

Curriculum vitae Teun Boekhout

Education

1974-1982: Biology Utrecht University.

1978: Candidate General Biology (B.Sc cum laude) at Utrecht University.

1982: Drs. General Biology (M.Sc. cum laude) at Utrecht University with specializations:

1. Systematic Botany, Universities of Utrecht and Leiden.
2. Tropical Ecology, Universities of Utrecht and Amsterdam
3. Electron Microscopy, Utrecht University.

1991: Ph.D. Biology (cum laude) at Utrecht University.

Career

1982-1983: Scientific assistant (NWO), Rijksherbarium, University of Leiden, Flora Agaricina Neerlandica project.

1983-1987: Scientific assistant (NWO), Centraalbureau voor Schimmelcultures (CBS-KNAW) and department of Molecular Cell Biology (Utrecht University), Imaging and taxonomy of fungi.

1987-1989: Scientific assistant, CBS Yeast Division (Delft, CBS-KNAW).

1989-2001: Tenured research position CBS Yeast Division (Delft, CBS-KNAW).

1987-1992: Secretary of the Mycology working group of the Foundation for Biological Research in the Netherlands (BION).

1992-1993: Postdoc (NATO Talent stipendium) in the laboratories of C.P. Kurtzman (NCAUR-USDA, Peoria, Illinois) and J.W. Fell (RSMAS, University of Miami, Key Biscayne, Florida).

1996: Cofounder of the Mycology section of the Royal Netherlands Society of Microbiology (KNVM).

1996-2000: Secretary Mycology section of the KNVM.

1998-2008: Member of Dutch Working group on Epidemiological Typing (WET).

2000-2007: Chairman of Mycology section KNVM.

2000-2007: Member general board KNVM and member scientific committee KNVM.

2000-2004: Member advisory committee of the Centro de Recursos Microbiológicos

(CREM), New University of Lisbon (Caparica, Portugal).

2001-present: Group leader Yeast Research CBS (Utrecht, CBS-KNAW).

2001-present: Research affiliation with Department of Internal Medicine and Infectious Diseases, University Medical Centre Utrecht (Prof. Dr. A. Hoepelman).

2004: Organizer KNAW colloquium on Comparative Fungal Genomics (Amsterdam).

2006-present: Member Safety Commission KNVM.

2007: Co-organizer and vice-chair of ESF-EMBO conference on Comparative Genomics of Lower Eukaryotes (San Feliu, Spain).

2007-present: Commissioner International Commission of Yeasts (ICY, IUMS).

2008-present: Member ISHAM Global Panel of Opinion Leaders

2009: Co-organizer and vice-chair EMBO conference on Comparative Genomics of Eukaryotic Microorganisms, San Feliu, Spain.

2011: Chair EMBO conference on Comparative Genomics of Eukaryotic Microorganisms, San Feliu, Spain.

2011-present: Vice-chair Mycology Division, International Union of Microbial Societies (IUMS).

2014: Chair 9th International Congress Cryptococcus and cryptococcosis, Amsterdam, The Netherlands.

2014: Chair 14th International Congress of Mycology IUMS, Montreal, Canada.

Research

Within Mycology my main research focuses on the functional diversity of pathogenic yeasts, namely the *Cryptococcus neoformans* (*Cn*) complex, *Malassezia* (*Mal*) spp., *Trichosporon* spp., *Candida* spp. Extensive national and international research collaborations exist in this field. In the field of host-pathogen interactions I collaborate with prof. dr. Theo Geijtenbeek and dr. Sonja Gringhuis (AMC, University of Amsterdam).

I am very knowledgeable about molecular methods to study genetic diversity above, at and below the species level.

Functional aspects of (fungal) biodiversity have my strong interest as well. During the last 15 years collaborative projects have been realized in the field of imaging (e.g. with

LIACS, Leiden), bioprospecting (e.g. in collaboration with Department of Agriculture USA and, currently, the Hubrecht Institute, Utrecht), ecology, and industrial aspects. In the CandIDazol project (EU, Eurotransbio) we developed innovative diagnostics tool for *Candida* yeast, including resistant traits using a Comparative Genomics approach. On tropical ecology we collaborate with Prof. Esperanza Franco (Medellin, Colombia) and Prof. Dr. Antoine Cleef (Amsterdam) on the ecology of fungi from tropical rain forests in the Colombian Amazon.

Research funding

My research is funded by the following sources: Koninklijke Academie van Wetenschappen (KNAW); KNAW strategy fund; KNAW Netherlands-China programme; WOTRO/NWO; Tropenbos Colombia programme; Biotechnological Resesarch and Development Council (BRDC, Department of Agriculture, USA); Odo van Vloten foundation; EU (FP7, Synthesys, Curie and EuroTransBio programmes); Conselho Nacional de Desenvolvimento Científico e Tecnológico (CNPq, Brazil); Florida-Netherlands Foundation; Stimulation Programme Indonesia-Netherlands (SPIN); McGillavry fund; International Foundation of Science (IFS); Proctor & Gamble (Cincinnati, USA); Cancer Genomics Centre (CGC, The Netherlands), Qatar Foundation (Doha, Qatar).

Management

1998-2000: Managing coordinator for the development of a new building for CBS (Utrecht).

1991-present: Extensive experience with project management of short (2-3 months) to longer (4 years AIO & postdoc) projects.

1995-present: Organizer of many colloquia and symposia.

1998-present: Member of management team CBS.

2000-present: Coordinator for trainees CBS.

2001-present: Programme leader CBS.

