

# Brecht Devleesschauwer (°09/09/1986)

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**Senior epidemiologist, PhD DVM MVSc MStat**

**Head of Service Health information**

*Sciensano, Department of Epidemiology and Public Health*

[brecht.devleesschauwer@sciensano.be](mailto:brecht.devleesschauwer@sciensano.be)

Rue Juliette Wytsman 14, 1050 Brussels, Belgium | +32 2 642 5035

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## 1 Research interests

- Epidemiology, burden of disease, health impact assessment, risk assessment;
- Bayesian data analysis, true prevalence estimation, disease transmission modeling;
- Zoonotic diseases, food safety, veterinary public health.

## 2 Employment

- **Head of Service, Health information**, 01/2023–present  
Sciensano, Brussels, Belgium
- **Visiting professor, risk analysis**, 04/2018–present  
Ghent University, Merelbeke, Belgium
- **Senior epidemiologist**, 04/2016–present  
Sciensano, Brussels, Belgium
- **Head of Service, Lifestyle and chronic diseases**, 02/2022–12/2022  
Sciensano, Brussels, Belgium
- **Visiting professor, advanced epidemiology**, 10/2018–09/2019  
Université catholique de Louvain, Brussels, Belgium
- **Visiting professor, health economic evaluations**, 10/2016–09/2018  
Université catholique de Louvain, Brussels, Belgium
- **Assistant scientist, global food safety and zoonoses**, 06/2015–03/2016  
University of Florida, Gainesville, USA
- **Post-doctoral researcher**, 04/2015  
Ghent University, Merelbeke, Belgium
- **Contracted technical expert**, 09/2013–12/2013, 02/2014–03/2014  
World Health Organization, Geneva, Switzerland

- **Doctoral researcher**, 10/2010–03/2015  
Ghent University, Merelbeke, Belgium  
Université catholique de Louvain, Brussels, Belgium

## 3 Education

### 3.1 Academic titles

- **Ph.D. Veterinary Sciences & Ph.D. Public Health**, 2010–2015  
Ghent University, Merelbeke, Belgium  
Université catholique de Louvain, Brussels, Belgium  
Dissertation topic: “*The Burden of Zoonoses in Nepal*”  
Promoters: Prof. Dr. P. Dorny, Prof. Dr. N. Speybroeck, Prof. Dr. L. Duchateau
- **Doctoral Training Programme**, 2010–2015  
Doctoral School of Life Sciences and Medicine, Ghent University, Belgium
- **M.Sc. Statistics (biometrics)**, 2011–2014  
Katholieke Universiteit Leuven, Louvain, Belgium; Great distinction  
Dissertation topic: “*Quantitative Microbial Risk Assessment with R*”  
Promoters: Prof. Dr. G. Molenberghs, Prof. Dr. C. Faes
- **M.Sc. Veterinary Medicine (research & industry)**, 2007–2010  
Ghent University, Merelbeke, Belgium; Greatest distinction  
Dissertation topic: “*The Epidemiology of Taenia solium in Nepal*”  
Promoter: Prof. Dr. P. Dorny
- **B.Sc. Veterinary Medicine**, 2004–2007  
Ghent University, Merelbeke, Belgium; Greatest distinction

### 3.2 Short courses

- **Introductory teacher training**, Ghent University, 2019
- **Speaking in Public - With Exercises from the Theater**, Klein Barnum, 2019
- **Introduction to the Statistical Program to Assess Dietary Exposure (SPADE)**, RIVM, 2018
- **Workshop Evaluation Interviews**, WIV-ISP, 2017
- **SAS Basics**, BI Knowledge Sharing, 2016
- **GBD Technical Training Workshop**, IHME (University of Washington), 2014
- **Advanced Academic English Conference Skills**, UCT (Ghent University), 2013

- **Introduction to Health Economics, Francqui Chair Pr. Annemans**, Université catholique de Louvain, 2013
- **Introduction to Infectious Disease Modelling and Its Applications**, LSHTM, 2013
- **Modelling Infectious Diseases and Health Economic Evaluation of Vaccines**, Antwerp University, 2013
- **Writing for Non-Specialists and Press**, UCT (Ghent University), 2013
- **Analyses and Graphics with RExcel**, Université catholique de Louvain, 2012
- **Getting Started with High Performance Computing**, Ghent University, 2012
- **Mathematical and Epidemiological Modeling of Endemic Infectious Disease**, Cornell University, 2012
- **Workshop Impact and Research Communication Skills**, Ghent University, 2012
- **Basic Course on Veterinary Epidemiology**, Ghent University, 2011

## 4 Professional experiences

### 4.1 Contributions to peer review

- **Co-Editor-in-Chief**, 2023–present  
Archives of Public Health
- **Guest Editor**, 2019–present  
Archives of Public Health: burden of disease article collection
- **Academic Editor**, 2017–present  
Food and Waterborne Parasitology
- **Academic Editor**, 2017–2022  
PLOS ONE
- **Associate Editor**, 2017–2019  
BMC Veterinary Research, Parasitology section
- **Reviewer for international scientific journals**, e.g.:  
Acta Tropica, Advances in Parasitology, Archives of Public Health, BMC Infectious Diseases, BMJ Case Reports, Bulletin of the World Health Organization, Epidemiology and Infection, Health Affairs, Parasites & Vectors, Parasitology International, PLOS Neglected Tropical Diseases, PLOS ONE, Risk Analysis, The Lancet, Transactions of the Royal Society of Tropical Medicine & Hygiene, Vector-Borne and Zoonotic Diseases

