

CURRICULUM VITAE

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Nationality: Belgian

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The Netherlands

ACTUAL POSITIONS

March 2012 till present
Professor of Infectious Diseases, Hasselt University, Hasselt, Belgium

November 2008 till present
Internist/Infectious Diseases, Head of the Department of Infectious Diseases & Immunity,
Jessa Ziekenhuis vzw, Hasselt, Belgium

June 2007 till present
Senior researcher, Department of Medicine, Radboud University Medical Center, Nijmegen,
The Netherlands

PREVIOUS APPOINTMENTS AND POSITIONS

March 2009 -2012
Visiting professor, Faculty of Medicine, Hasselt University, Hasselt, Belgium

1992 - 2007
ID Fellowship Program Director (2006-2007), Associate ID Fellowship Program Director
(1997-2005), Division of Infectious Diseases, Department of Internal Medicine, Erasmus
University Medical Center Rotterdam and Lecturer in Infectious Diseases, Anti-Infective
Pharmacology and HIV, Erasmus University Rotterdam.

1989 -1992

Internist-researcher, Dept. of Internal Medicine, University Hospital Nijmegen.

1979-1984

Medical and public health officer at the Centre Hospitalier Départemental, Projet Médical Belge, in Dosso, Niger (NW Africa). Appointed in a bilateral Nigero-Belgian Development Program (ABOS, Ministry of Cooperation for Development, Brussels).

EDUCATION

1971-74 Medicine (bachelor)
Faculty of Medicine, Rijksuniversitair Centrum Antwerpen (Belgium)

1974-78 Medicine (master), Medical Doctor cum laude
Faculty of Medicine, Universitaire Instelling Antwerpen (Belgium)

1979 Degree in Tropical Medicine, magna cum laude
Prince Leopold Institute of Tropical Medicine, Antwerpen (Belgium)

TRAINING

1984 -1989 Internal Medicine, Antwerp University (Belgium)

1987-1988 Infectious Diseases, University Hospital Leiden (The Netherlands)

1989 Registered as Specialist in Internal Medicine (Belgium)

1992 Registered as Infectious Diseases specialist (The Netherlands)

1996 PhD Thesis: "Optimizing antimicrobial drug use. Studies and interventions in a university hospital." Faculty of Medical Sciences, Radboud University Nijmegen (The Netherlands)

CERTIFICATES

2010 Certificate Good Clinical Practice, Radboud University Nijmegen

2009 Certificate in Travel Health[®], International Society of Travel Medicine (ISTM)

1991 Experimental Animal Research Techniques and in vitro alternatives, *artikel-9 functionaris*, University of Nijmegen & Utrecht

1990 Clinical trials: Principles and practice. Erasmus program on Clinical and Epidemiological Research Methods, Erasmus University Rotterdam

1989 -1990 Infection control specialist, Antwerp University (100 h)

1984 Training course of the Belgian Red Cross for International Delegates (40 h)

GRANTS/RESEARCH FUNDING

Awards

2008 Alliance for the Prudent Use of Antibiotics (APUA) Leadership Award on behalf of the Dutch Working Party on Antibiotic Policy (SWAB)

1987-1988 Fellowship Infectious Diseases, Rotary Foundation District 217

Grants

1992-2003 Various unrestricted Research grants from pharmaceutical companies for a research programme on the abscesses in a subcutaneous murine model

1997-present Various unrestricted Research grants from pharmaceutical companies for pharmacokinetic and clinical studies

1999-2002 Research grants of The Netherlands Organisation for Health Research and Development (ZonMw) project nr 2200.0033 and nr 2010.0964.02 Multicenter intervention study Surgical prophylaxis and Surveillance of Infections (CHIPS)

2004-2007 Various Educational grants from pharmaceutical companies for quality improvement projects in the Netherlands and Indonesia

- 2003-2013 Research grants from the Netherlands Ministry of Health, Welfare and Sports to the Working Party on Antibiotic Policy (SWAB) for development of clinical infectious diseases guidelines and related activities.
- 2008 Research grant from Bayer Healthcare for "Contribution of relevant pathogens and innate immunity diversity of the host to the clinical severity and treatment outcome of complicated skin and skin structure infections (cSSSIs) in the patient population of IMPACT 11974, a multinational multicenter prospective, randomised comparative study (RELIEF study)".
- 2010 LSM grant Cluster Infectious Diseases, Hasselt University Belgium
- 2011 IWT grant for PhD researcher Yati Thys, Hasselt University
- 2014 LCRP grant cluster Infection/immunity, Hasselt University
- 2014-2016 IMI grant ND4BB Topic 4 grant for *Driving Re-Investment in R&D and Responsible Antibiotic Use* (DRIVE-AB) project, WP1A, Radboudumc. www.drive-ab.eu
- 2015-2020 HORIZON 2020 Topic Development of new diagnostic tools and technologies: in vitro devices, assays and platforms (PHC-10-2014) grant for *Fast Assay for Pathogen Identification and Characterization* (FAPIC) project WP8 Clinical evaluation. Hasselt University and Radboudumc.
- 2016 Grant from the Dutch government (EU –Presidency) for organizing the DRIVE-AB 2-3 June midterm stakeholder conference *Stimulating innovation, sustainable use and global access to antibiotics*

