

Prof. Dr. Pedro W. Crous

PERSONAL AND CONTACT DETAILS

Married to Karina L. Crous. Two children: a son, Max, and daughter, Mia.
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EDUCATION

B.Sc. Forestry (1985); University of Stellenbosch (Stellenbosch, South Africa)
M.Sc.Agric. (*cum laude*) (1988); University of Stellenbosch (Stellenbosch, South Africa)
Ph.D.(Agric.) (1992); University of the Orange Free State (Bloemfontein, South Africa)
DSc (2009); University of Pretoria (Pretoria, South Africa)

PRESENT POSITION

Director of the CBS Fungal Biodiversity Centre, an Institute of the Royal Dutch Academy of Arts and Sciences, Utrecht, Netherlands, and Professor at the Universities of Stellenbosch and Pretoria (South Africa), Utrecht and Wageningen (Netherlands)

AWARDS AND HONOURS

1994 President's award from the SA Foundation of Research Development
1997 Fulbright Fellowship
1999 Alexopolous Award from the Mycological Society of America
2000 Award for outstanding research from the Rector of Stellenbosch University
2001 Havenga Award for Biological Sciences from the SA Academy for Arts and Science
2002 A-rating from the National Research Foundation in South Africa
2005 Hendrik Persoon Award from the Southern African Society for Plant Pathology
2006 President of International Mycological Association
2007 Fellow of Linnaean Society
2010 Elected Corresponding Member of the Royal Academy for Overseas Sciences

PUBLICATIONS

20 Books; 5 Chapters in books
400+ Full-length articles in journals

PRESENTATIONS

300+ papers at symposia
Invited lectures in Australia, Brazil, Canada, Denmark, England, France, Germany, Italy, New Zealand, Norway, Portugal, Scotland, South Africa, Switzerland, Taiwan, The Netherlands, Tunisia, USA, Zimbabwe.
Organised symposia in the USA, Australia, Italy, Canada, New Zealand, South Africa, and hosted workshops in the USA, Australia and Canada.

SUPERVISION OF POST-GRADUATE STUDENTS

Supervisor or co-supervisor of 26 completed master's theses and promoter or co-promoter of 20 doctoral dissertations.
Research laboratories also include 6 post-doctoral students (NL & SA).

FIELD OF RESEARCH

Teaching

Biosystematics and plant pathology

Research

Systematics and phylogeny of plant pathogenic fungi.

As a phytomycologist my main interest lies in the evolution and phylogeny of plant pathogenic fungi, especially *Dothideomycetes*, *Diaporthales* and *Hypocreales*. Understanding and defining species means that the importance of sex (recombination) cannot be ignored. My research has shown that many plant pathogens have both mating type genes, and may be having cryptic sex, which again has serious implications for disease control and rates of evolution. I am interested in intra- and interspecies variation, and how this relates to host specificity and speciation. I actively

pursue integrating DNA data with morphology and ecology. In this regard I initiated MycoBank to capture all fungal names, and now am linking taxa to their DNA data, cultures, specimens and ecology. A main aim of my group is to determine the genetic variation within species and populations, and to develop molecular tools enabling the rapid detection of such pathogens with relation to quarantine and trade. Although situated in the Netherlands, my group consists of postdocs and students in several countries in Europe, Africa, Asia and South America.

MEMBERSHIP OF PROFESSIONAL SOCIETIES AND PROFESSIONAL SERVICES

American Phytopathological Society; British Mycological Society; British Society for Plant Pathology; International Union of Microbiological Societies (Mycology Division); Mycological Society of America; Netherlands Microbiological Society; Royal Netherlands Society for Plant Pathology; Southern African Society for Plant Pathology.

Reviewer of scientific papers for 35 different international journals on a routinely basis, and associate editor of 7 international journals, editor-in-chief of two international journals.

RESEARCH GRANTS

- 2004 CETAF-SYNTHESYS grant, 6th EU Programme
NWO-Groot grant, Building the databases of Life
- 2004 KNAW strategic grant : DNA Barcoding and DNA Bank
- 2005 CETAF-EDIT grant, 6th EU Programme
- 2006 FES-programma 'Versterking infrastructuur plantgezondheid'
- 2008 EU 7th Framework – Quarantine Barcode of Life
- 2008 ICI proposal, International Barcode of Life (Canada)
- 2008 EU 7th Framework, Synthesys II
- 2009 FES-programma 'Making the Tree of Life Work'