## 4.2 Participation in national projects

- **HELICON – Unravelling the long-term and indirect health impact of the coronavirus crisis in Belgium, 2020–2025**  
*HELICON is a BELSPO BRAIN-be project that aims to unravel the social inequalities and the long-term and indirect health effects of the COVID-19 crisis in Belgium.*
- **AHEAD – Towards the development of a national health data platform, 2020–2023**  
*AHEAD is a BELSPO BRAIN-be project that aims to increase the visibility of the Belgian health information landscape, and explore the technical, ethical and legal bottlenecks towards a more integrated national health information system.*
- **ELLIS – Monitoring and mitigating environmental health inequalities in Belgium, 2019–2023**  
*ELLIS is a BELSPO BRAIN-be project that aims to develop policy-relevant tools to monitor and mitigate environmental health inequalities in Belgium.*
- **WaIST – Contribution of excessive weight status to the social impact of non-communicable diseases, multimorbidity and disability in Belgium: past, present, and future, 2019–2023**  
*Proactive policy support for the further development and implementation of evidence-based health policies for the prevention of excessive weight gain.*
- **Diagnosis-based morbidity statistics – Pilot data collection, 2018–2019**  
*The overall objective of this Eurostat-funded project is to obtain nationally representative, comparable diagnosis-based morbidity data proceeding from the 2018 Shortlist of Morbidity Indicators developed by Eurostat.*
- **Belgian Health Status Report, 2017–present**  
*The Belgian Health Status Report addresses the lack of an integrated view on the health status of the Belgian population. It provides health status information relevant for decision-makers, with focus on information useful for defining and/or evaluating health objectives.*
- **Belgian National Burden of Disease Study, 2016–present**  
*The Belgian National Burden of Disease Study (BeBOD) aims to establish a coherent framework for routinely quantifying the burden of disease in Belgium using the DALY metric. The project supports capacity building, ensuring ownership and sustainability.*
- **Belgian contribution to the WHO/EURO Health for All Database, 2016–present**  
*The HFA database is one of WHO's oldest sources of data. The indicators cover*

*basic demographics, health status, health determinants and risk factors, as well as health care resources, expenditures and more. Each year, Belgium is requested to update the information in the HFA database.*

- **Belgian Health System Performance Assessment**, 2016–2019

*The HSPA project is a collaboration between Sciensano, KCE, RIZIV-INAMI and FPS Public Health. The report highlights strenghts and weaknesses of the Belgian health system, through a dashboard of 121 indicators, divided over 5 transversal dimensions and 5 specific themes.*

### 4.3 Participation in international projects

- **Computational Task Force member**, 2021–2025

**Impact Measurement Task Force member**, 2021–2025

Foodborne Disease Burden Epidemiology Reference Group, WHO

- **WP Member**, 2021–present

WP4 Data analysis, Unravelling Data for Rapid Evidence-Based Response to COVID-19—[www.uncover-eu.net](http://www.uncover-eu.net)

- **WP member**, 2021–present

WP5 Research methodologies to assess the impact of COVID-19, The Population Health Information Research Infrastructure—[www.phiri.eu](http://www.phiri.eu)

- **Human Health Theme co-lead**, 2021–present

Global Burden of Animal Diseases programme—[www.animalhealthmetrics.org](http://www.animalhealthmetrics.org)

- **Main Action Proposer and Chair**, 2019–present

COST Action CA18218 “European Burden of Disease Network”—[www.burden-eu.net](http://www.burden-eu.net)

- **Country representative**, 2017–present

EUROSTAT Technical Group on Morbidity Statistics

- **Country representative**, 2016–present

European Burden of Disease Network (WHO/EURO, IHME)

- **Epidemiology workgroup leader**, 2013–2018

COST Action TD1302 CYSTINET—[www.cystinet.org](http://www.cystinet.org)

- **Risk forecasting workgroup vice-leader**, 2015–2016

COST Action FA1408 EURO-FBP

- **Computational Task Force member**, 2011–2015

**Country Studies Task Force member**, 2011–2015

Foodborne Disease Burden Epidemiology Reference Group, WHO

## 4.4 Participation in international development projects

- **USAID Feed the Future Innovation Lab on Livestock Systems, 2015–2016**  
*Project granted to UF, aiming to improve livestock systems in Mali, Burkina Faso, Ethiopia, Rwanda, Nepal and Cambodia*
  - Contribution to project proposal
  - Participation in “Livestock Disease Management and Food Safety” AOI
- **VLIR-UOS Institutional University Cooperation with Jimma University, Ethiopia, 2012–2015**  
*Collaboration between Jimma University and different Flemish universities to strengthen institutional capacity*
  - Organisation of a workshop on design of experiments
  - Supervision of Master students
- **Doctoral research in Nepal, 2010–2015**  
*Collection and analysis of data on the burden of zoonotic and foodborne diseases, during a 6 months’ stay*
- **Impact assessment and control of cysticercosis in the Indian Subcontinent, 2007–2009**  
*VLIR-UOS collaboration between Institute of Tropical Medicine (Antwerp, Belgium) and National Zoonoses and Food Hygiene Research Centre (Kathmandu, Nepal)*
  - Field work, lab work, data analysis

## 4.5 Contributions as invited expert

- EFSA working group on foodborne parasites. European Food Safety Authority, Parma, Italy; 2017–2018.
- Steering committee of KCE project 292, Exploratory steps for the formulation of Belgian health system targets. Belgian Health Care Knowledge Centre, Brussels, Belgium; 2017.
- FAO/WHO expert meeting on verotoxigenic *Escherichia coli* (VTEC) / Shigatoxi-genic *E. coli* (STEC). World Health Organization, Geneva, Switzerland; 2016–2017.
- Expert consultation on diet-related health problems to support the development of food-based dietary guidelines. Superior Health Council, Brussels, Belgium; 2016–2017.
- Expert panel on FDA-iRisk DALY templates. Research Triangle International, NC, USA; 2016.

