Lima, Perú

Castillo, Y., Nieto, C., Astocondor, L., Jacobs, J. & Garcia, C., 2019, In: Revista Peruana de Medicina Experimental y Salud Pública. 36, 2, p. 364-366 3 p.

Best practices of blood cultures in low- and middle-income countries

Ombelet, S., Barbé, B., Affolabi, D., Ronat, J-B., Lombo, P., Lunguya, O., Jacobs, J. & Hardy, L., 2019, In: Frontiers in Medicine. 6, 27 p., 131.

Causes and outcome of bloodstream infections in Cameroon adults: results of 9 year surveillance

De Vos, K., Liesenborghs, A., Phe, T., Veng, C., Jacobs, J. & Vlieghe, E., 2019, In: Transactions of the Royal Society of Tropical Medicine and Hygiene. 113, S1, p. S232-S232 1 p., P440.

Characterization of ESBL-producing *Salmonella enterica* serovar *infantis* infection in humans, Lima, Peru

Salmolber CYTED Network, 2019, In: American Journal of Tropical Medicine and Hygiene. 101, 4, p. 746-748 3 p.

Diagnostic accuracy of C-reactive protein and procalcitonin determination for the identification of bacterial infections in patients with persistent fever in the tropics

Van Duffel, L., Jacobs, J., Van Esbroeck, M., Buyze, J., Tsoumanis, A., Yansouni, C. P., Boelaert, M., Verdonck, K., Chappuis, F. & Bottieau, E., 2019, In: Transactions of the Royal Society of Tropical Medicine and Hygiene. 113, S1, p. S49-S49 1 p., 122.

Diagnostic bacteriology in district hospitals in sub-Saharan Africa: at the forefront of the containment of antimicrobial resistance

Jacobs, J., Hardy, L., Semret, M., Lunguya, O., Phe, T., Affolabi, D., Yansouni, C. & Vandenberg, O., 2019, In: Frontiers in Medicine. 6, 205.

How can the typhoid fever surveillance in Africa and the Severe Typhoid Fever in Africa programs contribute to the introduction of typhoid conjugate vaccines?

Jeon, H. J., Im, J., Haselbeck, A., Holm, M., Rakotozandrindrainy, R., Bassiahi, A. S., Panzner, U., Mogeni, O. D., Seo, H. J., Lunguya, O., Jacobs, J., Okeke, I. N., Terferi, M., Owusu-Dabo, E., Dougan, G., Carey, M., Steele, A. D., Kim, J. H., Clemens, J. D., Andrews, J. R., & 3 others Park, S. E., Baker, S. & Marks, F., 2019, In: Clinical Infectious Diseases. 69, Supplement_6, p. S417-S421 5 p.

Meat and fish as sources of extended-spectrum β-lactamase-producing *Escherichia coli*, Cambodia

BIRDY Study Group, 2019, In: Emerging Infectious Diseases. 25, 1, p. 126-131 6 p., 126.

Potential usefulness of C-reactive protein and procalcitonin determination in patients admitted for neurological disorders in rural Democratic Republic of Congo

Bottieau, E., Mukendi, D., Kalo, J-R. L., Lutumba, P., Barbé, B., Ramadan, K., Van Esbroeck, M., Jacobs, J., Yansouni, C. P., Chappuis, F., Boelaert, M., Winkler, A. S. & Verdonck, K., 2019, In: *Scientific Reports*. 9, 1, 9 p., 15505.

Recurrent cholera outbreaks, Democratic Republic of the Congo, 2008-2017

Ingelbeen, B., Hendrickx, D., Miwanda, B., van der Sande, M., Mossoko, M., Vochten, H., Riems, B., Nyakio, J-P., Vanlerberghe, V., Lunguya, O., Jacobs, J., Boelaert, M., Kebela, B. I., Bompangue, D. & Muyembe, J-J., 2019, In: *Emerging Infectious Diseases*. 25, 5, p. 856-864 9 p.

Slow growth of *Burkholderia pseudomallei* compared to other pathogens in an adapted blood culture system in Phnom Penh, Cambodia

Peeters, M., Ombelet, S., Chung, P., Tsoumanis, A., Lim, K., Long, L., De Smet, B., Kham, C., Teav, S., Vlieghe, E., Phe, T. & Jacobs, J., 2019, In: *Journal of Medical Microbiology*. 68, 8, p. 1159-1166 8 p.

Supporting evidence for a human reservoir of invasive non-typhoidal *Salmonella* from household samples in Burkina Faso

Post, A., Diallo, S. N., Guiraud, I., Lombo, P., Tahita, M. C., Maltha, J., Van Puyvelde, S., Mattheus, W., Ley, B., Thriemer, K., Rouamba, E., Derra, K., Deborggraeve, S., Tinto, H. & Jacobs, J., 2019, In: *PLoS Neglected Tropical Diseases*. 13, 10, 18 p., 0007782.

The monitoring and evaluation of a multicountry surveillance study, the Severe Typhoid Fever in Africa program

Mogeni, O. D., Espinoza, L. M. C., Im, J., Panzner, U., Toy, T., Pak, G. D., Haselbeck, A., Ramani, E., Schuett-Gerowitz, H., Jacobs, J., Metila, O. L., Adewusi, O. J., Okeke, I. N., Ogunleye, V. I., Owusu-Dabo, E., Rakotozandrindrainy, R., Soura, A. B., Teferi, M., Roy, K. C., Macwright, W., & 6 othersBreiman, R. F., Kim, J. H., Mogasale, V., Baker, S., Park, S. E. & Marks, F., 2019, In: *Clinical Infectious Diseases*. 69, Supplement_6, p. S510-S518 9 p.

The Severe Typhoid Fever in Africa program: study design and methodology to assess disease severity, host immunity, and carriage associated with invasive salmonellosis

Park, S. E., Toy, T., Espinoza, L. M. C., Panzner, U., Mogeni, O. D., Im, J., Poudyal, N., Pak, G. D., Seo, H., Chon, Y., Schutt-Gerowitz, H., Mogasale, V., Ramani, E., Dey, A., Park, J. Y., Kim, J-H., Seo, H. J., Jeon, H. J., Haselbeck, A., Conway Roy, K., & 24 othersMacWright, W., Adu-Sarkodie, Y., Owusu-Dabo, E., Osei, I., Owusu, M., Rakotozandrindrainy, R., Soura, A. B., Kabore, L. P., Teferi, M., Okeke, I. N., Kehinde, A., Popoola, O., Jacobs, J., Metila, O. L., Meyer, C. G., Crump, J. A., Elias, S., Maclennan, C. A., Parry, C. M., Baker, S., Mintz, E. D., Breiman, R. F., Clemens, J. D. & Marks, F., 2019, In: *Clinical Infectious Diseases*. 69, Supplement 6, p. S422-S434 13 p.

The XN-30 hematology analyzer for rapid sensitive detection of malaria: a diagnostic accuracy study

Post, A., Kaboré, B., Reuling, I. J., Bognini, J., van der Heijden, W., Diallo, S., Lombo, P., Kam, B., Herssens, N., Lanke, K., Bousema, T., Sauerwein, R. W., Tinto, H., Jacobs, J., de Mast, Q. & van der Ven, A. J., 2019, In: *BMC Medicine*. 17, 1 , 12 p., 103.

When 'substandard' is the standard, who decides what is appropriate? Exploring healthcare provision in Cambodia

Gryseels, C., Kuijpers, L. M. F., Jacobs, J. & Grietens, K. P., 2019, In: *Critical Public Health*. 29, 4, p. 460-472 13 p.

16S metagenomics for diagnosis of bloodstream infections: opportunities and pitfalls

Rutanga, J. P., Van Puyvelde, S., Heroes, A-S., Muvunyi, C. M., Jacobs, J. & Deborggraeve, S., 2018, In: *Expert Review of Molecular Diagnostics*. 18, 8, p. 749-759 11 p.

Brucellosis among patients with persistent fever in a rural hospital in eastern Sudan

El Safi, S., El Sanousi, E., Elshikh, H., El Amin, N., Mohammed, A., Abdel-Rahman, M., Mohamed, M., Mohammed, S., Malik, A., Ahmed, A., Farah, A., Barbe, B., Verdonck, K., Boelaert, M., Jacobs, J. & Chappuis, F., 2018, In: *American Journal of Tropical Medicine and Hygiene*. 99, 4, p. 202-202 1 p.

Case report: visceral leishmaniasis with *Salmonella paratyphi* and *Brucella melitensis* coinfection as a cause of persistent fever in a patient from Sudan

El Safi, S., Elshikh, H., El Sanousi, E., El Amin, N., Mohammed, A., Verdonck, K., Jacobs, J., Boelaert, M. & Chappuis, F. , 2018, In: *American Journal of Tropical Medicine and Hygiene*. 99, 5, p. 1150-1152

Chikungunya virus infection in Aruba: Diagnosis, clinical features and predictors of post-chikungunya chronic polyarthralgia

Huits, R., De Kort, J., Van Den Berg, R., Chong, L., Tsoumanis, A., Eggermont, K., Bartholomeeusen, K., Ariën, K. K., Jacobs, J., Van Esbroeck, M., Bottieau, E. & Cnops, L., 2018, In: PLoS ONE. 13, 4, 21 p., e0196630.

Chromogenic media for the detection of *Salmonella enterica* serovar *Paratyphi A* in human stool samples: evaluation in a reference setting

Kuijpers, L. M. F., Post, A. S. & Jacobs, J., 2018, In: European Journal of Clinical Microbiology and Infectious Diseases. 37, 11, p. 2181-2190 10 p.

Clinical bacteriology in low-resource settings: today's solutions

Ombelet, S., Ronat, J-B., Walsh, T., Yansouni, C. P., Cox, J., Vlieghe, E., Martiny, D., Semret, M., Vandenberg, O., Jacobs, J. & Bacteriology in Low Resource Settings Working Group, 2018, In: Lancet Infectious Diseases. 18, 8, p. E248-E258 11 p.

Correction: Multi Locus Variable-Number Tandem Repeat (MLVA) typing tools improved the surveillance of *Salmonella enteritidis*: a 6 years retrospective study

Bertrand, S., De Lamine de Bex, G., Wildemauwe, C., Lunguya, O., Phoba, M. F., Ley, B., Jacobs, J., Vanhoof, R. & Mattheus, W., 2018, In: PLoS ONE. 13, 5, 1 p., e0198527.

