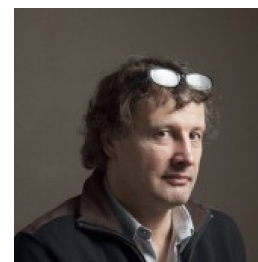


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## Research expertise

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

### 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, p. 1-12 12 p., 39.

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

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### 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.

**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.

**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.

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**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., Lompo, 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**

Ombelét, 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.

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

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

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

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**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**

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**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**

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

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

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

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**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.

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**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.

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

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

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

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**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, p. S49-S49 1 p.

**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, p. 205

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**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. A. B., 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**

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

Post, A. S., Diallo, S. N., Guiraud, I., Lompo, 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.

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

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

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Bertrand, S., De Lamine de Bex, G., Wildemaue, 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**

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**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**

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

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**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**

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## 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. & Baert, E.  
European Commission  
1/10/19 → 31/03/21

**Antimicrobial resistance of bacterial pathogens in Peru**

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

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**Bacterial bloodstream infections in Rwanda: a molecular surveillance study**

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

1/04/16 → ...

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

Heroes, A., Jacobs, J. & Jacobs, J.

24/04/17 → ...

**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.

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.

DGD

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.

Fonds voor Wetenschappelijk Onderzoek

1/01/15 → 31/12/18

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

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

1/12/17 → ...

**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, 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. & Baert, E.

1/01/19 → 31/12/23

**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 → ...

**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.**

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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

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 → ...

**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.**

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1/01/18 → 31/12/18

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

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Sands, A., Jacobs, J., Fransen, C. & Jacobs, J.  
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**Predicting and treating non-typhoidal Salmonella bloodstream infections in children in sub-Saharan Africa**

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

KUIJPERS, L. M. F., Jacobs, J. & Jacobs, J.  
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**Selected topics in hospital infection prevention and control in sub-Saharan Africa**

Kalema Yanga, J., Jacobs, J., Jacobs, J. & Lunguya, O.  
1/01/21 → 30/06/22

**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**

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

Cuypers, W., Jacobs, J. & Laukens, K.  
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**The Hospital as a reservoir of antibiotic resistance in low resource settings**

Lompo, P., Jacobs, J., Jacobs, J. & Tinto, H.  
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**The rural community in sub-Saharan Africa as a reservoir of antibiotic resistance: a case study from Burkina Faso**

Guiraud, I., Jacobs, J., Jacobs, J. & Tinto, H.  
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**ETHIOPIA - 2018 - FA4: To enhance the research capacity and evidence based medical practice in tropical and poverty related diseases in Ethiopia**

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DGD

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 → ...