- Expert consultation to discuss preliminary results of the joint WHO/IHME analysis of causes of death among children aged 5–14 years in the WHO European Region. WHO Regional Office for Europe, Copenhagen, Denmark; 2015.
- Trend analysis applied to parameter/matrix combinations from the the control plan. Federal Agency for the Safety of the Food Chain, Brussels, Belgium; 2014.
- FAO/WHO expert meeting on risk-based examples for control of *Trichinella* spp. and *Taenia saginata* in meat. World Health Organization, Geneva, Switzerland; 2013–2014.

## 4.6 Institutional responsibilities

- **Coordinator**, 2021–present  
Sciensano R Introduction Course
- **Founder**, 2018–present  
Sciensano R User Group
- **Member**, 2017–present  
Sciensano Redactional Council
- **Project leader**, 2017–2019  
Sciensano Translational Research Working Group

## 5 Skills

### 5.1 Languages

- |                  |             |              |              |
|------------------|-------------|--------------|--------------|
| • <b>Dutch</b>   | speaking+++ | reading+ + + | writing+ + + |
| • <b>English</b> | speaking+++ | reading+ + + | writing+ + + |
| • <b>French</b>  | speaking+++ | reading+ + + | writing++    |
| • <b>German</b>  | speaking+   | reading++    | writing+     |
| • <b>Nepali</b>  | speaking+   | reading+     | writing+     |

### 5.2 Computer skills

- **Statistical software:** R, JAGS, WinBUGS, OpenBUGS, SAS, Stata
- **Advanced R skills:** package development, Tcl/Tk interfaces, Shiny applications
- **Design and programming:** html, javascript, php, mysql, L<sup>A</sup>T<sub>E</sub>X, markdown, C++
- **Windows and MS Office:** Word, Excel, Powerpoint, Access

## 6 Teaching

### 6.1 Courses

- **Advanced epidemiology**  
WFSP2238, Université catholique de Louvain, 2018–2019
- **Health economic evaluations**  
WFSP2103, Université catholique de Louvain, 2016–2018
- **Quantitative microbial risk assessment of pathogens in food systems**  
ANS 6932 / FOS 6936, University of Florida, February 26–March 4, 2016

### 6.2 Workshops

- **R Introduction Course, 2nd edition**, 11–25 October 2021  
Sciensano, Brussels, Belgium
- **General Concepts of Burden of Disease**, 28 May–11 June 2021  
European Burden of Disease Network—[www.burden-eu.net/training](http://www.burden-eu.net/training)
- **R Introduction Course, 1st edition**, 19–30 April 2021  
Sciensano, Brussels, Belgium
- **Burden of Disease and the DALY metric, 2nd edition**, 11–12 October 2017  
WIV-ISP, Brussels, Belgium
- **Burden of Disease and the DALY metric, 1st edition**, 5–6 October 2016  
WIV-ISP, Brussels, Belgium
- **CYSTINET Epidemiology Training School**, 1–3 September 2014  
Institute of Tropical Medicine, Antwerp, Belgium  
Contents: introduction to R, systematic review and meta-analysis, GIS
- **National Workshop on Design of Experiments for Statisticians and Practitioners**, 28–29 March 2013  
Jimma University, Jimma, Ethiopia  
Partims: introduction to R, analysis of variance

### 6.3 Lectures

- **Topics in tropical veterinary medicine**, 2013–2016  
MSc Veterinary Medicine, Ghent University
- **Food safety: an introduction**, 2015  
Environmental Health Concepts in Public Health, PHC 6313, University of Florida
- **Concepts of health economics**, 2013–2014  
MSc Public Health, Université catholique de Louvain



- **Burden of disease and the Disability-Adjusted Life Year**, 2013–2015  
MSc Public Health, Université catholique de Louvain  
MSc Health and Development, Université catholique de Louvain  
MSc Occupational Medicine, Université catholique de Louvain  
BSc Biomedical Sciences, Université catholique de Louvain
- **Diagnostic test characteristics and true prevalence**, 2013–2014  
MSc Public Health, Université catholique de Louvain  
MSc Health and Development, Université catholique de Louvain

## 6.4 Practicals

- **Biomedical statistics**, 2012–2014  
BSc Veterinary Medicine, Ghent University
- **Applied biomedical statistics**, 2013–2014  
MSc Veterinary Medicine, Ghent University

## 6.5 PhD students (11)

- **Lisa Van Acker**, 2023–2026  
PhD Veterinary Sciences, Ghent University  
One Health implementation of improved patient management and disease control for *Taenia solium*  
Promoters: Sarah Gabriël, **Brecht Devleesschauwer**
- **Carlotta Di Bari**, 2023–2024  
PhD Veterinary Sciences, Ghent University  
The global burden of neglected zoonotic diseases: assessing and strengthening the evidence base  
Promoters: **Brecht Devleesschauwer**, Sarah Gabriël
- **Yasmine Khan**, 2021–2025  
PhD Public Health, Ghent University  
Unravelling the indirect health impact of the COVID-19 crisis in Belgium  
Promoters: Delphine De Smedt, Nick Verhaeghe, **Brecht Devleesschauwer**
- **Lisa Cavillot**, 2021–2025  
PhD Public Health, Université catholique de Louvain  
Unravelling the long-term health impact of the COVID-19 crisis in Belgium  
Promoters: Niko Speybroeck, Koen Blot, **Brecht Devleesschauwer**
- **Jinane Ghattas**, 2020–2026  
PhD Public Health, Université catholique de Louvain  
The social determinants of COVID-19: from evidence to policy  
Promoters: Sophie Thunus, **Brecht Devleesschauwer**