Diagnostic accuracy of a rapid E1-antigen test for chikungunya virus infection in a reference setting

Huits, R., Okabayashi, T., Cnops, L., Barbe, B., Van Den Berg, R., Bartholomeeusen, K., Arien, K. K., Jacobs, J., Bottieau, E., Nakayama, E. E., Shioda, T. & Van Esbroeck, M., 2018, In: Clinical Microbiology and Infection. 24, 1, p. 78-81 4 p.

Diagnostic accuracy of antigen-based immunochromatographic rapid diagnostic tests for the detection of *Salmonella* in blood culture broth

Kuijpers, L. M. F., Chung, P., Peeters, M., Phoba, M-F., Kham, C., Barbé, B., Lunguya, O. & Jacobs, J., 2018, In: PLoS ONE. 13, 3, 16 p., e0194024.

Diagnostic accuracy of the InBiOS AMD rapid diagnostic test for the detection of *Burkholderia pseudomallei* antigen in grown blood culture broth

Peeters, M., Chung, P., Lin, H., Mortelmans, K., Phe, C., San, C., Kuijpers, L. M. F., Teav, S., Phe, T. & Jacobs, J., 2018, In: European Journal of Clinical Microbiology and Infectious Diseases. 37, 6, p. 1169-1177

Enteric fever in Cambodia: community perceptions and practices concerning disease transmission and treatment

Kuijpers, L. M. F., Gryseels, C., Uk, S., Chung, P., Bory, S., Sreng, B., Parry, A., Jacobs, J. & Peeters, K., 2018, In: American Journal of Tropical Medicine and Hygiene. 99, 6, p. 1369-1377 9 p.

Fluoroquinolone resistance in *Salmonella* insights by whole-genome sequencing

Cuyvers, W. L., Jacobs, J., Wong, V., Klemm, E. J., Deborggraeve, S. & Van Puyvelde, S., 2018, In: Microbial Genomics. 4, 7, 11 p., 195.

Incidence of Zika virus infection in a prospective cohort of Belgian travelers to the Americas in 2016

Huits, R., Van Den Bossche, D., Eggermont, K., Lotgering, E., Feyens, A-M., Potters, I., Jacobs, J., Van Esbroeck, M., Cnops, L. & Bottieau, E., 2018, In: International Journal of Infectious Diseases. p. 39-43 5 p.

Photo-based external quality assessment of malaria rapid diagnostic tests in a non-endemic setting

Vernelen, K., Barbé, B., Gillet, P., Van Esbroeck, M., China, B. & Jacobs, J., 2018, In: PLoS ONE. 13, 8, 12 p., 0201622.

Point-of-care and point-of-'can': leveraging reference-laboratory capacity for integrated diagnosis of fever syndromes in the tropics

Semret, M., Nda, M., Jacobs, J. & Yansouni, C. P., 2018, In: Clinical Microbiology and Infection. p. 836-844 9 p.

Selection of potential therapeutic bacteriophages that lyse a CTX-M-15 extended spectrum β-lactamase producing *Salmonella enterica* serovar Typhi strain from the Democratic Republic of the Congo
Kakabadze, E., Makalatia, K., Grdzelishvili, N., Bakuradze, N., Goderdzishvili, M., Kusradze, I., Phoba, M-F., Lunguya, O., Lood, C., Lavigne, R., Jacobs, J., Deborggraeve, S., De Block, T., Van Puyvelde, S., Lee, D., Coffey, A., Sedrakyan, A., Soentjens, P., De Vos, D., Pirnay, J-P., & 1 others Chanishvili, N., 2018, In: Viruses. 10, 4, p. 172 9 p.

Serotype distribution of clinical *Streptococcus pneumoniae* isolates before the introduction of the 13-valent pneumococcal conjugate vaccine in Cambodia
Inghammar, M., By, Y., Farris, C., Phe, T., Borand, L., Kerleguer, A., Goyet, S., Saphonn, V., Phoeung, C., Vong, S., Rammaert, B., Mayaud, C., Guillard, B., Yasuda, C., Kasper, M. R., Ford, G., Newell, S. W., An, U. S., Sokhal, B., Touch, S., & 5 others Turner, P., Jacobs, J., Messaoudi, M., Komurian-Pradel, F. & Tarantola, A., 2018, In: American Journal of Tropical Medicine and Hygiene. 98, 3, p. 791-796 6 p.

Where there is no brain imaging: safety and diagnostic value of lumbar puncture in patients with neurological disorders in a rural hospital of Central Africa
Mukendi, D., Kalo, J-R. L., Kayembe, T., Lutumba, P., Barbé, B., Gillet, P., Jacobs, J., Yansouni, C. P., Chappuis, F., Verdonck, K., Boelaert, M., Winkler, A. S. & Bottieau, E., 2018, In: Journal of Neurological Sciences. 393, p. 72-79 8 p.

Why the antibiotic resistance crisis requires a One Health approach

Van Puyvelde, S., Deborggraeve, S. & Jacobs, J., 2018, In: Lancet Infectious Diseases. 18, 2, p. 132-134 3 p.

***Salmonella enterica* serovar Typhi producing CTX-M-15 extended spectrum β-lactamase in the Democratic Republic of the Congo**
Phoba, M-F., Barbé, B., Lunguya, O., Masendu, L., Lulengwa, D., Dougan, G., Wong, V. K., Bertrand, S., Ceyssens, P-J., Jacobs, J., Van Puyvelde, S. & Deborggraeve, S., 2017, In: Clinical Infectious Diseases. 65, 7, p. 1229-1231 3 p.

Antibiotic resistance: the need for interdisciplinary education tailored to low-resource settings

Stassijns, J., Vlieghe, E., Caluwaerts, A., Zolfo, M. & Jacobs, J., 2017, In: Tropical Medicine and International Health. 22, p. 182-182 1 p.

Antibiotic stewardship programs in hospitals in low-and middle income countries: current status, priorities and barriers
Cox, J. A., Jacobs, J. & Vlieghe, E., 2017, In: Tropical Medicine and International Health. 22, p. 175-176 2 p.

Antibiotic susceptibility profiles among *Campylobacter* isolates obtained from international travelers between 2007 and 2014

Post, A., Martiny, D., van Waterschoot, N., Hallin, M., Maniewski, U., Bottieau, E., Van Esbroeck, M., Vlieghe, E., Ombelet, S., Vandenberg, O. & Jacobs, J., 2017, In: European Journal of Clinical Microbiology and Infectious Diseases. 36, 11, p. 2101-2107 7 p.

Asymptomatic bacteriuria in pregnant women as a proxy for antibiotic resistance surveillance in the community: preliminary results from a study in Nanoro, rural Burkina Faso

Issa, G., Palpouini, L., Post, A., Barbé, B., Tinto, H. & Jacobs, J., 2017, In: Tropical Medicine and International Health. 22, p. 33-34 2 p.

Characterisation of *Staphylococcus aureus* isolates from bloodstream infections, Democratic Republic of the Congo
Vandendriessche, S., De Boeck, H., Deplano, A., Phoba, M-F., Lunguya, O., Falay, D., Dauly, N., Verhaegen, J., Denis, O. & Jacobs, J., 2017, In: European Journal of Clinical Microbiology and Infectious Diseases. 36, 7, p. 1163-1171 9 p.

Characterization of *Salmonella enterica* isolates causing bacteremia in Lima, Peru, using multiple typing methods

Silva, C., Betancor, L., García, C., Astocondor, L., Hinostroza, N., Bisio, J., Rivera, J., Perezgasga, L., Pérez Escanda, V., Yim, L., Jacobs, J., García-Del Portillo, F., Chabalgoity, J. A., Puente, J. L. & Salmolber CYTED Network, 2017, In: PLoS ONE. 12, 12, 22 p., e0189946.

Clinical spectrum, etiology, and outcome of neurological disorders in the rural hospital of Mosango, the Democratic Republic of Congo
Mukendi, D., Lilo Kalo, J-R., Mpanya, A., Minikulu, L., Kayembe, T., Lutumba, P., Barbé, B., Gillet, P., Jacobs, J., Van Loen, H., Yansouni, C. P., Chappuis, F., Ravinetto, R., Verdonck, K., Boelaert, M., Winkler, A. S. & Bottieau, E., 2017, In: American Journal of Tropical Medicine and Hygiene. 97, 5, p. 1454-1460 7 p.

Clinical utility of the nonstructural 1 antigen rapid diagnostic test in the management of dengue in returning travelers with fever

Huits, R., Soentjens, P., Maniewski-Kelner, U., Theunissen, C., Van Den Broucke, S., Florence, E., Clerinx, J., Vlieghe, E., Jacobs, J., Cnops, L., Van Den Bossche, D., Van Esbroeck, M. & Bottieau, E., 2017, In: Open Forum Infectious Diseases. 4, 1, 6 p., ofw273.

Detection of zika virus NS1 antigen in semen by a prototype rapid test

Cnops, L., Nakayama, E. E., Caron, E., Eggemont, K., Van Esbroeck, M., Bottieau, E., Jacobs, J., Shioda, T. & Huits, R., 2017, In: Tropical Medicine and International Health. 22, p. 27-27 1 p.

Diagnostic performance of the InBiOS rapid diagnostic test for the detection of *Burkholderia pseudomallei* in blood culture broth: results of a phase II evaluation study

Peeters, M., Chung, P., Lin, H., Mortelmans, K., Phe, C., San, C., Kuijpers, L., Teav, S., Phe, T. & Jacobs, J., 2017, In: Tropical Medicine and International Health. 22, p. 174-174 1 p.

Diagnostic performance of the loop-mediated isothermal amplification (LAMP) based illumigene® malaria assay in a non-endemic region

De Koninck, A-S., Cnops, L., Hofmans, M., Jacobs, J., Van den Bossche, D. & Philippé, J., 2017, In: Malaria Journal. 16, 9 p., 418.

Implementation of quality management for clinical bacteriology in low-resource settings

Barbé, B., Yansouni, C. P., Affolabi, D. & Jacobs, J., 2017, In: Clinical Microbiology and Infection. 23, 7, p. 426-433 8 p.

Multicenter surveillance of bloodstream infections in Kisangani, Oriental Province, Democratic Republic of the Congo: quality indicators from blood cultures

Falay, D., Peeters, M., Mapendo, B., Hasivirwe, E., Phoba, M. -F., Lunguya, O., Devlieger, H., Van Geet, C., Ngbonda, D. & Jacobs, J., 2017, In: Tropical Medicine and International Health. 22, p. 194-194 1 p.