HONOURS and OFFICES

- Associate Editor on the Clinical Microbiology & Infection (CMI) Editorial Board (2014 –
- Member of the scientific council Biobank Limburg (2010-
- Member of the Board (1999 – 2013), Working Party on Antibiotic Policy (Stichting Werkgroep AntibioticaBeleid, SWAB); Honorary secretary, (funded by the Netherlands Ministry of Health, Welfare and Sports, 2000 – 2004) www.swab.nl
- Chair (2005-2010) and member (2004-2011) of the Executive committee of the European Society of Medical Microbiology (ESCMID) Study Group for Antibiotic Policies (ESGAP)
- National Delegate for the focal point of Antimicrobial Resistance Netherlands, European Centre for Disease Prevention and Control (ECDC) (2007- 2013)
- Active reviewer of a number of international journals including for Journal of Antimicrobial Chemotherapy, Antimicrobial Agents and Chemotherapy, Clinical Infectious Diseases, Intensive Care Medicine

ADVISORY COMMITTEES

Research evaluation

- 2011- Grant review for ZonMw (NL), Programme Priority Medicines Antimicrobial resistance
- 2009 Evaluator for the European Commission, Research Directorate General, Directorate F- Health, Infectious Diseases
- 2006- Abstract and Scientific proposal review, ECCMIDs
- 2006 Member/Chair of the selection committee WRO Goslings Award, Society for Infectious Diseases
- 2003 Grant review for ZonMw (NL), Programme Prevention

INTERNATIONAL EXPERTISE (recent and ongoing)

- Invited expert, Wellcome Trust Summit on antimicrobial resistance, April 2016
- Invited expert, WHO Antimicrobial consumption surveillance, March 2016
- Invited expert, EMA June 2015
- Invited expert, ESCMID, REIPI (Spanish Network for the Research in Infectious Diseases) and ISGlobal (Barcelona Institute for Global Health) meeting, "Consumption of antibiotics in the hospitals. Antibiotic stewardship", Barcelona (2013)
- Invited expert, Conference on Priority Medicines Antimicrobial Resistance, ZonMw, Amsterdam (2010)
- Invited expert, Meeting of European experts: "New Strategies to Monitor and Control Infections, Antibiotic Use and Resistance in Healthcare Facilities in the EU Member States", Brussels (2010)
- Invited expert, Swedish conference and workshops "The global need for effective Antibiotics- Moving towards Concerted Action", Uppsala (2010)
- Invited expert, Swedish conference and Workshops " Innovative Incentives for Effective Antimicrobials", Stockholm (2009)
- Invited expert, Ontario Antimicrobial Stewardship Project: Consensus Conference on Priority Interventions for Ontario Hospitals, Toronto, June 2009
- Consultant, WHO, Geneva, June 2009. The third challenge: Antibiotic resistance
- Expert, European Medicines Agency (EMA), London (2009)
- Consultant and Expert, European Centre for Infection Prevention and Control (ECDC), Stockholm, Antimicrobial Resistance Surveillance unit and Public Health Unit (2008-

INVITATIONS to FOREIGN INSTITUTES

- 2017 scheduled Jan-April. Visiting professor, Infectious Diseases Clinics University Hospital Modena (It)
- 2010 Laboratory Sciences Division, ICDDR, B (Prof. dr. H.P. Endtz), Dhaka, Bangladesh. Lecture "The gap between Antimicrobial resistance and the availability of antibiotics".
- 2005 Statens Serum Institut, Antimicrobial Resistance Surveillance Unit National Center for Antimicrobials and Infection Control (Dr. D.L. Monnet), Copenhagen (DK)
- 2003 Department of Medicine, Division of Infectious Diseases (Prof. W.A. Craig), University of Wisconsin, Madison (US). Lecture "Antibiotic policies in the Netherlands"

INVITED LECTURES (recent)