- **Martina Otavova**, 2020–2024  
PhD Social Sciences (demography), Université catholique de Louvain  
Development and application of a Belgian Index of Multiple Deprivation  
Promoters: Bruno Masquelier, **Brecht Devleesschauwer**
- **Vanessa Gorasso**, 2020–2024  
PhD Public Health, Ghent University  
Health impact assessment of excess weight status prevention policies  
Promoters: Delphine De Smedt, **Brecht Devleesschauwer**
- **Margot Cooreman-Algoed**, 2018–2024  
PhD Bioscience Engineering, Ghent University  
Integrating environmental and nutritional aspects of diets  
Promoters: Jo Dewulf, Carl Lachat, **Brecht Devleesschauwer**
- **Lisa Van Wilder**, 2018–2022  
PhD Public Health, Ghent University  
Quality of life in patients with chronic disease  
Promoters: Delphine De Smedt; Els Clays, **Brecht Devleesschauwer**
- **Frederik Engelen**, 2018–2021  
PhD Veterinary Sciences, Ghent University  
Shiga toxin-producing *Escherichia coli*: A dangerous gut feeling  
Promoters: Eric Cox, Lieven De Zutter, Jacques Mainil, **Brecht Devleesschauwer**
- **Sofie Theresa Thomsen**, 2016–2019  
PhD Nutrition, National Food Institute, Danish Technical University  
Risk-benefit assessment of food substitutions  
Promoters: Rikke Andersen; Sara Monteiro Pires, Morten Poulsen, **Brecht Devleesschauwer**

## 6.6 MSc students (55)

*Past 5 years shown only — for a complete list, please visit <https://brecht.cbira.be>*

- Manon Lagaeyse (2023) Comparative risk assessment of hypertension in Belgium. MSc Health Care Management and Policy, Ghent University. Promoter: **Devleesschauwer B.**
- Emma Haentjens (2022) Bacterial vaginosis and sexually transmitted infections: a systematic review and meta-analysis. MSc Medicine, Ghent University. Promoters: Cools P, **Devleesschauwer B.**
- Kimberley Hansford (2022) The global burden of anthrax. MSc Epidemiology, Antwerp University. Promoter: **Devleesschauwer B.**

- Laurissa Demeulenaere (2022) The global burden of bacterial vaginosis. MSc Medicine, Ghent University. Promoters: Cools P, **Devleesschauwer B**.
- Maxime Van Santen (2022) Source attribution of *Salmonella* and *Campylobacter* in Belgium. MSc Veterinary Medicine, Ghent University. Promoters: **Devleesschauwer B**, Houf K.
- Reynaldi Kosasih (2022) Diabetes burden attributable to red meat consumption in Belgium. MSc Epidemiology, Antwerp University. Promoters: **Devleesschauwer B**, Van Hal G.
- Shary De Bruycker (2022) Cost-effectiveness of speech therapy in Belgium. MSc Health Care Management and Policy, Ghent University. Promoters: **Devleesschauwer B**, Cosyns M.
- Eva De Meulemeester (2021) The burden of neuromuscular disorders in Belgium: a registry-based study. MSc Health Care Management and Policy, Ghent University. Promoters: **Devleesschauwer B**, Cosyns M.
- Joren Verbeke (2021) Sample size calculation for animal trials based on data from virulence tests. MSc Statistical Data Analysis, Ghent University. Promoters: De Neve J, **Devleesschauwer B**.
- Judith Brusselmans (2021) The emotional, sexual and social impact of (recurrent) bacterial vaginosis: a systematic review. MSc Medicine, Ghent University. Promoters: Cools P, De Sutter A, **Devleesschauwer B**.
- Léonore Nasiadka (2021) The health and economic impact of lower respiratory infections and influenza in Belgium. MSc Public Health, Université catholique de Louvain. Promoters: **Devleesschauwer B**, Speybroeck N.
- Manu Claessens (2021) Past, present and future trends of obesity in Belgium: an age-period-cohort modeling study. MSc Statistical Data Analysis, Ghent University. Promoters: **Devleesschauwer B**, Vansteelandt S.
- Melanie Sioen (2021) The disease burden of injuries in Belgium. MSc Health Care Management and Policy, Ghent University. Promoter: **Devleesschauwer B**.
- Polina Putrik (2021) Spatial distribution of smoking attributable mortality in Belgium. MSc Statistics, Hasselt University. Promoters: **Devleesschauwer B**, Faes C.
- Wendy Verlinde (2021) Drug-related mortality in Belgium, 2002-2016. MSc Health Care Management and Policy, Ghent University. Promoter: **Devleesschauwer B**.
- Alexandra Jeanmart, Samira Thaugally (2020) How to explain the resurgence of measles in Wallonia? A mixed methods study with the general public and health professionals. MSc Public Health, Université catholique de Louvain. Promoters: Speybroeck N, **Devleesschauwer B**.

- Emilie Lemaire (2020) The health and economic burden of lupus in Belgium. MSc Public Health, Université catholique de Louvain. Promoters: Speybroeck N, **Devleesschauwer B**.
- Gil Derycke (2020) Causes of death in Belgium, 2020-2050. MSc Statistical Data Analysis, Ghent University. Promoter: **Devleesschauwer B**.
- Kristiaan Proesmans (2020) Trends and impacts of obesity in Belgium, 2020-2050: an agent-based microsimulation model. MSc Statistical Data Analysis, Ghent University. Promoter: **Devleesschauwer B**.
- Stacey Wilmaer (2020) The disease burden of Alzheimer's disease in Belgium. MSc Public Health, Université catholique de Louvain. Promoters: **Devleesschauwer B**, Speybroeck N.
- Delphine Losseau (2019) The health and economic impact of low back and neck pain in Belgium. MSc Public Health, Université catholique de Louvain. Promoter: **Devleesschauwer B**.
- Ellen De Ren (2019) Comparative risk assessment of alcohol use in Belgium. MSc Health Care Management and Policy, Ghent University. Promoters: De Smedt D, **Devleesschauwer B**.
- Jinane Ghattas (2019) The state of health in Belgium, 1990–2017: A benchmarking analysis based on the Global Burden of Disease 2017 study. MSc Public Health, Université catholique de Louvain. Promoter: **Devleesschauwer B**.
- Judith Ngoufo (2019) The burden of coronary heart disease in Belgium. MSc Public Health, Université catholique de Louvain. Promoter: **Devleesschauwer B**.
- Korneel Van Den Driessche (2019) The disease burden of vaccine-preventable diseases in Belgium. MSc Health Care Management and Policy, Ghent University. Promoters: **Devleesschauwer B**, De Smedt D.
- Leen Van Doorslaer (2019) Comparative risk assessment of tobacco use in Belgium. MSc Health Care Management and Policy, Ghent University. Promoters: De Smedt D, **Devleesschauwer B**.
- Luna Gongal (2019) Knowledge, attitudes and practices on rabies in Nepal. MSc Tropical Animal Health, Institute of Tropical Medicine. Promoters: Dorny P, **Devleesschauwer B**.
- Marie Denis (2019) Comparative risk assessment of dietary risk factors in Belgium. MSc Public Health, Université catholique de Louvain. Promoter: **Devleesschauwer B**.
- Senne Terryn (2019) The disease burden of sexually transmitted infections in Belgium. MSc Health Care Management and Policy, Ghent University. Promoters: **Devleesschauwer B**, De Smedt D.