Multidrug-resistant microorganisms colonizing lower extremity wounds in patients in a tertiary care hospital, Lima, Peru

Mendo-Lopez, R., Jasso, L., Guevara, X., Astocondor, A. L., Alejos, S., Bardossy, A. C., Prentiss, T., Zervos, M. J., Jacobs, J. & García, C., 2017, In: American Journal of Tropical Medicine and Hygiene. 97, 4, p. 1045-1048 4 p.

Optimization of the PAXgene Blood RNA system to store *Salmonella* cells for subsequent RNA analysis

Rutanga, J. P., Van Puyvelde, S., De Block, T., Jacobs, J., Muvunyi, C. M. & Deborggraeve, S., 2017, In: Tropical Medicine and International Health. 22, p. 124-125 2 p.

Photo-based external quality assessment of malaria rapid diagnostic tests in a non-endemic setting

Vernelen, K., Barbe, B., Gillet, P., Van Esbroeck, M., China, B. & Jacobs, J., 2017, In: Tropical Medicine and International Health. 22, p. 196-196 1 p.

Population-based incidence, seasonality and serotype distribution of invasive salmonellosis among children in Nanoro, rural Burkina Faso

Guiraud, I., Post, A., Diallo, S. N., Lombo, P., Maltha, J., Thriemer, K., Tahita, C. M., Ley, B., Derra, K., Bottieau, E., Kazienga, A., Schurmans, C., Ravinetto, R., Rouamba, E., Van Griensven, J., Bertrand, S., Tinto, H. & Jacobs, J., 2017, In: PLoS ONE. 12, 7, 17 p., e0178577.

Resistance to quinolones, cephalosporins and macrolides in *Escherichia coli* causing bacteremia in Peruvian children

Palma, N., Pons, M. J., Gomes, C., Mateu, J., Riveros, M., García, W., Jacobs, J., García, C., Ochoa, T. J. & Ruiz, J., 2017, In: Journal of Global Antimicrobial Resistance. 11, p. 28-33 6 p.

Targeted proteomics identifies novel candidate antigens for the diagnosis of invasive salmonellosis

Saleh, S., Staes, A., Van Puyvelde, S., Kuijpers, L., Barbe, B., Jacobs, J., Gevaert, K. & Deborggraeve, S., 2017, In: Tropical Medicine and International Health. 22, p. 346-346 1 p.

The clinical and microbiological characteristics of enteric fever in Cambodia, 2008-2015

Kuijpers, L. M. F., Phe, T., Veng, C. H., Lim, K., Ieng, S., Kham, C., Fawal, N., Fabre, L., Le Hello, S., Vlieghe, E., Weill, F-X., Jacobs, J. & Peetermans, W. E., 2017, In: PLoS Neglected Tropical Diseases. 11, 9, p. e0005964 17 p.

Clinical research in neglected tropical diseases: the challenge of implementing good clinical (laboratory) practices

Ravinetto, R., Alirol, E., Mahendradhata, Y., Rijal, S., Lutumba, P., Sacko, M., El-Safi, S., Lim, K., van Loen, H., Jacobs, J., Peeling, R. W., Chappuis, F. & Boelaert, M., 2016, In: PLoS Neglected Tropical Diseases. 10, 11, 6 p., e0004654.

Diagnosis of bacterial bloodstream infections: a 16S metagenomics approach

Decuypere, S., Meehan, C. J., Van Puyvelde, S., De Block, T., Maltha, J., Palpouini, L., Tahita, M., Tinto, H., Jacobs, J. & Deborggraeve, S., 2016, In: PLoS Neglected Tropical Diseases. 10, 2, 12 p., e0004470.

Diagnosis of persistent fever in the tropics: set of standard operating procedures used in the NIDIAG febrile syndrome study

Alirol, E., Horie, N. S., Barbé, B., Lejon, V., Verdonck, K., Gillet, P., Jacobs, J., Büscher, P., Kanal, B., Bhattacharai, N. R., El Safi, S., Phe, T., Lim, K., Leng, L., Lutumba, P., Mukendi, D., Bottieau, E., Boelaert, M., Rijal, S. & Chappuis, F., 2016, In: PLoS Neglected Tropical Diseases. 10, 11, 7 p., e0004749.

Distinct *Salmonella enteritidis* lineages associated with enterocolitis in high-income settings and invasive disease in low-income settings

Feesey, N. A., Hadfield, J., Keddy, K. H., Dallman, T. J., Jacobs, J., Deng, X., Wigley, P., Barquist Barquist, L., Langridge, G. C., Feltwell, T., Harris, S. R., Mather, A. E., Fookes, M., Aslett, M., Msefula, C., Kariuki, S., MacLennan, C. A., Onsare, R. S., Weill, F-X., Le Hello, S., & 27 others Smith, A. M., McClelland, M., Desai, P., Parry, C. M., Cheesbrough, J., French, N., Campos, J., Chabalgoity, J. A., Betancor, L., Hopkins, K. L., Nair, S., Humphrey, T. J., Lunguya, O., Cogan, T. A., Tapia, M. D., Sow, S. O., Tennant, S. M., Bornstein, K., Levine, M. M., Lacharme-Lora, L., Everett, D. B., Kingsley, R. A., Parkhill, J., Heyderman, R. S., Dougan, G., Gordon, M. A. & Thomson, N. R., 2016, In: Nature Genetics. 48, 10, p. 1211-1217 7 p.

Dynamics of nasal carriage of methicillin-resistant *Staphylococcus aureus* among healthcare workers in a tertiary-care hospital in Peru

Garcia, C., Acuña-Villaorduña, A., Dulanto, A., Vandendriessche, S., Hallin, M., Jacobs, J. & Denis, O., 2016, In: European Journal of Clinical Microbiology and Infectious Diseases. 35, 1, p. 89-93 5 p.

Experiences and lessons from a multicountry NIDIAG study on persistent digestive disorders in the tropics

Becker, S. L., Yap, P., Horié, N. S., Alirol, E., Barbé, B., Bhatta, N. K., Bhattacharai, N. R., Bottieau, E., Chatigre, J. K., Coulibaly, J. T., Fofana, H. K. M., Jacobs, J., Karki, P., Khanal, B., Knopp, S., Koirala, K., Mahendradhata, Y., Mertens, P., Meyanti, F., Murhandarwati, E. H., & 20 others N'Goran, E. K., Peeling, R. W., Pradhan, B., Ravinetto, R., Rijal, S., Sacko, M., Saye, R., Schneeberger, P. H. H., Schurmans, C., Silué, K. D., Steinmann, P., van Loen, H., Verdonck, K., van Lieshout, L., von Müller, L., Yao, J. A., Boelaert, M., Chappuis, F., Polman, K. & Utzinger, J., 2016, In: PLoS Neglected Tropical Diseases. 10, 11, 13 p., e0004818.

Genomic analysis of *Salmonella enterica* serotype Paratyphi A during an outbreak in Cambodia, 2013-2015

Kuijpers, L. M. F., Le Hello, S., Fawal, N., Fabre, L., Tourdjman, M., Dufour, M., Sar, D., Kham, C., Phe, T., Vlieghe, E., Bouchier, C., Jacobs, J. & Weill, F-X., 2016, In: Microbial Genomics. 2, 11, p. e000092

Microbiological, clinical and molecular findings of non-typhoidal *Salmonella* bloodstream infections associated with malaria, Oriental Province, Democratic Republic of the Congo

Falay, D., Kuijpers, L. M. F., Phoba, M-F., De Boeck, H., Lunguya, O., Vakaniaki, E., Bertrand, S., Mattheus, W., Ceyssens, P-J., Vanhoof, R., Devlieger, H., Van Geet, C., Verheyen, E., Ngbonda, D. & Jacobs, J., 2016, In: BMC Infectious Diseases. 16, 14 p., 271.

Molecular characterization of extended-spectrum β -lactamase-producer *Klebsiella pneumoniae* isolates causing neonatal sepsis in Peru

García, C., Astocondor, L., Rojo-Bezares, B., Jacobs, J. & Sáenz, Y., 2016, In: American Journal of Tropical Medicine and Hygiene. 94, 2, p. 285-288 4 p.

Molecular surveillance identifies multiple transmissions of typhoid in West Africa

Wong, V. K., Holt, K. E., Okoro, C., Baker, S., Pickard, D. J., Marks, F., Page, A. J., Olanipekun, G., Munir, H., Alter, R., Fey, P. D., Feasey, N. A., Weill, F-X., Le Hello, S., Hart, P. J., Kariuki, S., Breiman, R. F., Gordon, M. A., Heyderman, R. S., Jacobs, J., & 12 othersLunguya, O., Msefula, C., MacLennan, C. A., Keddy, K. H., Smith, A. M., Onsare, R. S., De Pinna, E., Nair, S., Amos, B., Dougan, G., Obaro, S. & International Typhoid Consortium, 2016, In: PLoS Neglected Tropical Diseases. 10, 9, 22 p., e0004781.

Organizing the donation of convalescent plasma for a therapeutic clinical trial on Ebola virus disease: The experience in Guinea

Delamou, A., Haba, N. Y., Mari Saez, A., Galliant, P., Ronse, M., Jacobs, J., Camara, B. S., Kadio, K. J-J. O., Guemou, A., Kolie, J. P., De Crop, M., Chavarin, P., Jacquot, C., Lazaygues, C., Wegheleire, A. D., Lynen, L., van Griensven, J. & Ebola-Tx Consortium, 2016, In: American Journal of Tropical Medicine and Hygiene. 95, 3, p. 647-653 7 p.

Performance of microscopy for the diagnosis of malaria and human African trypanosomiasis by diagnostic laboratories in the Democratic Republic of the Congo: results of a nation-wide external quality assessment

Mukadi, P., Lejon, V., Barbé, B., Gillet, P., Nyembo, C., Lukuka, A., Likwela, J., Lumbala, C., Mbaruku, J., Vander Veken, W., Mumba, D., Lutumba, P., Muyembe, J.-J. & Jacobs, J., 2016, In: PLoS ONE. 11, 1, 15 p., e0146450.

Phylogenomic analysis reveals an Asian origin for African *Burkholderia pseudomallei* and further supports melioidosis endemicity in Africa

Sarovitch, D. S., Garin, B., De Smet, B., Kaestli, M., Mayo, M., Vandamme, P., Jacobs, J., Lombo, P., Tahita, M. C., Tinto, H., Djaomalaza, I., Currie, B. J. & Price, E. P., 2016, In: mSphere. 1, 2, p. e00089-15 12 p.