2006-2011: Management of FEMS Yeast Research (Manuscript Central).

In addition, I followed courses on project management, commercialization and protection of scientific results, and leadership and management of professionals. My communication

style was analyzed as cooperative expressive (GITP).

Teaching

Lectures on biodiversity, evolution and systematics of yeasts were presented in various international courses, e.g. organized by the Gulbenkian Foundation of Science (1984, 1986 Oeiras, Portugal), the New University of Lisbon (2001 Caparica, Portugal), Fundação Oswaldo Cruz (2004 Rio de Janeiro, Brazil), Universitas Indonesia (2006 Jakarta), and recently in Malaysia (2008 Kuala Lumpur), China (2008, 2010 Beijing) and Qatar (2011 Doha). In 2013 we will give a course in Jakarta once more. I teach regularly at courses given by CBS-KNAW and various Dutch research schools, including Infection & Immunity (Utrecht University), Voeding, Levensmiddelentechnologie, Agrobiotechnologie en Gezondheid (VLAG, Wageningen University), Tropical Ecology (University of Amsterdam). From 2009 on I participate in teaching Mycology for second-year students of Medicine in UMCU. So far, I supervised successfully four PhD students. Currently, I am supervising four PhD students. I supervised many trainees (MLO, HLO, B.Sc., M.Sc. and Ph.D.). I act regularly as a referent and examiner in M.Sc. and Ph.D. examinations in The Netherlands and abroad.

Conferences and presentations

My work was presented at major international meetings in my research field (IMC, IUMS, ICCC), and I organized symposia and workshops at several of these meetings, and/or acted as chairman. In addition, I participated in the scientific boards of many of these meetings.

In recent years, I was key note speaker at various national and international symposia (2004 Gent, Semarang; 2005 Utrecht; 2005 and 2007 San Feliu; 2006 Jakarta, Barcelona; 2007 Budapest, Leeds; 2008 Beijing, Paris, Nagasaki; 2009 Tokyo, Beijing, San Feliu; 2011 ICCC Charleston USA; 2012 EU-ASEAN Manilla, ISHAM Berlin, ICY Madison, CAS Beijing, EMBO Heidelberg, Lorenz Leiden).

I co-organized the annual meetings of the Netherlands Society for Microbiology (NVvM) and its Mycology section (with themes Evolution, Microbes in a Changing World, Host-Pathogen Interactions, Comparative Genomics, Applied Mycology). In 2009 and

2011, I co-organize the 3rd and 4th EMBO symposium on Comparative Genomics of Eukaryotic Microorganisms (San Feliu, Spain). In 2014 we will organize ICCG in Amsterdam and the Mycology symposium at the IUMS congress (Montreal, Canada).

Memberships

Netherlands Society of Mycology (NMV); Netherlands Society of Microbiology (NVvM), Netherlands Society for Medical Mycology; Netherlands Organization of Biologists (NIBI); Society for General Microbiology (SGM, UK); American Society of Microbiology (ASM, USA).

Editorial activities

1995: Editor 'Heterobasidiomycetes: Systematics and applied aspects'. Stud. Mycol. 38: 1-190 (eds **T. Boekhout** & R.A. Samson).

2000-2005: Adjunct Chief Editor FEMS Yeast Research.

2003: Editor 'Yeasts and Food: Beneficial and detrimental aspects', pp. 1-488 (Eds **T. Boekhout** & V. Robert, Behr's Verlag, Hamburg).

2006-2010: Chief Editor FEMS Yeast Research.

2011-present: Editor FEMS Yeast Research

2006-present: Editor Fungal Biology

2009-present: Associate Editor Medical Mycology.

2010: Editor book '*Malassezia* and the skin' (eds **T.Boekhout**, E. Guého, P. Mayser, A. Velegriaki, Springer, Berlin).

2011: Editor 5th edition 'The Yeasts, a Taxonomic Study' (eds C.P. Kurtzman, J.W. Fell & **T. Boekhout**, Elsevier, Amsterdam).

2012: Editor 6th edition 'The Yeasts, a Taxonomic Study' (eds T. Boekhout & A. Fonseca eds; wiki, and updates)

Manuscripts are reviewed for the following journals: Antonie van Leeuwenhoek; Appl. Env. Microbiol.; Biol. Conserv.; Biol. J. Linnean Soc.; Biophys. Biochim. Acta; BMC Microbiology; BMC Evol. Biol.; Calsesia, Cell. Mol. Life Sc.; Clin. Infect. Dis.; Eukar. Cell.; FEMS Yeast Res.; FEMS Microb. Ecol.; Flora Neotropica; Entomol. Exper. Applic.; Fungal

Genet. Biol.; Future Medicin; Int. J. Infect. Dis.; Indonesia Microbiology, Int. J. Syst. Evol. Microbiol.; J. Clin. Microbiol.; J. Gen. Appl. Microbiol.; J. Industr. Microbiol. Biotechnol.; Molec. Phylog. Evol.; J. Infect. Dis.; J. Med. Microbiol., J. Microbiol. Meth.; Mol. Genet. Genomics.; Molec. Phylog Evol.; Med. Mycol.*; Mycologia; Mycol. Res.; Mycoses; Plant Biology; PLOSONE; PLOS Pathogens, Rev. Inst. Med. Trop. S. Paulo; Trends Microbiol., Vet. Microbiology, Tijdschr. Infectiez., Yeast. Moreover, I am regularly invited to review research programmes of various international research agencies (European Research Council, Agence Nationale de la Recherche, France).