- Silke Thomas, Stephanie Marinus (2019) Health impact assessment of sugar reduction in Belgium. MSc Health Care Management and Policy, Ghent University. Promoters: De Smedt D, **Devleesschauwer B.**

## 6.7 PhD examination committees (6)

- **Nadine Kayiba Kalendan**, October 2021  
PhD Public Health, Université catholique de Louvain  
Mise en place d'un système de surveillance moléculaire de la résistance aux antipaludiques en République Démocratique du Congo : Rôle, avantage et défis  
Promoters: Niko Speybroeck, Paul Lusamba Dikassa
- **Nanna Weye**, August 2021  
PhD Health, Aarhus University  
The burden of disease of mental and substance use disorders  
Promoters: John McGrath, Oleguer Plana-Ripoll, Kim Moesgaard Iburg, Harvey Whiteford
- **Lea Sletting Jakobsen**, November 2017  
PhD Nutrition, National Food Institute, Danish Technical University  
Method development in the study of burden of disease of foodborne chemicals  
Promoters: Morten Poulsen; Sara Monteiro Pires, Maarten Nauta
- **Malgorzata Jennes**, October 2017  
PhD Veterinary Sciences, Ghent University  
Novel insights in the host-pathogen interaction of porcine toxoplasmosis  
Promoters: Eric Cox; Pierre Dorny, Stéphane De Craeye
- **Elvire Mfueni Bikundi**, June 2016  
PhD Public Health, Université catholique de Louvain  
Mieux comprendre les relations entre les déterminants socioéconomiques, la couverture en moustiquaires et la prévalence du paludisme chez les enfants en R.D Congo et en Afrique  
Promoters: Niko Speybroeck; Robert Snow
- **Marco Coral Almeida**, February 2016  
PhD Veterinary Sciences, Ghent University  
Epidemiological transmission patterns of *Taenia solium* cysticercosis in endemic areas: The case of Ecuador  
Promoters: Pierre Dorny; Sarah Gabriël, Emmanuel Nji Abatih, Washington Benitez

## 7 Scientific output

### 7.1 Book chapters

- [11] Jakobsen LS, **Devleesschauwer B**, Pires SM (2023) Burden of Disease of Foodborne Chemicals. In: Moy G, Todd E (eds) *Encyclopedia of Food Safety*, 2nd ed., in press. doi: [10.1016/B978-0-12-822521-9.00010-1](https://doi.org/10.1016/B978-0-12-822521-9.00010-1)
- [10] Di Bari C, **Devleesschauwer B** (2023) Burden of Foodborne Diseases From Biological Hazards. In: Moy G, Todd E (eds) *Encyclopedia of Food Safety*, 2nd ed., in press. doi: [10.1016/B978-0-12-822521-9.00221-5](https://doi.org/10.1016/B978-0-12-822521-9.00221-5)
- [9] Trevisan C, Gabriël S, Dorny P, **Devleesschauwer B** (2022) *Taenia solium* Cysticercosis/Taeniosis in Europe and Central Asia. In: Steinmann P, Utzinger J (eds) *Neglected Tropical Diseases - Europe and Central Asia*, pp 69-82. doi: [10.1007/978-3-030-84224-6\\_4](https://doi.org/10.1007/978-3-030-84224-6_4)
- [8] Pires SM, **Devleesschauwer B** (2021) Estimates of Global Disease Burden Associated with Foodborne Pathogens. In: Morris JGJ, Vugia D (eds) *Foodborne Infections and Intoxications*, 5th ed., pp 3-17. doi: [10.1016/B978-0-12-819519-2.00020-7](https://doi.org/10.1016/B978-0-12-819519-2.00020-7)
- [7] **Devleesschauwer B**, Pires SM, Kowalczyk BB, Scharff RL, Havelaar AH, Speybroeck N (2021) Risk Metrics: Quantifying the Impact of Adverse Health Effects. In: Pérez-Rodríguez F (ed) *Risk Assessment Methods for Biological and Chemical Hazards in Food*, pp 47-78. doi: [10.1201/9780429083525-4](https://doi.org/10.1201/9780429083525-4)
- [6] **Devleesschauwer B**, Scharff RL, Kowalczyk BB, Havelaar AH (2018) Burden and Risk Assessment of Foodborne Disease. In: Roberts T (ed) *Food Safety Economics: Incentives for a Safer Food Supply*, pp 83-106. doi: [10.1007/978-3-319-92138-9\\_6](https://doi.org/10.1007/978-3-319-92138-9_6)
- [5] Kowalczyk BB, Pires SM, Scallan E, Lamichhane A, Havelaar AH, **Devleesschauwer B** (2018) Improving Burden of Disease and Source Attribution Estimates. In: Roberts T (ed) *Food Safety Economics: Incentives for a Safer Food Supply*, pp 143-174. doi: [10.1007/978-3-319-92138-9\\_9](https://doi.org/10.1007/978-3-319-92138-9_9)
- [4] **Devleesschauwer B**, Haagsma JA, Mangan M-JM, Lake RJ, Havelaar AH (2018) The Global Burden of Foodborne Disease. In: Roberts T (ed) *Food Safety Economics: Incentives for a Safer Food Supply*, pp 107-122. doi: [10.1007/978-3-319-92138-9\\_7](https://doi.org/10.1007/978-3-319-92138-9_7)
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### 7.3 Submitted manuscripts