Rapid diagnostic tests for neglected infectious diseases: case study highlights need for customer awareness and postmarket surveillance

Barbé, B., Verdonck, K., El-Safi, S., Khanal, B., Teav, S., Lilo Kalo, J-R., Ravinetto, R., Chappuis, F., Boelaert, M. & Jacobs, J., 2016, In: PLoS Neglected Tropical Diseases. 10, 11, 8 p., e0004655.

Rapid point-of-care diagnosis of malaria and dengue infection

Cnops, L., Van Esbroeck, M. & Jacobs, J., 2016, *Molecular microbiology: diagnostic principles and practice*. Persing, D. H., Tenover, F. C., Hayden, R. T., Ieven, M., Nolte, F. S., Tang, Y-W. & van Belkum, A. (eds.). 3 ed. Washington, DC: ASM Press, p. 589-609 21 p.

Severe anaemia associated with *Plasmodium falciparum* infection in children: consequences for additional blood sampling for research

Kuijpers, L. M. F., Maltha, J., Guiraud, I., Kaboré, B., Lombo, P., Devlieger, H., Van Geet, C., Tinto, H. & Jacobs, J., 2016, In: Malaria Journal. 15, 6 p., 304.

The art of writing and implementing standard operating procedures (SOPs) for laboratories in low-resource settings: review of guidelines and best practices

Barbé, B., Verdonck, K., Mukendi, D., Lejon, V., Lilo Kalo, J-R., Alirol, E., Gillet, P., Horié, N., Ravinetto, R., Bottieau, E., Yansouni, C., Winkler, A. S., van Loen, H., Boelaert, M., Lutumba, P. & Jacobs, J., 2016, In: PLoS Neglected Tropical Diseases. 10, 11, 12 p., e0005053.

Towards improving point-of-care diagnosis of non-malaria febrile illness: a metabolomics approach

Decuyper, S., Maltha, J., Deborggraeve, S., Rattray, N. J. W., Issa, G., Bérenger, K., Lombo, P., Tahita, M. C., Ruspasinghe, T., McConville, M., Goodacre, R., Tinto, H., Jacobs, J. & Carapetis, J. R., 2016, In: PLoS Neglected Tropical Diseases. 10, 3, 19 p., e0004480.

Virulence factors profiles and ESBL production in *Escherichia coli* causing bacteraemia in Peruvian children

Palma, N., Gomes, C., Riveros, M., García, W., Martínez-Puchol, S., Ruiz-Roldán, L., Mateu, J., García, C., Jacobs, J., Ochoa, T. J. & Ruiz, J., 2016, In: Diagnostic Microbiology and Infectious Disease. 86, 1, p. 70-75 6 p.

***Burkholderia stagnalis* sp. nov. and *Burkholderia territorii* sp. nov., two novel *Burkholderia cepacia* complex species from environmental and human sources**

De Smet, B., Mayo, M., Peeters, C., Zlosnik, J. E. A., Spilker, T., Hird, T. J., LiPuma, J. J., Kidd, T. J., Kaestli, M., Ginther, J. L., Wagner, D. M., Keim, P., Bell, S. C., Jacobs, J. A., Currie, B. J. & Vandamme, P., 2015, In: International Journal of Systematic and Evolutionary Microbiology. 65, 7, p. 2265-2271 7 p.

***Staphylococcus aureus* nasal carriage among healthcare workers in Kisangani, the Democratic Republic of the Congo**

De Boeck, H., Vandendriessche, S., Hallin, M., Batoko, B., Alworonga, J-P., Mapendo, B., Van Geet, C., Dauly, N., Denis, O. & Jacobs, J., 2015, In: European Journal of Clinical Microbiology and Infectious Diseases. 34, 8, p. 1567-1572 6 p.

Antibiotic prescription behaviours in Lao People's Democratic Republic: a knowledge, attitude and practice survey

Quet, F., Vlieghe, E., Leyer, C., Buisson, Y., Newton, P. N., Naphayvong, P., Keoluangkhot, V., Chomarat, M., Longuet, C., Steenkeste, N. & Jacobs, J., 2015, In: Bulletin of the World Health Organization. 93, 4, p. 219-227 9 p.

Diagnosis of neglected tropical diseases among patients with persistent digestive disorders (diarrhoea and/or abdominal pain ≥ 14 days): Pierrea multi-country, prospective, non-experimental case-control study

Polman, K., Becker, S. L., Alirol, E., Bhatta, N. K., Bhattacharai, N. R., Bottieau, E., Bratschi, M. W., Burza, S., Coulibaly, J. T., Doumbia, M. N., Horie, N. S., Jacobs, J., Khanal, B., Landouré, A., Mahendradhata, Y., Meheus, F., Mertens, P., Meyanti, F., Murhandarwati, E. H., N'Goran, E. K., & 21 othersPeeling, R. W., Ravinetto, R., Rijal, S., Sacko, M., Saye, R., Schneeberger, P. H. H., Schurmans, C., Silué, K. D., Thobari, J. A., Traoré, M. S., van Lieshout, L., van Loen, H., Verdonck, K., von Müller, L., Yansouni, C. P., Yao, J. A., Yao, P. K., Yap, P., Boelaert, M., Chappuis, F. & Utzinger, J., 2015, In: BMC Infectious Diseases. 15, 1, p. 338

Diagnostic performance of a novel loop-mediated isothermal amplification (LAMP) assay targeting the apicoplast genome for malaria diagnosis in a field setting in sub-Saharan Africa

Oriero, E. C., Okebe, J. U., Jacobs, J., Van Geertruyden, J-P., Nwakanma, D. & D'Alessandro, U., 2015, In: Malaria Journal. 14, p. 396

Enteric pathogens of food sellers in rural Gambia with incidental finding of *Myxobolus* species (Protozoa Myxozoa)

Bradbury, R. S., Barbé, B., Jacobs, J., Jallow, A. T., Camara, K. C., Colley, M., Wegmüller, R., Jassey, B., Cham, Y., Baldeh, I. & Prentice, A., 2015, In: Transactions of the Royal Society of Tropical Medicine and Hygiene. 109, 5, p. 334-339 6 p.

Evaluación de métodos fenotípicos para la detección de *Staphylococcus aureus* resistente a meticilina

Horna, G., Astocondor, L., Jacobs, J. & García, C., 2015, In: Revista Española de Quimioterapia. 28, 2, p. 98-100 3 p.

Fatal *Chromobacterium violaceum* bacteraemia in rural Bandundu, Democratic Republic of the Congo

Bottieau, E., Mukendi, D., Kalo, J-R., Mpanya, A., Lutumba, P., Barbé, B., Chappuis, F., Lunguya, O., Boelaert, M. & Jacobs, J., 2015, In: New Microbes and New Infections. 3, p. 21-23 3 p.

Invasive *Salmonella* infections at multiple surveillance sites in the Democratic Republic of the Congo, 2011-2014

Kalonji, L. M., Post, A., Phoba, M-F., Falay, D., Ngbonda, D., Muyembe, J-J., Bertrand, S., Ceyssens, P-J., Mattheus, W., Verhaegen, J., Barbé, B., Kuijpers, L., Van Geet, C., Lunguya, O. & Jacobs, J., 2015, In: Clinical Infectious Diseases. 61 , Suppl. 4, p. S346-S353 8 p.

Molecular-based isothermal tests for field diagnosis of malaria and their potential contribution to malaria elimination

Oriero, E. C., Jacobs, J., Van Geertruyden, J-P., Nwakanma, D. & D'Alessandro, U., 2015, In: Journal of Antimicrobial Chemotherapy. 70, 1, p. 2-13 12 p.

Multi locus variable-number tandem repeat (MLVA) typing tools improved the surveillance of *Salmonella enteritidis*: a 6 years retrospective study

Bertrand, S., De Lamine de Bex, G., Wildemauwe, C., Lunguya, O., Phoba, M. F., Ley, B., Jacobs, J., Vanhoof, R. & Mattheus, W., 2015, In: PLoS ONE. 10, 2, 13 p., e0117950.

Novel techniques and future directions in molecular diagnosis of malaria in resource-limited settings

Oriero, C. E., Van Geertruyden, J-P., Nwakanma, D. C., D'Alessandro, U. & Jacobs, J., 2015, In: Expert Review of Molecular Diagnostics. 15, 11, p. 1419-1426 8 p.

Ongoing outbreak of *Salmonella enterica* serovar Paratyphi A infections, Phnom Penh, Cambodia [letter]

Kuijpers, L. M. F., Veng, C. H., Sar, D., Chung, P., Phe, T., Kham, C., Vlieghe, E. & Jacobs, J., 2015, In: Journal of Infection in Developing Countries. 9, 4, p. 438-440 3 p.

Phylogeographical analysis of the dominant multidrug-resistant H58 clade of *Salmonella Typhi* identifies inter- and intracontinental transmission events

Wong, V. K., Baker, S., Pickard, D. J., Parkhill, J., Page, A. J., Feasey, N. A., Kingsley, R. A., Thomson, N. R., Keane, J. A., Weill, F-X., Edwards, D. J., Hawkey, J., Harris, S. R., Mather, A. E., Cain, A. K., Hadfield, J., Hart, P. J., Thieu, N. T. V., Klemm, E. J., Glinos, D. A., & 54 othersBreiman, R. F., Watson, C. H., Kariuki, S., Gordon, M. A., Heyderman, R. S., Okoro, C., Jacobs, J., Lunguya, O., Edmunds, W. J., Msefula, C., Chabalgoity, J. A., Kama, M., Jenkins, K., Dutta, S., Marks, F., Campos, J., Thompson, C., Obaro, S., MacLennan, C. A., Dolecek, C., Keddy, K. H., Smith, A. M., Parry, C. M., Karkey, A., Mulholland, E. K., Campbell, J. I., Dongol, S., Basnyat, B., Dufour, M., Bandaranayake, D., Naseri, T. T., Singh, S. P., Hatta, M., Newton, P., Onsare, R. S., Isaia, L., Dance, D., Davong, V., Thwaites, G., Wijedoru, L., Crump, J. A., De Pinna, E., Nair, S., Nilles, E. J., Thanh, D. P., Turner, P., Soeng, S., Valcanis, M., Powling, J., Dimovski, K., Hogg, G., Farrar, J., Holt, K. E. & Dougan, G., 2015, In: Nature Genetics. 47, 6, p. 632-639 8 p.