- 2016 ID week New Orleans scheduled 29 October
- 2016 Roundtable series BSAC, "The definition of responsible use" London 19 May
- 2015 ICAAC/ICC 2015 San Diego Meet-the-Experts "Metrics To Assess Effectiveness of Antibiotic Stewardship", scheduled 21 September
- 2015 European Congress of Clinical Microbiology and Infectious Diseases 25th ECCMID Session: SY16 "What is responsible use of antibiotics? View of low resistance countries", Copenhagen
- 2015 Symposium Infections in the Immunocompromised Host " Antimicrobial stewardship in immunocompromised patients in Europe", Azienda Ospedaliero-Universitaria di Modena, 15 January
- 2014 Healthcare Infection Society HIS 2014, "The role and evidence for restriction as an antimicrobial stewardship tool", Lyon
- 2014 ESCMID Conference on Reviving Old Antibiotics, "Stewardship aspects for last resort antibiotics", Vienna
- 2013 Symposium Therapeutic approach to severe infections in the elderly population,

- do we still have options? Azienda Ospedaliero–Universitaria di Modena
- 2013 CROCMID 2013 10th Croatian congress of Clin Microbiol/7th congress of Infect Diseases, Rovinj (Croatia)
- 2013 Voorjaarsdagen European veterinary conference, Amsterdam
- 2013 Wondcongres, the Flemish Dutch Wound consultant society, Hasselt
- 2012 National SWAB symposium, Utrecht "Forgotten antibiotics"
- 2011 Annual congress of the Dutch Society for Pediatrics, "Postoperative infections"
- 2011 51st ICAAC, Chicago, Meet-the Experts "How are we dealing with generic drugs that are not freely available" and Interactive session "Restrictive measures for Antimicrobial stewardship"
- 2011 European Conference on Infection in Leukemia (ECIL-4), Juan les Pins, "Antimicrobial stewardship"

CURRICULAR and POSTGRADUATE TEACHING EXPERIENCE

Hasselt University since 2010

Undergraduate teaching; Infectious Diseases and Antimicrobial therapy

Radboud University Nijmegen since 2007

Undergraduate teaching; Infectious Diseases and Antimicrobial therapy

Erasmus MC 1993-2007

Undergraduate teaching: Infectious Diseases and Antimicrobial therapy

National level 1993-present

Postgraduate teaching: COIG, ROIG for residents in Internal Medicine; Boerhaave courses, Leiden (1993-2011); NIV, Maastricht, Cursus Klinische Anaerobe bacteriologie, Universiteit Groningen; Faculty Cours national de Gestion de la thérapie Anti-infectieuse, Université Libre de Bruxelles (2002 – 2009)

International level

Postgraduate teaching:

ESGAP/ESCMID postgraduate courses. Supported by educational grants from the European Society of Microbiology and Infectious Diseases (bi-) annually in Europe (2013-

European Society of Clinical Pharmacists (ESCP) workshop on 'Patients, Infections and the Clinical Pharmacist' Leuven (2012) ,15th Annual Training Course European Bone Marrow Transplant (EBMT) Wurzburg (2012)

- See also under Organisation

SUPERVISION OF RESEARCH at the (post) doctoral level

- 1998-2004 Dr. L.E.T Stearne-Cullen (postdoc). Abscess model research. Erasmus University Rotterdam
- 2002 Dr. J.P. Dieleman. Safety aspects of protease inhibitors. Thesis Erasmus University Rotterdam (co-promotor)
- 2003 Dr. S.L. Buijk. Antimicrobial pharmacokinetics in critically ill patients. Thesis Erasmus University Rotterdam (co-promotor)
- 2006 C. van Nispen tot Pannekoek. Management of Diabetic Foot infections Erasmus MC Rotterdam (quality improvement project)
- 2007 H. Bax. SWAB guideline program Sepsis, Erasmus MC Rotterdam
- 2008 Dr. M. van Kasteren. Improving the prescription of Antibiotics. Thesis Focus on surgical prophylaxis. Radboud University Nijmegen (co-promotor)
- 2008 Dr. Ir. J. Manniën. Surveillance of Surgical Site Infections: the PREZIES network. Thesis LUMC, (co-promotor)
- 2009 Dr. Usman Hadi. Quantity and quality of Antibiotic use on Java, Indonesia. Thesis LUMC, (co-promotor)
- 2009 N Janssen, N4i, Pattern recognition of *B. fragilis* (project) University Medical

	Centre Nijmegen.
2011-13	Yati Thys, MSc, Hasselt University
2010	Mark Stappers, MSc, Radboud University Medical Centre Nijmegen (promotor)
2014-	Annelie Monnier, MSc, Radboud University Medical Centre Nijmegen (PhD track)
2014-	Toon Peeters, MSc, Hasselt University (PhD track)
2016-	Valentino D'Onofrio MSc, Hasselt University (PhD track)