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- [18] **Devleesschauwer B**, Scohy A, De Pauw R, Gorasso V, Kongs A, Neiryneck E, Verduyck P, Wyper GMA, Van den Borre L. Investigating years of life lost in Belgium, 2004–2019: A comprehensive analysis using a probabilistic redistribution approach. *Arch Public Health*. preprint: [10.21203/rs.3.rs-2952989/v1](https://doi.org/10.21203/rs.3.rs-2952989/v1)
- [17] Andrade CAS, Mahrouseh N, Gabrani J, Charalampous P, Cuschieri S, Grad DA, Unim B, Mechili EA, Chen-Xu J, **Devleesschauwer B**, Isola G, von der Lippe E, Baravelli CM, Fischer F, Weye N, Balaj M, Haneef R, Economou M, Haagsma JA, Varga O. Inequalities in the burden of non-communicable diseases across European countries: a systematic analysis of the Global Burden of Disease 2019 study. *Int J Equity Health*
- [16] Khan YP, Verhaeghe N, **Devleesschauwer B**, Cavillot L, Gadeyne S, Pauwels NS, Van den Borre L, De Smedt D. The impact of the COVID-19 pandemic on delayed care of cardiovascular diseases in Europe: a systematic review. *Eur Heart J Qual Care Clin Outcomes*
- [15] **Devleesschauwer B**, Willem L, Jurčević J, Smith P, Scohy A, Wyper G, Pires SM, Van Goethem N, Beutels P, Franco N, Abrams S, Van Cauteren D, Speybroeck N, Hens N, De Pauw R. The direct disease burden of COVID-19 in Belgium in 2020 and 2021. *BMC Public Health*
- [14] O’Caoimh R, O’Donovan M, **Devleesschauwer B**, Sezgin D, Aaron L, Kabir Z. Validation of the Global Burden of Disease study frailty index (GBD-FI) in the Survey of Health, Ageing and Retirement in Europe. *Age Ageing*
- [13] Vanthomme K, Gadeyne S, **Devleesschauwer B**, Van den Borre L. Excess mortality across migrant groups in Belgium during the first three COVID-19 waves: the evolving dynamics of social inequalities. *J Public Health*
- [12] Gorasso V, Vandevijvere S, Van der Heyden J, Pelgrims I, Hilderink H, Nusselder W, Demoury C, Schmidt M, Vansteelandt S, De Smedt D, **Devleesschauwer B**. The incremental healthcare cost associated with cancer in Belgium: a registry-based data analysis. *Appl Health Econ Health Policy*
- [11] Thi Khanh Nguyen H, Cornelissen L, Castanares-Zapatero D, De Pauw R, Van Cauteren D, Demarest S, Drieskens S, **Devleesschauwer B**, De Ridder K, Charafeddine R, Smith P. Association between SARS-CoV-2 variants and post COVID-19 condition: findings from a longitudinal cohort study in the Belgian adult population. *BMC Infect Dis*

- [10] Makovski TT, Ghattas J, Monnier-Besnard S, Cavillot L, Ambrožová M, Vašinová B, Feteira-Santos R, Bezzegh P, Bollmann FP, Cottam J, Haneef R, **Devleesschauwer B**, Speybroeck N, Nogueira PJ, Forjaz MJ, Coste J, Carcaillon-Bentata L. Etiological and prognostic roles of frailty and multimorbidity in the development of SARS-CoV-2 health outcomes: systematic review of population-based studies. *Age Ageing*
- [9] Janssens H, Heytens S, Meyers E, **Devleesschauwer B**, Cools P, Geens T. Exploratory study of risk factors related to SARS-CoV-2 prevalence in nursing homes in Flanders (Belgium) during the first wave of the COVID-19 pandemic. *Ann Work Expo Health*
- [8] Vandeninden B, De Clercq E, **Devleesschauwer B**, Otavova M, Bouland C, Faes C. Cluster pattern analysis of environmental stressors and quantifying their impact on all-cause mortality in Belgium. *Int J Health Geogr*
- [7] Venkateswaran N, Swetschinski LR, Fastl C, Di Bari C, Criscuolo NG, Zhao C, Meštrović T, Ikuta KS, Martins SB, Coyne LA, Afonso JS, Huntington B, Rushton J, **Devleesschauwer B**, Naghavi M, Sartorius B, Van Boeckel TP, Pigott DM. Bacterial antimicrobial resistance: Data gaps and relationships between human and animal resistance. *Lancet Glob Health*
- [6] Cruz Oliveira C, Charalampous P, Delaye J, Grad DA, Kolkhir P, Mechili EA, Unim B, **Devleesschauwer B**, Haagsma JA. A systematic review of studies that estimated the burden of chronic non-communicable rare diseases using disability-adjusted life years. *Orphanet J Rare Dis*
- [5] Nayani S, Castañares D, De Pauw R, Van Cauteren D, Demarest S, Drieskens S, Cornelissen L, **Devleesschauwer B**, De Ridder K, Charafeddine R, Smith P. Classification of symptoms and associated factors of post COVID-19 condition: a longitudinal study in the Belgian population. *J Epidemiol Community Health*
- [4] Wyper GMA, McDonald S, Haagsma JA, **Devleesschauwer B**, Charalampous P, Maini R, Smith P, Pires SM. A proposal for further developing fatigue-related post COVID-19 health states for burden of disease studies. *BMJ Glob Health*
- [3] Charalampous P, Haagsma JA, Cuschieri S, **Devleesschauwer B**, von der Lippe E, Pires SM, Polinder S, Wyper GM, Hatzizianni A, Pallari E. Estimating Years of Life Lost due to COVID-19 over the first two years of the pandemic in Cyprus: comparisons across areas, age, and sex. *Scand J Public Health*
- [2] Smith P, De Pauw R, Van Cauteren D, Demarest S, Drieskens S, Cornelissen L, **Devleesschauwer B**, De Ridder K, Charafeddine R. Post COVID-19 condition and health-related quality of life: a longitudinal cohort study in the Belgian adult population. *BMC Public Health*