Prevalence and distribution of beta-lactamase coding genes in third-generation cephalosporin-resistant Enterobacteriaceae from bloodstream infections in Cambodia

Vlieghe, E. R., Huang, T-D., Phe, T., Bogaerts, P., Berhin, C., De Smet, B., Peetermans, W. E., Jacobs, J. A. & Glupczynski, Y., 2015, In: European Journal of Clinical Microbiology and Infectious Diseases. 34, 6, p. 1223-1229 7 p.

SMS photograph-based external quality assessment of reading and interpretation of malaria rapid diagnostic tests in the Democratic Republic of the Congo

Mukadi, P., Gillet, P., Barbé, B., Luamba, J., Lukuka, A., Likwela, J., Mumba, D., Muyembe, J-J., Lutumba, P. & Jacobs, J., 2015, In: Malaria Journal. 14, p. 26

Toxocariasis diagnosed in international travelers at the Institute of Tropical Medicine, Antwerp, Belgium, from 2000 to 2013

Van Den Broucke, S., Kanobana, K., Polman, K., Soentjens, P., Vekemans, M., Theunissen, C., Vlieghe, E., Van Esbroeck, M., Jacobs, J., Van Den Enden, E., Van den Ende, J., Van Gompel, A., Clerinx, J. & Bottieau, E., 2015, In: PLoS Neglected Tropical Diseases. 9, 3, p. e0003559

Validation of an apicoplast genome target for the detection of *Plasmodium* species using polymerase chain reaction and loop mediated isothermal amplification

Oriero, C. E., van Geertruyden, J-P., Jacobs, J., D'Alessandro, U. & Nwakanma, D., 2015, In: Clinical Microbiology and Infection. 21, 7, p. 686.e1-686.e7

Whole-genome sequencing confirms that *Burkholderia pseudomallei* multilocus sequence types common to both Cambodia and Australia are due to homoplasy

De Smet, B., Sarovich, D. S., Price, E. P., Mayo, M., Theobald, V., Kham, C., Heng, S., Thong, P., Holden, M. T. G., Parkhill, J., Peacock, S. J., Spratt, B. G., Jacobs, J. A., Vandamme, P. & Currie, B. J., 2015, In: Journal of Clinical Microbiology. 53, 1, p. 323-326 4 p.

Gambiense human african trypanosomiasis and immunological memory: effect on phenotypic lymphocyte profiles and humoral immunity

Lejon, V., Mumba Ngoyi, D., Kestens, L., Boel, L., Barbé, B., Kande Betu, V., van Griensven, J., Bottieau, E., Muyembe Tamfum, J-J., Jacobs, J. & Büscher, P., 2014, In: PLoS Pathogens. 10, 3, p. e1003947

Accuracy of PfHRP2 versus Pf-pLDH antigen detection by malaria rapid diagnostic tests in hospitalized children in a seasonal hyperendemic malaria transmission area in Burkina Faso

Maltha, J., Guiraud, I., Lombo, P., Kaboré, B., Gillet, P., Van Geet, C., Tinto, H. & Jacobs, J., 2014, In: Malaria Journal. 13, p. 20

Bacterial sepsis in patients with visceral leishmaniasis in Northwest Ethiopia

Endris, M., Takele, Y., Woldeyohannes, D., Tiruneh, M., Mohammed, R., Moges, F., Lynen, L., Jacobs, J., van Griensven, J. & Diro, E., 2014, In: BioMed Research International. 2014, p. 361058

Frequency of severe malaria and invasive bacterial infections among children admitted to a rural hospital in Burkina Faso

Maltha, J., Guiraud, I., Kaboré, B., Lombo, P., Ley, B., Bottieau, E., Van Geet, C., Tinto, H. & Jacobs, J., 2014, In: PLoS ONE. 9, 2, p. e89103

Harmonization of malaria rapid diagnostic tests: best practices in labelling including instructions for use

Jacobs, J., Barbé, B., Gillet, P., Aidoo, M., Serra-Casas, E., Van Erps, J., Daviaud, J., Incardona, S., Cunningham, J. & Visser, T., 2014, In: Malaria Journal. 13, p. 505 10 p.

Intermediate susceptibility to ciprofloxacin among *Salmonella enterica* serovar Typhi isolates in Lima, Peru

García, C., Lejon, V., Horna, G., Astocondor, L., Vanhoof, R., Bertrand, S. & Jacobs, J., 2014, In: Journal of Clinical Microbiology. 52, 3, p. 968-970 3 p.

Invasive *Salmonella enterica* serotype typhimurium infections, Democratic Republic of the Congo, 2007-2011

Ley, B., Le Hello, S., Lunguya, O., Lejon, V., Muyembe, J.-J., Weill, F.-X. & Jacobs, J., 2014, In: Emerging Infectious Diseases. 20, 4, p. 701-704 4 p.

Rotavirus surveillance in Kisangani, the Democratic Republic of the Congo, reveals a high number of unusual genotypes and gene segments of animal origin in non-vaccinated symptomatic children

Heylen, E., Batoko Likele, B., Zeller, M., Stevens, S., De Coster, S., Conceição-Neto, N., Van Geet, C., Jacobs, J., Ngbonda, D., Van Ranst, M. & Matthijnssens, J., 2014, In: PLoS ONE. 9, 6, p. e100953

***Staphylococcus aureus* causing tropical pyomyositis, Amazon Basin, Peru**

García, C., Hallin, M., Deplano, A., Denis, O., Sihuinchá, M., de Groot, R., Gotuzzo, E. & Jacobs, J., 2013, In: Emerging Infectious Diseases. 19, 1, p. 123-125 3 p.

A systematic review and meta-analysis of the performance of two point of care typhoid fever tests, TUBEX TF and Typhodit, in endemic countries

Thriemer, K., Ley, B., Menten, J., Jacobs, J. & Van den Ende, J., 2013, In: PLoS ONE. 8, 12, p. e81263

Antibiotic prescribing in DR Congo: a knowledge, attitude and practice survey among medical doctors and students

Thriemer, K., Katuala, Y., Batoko, B., Alworonga, J. P., Devlieger, H., Van Geet, C., Ngbonda, D. & Jacobs, J., 2013, In: PLoS ONE. 8, 2, p. e55495

Antimicrobial resistance in invasive non-typhoid *Salmonella* from the Democratic Republic of the Congo: emergence of decreased fluoroquinolone susceptibility and extended-spectrum beta lactamases

Lunguya, O., Lejon, V., Phoba, M. F., Bertrand, S., Vanhoof, R., Glupczynski, Y., Verhaegen, J., Muyembe-Tamfum, J. J. & Jacobs, J., 2013, In: PLoS Neglected Tropical Diseases. 7, 3, p. e2103

Bloodstream infection among adults in Phnom Penh, Cambodia: key pathogens and resistance patterns

Vlieghe, E. R., Phe, T., De Smet, B., Veng, C. H., Kham, C., Lim, K., Koole, O., Lynen, L., Peetermans, W. E. & Jacobs, J. A., 2013, In: PLoS ONE. 8, 3, p. e59775

Bloodstream infections in south and southeast Asia [letter]

Vlieghe, E. R., van Griensven, J., Peetermans, W. E. & Jacobs, J. A., 2013, In: Lancet Infectious Diseases. 13, 1, p. 14-15 2 p.

Does HIV status affect the aetiology, bacterial resistance patterns and recommended empiric antibiotic treatment in adult patients with bloodstream infection in Cambodia?

Phe, T., Vlieghe, E., Reid, T., Harries, A. D., Lim, K., Thai, S., De Smet, B., Veng, C., Kham, C., Ieng, S., van Griensven, J. & Jacobs, J., 2013, In: Tropical Medicine and International Health. 18, 4, p. 485-494 10 p.

Elimination of sleeping sickness hindered by difficult diagnosis [editorial]

Lejon, V., Jacobs, J. & Simarro, P. P., 2013, In: Bulletin of the World Health Organization. 91, 10, p. 718 1 p.

External quality assessment of Giemsa-stained blood film microscopy for the diagnosis of malaria and sleeping sickness in the Democratic Republic of the Congo

Mukadi, P., Gillet, P., Lukuka, A., Atua, B., Sheshe, N., Kanza, A., Mayunda, J. B., Mongita, B., Senga, R., Ngoyi, J., Muyembe, J. J., Jacobs, J. & Lejon, V., 2013, In: Bulletin of the World Health Organization. 91, 6, p. 441-448 8 p.

External quality assessment of reading and interpretation of malaria rapid diagnostic tests among 1849 end-users in the Democratic Republic of the Congo through Short Message Service (SMS)

Mukadi, P., Gillet, P., Lukuka, A., Mbatchi, J., Otshudiema, J., Muyembe, J. J., Buyze, J., Jacobs, J. & Lejon, V., 2013, In: PLoS ONE. 8, 8, p. e71442

False positivity of non-targeted infections in malaria rapid diagnostic tests: the case of human African trypanosomiasis

Gillet, P., Mumba Ngoyi, D., Lukuka, A., Kande, V., Atua, B., van Griensven, J., Muyembe, J. J., Jacobs, J. & Lejon, V., 2013, In: PLoS Neglected Tropical Diseases. 7, 4, p. e2180

First national workshop on antibiotic resistance in Cambodia: Phnom Penh, Cambodia, 16-18 November 2011

Vlieghe, E., Sary, S., Lim, K., Sivuthy, C., Phe, T., Parry, C., De Smet, B., Monidarin, C., Baron, E., Moore, C. E., Mfuko, W., Asgari, N., Chhorvoi, O., Steenkeste, N., Leyer, C., van Griensven, J., Thai, S. & Jacobs, J., 2013, In: Journal of Global Antimicrobial Resistance. 1, 1, p. 31-34 4 p.

Increase in *Salmonella enterica* serovar paratyphi A infections in Phnom Penh, Cambodia, January 2011 to August 2013

Vlieghe, E., Phe, T., De Smet, B., Veng, C. H., Kham, C., Sar, D., van Griensven, J., Lim, K., Thai, S. & Jacobs, J., 2013, In: Eurosurveillance. 18, 39, p. pii=20592

Irregular migration as a potential source of malaria reintroduction in Sri Lanka and use of malaria rapid diagnostic tests at point-of-entry screening

Wickramage, K., Galappaththy, G. N. L., Dayaratne, D., Peiris, S. L., Basnayake, R. N., Mosca, D. & Jacobs, J., 2013, In: Case Reports in Medicine. 465906, p. 1-4 4 p.