PhD committees (recent)

Dr. Y. Santa Ana Telez, Evaluating pharmaceutical policies using cross-sectional comparisons and time series analysis. Utrecht University, 2016, manuscript committee

Dr. F. Buyle, Antimicrobial stewardship programs in a hospital setting: Development of quality indicators and implementation of intervention, Ghent University, 2015, manuscript committee

Dr. M. Tromp, Improving the care for patients with sepsis, Radboud University Nijmegen, 2012

Dr. A.C.M. Veloo, Gram-positive anaerobic cocci, identification and relevance, UMC Groningen 2011, manuscript committee

Dr. L. Chai Yi Ann, Host-pathogen interaction in Aspergillus infections, Radboud University Nijmegen, 2010 manuscript committee

Dr. J.G. Ferwerda, Cross-talk of inflammatory pathways for pathogen recognition. Radboud University Nijmegen, 2010.

ORGANISATION of INTERNATIONAL COURSES, SYMPOSIA AND CONFERENCE

- Co-organiser and faculty, **National SWAB training course** for Antibiotic teams in hospitals, Utrecht area, December 2013 and April 2014 The Netherlands
- Co-organiser, **Symposium** European Antibiotic Awareness Day 18 November 2011, rivm, Bilthoven, The Netherlands
- Organiser, **Symposium** National Sepsis guideline, 6 September 2011 Maarssen, The Netherlands
- Co-convenor and faculty, Pre-meeting **educational Workshops**, supported by the American Society for Microbiology (ASM) before the Interscience Conference on the Antimicrobial Chemotherapy (ICAAC), USA: annually since 2003.
- Co-organiser and faculty, ESGAP/ESCMID **postgraduate courses**. Supported by educational grants from the European Society of Microbiology and Infectious Diseases (bi-) annually in Europe (2003-2011).

MEMBERSHIP OF INTERNATIONAL SCIENTIFIC SOCIETIES

Netherlands - Belgium

- Nederlandse Internisten Vereniging (NIV)
- Vereniging voor Infectieziekten (VIZ)
- Nederlandse Vereniging van HIV behandelaren (NVHB)
- Belgische Internistenvereniging

International

- European Society of Clinical Microbiology and Infectious Diseases (ESCMID)
- American Society for Microbiology (ASM)
- Infectious Diseases Society of America (IDSA)
- Alliance for the Prudent Use of Antibiotics (APUA)

PUBLICATIONS

135 articles in peer reviewed cited medical journals (PubMed) and 7 chapters in edited books.

A selection:

Stappers MH, Hagen F, Reimnitz P, Mouton JW, Meis JF, **Gyssens IC**.

Bacteroides fragilis in biopsies of patients with major abscesses and diabetic foot infections: direct molecular versus culture-based detection. *Diagn Microbiol Infect Dis*. 2016 Jun;85(2):263-5.

Stappers MH, Thys Y, Oosting M, Plantinga TS, Ioana M, Reimnitz P, Mouton JW, Netea MG, Joosten LA, **Gyssens IC**. TLR1, TLR2, and TLR6 gene polymorphisms are associated with increased susceptibility to complicated Skin and Skin Structure Infections. *J Infect Dis* 2015 212(9):1491-9

Gyssens IC, Kern WV, Livermore DM; ECIL-4, a joint venture of EBMT, EORTC, ICHS and ESGICH of ESCMID. The role of antibiotic stewardship in limiting antibacterial resistance among hematology patients. *Haematologica* 2013;98:1821-5.

Pulcini C, Bush K, Craig WA, Fridodt-Møller N, Grayson ML, Mouton JW, Turnidge J, Harbarth S, **Gyssens IC**, on behalf of the ESCMID Study Group for Antibiotic Policies (ESGAP). Forgotten antibiotics: an inventory in Europe, US, Canada and Australia. *Clin Infect Dis* 2012;54:268-274.

Freire-Moran L, Aronsson B, Manz C, **Gyssens IC**, So AD, Monnet DL, Cars O. Critical shortage of new antibiotics in development against multidrug-resistant bacteria – Time to react is now. *Drug Resist Updat* 2011;14:118-24.

Carlet J, Collignon P, Goldmann D, Goossens H, **Gyssens IC**, Harbarth S, Jarlier V, Levy SB, N'Doye B, Pittet D, Richtmann R, Seto WH, van der Meer JW, Voss A. Society's failure to protect a precious resource: antibiotics. *Lancet* 2011;387:369-71.