- [1] Cavillot L, van Loenhout JAF, **Devleesschauwer B**, Wyndham-Thomas C, Van Oyen H, Ghattas J, Blot K, Van den Borre L, Billuart M, Speybroeck N, De Pauw R, Stouten V, Catteau L, Hubin P. Sociodemographic and socioeconomic disparities in COVID-19 vaccine uptake in Belgium - A nationwide record linkage study. *J Epidemiol Community Health*. preprint: [10.1101/2023.01.31.23285233](https://doi.org/10.1101/2023.01.31.23285233)

## 7.4 Oral and poster presentations

I have presented my work at numerous national and international conferences and meetings.

## 7.5 Reports

- [19] Maertens de Noordhout C, Detollenaere J, Primus-de Jong C, Kohn L, **Devleesschauwer B**, Charafeddine R, Cleemput I. Identifying Patient needs: methodological approach and application. Health Services Research (HSR) Brussels: Belgian Health Care Knowledge Centre (KCE). 2021. KCE Reports 348. D/2021/10.273/51.. <https://kce.fgov.be/en/identifying-patient-needs-methodological-approach-and-app>
- [18] Cornez A, Gorasso V, **Devleesschauwer B** (2021) Belgian national burden of disease study. Guidelines for the calculation of DALYs in Belgium. Brussels, Belgium: Sciensano; 225pp. <https://www.sciensano.be/nl/biblio/belgian-national-burden-diseas>
- [17] Schutte N, Van der Heyden J, **Devleesschauwer B**, De Ridder K, Van Oyen H (2020) BELCOHORT: Opportunities for a population-based cohort in Belgium. Brussels, Belgium: Sciensano; 58pp. Report number: D/2020/14.440/84. <https://www.sciensano.be/en/biblio/belcohort-opportunities-a-population-based-cohort-bel>
- [16] Cornez A, **Devleesschauwer B** (2020) Belgian national burden of disease study. Guidelines for the calculation of DALYs in Belgium. Brussels, Belgium: Sciensano; 94pp. <https://www.sciensano.be/nl/biblio/belgian-national-burden-disease-study-gu>
- [15] Schutte N, Raes L, **Devleesschauwer B** (2020) Morbidity Statistics. 2019 Pilot Data Collection Belgium, Final Report. Brussels, Belgium: Sciensano; 52pp. Report number: D/2020/14.440/86. <https://www.sciensano.be/en/biblio/morbidity-statist>
- [14] Raes L, **Devleesschauwer B** (2019) Morbidity Statistics. 2019 Pilot Data Collection Belgium, Intermediary Report. Brussels, Belgium: Sciensano; 50pp. <https://www.sciensano.be/en/biblio/morbidity-statistics-2019-pilot-data-collection-belgi>
- [13] Food and Agriculture Organization of the United Nations, World Health Organization (2019) Attributing illness caused by Shiga toxin-producing *Escherichia coli* (STEC) to specific foods. JEMRA Microbiological Risk Assessment Series. <http://www.fao.org/publications/card/en/c/CA5758EN>

- [12] Devos C, Cordon A, Lefèvre M, Obyn C, Renard F, Bouckaert N, Gerken S, Maertens de Noordhout C, **Devleesschauwer B**, Haeltermann M, Léonard C, Meeus P. Performance of the Belgian health system – report 2019. Health Services Research (HSR) Brussels: Belgian Health Care Knowledge Centre (KCE). 2019. KCE Reports 313. D/2019/10.273/34. <https://kce.fgov.be/en/performance-of-the-belgian-health-system/2019/E2%80%93report-2019>
- [11] Renard F, **Devleesschauwer B** (2019) Health Status Report 2019: De gezondheidstoestand in België. Brussels, Belgium: Sciensano; 48pp. Report number D/2019/14.440/4. <https://doi.org/10.25608/reh4-ty02>
- [10] Renard F, **Devleesschauwer B** (2019) Health Status Report 2019: L'état de santé en Belgique. Brussels, Belgium: Sciensano; 48pp. Report number D/2019/14.440/3. <https://doi.org/10.25608/a42z-ah78>
- [9] Federal Agency for the Safety of the Food Chain (2019) The FASFC analyses program regarding process contaminants (dossier SciCom 2018/03). [http://www.afsca.be/scientificcommittee/opinions/2019/\\_documents/Advice02-2019.pdf](http://www.afsca.be/scientificcommittee/opinions/2019/_documents/Advice02-2019.pdf)
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- [7] Food and Agriculture Organization of the United Nations, World Health Organization (2018) Shiga toxin-producing *Escherichia coli* (STEC) and food: attribution, characterization, and monitoring. JEMRA Microbiological Risk Assessment Series. <http://www.fao.org/documents/card/en/c/CA0032EN>
- [6] Graham H, Martijn Bouwknegt M, **Devleesschauwer B**, Robertson L, van der Giessen L (2016) COST Action FA1408: European ranking of foodborne parasites. Results of a workshop held to prioritise foodborne parasites in Europe using multi-criteria decision analyses, 8–12 February 2016, RIVM Bilthoven.
- [5] World Health Organization (2015) WHO estimates of the global burden of foodborne diseases. Foodborne diseases burden epidemiology reference group 2007–2015. Geneva: WHO Press. [http://www.who.int/foodsafety/publications/foodborne\\_disease/fergreport/en/](http://www.who.int/foodsafety/publications/foodborne_disease/fergreport/en/)
- [4] Smit S, **Devleesschauwer B**, Apers L, Macq J, Beutels P, Speybroeck N (2015) Evaluation of the cost-effectiveness of the tuberculosis policies in Flanders. Report submitted to the Agency for Care and Health.
- [3] Food and Agriculture Organization of the United Nations, World Health Organization (2014) Risk based examples for control of *Trichinella* spp. and *Taenia saginata* in meat. Report of a joint FAO/WHO expert meeting, 22–25 October 2013, WHO