Malaria rapid diagnostic tests in travel medicine

Maltha, J., Gillet, P. & Jacobs, J., 2013, In: Clinical Microbiology and Infection. 19, 5, p. 408-415 8 p.

Outbreak of *Burkholderia cepacia* bloodstream infections traced to the use of Ringer lactate solution as multiple-dose vial for catheter flushing, Phnom Penh, Cambodia

De Smet, B., Veng, C., Kruy, L., Kham, C., van Griensven, J., Peeters, J., Ieng, S., Phe, T., Vlieghe, E., Vandamme, P. & Jacobs, J., 2013, In: Clinical Microbiology and Infection. 19, 9, p. 832-837 6 p.

Persistent digestive disorders in the tropics: causative infectious pathogens and reference diagnostic tests

Becker, S. L., Vogt, J., Knopp, S., Panning, M., Warhurst, D. C., Polman, K., Marti, H., von Muller, L., Yansouni, C. P., Jacobs, J., Bottieau, E., Sacko, M., Rijal, S., Meyanti, F., Miles, M. A., Boelaert, M., Lutumba, P., van Lieshout, L., N'Goran, E. K., Chappuis, F., & 1 othersUtzinger, J., 2013, In: BMC Infectious Diseases. 13, p. 37 21 p.

Rapid diagnostic tests for neurological infections in central Africa

Yansouni, C. P., Bottieau, E., Lutumba, P., Winkler, A. S., Lynen, L., Büscher, P., Jacobs, J., Gillet, P., Lejon, V., Alirol, E., Polman, K., Utzinger, J., Miles, M. A., Peeling, R. W., Muyembe, J. J., Chappuis, F. & Boelaert, M., 2013, In: Lancet Infectious Diseases. 13, 6, p. 546-558 13 p.

Review: malaria rapid diagnostic tests in endemic settings

Maltha, J., Gillet, P. & Jacobs, J., 2013, In: Clinical Microbiology and Infection. 19, 5, p. 399-407 9 p.

Self-diagnosis of malaria by travelers and expatriates: assessment of malaria rapid diagnostic tests available on the internet

Malha, J., Gillet, P., Heutmakers, M., Bottieau, E., Van Gompel, A. & Jacobs, J., 2013, In: PLoS ONE. 8, 1, p. e53102

Treatment practices in patients with suspected malaria in Provincial Hospital of Tete, Mozambique

Bottieau, E., Gillet, P., De Weggheleire, A., Scheirlinck, A., Stokx, J., Das Dores Mosse, C. & Jacobs, J., 2013, In: Transactions of the Royal Society of Tropical Medicine and Hygiene. 107, 3, p. 176-182 7 p.

***Salmonella typhi* in the Democratic Republic of the Congo: fluoroquinolone decreased susceptibility on the rise**

Lunguya, O., Lejon, V., Phoba, M. F., Bertrand, S., Vanhoof, R., Verhaegen, J., Smith, A. M., Keddy, K. H., Muyembe-Tamfum, J. J. & Jacobs, J., 2012, In: PLoS Neglected Tropical Diseases. 6, 11, p. e1921

***Staphylococcus aureus* blood stream infections in Cambodian adults**

Vlieghe, E., Phe, T., Hallin, M., Denis, O., Deplano, A., De Smet, B., Veng, C., Kham, C., Lynen, L., Peetermans, W. & Jacobs, J., 2012, In: International Journal of Infectious Diseases. p. E437-E437

Antimicrobial drug resistance in Peru [letter]

García, C., Horna, G., Linares, E., Ramírez, R., Tapia, E., Velásquez, J., Medina, V., Guevara, J., Urbina, M., Zevallos, S., Espinoza, N., Samalvides, F. & Jacobs, J., 2012, In: Emerging Infectious Diseases. 18, 3, p. 520-521

Antimicrobial resistance and molecular typing of *Staphylococcus aureus* bloodstream isolates from hospitals in Peru

García, C., Rijnders, M. I., Bruggeman, C., Samalvides, F., Stobberingh, E. E. & Jacobs, J., 2012, In: Journal of Infection. 65, 5, p. 406-411 6 p.

Assessment of desiccants and their instructions for use in rapid diagnostic tests

Barbé, B., Gillet, P., Beelaert, G., Fransen, K. & Jacobs, J., 2012, In: Malaria Journal. 11, 326, p. 1-10 10 p.

Azithromycin and ciprofloxacin resistance in *Salmonella* bloodstream infections in Cambodian adults

Vlieghe, E. R., Phe, T., De Smet, B., Veng, C. H., Kham, C., Bertrand, S., Vanhoof, R., Lynen, L., Peetermans, W. E. & Jacobs, J. A., 2012, In: PLoS Neglected Tropical Diseases. 6, 12, p. e1933

Commentary: Rapid diagnostic tests for diagnosing uncomplicated *Plasmodium falciparum* malaria in endemic countries (Review)

Bottieau, E., Jacobs, J. & Nachege, J. B., 2012, In: International Journal of Epidemiology. 41, 3, p. 608-609 2 p.

ESBL-positive enterobacteria isolates in drinking water [letter]

De Boeck, H., Miwanda, B., Lunguya-Metila, O., Muyembe-Tamfum, J. J., Stobberingh, E., Glupczynski, Y. & Jacobs, J., 2012, In: Emerging Infectious Diseases. 18, 6, p. 1019-1020 2 p.

Evaluation of the malaria rapid diagnostic test SDFK90: detection of both PfHRP2 and Pf-pLDH

Heutmakers, M., Gillet, P., Cnops, L., Bottieau, E., Van Esbroeck, M., Malha, J. & Jacobs, J., 2012, In: Malaria Journal. 11, 359, p. 1-7 7 p.

Evaluation of the rapid diagnostic test CareStart pLDH Malaria (Pf-pLDH/pan-pLDH) for the diagnosis of malaria in a reference setting

Heutmakers, M., Gillet, P., Malha, J., Scheirlinck, A., Cnops, L., Bottieau, E., Van Esbroeck, M. & Jacobs, J., 2012, In: Malaria Journal. 11, 204, p. 1-10 10 p.

Iron deficiency and malaria mortality: possible implication of invasive bacterial diseases [letter]

Malha, J. & Jacobs, J., 2012, In: Clinical Infectious Diseases. 55, 5, p. 748 1 p.

Multidrug-resistant *Salmonella enterica*, Democratic Republic of the Congo [letter]

Phoba, M. F., Lunguya, O., Mayimon, D. V., Lewo di Mputu, P., Bertrand, S., Vanhoof, R., Verhaegen, J., Van Geet, C., Muyembe, J. J. & Jacobs, J., 2012, In: Emerging Infectious Diseases. 18, 10, p. 1692-1694 3 p.

Poor-quality medical products: time to address substandards, not only counterfeits [editorial]

Ravinetto, R. M., Boelaert, M., Jacobs, J., Pouget, C. & Luyckx, C., 2012, In: Tropical Medicine and International Health. 17, 11, p. 1412-1416

Presence of extended-spectrum beta-lactamase-producing Enterobacteriaceae in waste waters, Kinshasa, the Democratic Republic of the Congo

De Boeck, H., Lunguya, O., Muyembe, J. J., Glupczynski, Y. & Jacobs, J., 2012, In: European Journal of Clinical Microbiology and Infectious Diseases. 31, 11, p. 3085-3088 27804 p.

Rapid diagnostic tests for a coordinated approach to fever syndromes in low-resource settings [letter]

Yansouni, C. P., Bottieau, E., Chappuis, F., Phoba, M. F., Lunguya, O., Ifeka, B. B. & Jacobs, J., 2012, In: Clinical Infectious Diseases. 55, 4, p. 610-611 2 p.

Rapid diagnostic tests for malaria diagnosis in the Peruvian Amazon: impact of pfhrp2 gene deletions and cross-reactions

Maltha, J., Gamboa, D., Bendezu, J., Sanchez, L., Cnops, L., Gillet, P. & Jacobs, J., 2012, In: PLoS ONE. 7, 8, e43094.

Reply to comment on: The diagnosis of typhoid fever in the Democratic Republic of the Congo [letter]

Lunguya, O., Phoba, M. F., Mundek, S. A., Bonebe, E., Mukadi, P., Muyembe, J. J., Verhaegen, J. & Jacobs, J., 2012, In: Transactions of the Royal Society of Tropical Medicine and Hygiene. 106, 12, p. 777 1 p.

Reply to correspondence letter by Prashanth GP: quantitative buffy coat (QBC) test for rapid diagnosis of malaria [letter]

Maltha, J. & Jacobs, J., 2012, In: European Journal of Pediatrics. 171, 1, p. 201-202

The diagnosis of typhoid fever in the Democratic Republic of the Congo

Lunguya, O., Phoba, M. F., Mundek, S. A., Bonebe, E., Mukadi, P., Muyembe, J. J., Verhaegen, J. & Jacobs, J., 2012, In: Transactions of the Royal Society of Tropical Medicine and Hygiene. 106, 6, p. 348-355 8 p.

A simple and fast method to exclude high *Plasmodium falciparum* parasitaemia in travellers with imported malaria

van Gool, T., van Wolfswinkel, ME., Koelewijn, R., van Thiel, PPAM., Jacobs, J., van Hellemond, JJ. & Van Genderen, PJJ., 2011, In: Malaria Journal. 10, p. 300 5 p.

Assessment of the knowledge of graphical symbols labelled on malaria rapid diagnostic tests in four international settings

Hermans, V., Monzote, L., Van den Sande, B., Mukadi, P., Sopheap, T., Gillet, P. & Jacobs, J., 2011, In: Malaria Journal. 10, p. 331 9 p.

Clara cell protein in bronchoalveolar lavage fluid: a predictor of ventilator-associated pneumonia?

Vanspauwen, MJ., Linssen, CFM., Bruggeman, CA., Jacobs, JA., Drent, M., Bergmans, DCJJ. & van Mook, WNKA., 2011 , In: Critical Care. 15, 1, p. R14

Clinical practice: the diagnosis of imported malaria in children

Maltha, J. & Jacobs, J., 2011, In: European Journal of Pediatrics. 170, 7, p. 821-829 9 p.

Epidemiology and outcome of *Shigella*, *Salmonella* and *Campylobacter* infections in travellers returning from the tropics with fever and diarrhoea

Bottieau, E., Clerinx, J., Vlieghe, E., Van Esbroeck, M., Jacobs, J., Van Gompel, A. & Van den Ende, J., 2011, In: Acta Clinica Belgica. 66, 3, p. 191-195 5 p.

Evaluation of the rapid diagnostic test SDFK40 (Pf-pLDH/pan-pLDH) for the diagnosis of malaria in a non-endemic setting

Maltha, J., Gillet, P., Cnops, L., Bottieau, E., Van Esbroeck, M., Bruggeman, C. & Jacobs, J., 2011, In: Malaria Journal. 10 , p. 7 10 p.

External quality assessment of malaria microscopy in the Democratic Republic of the Congo

Mukadi, P., Gillet, P., Lukuka, A., Atua, B., Kahodi, S., Lokombe, J., Muyembe, JJ. & Jacobs, J., 2011, In: Malaria Journal. 10, p. 308 9 p.

Implementing ideal health policy in a fragile health system: the example of expanding the use of malaria rapid diagnostic tests in mainland Tanzania [comment]

Masanja, IM., de Bethune, X. & Jacobs, J., 2011, In: Malaria Journal. 10, p. 322 4 p.

Inappropriate drug donations: what has happened since the 1999 WHO Guidelines?

van Dijk, DPJ., Dinant, GJ. & Jacobs, JA., 2011, In: Education for Health. 24, 2, p. 462

Knowledge, attitudes and practice survey about antimicrobial resistance and prescribing among physicians in a hospital setting in Lima, Peru

García, C., Llamocca, LP., Garía, K., Jiménez, A., Samalvides, F., Gotuzzo, E. & Jacobs, J., 2011, In: BMC Clinical Pharmacology. 11, p. 18 8 p.

Malaria rapid diagnostic kits: quality of packaging, design and labelling of boxes and components and readability and accuracy of information inserts

Gillet, P., Maltha, J., Hermans, V., Ravinetto, R., Bruggeman, C. & Jacobs, J., 2011, In: Malaria Journal. 10, p. 39

Melioidosis, Phnom Penh, Cambodia

Vlieghe, E., Kruy, L., De Smet, B., Kham, C., Veng, CH., Phe, T., Koole, O., Thai, S., Lynen, L. & Jacobs, J., 2011, In: Emerging Infectious Diseases. 17, 7, p. 1289-1292 4 p.

Prozone in malaria rapid diagnostics tests: how many cases are missed?

Gillet, P., Scheirlinck, A., Stokx, J., De Weggheleire, A., Chaúque, HS., Canhangha, ODJV., Tadeu, BT., Mosse, CDD., Tiago, A., Mabunda, S., Bruggeman, C., Bottieau, E. & Jacobs, J., 2011, In: Malaria Journal. 10, p. 166 11 p.

Quality of medical devices and *in vitro* diagnostics in resource-limited settings

Mori, M., Ravinetto, R. & Jacobs, J., 2011, In: Tropical Medicine and International Health. 16, 11, p. 1439-1449 11 p.

Rapid diagnostic tests as a source of DNA for *Plasmodium* species-specific real-time PCR

Cnops, L., Boderie, M., Gillet, P., Van Esbroeck, M. & Jacobs, J., 2011, In: Malaria Journal. 10, p. 67 11 p.

Seroprevalence of transfusion-transmissible infections and evaluation of the pre-donation screening performance at the Provincial Hospital of Tete, Mozambique

Stokx, J., Gillet, P., De Weggheleire, A., Casas, EC., Maendaenda, R., Beulane, AJ., Jani, IV., KIDANE, SOLON., Mosse, CD., Jacobs, J. & Bottieau, E., 2011, In: BMC Infectious Diseases. 11, p. 141 8 p.

Spread of community-associated methicillin-resistant *Staphylococcus aureus* to Peru [letter]

Garcia, C., Deplano, A., Denis, O., Leon, M., Siu, H., Chincha, O., Samalvides, F. & Jacobs, J., 2011, In: Journal of Infection. 63, 6, p. 482-483 2 p.

Validation of a four-primer real-time PCR as a diagnostic tool for single and mixed *Plasmodium* infections

Cnops, L., Jacobs, J. & Van Esbroeck, M., 2011, In: Clinical Microbiology and Infection. 17, 7, p. 1101-1107 7 p.

Buffer substitution in malaria rapid diagnostic tests causes false-positive results

Gillet, P., Mori, M., Van den Ende, J. & Jacobs, J., 2010, In: Malaria Journal. 9, p. 215 8 p.

Evaluation of a rapid diagnostic test (CareStartTM Malaria HRP-2/pLDH (Pf/pan) Combo Test) for the diagnosis of malaria in a reference setting

Maltha, J., Gillet, P., Bottieau, E., Cnops, L., Van Esbroeck, M. & Jacobs, J., 2010, In: Malaria Journal. 9, p. 171 13 p.

Evaluation of the Immunoquick+4 malaria rapid diagnostic test in a non-endemic setting

van Dijk, DPJ., Gillet, P., Vlieghe, E., Cnops, L., Van Esbroeck, M. & Jacobs, J., 2010, In: European Journal of Clinical Microbiology and Infectious Diseases. 29, 5, p. 577-583 7 p.

External quality assessment on the use of malaria rapid diagnostic tests in a non-endemic setting

Gillet, P., Mukadi, P., Vervelen, K., Van Esbroeck, M., Muyembe, JJ., Bruggeman, C. & Jacobs, J., 2010, In: *Malaria Journal*. 9, p. 359 11 p.

Giemsa-stained thick blood films as a source of DNA for *Plasmodium* species-specific real-time PCR

Cnops, L., Van Esbroeck, M., Bottieau, E. & Jacobs, J., 2010, In: *Malaria Journal*. 9, 370, p. 370 7 p.

Malaria rapid diagnostic tests: *Plasmodium falciparum* infections with high parasite densities may generate false positive *Plasmodium vivax* pLDH lines

Maltha, J., Gillet, P., Cnops, L., Van den Ende, J., Van Esbroeck, M. & Jacobs, J., 2010, In: *Malaria Journal*. 9, p. 198 7 p.

Utility of point-of-care malaria rapid diagnostic tests [letter]

Van den Ende, J., Jacobs, J. & Bisoffi, Z., 2010, In: *American Journal of Tropical Medicine and Hygiene*. 83, 1, p. 207 1 p.

Antibiotic resistance among bacterial pathogens in Central Africa: a review of the published literature between 1955 and 2008

Vlieghe, E., Phoba, MF., Muyembe Tamfum, JJ. & Jacobs, J., 2009, In: *International Journal of Antimicrobial Agents*. 34, 4 , p. 295-303 9 p.

Assessment of the prozone effect in malaria rapid diagnostic tests

Gillet, P., Mori, M., Van Esbroeck, M., Van den Ende, J. & Jacobs, J., 2009, In: *Malaria Journal*. 8, 271, p. 1-7 7 p.

Evaluation of the Palutop+4 malaria rapid diagnostic test in a non-endemic setting

Van Dijk, DP., Gillet, P., Vlieghe, E., Cnops, L., Van Esbroeck, M. & Jacobs, J., 2009, In: *Malaria Journal*. 8, 293, p. 1-8 8 p.

Evaluation of the SD FK70 malaria Ag *Plasmodium vivax* rapid diagnostic test in a non-endemic setting

Gillet, P., Bosselaers, K., Cnops, L., Bottieau, E., Van Esbroeck, M. & Jacobs, J., 2009, In: *Malaria Journal*. 8, 129, p. 1-8 8 p.

Test characteristics of the SD FK80 *Plasmodium falciparum/Plasmodium vivax* rapid diagnostic test in a non-endemic setting

Gillet, P., van Dijk, DPJ., Bottieau, E., Cnops, L., Van Esbroeck, M. & Jacobs, J., 2009, In: *Malaria Journal*. 8, 262, p. 1-8 8 p.

Test characteristics of two rapid antigen detection tests (SD FK50 and SD FK60) for the diagnosis of malaria in returned travellers

Van der Palen, M., Gillet, P., Bottieau, E., Cnops, L., Van Esbroeck, M. & Jacobs, J., 2009, In: *Malaria Journal*. 8, 90, p. 1-9 9 p.

Biometric fingerprinting for visa application: device and procedure are risk factors for infection transmission

Jacobs, J. A. & Van Ranst, M., 2008, In: *Journal of Travel Medicine*. 15, 5, p. 335-343 9 p.

Trends of norfloxacin and erythromycin resistance of *Campylobacter jejuni/Campylobacter coli* isolates recovered from international travelers, 1994 to 2006

Vlieghe, E. R., Jacobs, J. A., Van Esbroeck, M., Koole, O. & Van Gompel, A., 2008, In: *Journal of Travel Medicine*. 15, 6, p. 419-425 7 p.

Co-trimoxazole prophylaxis in tropical countries in the era of highly active antiretroviral therapy: do we know enough?

Lynen, L., Jacobs, J. & Colebunders, R., 2007, In: *Transactions of the Royal Society of Tropical Medicine and Hygiene*. 101, 11, p. 1059-1060

Projects

Vacc-iNTS: Advancing a GMMA-based vaccine against invasive non-typhoidal salmonellosis through Phase I trial in Europe and sub-Saharan Africa

Jacobs, J. & Jacobs, J.

The European & Developing Countries Clinical Trials Partnership

1/10/19 → 30/09/24

Antimicrobial resistance of bacterial pathogens in Peru

Garcia, C., Jacobs, J., Bruggeman, C. & Samalvides, F.

1/01/09 → 29/01/16

Bacterial bloodstream infections in Rwanda: a molecular surveillance study

Rutanga, J. P., Jacobs, J., Jacobs, J. & Muvunyi, C.

1/04/16 → 19/04/22

Bacterial contamination of blood products for transfusion in the Democratic Republic of the Congo: prevalence, risk analysis, prevention

Jacobs, J., Heroes, A. & Vandekerckhove, P.

24/04/17 → 19/12/23

Biomarker Characterization and Assay Development for Rapid Clinical Diagnosis of the Select Biothreat Agents *B. pseudomallei*, *B. mallei*, and *Y. pestis*

Jacobs, J., Baert, E. & Sy, H.