Headquarters, Geneva, Switzerland. <ftp://ftp.fao.org/codex/meetings/CCFH/ccfh46/TrichinellaMtgReport241014.pdf>

- [2] World Health Organization (2014) WHO initiative to estimate the global burden of foodborne diseases: fifth formal meeting of the Foodborne Disease Burden Epidemiology Reference Group (FERG), 8–12 April 2013, Geneva, Switzerland. Geneva: WHO Press. <http://www.who.int/foodsafety/publications/ferg5/en/>
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## 7.6 R Packages

- [8] **Devleesschauwer B**, McDonald S, Haagsma J, Praet N, Havelaar A, Speybroeck N (2016) DALY: The DALY Calculator—Graphical User Interface for Probabilistic DALY Calculation in R. R package version 1.5.0. <https://cran.r-project.org/package=DALY>
- [7] **Devleesschauwer B**, Braae UC (2016) cystiSim: Agent-Based Model for *Taenia solium* Transmission and Control. R package version 0.1.0. <https://cran.r-project.org/package=cystiSim>
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- [5] **Devleesschauwer B**, Faes C, Havelaar A, Speybroeck N (2016) QMRA: Parametric Models for Quantitative Microbial Risk Assessment. R package version 0.0.14. <https://github.com/brechtdv/QMRA>
- [4] **Devleesschauwer B** (2016) HFA: R Interface to European Health for All Database (HFA-DB). R package version 0.0.0.9004. <https://github.com/brechtdv/HFA>
- [3] **Devleesschauwer B**, McDonald S (2015) FERG: DALY Calculation Framework for WHO/FERG. R package version 0.1.0. <https://github.com/brechtdv/FERG>
- [2] **Devleesschauwer B**, Willimès S, Van Malderen C, Konings P, Speybroeck N (2015) rineq: Statistical Analysis of Health Inequalities. R package version 0.0.1. <https://github.com/brechtdv/rineq>
- [1] **Devleesschauwer B**, Torgerson PR, Charlier J, Levecke B, Praet N, Roelandt S, Smit G, Dorny P, Berkvens D, Speybroeck N (2015) prevalence: Tools for Prevalence Assessment Studies. R package version 0.4.0. <https://cran.r-project.org/package=prevalence>

## 7.7 Vulgarizing articles

- [9] *Hoe overgewicht op de gezondheidszorg weegt*. EOS Blogs, 2 December 2021. <https://www.eoswetenschap.eu/gezondheid/hoe-overgewicht-op-de-gezondheidszorg-weegt>
- [8] *In a tobacco-free world, life expectancy increases by 2 years*. Sciensano news, 11 December 2019. <https://www.sciensano.be/en/press-corner/a-tobacco-free-world-life-ex>
- [7] *Acute gastroenteritis cost the Belgian economy hundreds of millions euros every year*. Sciensano news, 26 June 2019. <https://www.sciensano.be/en/press-corner/acute-gastroenteritis-cost-belgian-economy-hundreds-millions-euros-every-year>
- [6] *New! Belgian Health Status Report available online*. Sciensano news, 22 February 2019. <https://www.sciensano.be/en/press-corner/new-belgian-health-status-report-a>
- [5] *Belgium drops from 8th to 15th place on the European ladder of healthy life years*. Sciensano news, 16 July 2018. <https://www.sciensano.be/en/press-corner/belgium-drops-8th-15th-place-european-ladder-healthy-life-years>
- [4] *One in 10 globally suffer from foodborne diseases, WHO study finds*. EPI News, 3 December 2015. <http://news.ufl.edu/articles/2015/12/one-in-10-globally-suffer-from>  
[php](http://news.ufl.edu/articles/2015/12/one-in-10-globally-suffer-from)
- [3] *Des nombres pour des aliments sûrs*. La Libre Belgique, 12 April 2015.
- [2] *Comment les nombres rendent vos aliments plus sûrs*. Le Soir, 8 April 2015.
- [1] *Hoe getallen je voedsel veiliger maken*. De Morgen, 7 April 2015. <https://www.demorgen.be/opinie/hoe-getallen-je-voedsel-veiliger-maken-b7910eb9/>

## 8 Scientific honors and awards

- **Odile Bain Memorial Prize**, Parasites & Vectors; 2018
- **PhD Scholarship**, Special Research Fund (BOF), Ghent University; 2010
- **Pfizer Award** for the best Master thesis in Veterinary Medicine; 2010
- **Dr Paul Janssen Award** for the best Master student in Veterinary Medicine; 2010
- **Floribert Jurion Fund**, Royal Academy for Overseas Sciences; 2009
- **Travel grant**, BIOS, Ghent University; 2008
- **Travel grant**, Flemish Inter-University Council—University Development Cooperation (VLIR-UOS); 2007

*Brecht Devleesschauwer*  
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*04 July 2023*