SRI International

9/11/15 → 15/01/19

DRC - FA4: Building capacity for health research in three DRC partner institutions Institut National de Recherche Biomédicale (IRNB), Ecole de Santé Publique de l'Université de Lubumbashi (ESP) en Centre de Recherche Sanitaire de Kimpese (CRS), and rationalize the fight against Human African Trypanosomiasis (HAT) while strengthening local health systems with the support of all partners.

Boelaert, M., Jacobs, J., Büscher, P., Polman, K., Rigouts, L., Dorny, P., Hardy, L., Corsmit, E., Roucher, C., Eddyani, M., Dermauw, V., Bebronne, N., Snijders, R., Inocêncio da Luz, R., Van Cauwenberg, I. & Everaert, R.

Directorate-General for Development Cooperation and Humanitarian Aid

1/01/17 → 31/12/21

Carbapenem resistance in Enterobacteriaceae: diagnostic value of the small RNA landscapes

Deborggraeve, S., Jacobs, J., Grijalva, M. & De Smet, S.

Research Fund - Flanders

1/01/15 → 31/12/18

Carbapenem resistance in Enterobacteriaceae: profiling the small RNA landscapes

Gonzalez Andrade, P. D., Jacobs, J., Jacobs, J. & Grijalva, M.

1/04/14 → 19/04/22

Characterization of antimicrobial resistance among Gram---negative bacteria in Peru: a comprehensive national surveillance

Krapp Lopez, F. D. C., Jacobs, J. & Garcia, C.

1/12/17 → 15/03/24

SIMBLE: Clinical diagnostic trial in Western Africa of a simplified blood culture system to improve healthcare in low-resource settings

Hardy, L., Jacobs, J. & Hardy, L.

The European & Developing Countries Clinical Trials Partnership

1/07/21 → 31/12/24

Bac Turb: Development and proof-of-concept validation of a low-cost tropicalized device detecting bacterial growth in equipment-free blood cultures

Hardy, L., Jacobs, J. & Ratsarahery, L.

Institute of Tropical Medicine Antwerp, Flemish Government - Department of Economy, Science & Innovation
1/09/18 → 31/08/19

THECA: Effect of a novel typhoid conjugate vaccine in Africa: a multicenter study in Ghana and the DRC

Jacobs, J., Hardy, L., Heroes, A. & Jacobs, J.

1/01/19 → 31/12/24

Effect of lactoferrin on pediatric infections

Ochoa, T. J., Jacobs, J., Jacobs, J. & Cossey, V.

12/01/17 → 15/05/20

External quality assessment of the laboratory diagnosis of tropical infectious diseases

Mukadi Kaningu, P. P., Jacobs, J., Muyembe, J. & Luamba Lua Nsembo, J.

1/01/14 → 26/07/17

Field implementation and evaluation of novel isothermal, nucleic acid-based diagnostic tools for malaria elimination in sub-Saharan Africa

Oriero, C. E., D'Alessandro, U., Jacobs, J., Nwakanma, D. & Van Geertruyden, J.

27/06/12 → 23/10/15

Implementing clinical bacteriology in low resource settings: reviving the old, bringing in the new

Ombelet, S., Jacobs, J., Cox, J. & Jacobs, J.

12/01/17 → 4/02/22

FA5 BURKINA: Improve research capacity in infectious disease to inform policy & control strategies

Rosanas-Urgell, A., Jacobs, J., Peeters, K., Vuylsteke, B., Mutsaers, M., Eddyani, M., Hyland, P. & Rosanas-Urgell, A.
Directorate-General for Development Cooperation and Humanitarian Aid

1/01/22 → 31/12/26

IDIS: Innovative Diagnostics for Invasive Salmonellosis

Deborggraeve, S., Jacobs, J., Ley, B., Gevaert, K., Leclipteux, T., Decuyper, S., De Smet, S., Stas, M. & Deborggraeve, S.

Flemish Government - Department of Economy, Science & Innovation

1/09/13 → 31/12/18

BENIN - 2018 - FA4: Institutional strengthening of the Mycobacteria Reference Laboratory (LRM, Bénin) for quality services and better quality of health care for Mycobacteria and other clinical bacteria, at National and Regional Level.

de Jong, B., Jacobs, J., Hardy, L., Stassijns, J., Nduwamahoro, E., Eddyani, M., Gumusboga, M. & Janssens, N.

Directorate-General for Development Cooperation and Humanitarian Aid

1/01/18 → 31/12/18

ILIAS: Invasive Lineages of AMR Salmonella, Trojan Horses in Africa

Van Puyvelde, S., Deborggraeve, S., Jacobs, J., Dougan, G. & Stas, M.

Institute of Tropical Medicine Antwerp

1/10/18 → 31/12/19

Invasive salmonellosis in the Democratic Republic of the Congo

Mbuyi Kalonji, L., Jacobs, J. & Muyembe, J.

1/09/15 → ...

Methods for Detection and Identification of Bacterial Species in Blood Cultures based on Optical Turbidimetry and AI for use in Limited-Resource Settings

Cornelis, J., Jacobs, J., Hardy, L. & Li, Y.

12/12/23 → ...

Microbiologic aspects of childhood bacterial meningitis in the Democratic Republic of the Congo

Phoba, M. N., Jacobs, J., Van Geet, C. & Muyembe, J.

1/12/10 → 4/12/19

Minilab MSF-F Autoclave1

Jacobs, J. & Baert, E.

MSF France

1/01/18 → 31/12/18

MINILab project MSF-F

Jacobs, J. & Baert, E.

MSF France

1/03/18 → 31/12/20

CAMBODIA - 2018 - FA4: National Institutes in Cambodia have increased capacity to generate evidence for the management of health problems and for the strengthening of the health system in Cambodia.

Lynen, L., Jacobs, J., De Baetselier, I., De Wegheleire, A., Smekens, B., Stassijns, J., Van Damme, W., van de Put, W., Delvaux, T. & Ratsarahery, L.

Directorate-General for Development Cooperation and Humanitarian Aid

1/01/18 → 31/12/18

Old school bacteriology revisited: need for in-depth knowledge on bacterial growth to tune diagnosis of bloodstream infections for use in low resource settings

Jacobs, J., Hardy, L. & Doudouh, A.

Research Fund - Flanders

1/01/20 → 31/12/22

Bact-EVD: Pilot clinical bacteriology in the EVD care response to detect intercurring bloodstream infections and inform about appropriate antibiotic treatment

Jacobs, J. & Janssens, S.

Dioraphte Foundation

1/08/19 → 30/06/20

HAT-PolyB VL: Polyclonal B-cell activation in human African trypanosomiasis (HAT): impact on acquired immunity and on rapid diagnostic tests.

Büscher, P., van Griensven, J., Boelaert, M., Lejon, V., Jacobs, J., Kestens, L., Fransen, C., Bottieau, E., OKENGE, A., Atua, B., MUMBA, D., Muyembe, J., MABIALA, M., Lutumba, P. & Kande, V.

1/09/09 → 31/12/12

Post-market surveillance as a tool for assuring quality of in-vitro diagnostics in low-resource settings

Sands, A., Jacobs, J., Fransen, C. & Jacobs, J.

12/01/17 → 30/04/18

Predicting and treating non-typhoidal Salmonella bloodstream infections in children in sub-Saharan Africa

Tack, B., Jacobs, J., Toelen, J. & Lunguya, O.

17/04/20 → 20/12/23

Salmonella Paratyphi A: The emergence of a neglected pathogen in Asia

KUIJPERS, L. M. F., Jacobs, J. & Jacobs, J.

22/01/15 → 11/01/19

Selected topics in hospital infection prevention and control in sub-Saharan Africa

Kalema Yanga, J., Jacobs, J. & Lunguya, O.

1/01/21 → 31/12/24

SETA: Severe Typhoid in Africa Program (DRC site)

Marks, F., Jacobs, J. & Ratsarahery, L.
International Vaccine Institut
1/04/17 → 30/06/19

NIDIAG : Syndromic approach to neglected infectious diseases (NID) at primary health care level : an international collaboration on integrated diagnosis-treatment platforms

Boelaert, M., Büscher, P., Jacobs, J., Ravinetto, R., Polman, K., Bottieau, E., Verdonck, T., Barbé, B., van Griensven, J., Hendrickx, D., van Loen, H., Buyze, J., Meheus, F., Paessens, E. & Everaert, R.
European Commission
1/11/10 → 30/04/16

Systems biological analysis of niche adaptation in resistant and virulent *Salmonella* pathogens

Cuypers, W., Jacobs, J., Laukens, K. & Van Puyvelde, S.
26/04/18 → 23/06/23

The Hospital as a reservoir of antibiotic resistance in low resource settings

Lompo, P., Jacobs, J. & Tinto, H.
1/10/17 → 15/12/23

ETHIOPIA - 2018 - FA4: To enhance the research capacity and evidence based medical practice in tropical and poverty related diseases in Ethiopia

van Griensven, J., Jacobs, J., Abdellati, S., Stassijns, J., van Henten, S., Ratsarahery, L., Dujardin, J. & Van der Auwera, G.
Directorate-General for Development Cooperation and Humanitarian Aid
1/01/18 → 31/12/18

PERU - FA4: To strengthen the R&D capacities of the Institute of Tropical Medicine Alexander von Humboldt (Peru) to deliver strategies and/or tools for diagnosis, surveillance and control of infectious diseases.

Dujardin, J., Van der Auwera, G., Rosanas-Urgell, A., de Jong, B., Ariën, K., Rigouts, L., Heyndrickx, L., Kattenberg, E., Battaglioli, T. C. E., Jacobs, J., Monsieurs, P., Guetens, P. & Müller, R.
Directorate-General for Development Cooperation and Humanitarian Aid
1/11/17 → 31/12/21

BURKINA - 2019 - FA4: To strengthen the research capacity in the resource limited setting of Burkina Faso.

Jacobs, J., Rosanas-Urgell, A., Hardy, L., Peeters, M., Kattenberg, E. & Ratsarahery, L.
1/01/19 → 31/12/19

BURKINA - FA4: To strengthen the research capacity in the resource limited setting of Burkina Faso.

Jacobs, J., Rosanas-Urgell, A., Hardy, L., Peeters, M., Kattenberg, E. & Ratsarahery, L.
Directorate-General for Development Cooperation and Humanitarian Aid
1/01/17 → 31/12/21

Understanding antimicrobials use: An ethnographic study of rural communities in Burkina Faso

Compaore, A., Peeters, K., Jacobs, J., Sariola, S. & Tinto, H.
1/01/20 → ...